Increasing the Competitiveness of Market chains for Smallholder producers

Manual 3: Territorial Approach to Rural Agro-enterprise Development

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Rural Agro-enterprise Development Project

CIAT
Centro Internacional de Agricultura Tropical
International Center for Tropical Agriculture
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Acknowledgement

This manual is the result of several years of action-research in diverse sites in Latin America, and more recently in Africa and South East Asia with farmer organizations, local and international non governmental organizations, governmental organizations, and the private sector. Without the efforts and ideas from each of these participants, this document would not have been possible. We would like to recognize particular support received from:

- Communities of the Cabuyal River micro-watershed in Cauca Department, Colombia;
- Support organizations grouped in the Comité de Agroindustria Rural de Consorcio Inter institucional para una Agricultura Sostenible en Laderas (CIPASLA);
- Communities of the municipalities of Yorito and Sulaco, Yoro Department, Honduras;
- Comité de Microempresa de Comité Local para el Desarrollo Sostenible de la Cuenca del río Tascalapa (CLODEST).
- Members of the Corporación para el Desarrollo Sostenible de Ucayalí (CODESU) of Pucallpa, Peru.
- CARE Nicaragua and in particular the RENACER and FAROL projects located in Estelí and Matagalpa respectively.
- CRS Eastern Africa, and their support to the learning alliance development process in Eastern Africa.
- ASARECA and its support to agro-enterprise activities through the regional marketing and agro-enterprise network FOODNET
- PABRA and its support to agro-enterprise development in Eastern and Southern Africa through the Enabling Rural Development project.
- DFID in support of the Agro-enterprise project in Latin America and Africa
- SDC support to the agro-enterprise project in Vietnam and Laos

This text attempts to document and share the work of these pioneers so that other rural communities can apply and adapt to their needs what has been learned, and thus contribute to improving their livelihoods.

The authors wish to acknowledge the generous support provided by the MINGA Program of the International Development Research Centre (IDRC) of Canada which permitted the development of field activities, and the elaboration of this guide. The support of many CIAT colleagues have served in a similar fashion, as have the queries of students in the First and Second International Courses, “Linking small-scale rural producers to market chains: Design of strategies to increase competitiveness,” offered jointly with the Center for Competitiveness of Eco-Enterprises of the Centro Agronómico Tropical de Investigación y Enseñanza (CATIE), of Costa Rica.

Finally, we would like to acknowledge the constant support of our families and their understanding of our frequent absences. Any errors and omissions are the responsibility of the authors.

The authors,
August 2004
Forward

This manual is the third in a series designed to support agencies implementing a territorial approach to rural business development. The manual series currently includes:

1. A guide to developing partnerships and territorial characterization
2. A guide to identifying market opportunities for smallholder producers and processors
3. Strategies to improve the competitiveness of market chains for smallholder producers
4. Collective marketing for small-scale producers

These manuals are designed for use by service providers in assisting farmers group’s and local actors within a community / territory to develop skills in agro-enterprise development. The service provider should use this manual as a guide and adapt the process to the local situations based on available resources and anticipated scale of implementation. The service provider should read this manual in its entirety to absorb the ideas and concepts prior to going to the field. Our experience has shown that participatory processes should not be implemented according in a mechanical manner; rather the content of this manual needs to be interpreted and adapted to local conditions set by the marketing environment and social dynamics, if the process is to be successful.

The starting place for this manual is a detailed analysis of a selected market chain followed by an analysis of the critical points that need to be addressed when designing an agro-enterprise support strategy for the chain. In some cases, when a service provider has already decided upon a product or commodity to integrate into an agro-enterprise approach, this guide maybe also be considered as the starting point in the agro-enterprise approach. This is the case when a service provider, agro-enterprise team, or other agency has already undertaken some form of marketing evaluation to select a particular commodity, product or service to develop into a business.

For those actors who are following the full CIAT process, this manual will be the third step in the process. At this point you will have completed the following tasks:

From the work in Manual 1 you will have:
1. Selected a territory
2. Undertaken a biophysical and socio-economic analysis of your territory
3. Defined the rules of engagement and developed a vision for your community
4. Identified partners who will constitute the agro-enterprise working group
5. Identified farmer organizations interested in adopting an agro-enterprise approach

From the work in Manual 2 you will have:
1. Undertaken a market opportunities identification survey
2. Produced a long list of options that are or could be produced in your territory
3. Used selection criteria to develop a short list
4. Undertaken a production, financial and market evaluation of the short listed products
5. Discussed feasible options with farmer groups and selected a basket of possible options.

From the foregoing, it is anticipated that at this stage, the reader will have a set of 1, 2 or 3 product options that will enter a more detailed evaluation phase. For service providers with
considerable experience more options maybe considered, but it is recommended that first time
users of this methodology test the process with one option.

This manual, the third in the series, is divided into 10 modules. Each module is designed with
the aim of explaining the reasons behind the methodology and steps that may prove useful in the
field. The modules in this manual include:-

Module 1  Territorial Approach for Rural Enterprise Development
Module 2  Market chain Approach: Basic Concepts
Module 3  Basic Principles of a Strategy to Increase Competitiveness
Module 4  Selecting a Market chain
Module 5  Market Information and Contacts
Module 6  Identification of Actors in the Market chain
Module 7  Analysis of the Market chain with the Actors
Module 8  Analysis of Critical Points
Module 9  Negotiation and Design of the Strategy to Increase Competitiveness
Module 10 Monitoring the Strategies to Increase Competitiveness: General Guidelines

To facilitate better understanding and assimilation, each module is structured in the following
fashion:

- **Guiding questions** that introduce the themes and ask the reader to reflect on their experience;
- **Conceptual support** relating to the themes introduced;
- **Appropriate tools** to facilitate participative processes of planning, analysis, and design of
strategies to increase competitiveness with smallholders and the other enterprise actors in the
market chain;
- **Practical examples** of experiences with this methodology in Latin America related with the
theme of the module; and
- **A review** at the end of the module that restates the main ideas.
Module 1
Territorial Approach for Rural Enterprise Development

Guiding questions
1. Why is being competitive in the market place more important today than 20 years ago?
2. Why have rural development approaches oriented towards agricultural productivity failed to improve rural family income?
3. What are the elements of a territorial approach for rural enterprise development?
4. Who are the local actors that participate in this approach?
5. Why is the formation of a local group for inter-institutional work important for facilitating processes of rural enterprise development?
6. Why is diversification a useful option for small-scale farmers

For time immemorial farmers have made decisions on what they should grow and at harvest time what they should keep for home consumption and what they are able to sell at the marketplace. In former times sales would have centered on local markets and it would have been rare for a farmer to venture far afield in search of new market opportunities or to consider developing new, higher value products. This traditional form of agriculture starts to change as communities and nations begin to modernize. Through processes of urbanization generally fostered by industrialization demand for food from urban dwellers becomes dependent upon ever more sophisticated arrangement of actors involved with aggregation of farm produce, transportation, storage, wholesaling, processing, and retailing. As cities expand, food supply systems develop into increasingly longer market chains with clear divisions according to product type and market segmentation.

This marketing system generally works well unless there are shocks, such as severe weather, major disease outbreaks or civil unrest which upset market supplies. In the case of agricultural markets, problems can also occur due to the seasonal effects and the lag time between farmers observing a price trends or opportunity and being able to respond after making decisions to plant, grow and harvest a specific crop or rear animals. Consequently major swings in the supply and demand of agricultural goods can also be caused by effects of the boom to bust scenarios. An example is as follows: in one year the price of product A is unusually high, this causes many farmers to plant that product. A market may build up momentum over several years until farmers produce excessive amounts of product A and prices fall to base level prices, often below production costs. Faced with low prices and or loss of income, farmers respond by shifting into alternative products. The effect of a mass shift in production can be that consumers in the following year are left with a severe lack of supply of a particular product and prices once again swing upwards. If the particular commodity happens to be the major staple of a country, undersupply can lead to food shortages and general misery.

In an attempt to avoid food shortages and to reduce price volatility within the agricultural marketplace, Governments in many countries have taken it upon themselves to regulate the market, setting up support
measures such as floor prices and quotas for specific commodities in an attempt to better match demand with supply.

In the post second world war era, many countries in both the developed and developing world managed systems to support and subsidize agricultural production. During this time governments set prices, assisted with co-operatives and also invested in public storage and transport systems. This era of Government support was good for farmers, as the Government shared risk and farmers were able to plan production based on a known buyer’s price. Unfortunately for farmers many of these Government agencies and commodity boards were unable to adapt to changing times, became weighed down by poor management and often this led to uneconomic internal price structures. Over time, farmers were unable to compete with the international markets and maintaining high domestic support prices led to massive internal debts for countries unable to pay the bankers. In some countries debts was coupled with poor food distribution systems, leading to food shortages in some parts of the country and excess supply in others. When the internal debts could no longer be paid, the International Monetary Fund (IMF) and World Bank were required to re-negotiate loans with many developing countries had to adopt reform processes known as the Structural Adjustment Programmes (SAPs).

The reform programs meant that Governments withdrew from agricultural markets and in the last 20 years, markets in most developing countries are increasingly liberalized meaning that prices no longer controlled by Governments but are subject to the laws of supply and demand. The role of Government is reduced to regulation while the operations of the market are left to the devices of many individuals, companies and associations that make up the private sector. For many small-scale farmers, their position has changed over the past 40 years from being a free local agent, to a virtual Government contractor to an agent that has to compete not only with neighbors, but also with neighboring countries and with countries across the globe. Farmers regardless of size must assume the full risk of doing business in this new trading environment often competing against farmers who receive subsidies.

A large percentage of the rural population in the developing world therefore finds itself facing a crossroads, on the one hand, traditional products are steadily losing value in a rapidly globalizing market, and on the other hand, their natural resource base is being eroded due to pressures that place today’s food and income ahead of care for tomorrow’s resources. As a result, many families face an increasingly difficult future in agriculture and increasing numbers of people are abandoning the countryside in search of alternative options in cities and even abroad, without achieving or being able to contribute towards dignified livelihoods for their family members.

Confronting this reality are Governments, donors and development organizations that aim to support rural development projects with an increasing focus on raising incomes. Unfortunately, many development projects and development practitioners only look at one part of the market chain, on-farm production, and therefore projects often have limited effectiveness on livelihood issues. A classic example of this approach is the project that, at great effort and expense, manages to significantly increase the productivity of small-scale producers. The increased production often leads to oversupply at the local marketplace causing downward pressure on prices. This leaves producers disillusioned and often with less income than before. This situation is derived from a limited understanding of markets, how market chains operate, and what opportunities there are for smallholders to add value to their primary products.

1.2 Food security versus income security

A focus on production is often justified by the concept that smallholder producers should focus their efforts on having sufficient food to provide for the family first and thereafter base their marketing strategies on surplus production. The ability of a community to avoid famine is clearly a sensible approach and food security is a basic tenet in the development pathway. Unfortunately, the food security approach has tended to dominate agricultural interventions for the past 30-40 years, meaning that development projects, regardless of market access issues, have remained focused on increasing production of low value, staple food rather than taking on a broader concept of economic security, which takes advantage of a more diversified approach to farm incomes based on local opportunities, local assets
and the competitive advantages of the community in which the project is located. Major development projects are all too often based on macro economic analyses that attempt to achieve growth through improving traditional food security cropping systems and by doing so subject many thousands of communities to a limited economic outlook, based on a national perspective. In this scenario, countries that are maize based work on maize production, countries that are rice based produce more rice. The first result of food security is achieved, but the communities are often unable to gain the skills to take on the second step of finding and developing other supplementary income streams.

An alternative “market driven” approach, as outlined in this series of manuals, aims to enable rural communities to enhance their agricultural business skills and move beyond a food security mentality. Taking on this more “economic approach”, means that farmers need to be more organized, which in turn requires that service providers, assist local communities to plan and cooperate such that set up processes to market and sell goods and services that will provide their families with additional funds to support their food security and livelihood developmental needs and aspirations.

The approach begins with participatory processes involving community or territorial actors; the conceptual thinking starts from the market place but planning is done with a clear understanding of the needs and desires of the rural families. Working with a specific community, the service provider can build a clear understanding of the local marketing conditions and how best to work with a farmers group to resolve critical points in a particular market chain. Developing this knowledge alongside the farmers group, i.e., the business partner, is a key element in developing a sustainable and competitive agro-enterprise. Before investing in a sector the service provider and farmer group should also, try to evaluate the likely affects that changes such as (i) increasing productivity, (ii) improving quality and (iii) increasing volume of sale will have on their target market or markets. Our view is that projects designed with adequate market information can improve the sustainability of development efforts and that increased incomes are essential if rural producers are to complement the resources and provided by development actors.

Most importantly, by taking on this approach, the end point in the development process changes from a short term physical goal, i.e. increasing the amount of maize that is produced by a farm family, to a longer term social goal in which people learn skills that will enable them to adapt continually in a changing environment.

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1 Service provider in this context refers to the agency or group of actors that take on the mandate or role of co-ordinating a development project or interventions to support a community. The service provider could also be referred to as the “change agent”.
1.3 **Territorial approach for Rural Enterprise Development**

To address these issues the International Center for Tropical Agriculture (CIAT, the Spanish acronym), through its Rural Agro-enterprise Development Project (RAeD) and local partners in Latin America, Africa and most recently in S. E. Asia, have developed methodologies that aim to respond to the needs of rural development organizations in the field of Rural Agro-enterprise Development. The overall process is entitled a territorial approach for Rural Agro-enterprise Development, and comprises four interconnected methodological steps that seek to improve local capacities. Within each element, there are sub-steps that guide the service provider and community towards agro-enterprise selection and market engagement: The four elements of the process include:

1. **Territorial selection and partner evaluation**
   - (i) Selection of territory,
   - (ii) Bio-physical and socio-economic diagnostic of territory,
   - (iii) Development of agro-enterprise interest group,
   - (iv) Joint planning of action amongst partners

2. **Market opportunities identification**
   - (i) Identification and evaluation of market opportunities,
   - (ii) Evaluation of non traditional farm activities that could offer employment opportunities,
   - (iii) Identification of a basket of opportunities that respond to market demand, can be produced under existing biophysical conditions and are of interest to local producers.

3. **Enterprise design and implementation**
   - (i) A detailed participatory market chain analysis,
   - (ii) Evaluation of critical points in the market chain,
   - (iii) Design of an enterprise project,
   - (iv) Implementation of new enterprises

4. **Strengthening of business support services**
   - (i) Evaluation of local support services,
   - (ii) Analysis of critical gaps,
   - (iii) Development of plans to strengthen key services to support ongoing enterprises.

For schematic see (Figure 1).

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Each of these elements is approached through a series of participatory methods that address issues of diagnosis, organization, planning, action-research, learning and socializing information. These steps serve to generate, systematize, and share information/knowledge with the aim of building agreements for action, and in turn to increase the probabilities of their success. Table 1 shows a general timeline to complete the four stages, these timelines are guides and implementing agencies need to negotiate with their partners on actual investments in time and other resources as their funds and availability allow.

At the end of this four-stage process, participants will have established an Agro-enterprise development team composed of various organizations and local actors with skills and capacity to:

a) identify competitive market opportunities for the territory based on the needs of diverse populations and or ecosystems;

b) analyze market chains and propose concrete actions in research and development to increase their competitiveness; and design agro-enterprise activities in which target farmers can invest,

c) coordinate supply and demand for specific business development services, and facilitate markets for business development services on a continual and dynamic basis.

Although the methodology for the territorial agro-enterprise development has been presented as a linear set of events with fixed contents and times, the process should not be considered a recipe. Each process of rural enterprise development will be different, based on the conditions of the territory where the approach is implemented, the capacities and interest of the participants, and the needs that emerge from this interface.

The methodology should be viewed as a set of principles and skills that are developed through community action in a flexible and interactive manner. The service providers should take care to encourage local adaptation and innovation. The service providers should also take time for periodic evaluation of the process according to the needs of the community taking into account their experiences and context. It is important to document and systematize local experiences so that information can be socialized and shared with others, and thus lead to the identification of general rules and lessons learned that enrich and improve the approach as well as the specific methods.
Table 1. Planning, organization, and action: key times for rural agro-enterprise development (RAED).

<table>
<thead>
<tr>
<th>Planning and organization</th>
<th>Intermediate product(s)</th>
<th>Estimated time</th>
<th>Processes and actions to be established</th>
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<tr>
<td>Diagnosis of Territory</td>
<td>Establishment of agro-enterprise working group</td>
<td>2 to 3 months</td>
<td>Consensus on what to do, and how and when to do it.</td>
</tr>
<tr>
<td>Formation of RAeD work team</td>
<td>Development of partnerships for implementation</td>
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<td>Agreement and coordination of actions among actors</td>
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<td></td>
<td>Territorial diagnostic</td>
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<td></td>
<td>Action plan (visioning)</td>
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<td></td>
<td>System of monitoring, evaluation, and learning</td>
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<tr>
<td>Identification of market opportunities</td>
<td>Rapid market study (local, regional, and/or national)</td>
<td>3 to 4 months</td>
<td>Establish relations with actors in the markets</td>
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<tr>
<td></td>
<td>Characterization of market options</td>
<td></td>
<td>Generation, analysis, and diffusion of market information</td>
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<td></td>
<td>Participative selection of market options</td>
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</tr>
<tr>
<td>Participative analysis of market chains</td>
<td>A strategy to increase competitiveness designed for each prioritized market chain</td>
<td>3 to 4 months per market chain</td>
<td>Implement research and development actions of the strategy to increase the market chain’s competitiveness and income of its actors</td>
</tr>
<tr>
<td>Implement the agro-enterprise option</td>
<td>At this stage the agro-enterprise team invest and establish their agro-enterprise</td>
<td>Typically enterprises works around a specific crop / animal cycle</td>
<td>This stage is when design is turned to action and evaluation</td>
</tr>
<tr>
<td>Identification of supply, demand, and gaps in the local business development services</td>
<td>Diagnostic of supply, demand, and gaps in enterprise development services in the territory</td>
<td>3 to 4 months</td>
<td>Improve rural enterprise development services existing in the territory</td>
</tr>
<tr>
<td></td>
<td>Design of strategies to strengthen the markets for enterprise development services in the territory</td>
<td></td>
<td>Establish new rural enterprise development services requested in the territory</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Links with external actors that can offer the services requested in the territory</td>
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</table>

1.4 Agro-enterprise as a catalyst for enabling rural innovation

Although there is a growing consensus that agro-enterprise development is a robust process that offers small farm families in Africa, Latin America and South Asia the best ladder out of poverty, there are a number of challenges that must be met in order to make this happen. These include:

1. Enable small farmers to diversify their outputs so that their efforts can benefit from high value market opportunities as well support low value staple food systems and thus take advantage of market opportunities profitably.

2. Provide methods so that the many millions of small-scale farmers can benefit from economies of scale where it is appropriate through collective action processes that are locally owned.

3. Build the capacity of development actors within a defined project territory to support agro-enterprise and facilitate farmers gain access to local business support services.

4. Transform research from generators of new knowledge and technologies to service providers for enterprise customers – government, NGOs, private sector and farmer organizations.
Smallholder farm families in developing countries are faced with the ever-increasing imperative to incorporate themselves into the market economy in order to generate cash income that will allow them to meet their basic needs, and thereby improve their livelihood. These farm families have been accustomed primarily to producing basic food staples for their own subsistence, with a little surplus to buy essential commodities such as clothes, sugar, salt and cooking oil. Many of the products that are produced by small-scale farmers are of low value and even the so-called “cash crops” have experienced severe price declines in their real terms over the past two decades. The increasingly harsh or competitive marketing reality within the agricultural sector is the result of the trade liberalization process, globalization, improved production efficiency of medium to large-scale producers and oversupply of the major commodity markets, such as coffee, cotton, palm oil and rubber onto the world markets.

Among the options that smallholders have for confronting this situation are:

- By adding value to and/or achieving economies of scale through collective action for both production and marketing of their traditional crops and livestock products.
- Diversification, by incorporating into their production system into higher value crops or livestock that have an identified market demand.
- Improving the competitiveness of their staple food production and achieving economies of scale through collective action for both production and marketing.

Farmers, traders and processors along a “value chain” can add value to farm products by adopting changes in production, handling and processing practices that take advantage of higher income marketing windows. This can include simple techniques such the use of improved seed, growing a single type of seed, grading products at harvest, and bulking products. Or, they can diversify their production to meet the demand for higher value crops to take advantage of the rapidly changes in consumer habits, with more sophisticated marketing options such as organic and fair-trade markets.

In order to take advantage of these potential options, however, new activities must be competitive, environmentally sustainable and equitable in the distribution of benefits. To achieve desired levels of competitiveness, farmers and their service providers need to incorporate the following elements:

- A market orientation producing the right product for the right buyer at the right time and price;
- The establishment of production systems that makes efficient use of existing financial, human and natural resources;
- The incorporation of necessary post-harvest handling and processing techniques;
- Appropriate business and marketing skills and organizational schemes which lead to economies of scale by reducing costs and increasing marketable volumes of produce, and
- Improved links among market chain actors and flows of both market based information and new production technologies.

1.5 Health Warnings:

The rural agro-enterprise approach requires considerable time and commitment for designing and implementing a market chain strategy. Therefore we recommend only doing this when the market opportunity merits this investment and there is a strong possibility of increasing sales and incomes of various actors.

Our experience has shown that trying to organize a competitive strategy around a market chain with low value or minimum possibilities of added value is more difficult than around a market chain with good potential for access to increased income. In the case of new or promising market chains, care must be taken in analyzing and understanding existing market opportunities so as not to generate false expectations.

If this process is to be applied to low value, inelastic commodities, the market chain strategy should consider the need for large numbers of participants if the level of impact is to be worth the investment.
Module 2
Market chains and service providers
Basic Concepts

Guiding questions
1. What is needed to achieve effective and lasting rural poverty reduction?
2. What elements characterize the rural situation in your community?
3. What is the difference between “comparative advantage” and “competitive advantage”?
4. What is a market chain or sub-sector approach, and what are its advantages and disadvantages?
5. What other elements need to be included in a market chain approach and why?
6. How is a strategy to increase competitiveness defined, what is it for, and how is it executed?
7. What is the difference between a market chain and a value chain or value net?
8. What differences are there between the efficiency of an individual enterprise and the efficiency of a market chain as a system?

2.1 Introduction

A market chain is used to describe the numerous links that connect all the actors and transactions involved in the movement of agricultural goods from the farm to the consumer, Figure 2. Supporting these activities are services that enable the chain to operate. Agricultural goods and products flow up the chain and money flows down the chain. The efficiency of the market chain is generally a factor of how well information flows between these actors. This module will describe the basic concepts of a market chain, why it is important and how we can use this information to assist linking farmers to markets.

Traditionally, agricultural support programs have focused their investment at the production end of the market chain, at the farmer’s level, the aim being to increase production in order to create sufficient levels of surplus to sell at the marketplace. Increasing production has been achieved through input supply programs supported by production based research, and agronomic assistance, the typical package being a combination of new high yielding varieties, fertilizers and pesticides. This type of intervention leads to increased output, measured in terms of yield per unit area cultivated. For food insecure areas this approach has been highly successful in improving the supply of basic agricultural products and food security is an essential first step in avoiding absolute poverty.

However, getting the balance right between demand and supply in the marketplace takes more than a production focus. All too often, markets are unable to absorb rapid increases in yield from higher input farming systems and thus higher production is often translated into reduced farm gate prices. At a local level, sudden increases in production can swiftly oversupply the consumption needs of a community, causing a collapse in local prices.

Figure 2 Market Chain and its Business Support Services
Over the past 40-50 years agricultural research has contributed to major increases in production levels for both developed and developing countries and these important gains have not only been able to keep pace with a rapidly growing global population, the gains have also “reduced” the cost of basic food items, particularly for urban populations. Unfortunately, for the many millions of farmers in most developing countries these increases in production capacity have not generated sustainable improvements in the income of rural populations, nor have they contributed to reduced levels of rural poverty. Thailand for example has moved from a rice-importing nation 20 years ago, to the number 1 rice-exporting nation, however, rural poverty remains chronic.

Over the last 100 years, the prices of the major traded “commodities” including rice, maize, sugar, coffee, cocoa and tea have all been in steady decline, Figure 3. In the past 10 years, oversupply of the global markets and weakening demand due to the economic recession has led to commodity prices falling to a 40 year low and analysts suggest that commodity prices are likely to remain at these low levels for the foreseeable future. This bleak outlook is reflected in the dramatically falling terms of trade for many developing countries and suggests a profound downturn in their economic outlook and performance.

**Figure 3. Secular decline in commodity prices over the past 100 years.**

One of the major forces currently contributing to the problem of oversupply and downward trend in commodity prices is the process of “globalization”. Globalization is the term used to describe the recent impact of innovations in communications and transport systems on trade and the increasing integration of world markets. This process has encouraged nations to liberalize or open their economies with the aim of
increasing their volumes of trade, including the international trade of agricultural products. This means that farmers across the world are now not only competing with their neighbors or their neighboring countries for access to markets but are competing with farmers across the world.

The recent shift away from national trade protection towards a free trade environment means that farmers need to alter their strategies from a “productivity” to a “competitive” approach. To achieve this new state of competitiveness, farming businesses need to be better organized at both the enterprise and market chain levels. For farmers in developing countries, this means a radical shift from a strategy that relies upon so called “comparative advantages” such as those gained by virtue of natural resources, cheap labor, state subsidies, and lightly processed products, that are easily duplicated by other zones or countries, towards a strategy of competitive advantage. This means that farmers within an enterprise need to understand how their markets operate, how their enterprise is positioned within a market chain and how that market chain can be organized to make it function more efficiently.

To achieve a competitive advantage in the market place requires knowledge, hard work and building trust among market chain actors. To be successful, farmers and their service providers need to take a pro-active approach in positioning their products and their business in the marketplace. Increasing sales in this paradigm is not based on where you live but on meeting changing demands from consumers and taking advantage of market trends and new food safety regulations at a price that the consumer finds attractive. To claim and maintain a competitive advantage therefore requires that an enterprise has a sound business plan and that business decisions are based on dynamic information, such as consumer needs and market trends. This requires that an enterprise is managed with due attention to new market opportunities, changing needs of the consumer and how market trends influences buying.

Competitive advantage is therefore a challenging prospect that is information hungry. To understand the dynamics of the marketplace enterprises require access to market information, should develop network to bring in market intelligence and when opportunities arise need to be able to access information on how to manufacture new, more complex, value added products as they emerge on the marketplace. Over time, as enterprises become more established, they also need to find better ways to organize their links to other actors in the market chain, using their local knowledge and service providers to build trust and as required to generate alliances between specific market chain actors.

Understanding how an enterprise fits within a market chain allows the entrepreneur to make better decision on how to choose the best input supply products and partners to produce most efficiently. It will also assist the enterprise in finding better places and trustworthy buyers to sell their goods, to start to appreciate how their product flows down the market chain to the final consumer and to gain an understanding of what that person needs. Inputs, (input markets) typically include physical products such as seeds, irrigation, fertilizer, chemicals, plastic tunnel suppliers etc. but can also include information, financial support, local / international trade regulations. Outputs (output markets), includes the product that a farmer sells and who they sell to e.g. traders, transporters, processors and retailers who handle the product up to the point of final purchase by a consumer. These links within a market chain are sometimes referred to as backwards and forward links, as the entrepreneur views his or her links to the places and people involved in their input and output markets, Figure 4.
A major gap in previous development strategies has been the lack of emphasis on the provision of local business support services. It has generally been assumed that profitable business support services emerge as sectors develop or that a local authority will provide business support where it is needed but where markets are insufficiently developed to provide profitable niches for competitive services to develop. For most developing countries there is no evidence to substantiate these assumptions and for the most part rural businesses, particularly agricultural in developing countries receive virtually no support, either in terms of financial or non-financial services.

A non-exhaustive list of service provision is provided in Table 2. These functions are taken for granted in most developed countries and with this enabling environment, food production and distribution is highly efficient. In many developing countries less than 1% of the population is involved in the production and processing of food, compared with the common figures of between 70-90% in many developing countries.
### Table 2. Service providers that make up an enabling environment for agriculture

<table>
<thead>
<tr>
<th>Basic infrastructure</th>
<th>Production and storage support</th>
<th>Marketing and business support</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Roads and transportation</td>
<td>- Production input supply merchants</td>
<td>- Market structural services</td>
</tr>
<tr>
<td>- Communications</td>
<td>- Farm machinery manufacturers ad suppliers</td>
<td>- Market information services</td>
</tr>
<tr>
<td>- Rural energy distribution</td>
<td>- Extension services providing “Know how and innovation” to producers</td>
<td>- Market intelligence</td>
</tr>
<tr>
<td>- Water and Irrigation access and regulation</td>
<td>- Producer associations and co-operatives</td>
<td>- Chambers of commerce</td>
</tr>
<tr>
<td>- Products from Agricultural Research (genetic and production hardware plus information for efficient productivity)</td>
<td>- Weather forecasting</td>
<td>- Trader and Sector support groups</td>
</tr>
<tr>
<td></td>
<td>- Storage infrastructure</td>
<td>- Technical and business training services</td>
</tr>
<tr>
<td>Financial support</td>
<td>Policy reform, regulation, incentives and safety nets</td>
<td>- Local marketing centers</td>
</tr>
<tr>
<td>- Credit services</td>
<td>- Security</td>
<td>- Export promotion - trading houses</td>
</tr>
<tr>
<td>- Banking services, note and electronic</td>
<td>- Land tenure policy and taxation</td>
<td></td>
</tr>
<tr>
<td>- Crop / farm risk insurance schemes</td>
<td>- Government policy regulation for trading</td>
<td></td>
</tr>
<tr>
<td>- Trading exchanges</td>
<td>- Safety net functions, such as food aid, price support schemes</td>
<td></td>
</tr>
<tr>
<td>- Futures markets</td>
<td>- Investment grants</td>
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<tr>
<td></td>
<td>- Arbitration and reform councils based dialogue between private sector apex groups and Government select committees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Legal reforms and dispute settlement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Regional and international trade policy groups</td>
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</table>

In the 1970’s many of these essential support services to agriculture were provided by Government in developing countries and these intervention were until recently, relatively successful in developing and sustaining major export industries for commodities such as rice, milk, sugar and soybean, the more traditional exports such as bananas, jute, cotton and oil palm, and the beverage crops including coffee, cocoa and tea. The reasons for these crops not continuing to provide growing incomes for producers has been mentioned previously, but problems are associated with declining terms of trade of raw commodities, weakening demand and trade protection from importing countries, most of which are developed nations.

The records for internal support services to agriculture are country specific but in many developing countries have been less successful, particularly across Africa, where lack of prudent management has led to major domestic debt, an obsolete, non existent or disrupted internal infrastructure for irrigation, distribution and storage, virtually no rural financial support services and weak to unclear land tenure systems. The result of these gaps in the support services has meant that crop production is rain-fed and hence erratic, input support is focused on a tiny percentage of farmers and a general lack of competitiveness throughout the agricultural sector. In extreme cases overproduction leads to dumping of produce as sales prices fall well below production to famines where production is not nearly sufficient to meet consumer needs. So, far from having plans to develop more competitive market sectors, many countries do not have sufficiently well advanced services to provide even basic food security.

The failure on the part of Governments to provide effective support services to agriculture has opened a major gap for alternative publicly funded non Government organizations (NGOs) to provide local communities with access to “not for profit” goods and services. The major role of these organizations has been to build capacity in food security. It is clearly cheaper for developed nations to provide prophylactic support to produce food locally rather than the extremely expensive and highly distorting alternative of providing relief supplies. Whilst there continues to be debate about the future role of NGOs in agriculture and whether they should be empowered at the expensive of Government capacity there is also a major question about whether NGO’s should take on service support roles or be required as part of their mandate to build capacity in local service provision as well as production. Our contention is that NGOs need to take this step of their own volition.
If NGOs are ever to build sustainability and opportunities for income growth through local, national, regional and international markets they need to take a more business oriented approach to agriculture, they should work from a market led approach to any production investment and also that they should build enterprise sustainability through the strengthening of local, national and regional support services. Whilst this is a long-term endeavor, it is as important to build the ability of service providers, as it is to build the ability to produce for markets.

As the roles, capacity, competence and methods to evaluate the effectiveness of service providers is a major topic, it will not be dealt with in detail in this manual. This is the subject for an entire manual in this series. At this point in the process, it is suffice to note that the likelihood of success, and particularly the sustainable of any enterprise, is highly dependent upon access to these services and therefore the roles of these players need to be taken seriously when developing an enterprise. If critical service provision, particularly technical, is not available in your area to support a promising enterprise option, this significantly raises the risk of failure and alternative options should be considered as being more viable.

2.3 Using market power to reduce rural poverty

Due to the effects of globalization, liberalization and increasing competition in agricultural markets, it is apparent that strategies aiming to reduce rural poverty in developing countries need to move beyond a focus on productivity to include the many other aspects involved in being part of a competitive marketing chain. Service providers implementing agricultural support projects therefore need to incorporate themes such as demand, market opportunities, profitability and competitiveness into their working agenda. Gaining a better understanding of demand and profitability is crucial if farmers are to avoid the problems of all trying to supply the same markets, with little attention to quality, as this will only lead to a poverty treadmill of producing more for lower prices.

To engage in the marketplace effectively, farmers need to develop new skills and have support from service providers who have a far better understanding of the marketplace, whether this is at the local, national or international level. The market knowledge should be related to the needs of the target beneficiary group and take into account both comparative and competitive advantages. Basing poverty reduction approaches on increasing production has shown itself to be only partially effective. Farmers cannot longer simply expect to be offered a reasonable price for increased supply of goods; it is also a precarious strategy to believe that one can produce at ever-lower prices. The plight of the coffee farmers around the world shows that when supply consistently outstrips demand by only 3-4 %, that prices do not fall by 3-4%; they can fall by more than 60%, i.e., to the lowest offer price. Farmers who continue to supply at these prices should not expect the marketplace to have sympathy, as other actors in the market chain will use their competitive advantage to exploit this lack of marketing know-how.

Farmers today therefore need to learn not only how to produce but first how to identify profitable market opportunities, how to adapt and improve their produce and to work with others in a market chain to meet the increasing demands of the ever more globalized consumer. This new breed of consumer is seeking more choice, better quality, consistent year-round supply, greater assurance of safe production methods and as markets mature, is seeking all of these factors at lower prices. Understanding profitability, competitiveness and being attuned to changing market signals helps in making business decisions. The promotion of a rural sector capable of managing and maintaining connections with more diversified and growing markets is presented here as an alternative strategy for rural development.

In conclusion, agrifood systems are in a phase of rapid change with moves towards greater business association of actors along market chains (vertical integration) with the objective of guaranteed quality, continuous supply, and more competitive prices for consumers.
2.4 Situation Analysis

2.4.1 Client profiling

Developing marketing strategies for a client group should start with a profile of their abilities, opportunities, assets and challenges. The challenges often seem somewhat overwhelming, particularly for service providers working in areas affected by major shocks such as drought, floods, conflict. In addition, many rural areas are also dominated or complicated by problems associated with ethnic problems, language differences, illicit crop production and most are affected by poor infrastructure and weak services. However, despite all of these problems, markets operate and it is that robustness of the marketing system and its associated actors that needs to be built upon.

The analysis conducted in Manual 1 of this series should provide you with this type of information. However, to recap, the types of information you need to know at this point is based around the following questions (i) who are you working with?, (ii) what do they already produce?, (iii) what are the major demands in the market place?, (iv) could you produce alternative products that are in demand in the selected market or markets?, (v) what level of risk are your clients able to adopt?, (vi) do local service providers have the skills to support promising enterprise options?

Issues of crop diversification have different implications for different kinds of farm families and options for enterprise development are generally related to key aspects including: (i) market access, (ii) asset base, and (iii) current level of commercialization.

To differentiate among farm families we can use the following descriptors, based on a recent evaluation of rural producer groups, these include:

**Rural 1: “Globally competitive”**
- Part of consolidated market chains – high levels of collaboration (vertical integration) with processors and retailers.

**Rural 2: “Shrinking middle”**
- Local orientation, generally supplying national markets, includes landowners, residual suppliers to wholesale or bulk commodity markets.
- This group is generally under capitalized, currently suffering from declining terms of trade.\(^3\)

**Rural 3: “Fragile livelihoods”**
- Limited access to productive resources.
- Multi-occupational migrants straddling rural and urban residencies.
- Unskilled and uneducated, dependent upon low-waged, casual family labor.
- Generally not involved in global food and fiber production.

Many of the farm families that service providers work with in the developing world are a combination of rural world 2 and rural world 3. For the Rural world 3 farm families, taking on more diverse market options can reduce overall risk and provide these farmers with new the option of incorporating higher value crops and hence providing them with a ladder out of poverty. However, this will only occur if we can integrate sufficient knowledge and skills for the farming community to be able to compete within a dynamic marketplace.

2.4.2 Farmer perspectives and marketing capacity:

1. *Focus on production and sales, but not marketing.* Rural world 3 producers tend to focus on production and although they know where sell their products; they generally do not have a strategy in how to market their goods. Taking a marketing approach seeks to find ways of enabling the client to

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\(^3\) Declining terms of trade, relates to the changes in relative value of specific products in the marketplace over time. For many developing countries, producers of raw commodities face declining incomes as prices for a given unit of product falls on the world market compared to increasing prices received by producers of other goods. An example of relative prices changes: farmers in developing countries sell coffee into the world market but face a steadily falling buyers price, whereas producers of Mercedes Benz cars, sell their goods at increasing prices over time. Therefore over time due to the declining relative price of coffee, the coffee producer must continually sell more coffee to be able to buy the same car.
have a competitive advantage at the point of sale by improving quality, product differentiation\(^4\), market segmentation\(^5\), and development of specific client niches.

2. **Inefficient market chains.** The links in the market chain (production, post harvest management, marketing, and business development services) are disjointed, generating an inefficient flow of information along the market chain. Lack of marketing information along the market chain can enable some actors to exploit other market chain actors unfairly. This type of exploitation is usually marked by excessive profit being extracted by a particular market chain actor at one point in the market chain. This excessive extraction of profit generates systematic inefficiencies along the market chain.

3. **Weak and incipient managerial capacity.** Many rural organizations are weak in terms of their managerial skills. They have limited capacity to identify and analyze critical points in their market chains; they do not fully appreciate the gains to be made by building relationships with others a market chain and are often unable to find strategies or actions to improve their business opportunities.

4. **Individual rather than collective competitiveness.** Given the uncertainty that characterizes many rural areas, it is not unexpected to find that individuals seek short-term solutions based only on their needs as opposed to developing initiatives that promote competitiveness for a number of actors within a market chain in the medium or long term. As a result, low levels of trust, self-interest and a limited capacity to assume strategic initiatives as a market chain often characterize relations between actors.

2.4.3 **Weak business development services.**

One of the major problems in poor rural areas is the lack of business development services to support new initiatives in the agricultural sector. In the past most service providers have focused on a single link in the market chain, production. Furthermore, these activities often reach producers in a poorly coordinated form, which results in the duplication of efforts in some areas and gaps in others. As a result, support received by the market chains in the agricultural sector is not sufficiently effective to increase competitiveness and provide growth in rural areas.

\(4\) Product differentiation- the act of taking a single product and using product development methods to make different types of product from an original, e.g. take a standard product such as a 50 kg of unsorted, unwashed potatoes and change this is into (i) sorted washed potatoes, (ii) add value by sorting and packaging into 10kg, 5kg bags of potatoes according to use - baking potato, chipping potato, boiling potato, add processing value by changing potatoes into precooked frozen chips, crisps, starch for soups, etc..

\(5\) Market segmentation; Generally related to dividing consumers into sales groups to target a specific product, i.e. products which target children, families, rich people, middle income groups etc.
Module 3
Basic steps in developing a competitive Market Chain Strategy

3.1 Design of a strategy to increase market chain competitiveness

Guiding questions
1. What are the basic steps in developing a competitive market chain strategy?
2. What are the key functions of a market chain?
3. Who are involved in a market chain?
4. Who should be involved in a visioning process for a market chain study?
5. What is a market chain or sub-sector approach, and what are its advantages and disadvantages?
6. What other elements need to be included in a market chain analysis, and why?
7. How is a strategy to increase competitiveness defined, what is it for, and how is it executed?
8. What is the difference between a market chain, a supply chain, a value chain or value net?
9. What differences are there between the efficiency of an individual enterprise and the efficiency of a market chain as a system?
10. What implications does geographic scale have for the design, financing, and execution of a strategy to increase competitiveness?

The main stages in developing a strategy to increase the competitiveness of a market chain involve a series of sequential steps shown in Figure 5. If you have been following the agro-enterprise manuals in order, the information required for Steps 1 and 2 will have been gathered previously. The next stage in the process is therefore to map your chain and identify key informants or contacts in the selected market chain.

Steps in designing a strategy for increasing market chain competitiveness
1. Collating information on market opportunities and socio-economic assets of the territory and target beneficiary group.
2. Selection of a market chain
3. Identifying contacts including the different actors and interest groups that should form part of the analysis.
4. Map the market chain with participation from representatives from the chain
5. Evaluate the level of business organization along the market chain
6. Review the services available to support the selected market chain
7. Catalogue past interventions in the territory with particular attention to those which impact upon the selected chain and chain actors
8. Analyze critical points for the development of the market chain
9. Develop a long-term strategic vision is prepared based on market prospects and possibilities for product and process innovation.
10. Around this vision, design a set of strategies to resolve the critical points, taking advantage of opportunities that contribute to an increased level of competitiveness for the market chain and its actors.

**Figure 5. Stages in the design of a strategy to increase competitiveness.**

![Stages in the design of a strategy to increase competitiveness](image)

3.2 Vision of the market chain

Given the many challenges of the marketplace, we suggest that a practical starting point in developing a marketing strategy is to assist chain actors to visualize their market chain from beginning to end. The market chain should start at the point the actors know best; in the case of farmers, the activities on farm and the production of basic goods. The process should then work backwards to document the provision of inputs, before working forwards to document where produce is sold. At each point in the process, names of the people who sell input goods and buyers who purchase their goods should be recorded. The next step in this visioning process should be for the group to work through the other aspects of how their products move from the initial buyer to a final consumer. The visioning process needs to include all the stages of production, post harvest management, processing, selling up to retailing. The three main components of a marketing chain with their links and their functions is shown in Figure 6. It may help for the group to work through these different aspects and join them together so that time and or groups can be developed effectively.

**Figure 6. Components of a market chain.**

![Components of a market chain](image)

Use of the market chain approach has several advantages:
1. It permits a more complete vision of the market chain and the roles that different actors play within a business framework.

2. Dividing the chain into functions and actors provides a first level basis from which to see who performs which functions, their relative importance and this allows the producer group and service provider to being the process of understanding the management process.

3. Access to more complete information facilitates the identification of critical points impeding the development of a market chain, and where improved and or alternative interventions can be applied so that investment in a particular market chain can be most effective.

4. Visioning the market chain with multiple actors facilitates the formation of alliances and synergies between the different actors through the identification of common interests, reduction of transaction costs and a more efficient use of available resources.

This first impression of the market chain is a useful way of starting to appreciate where farming groups fit into a broader marketing context. However, this first look does not explicitly identify, three aspects that are key to understanding how a market chain operates, including (i) the degree of business development of participating organizations, (ii) the provision of business development services and (iii) the context in which the market chain operates.

A limitation of the traditional market chain approaches is that it tends to evaluate actors in isolation and does not take into account the business acumen of these players. A good understanding of the degree of business organization along a market chain and the actors that make up this business support process, will allow for the design of strategies that play to existing strengths of chain actors. Taking this into account when designing intervention strategies will be more representative of the marketing chain and offer the opportunity to build in a higher degree sustainability to the overall approach.

As has been mentioned previously, market chains operate most competitively when they are supported by dedicated business organizations, both formal and informal, which participate in enabling produce to flow from the farm gate to the final consumer. Traditional market chain analysis can overlook these organizations – both public and private – that provide business development services to the market chain. As in the case of business organization, it is important to understand the quality, coverage, and effectiveness of existing business development services to find possible ways of improving the functioning and competitiveness of a selected market chain. Understanding the relationship between business development services and the bottlenecks that limit market chain development is equally important. Often it is more helpful to identify necessary services that do not exist or do not effectively respond to market chain bottlenecks than to focus on the evaluation of existing services.

Finally, a general understanding of the context in which the market chain operates is critical. Specific issues include local and national policies, the climate for economic development, social issues, natural resource management concerns and the existing technology within a market chain.

In response to these gaps, we propose a wider view of the market chain that combines the initial definition, with the analysis of business organizations, the existing support system and key contextual issues.

3.3 A wider vision of the market chain

The wider view of a market chain includes not only the functional aspects of a market chain (production – post harvest – marketing), but also business organization, supporting services and economic framework in which the market chain operates, see Figure 7.
By taking this broader view, this methodology aims to fill gaps that have been identified in traditional market chain methods and by doing so contribute to the following principles which we believe are essential from the perspective of the poor rural producer. These principles include:

1. **Identifying chain actors and their roles**: Experience has shown that the success or failure of a market chain intervention depends principally on the partnerships that are built between actors and business organizations that participate in a particular chain. This method therefore requires that market chain actors are clearly identified and existing relations understood. This information enables the individuals involved in the design of an enterprise to develop strategies built on trust and recognition rather than only on balance sheets.

2. **Seeking equity in the market chain**: Thorough analysis of the market chain and developing strategies to increase competitiveness is not only a matter of maximizing profit, it should also take into account a fair distribution of gain along the market chain. As such the method seeks to identify interventions that generate a more equitable distribution of the benefits, and also ensures that rural smallholders, their families and their communities are involved in the decision making process. This aspect is crucial if the design of strategies is to achieve a major goal in poverty reduction through the provision of benefits for producers, i.e. those with least resources.

3. **Designing strategies**: The use of the term “strategy” permits the design and implementation of a series of complementary projects guided by common and clear, demand led objectives and an overall competitive vision for the marketing chain.

4. **Focus on competitiveness**: The methodology also aims to generate a consensus between the actors involved in the market chain with the view of facilitating better management of intervention resources by focusing investment on increasing the competitiveness of a market chain.

The Rural Agro-enterprise Development Project of CIAT has developed the following working definitions of competitive strategies.

What is a strategy to increase competitiveness?
A strategy to increase competitiveness is a set of activities that are planned and carried out with the active participation of a market chain’s diverse actors to achieve common objectives, around which one or more business organizations and/or interest groups are linked.
Promoting processes of change or “innovation” is crucial when attempting to increase competitiveness within market chains. Opportunities for innovation are diverse and can touch upon a few or many of the links in a market chain: including input supply, production, post harvest management, processing, marketing, business organization, and business development services. Ideally innovations raise the competitiveness for the market chain as a system and thus capture added value that can be shared by actors along the chain. More typically, innovations assist particular actors or groups of actors along the chain enabling them to capture additional value at any a point along the chain. The ability to capture added value at specific points is often referred to as a “rent”. The idea of gaining rents should not be confused with the highly negative connotation associated with the extraction of “excessive rents” that is often laid at the door of unscrupulous traders. Typically this type of exploitive behavior is symptomatic of highly inefficient market chains and the approach presented here aims to remove such impediments. As such the term rent is used in this context as a means of capturing value in a socially minded but commercial fashion.

The use of innovation is particularly important when attempting to differentiate a product in the market. The process of setting a product apart from the rest adds overall value by attracting consumers and then building product loyalty. Examples of this approach include the use of logos, branding or labels that distinguish one product from many similar types, or places emphasis on how a product was produced, such as organic, sustainable, or socially responsible, or via new presentations and new products. These strategies are where innovation can play a major role in gaining longer-term added value for a product in the face of competition.

Over the past decade, organic production has been developed as a means to gain higher market prices for small-scale producers. The logic behind this strategy was that, small-scale producers do not have the necessary funds to apply chemical fertilizers or pesticides to their crops, and thus can easily convert to organic production, and at the same time receive a premium prices for their products. In this case, the innovation to increase market chain competitiveness was organic certification. However, as illustrated in the case of organic cacao, an organic “certification” based on a minimal financial investment and no new knowledge does not confer long lasting market benefits as many producers can replicate the same “competitive advantage”. In economists’ terms, the “barrier to entry” for this market innovation was low and, thus, the innovation was easily replicable by others (see Box 1).
Box 1

*Organic cacao and sustainable advantages*

When the El Ceibo cooperative in Bolivia entered the market for organic cacao and fair trade cacao in 1992, it was one of the first to offer this product. Initially, the novelty of both products contributed to a supply shortage, and therefore much higher prices than those offered for traditional cacao. As other producers and their organizations found the same “innovation”, the excess rent decreased as shown in the table below.

<table>
<thead>
<tr>
<th>Year</th>
<th>Conventional cacao</th>
<th>Ecological cacao</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Free market (price in US$)</td>
<td>Fair trade (price increase %)</td>
</tr>
<tr>
<td>1992</td>
<td>950</td>
<td>121</td>
</tr>
<tr>
<td>1993</td>
<td>1110</td>
<td>64</td>
</tr>
<tr>
<td>1994</td>
<td>1330</td>
<td>39</td>
</tr>
<tr>
<td>1995</td>
<td>1570</td>
<td>18</td>
</tr>
<tr>
<td>1996</td>
<td>1440</td>
<td>22</td>
</tr>
</tbody>
</table>


Although the possibility of additional incomes remains, it is not at the same level as at the start of the innovation. Even when the initial additional income for the first innovators was good, these data show how an easily replicable competitive advantage loses its value over time. The expansion of ecological cacao supply for the fair trade market is also increasing, as shown in the following figure.

The combination of these two tendencies shows us that the competitive advantage conferred by the ecological certification and fair trade will tend to decline as more providers copy this strategy.

**Based on this experience with organic cacao, what lessons can we learn about innovation and competitive advantages?**

1. If an innovation is easily replicable by other producers, it tends to be quickly copied and thus loses the advantage and added gain.
2. Profitable innovations, no matter how complicated, are copied sooner or later and thus the initial rents will begin to descend.
3. This indicates that processes of market information and innovation should be continuous and require periodic inversions to maintain competitive advantages and added rents.

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Large multinational companies invest considerable time and money not only in improving their products, but also in generating a product brand that differentiates it from similar products. Branding is supported with large promotional budgets and if successful that can make certain products such as coca-cola, Kiwi fruit, Manchester United, “household” names. It is often the case that the existence of an easily identifiable brand or label translates into a more sustainable competitive advantage in the long term than innovations in systems of production, post harvest, and marketing.

Does the power of branding have implications for the processes of rural enterprise development that are being promoted nowadays? New approaches to market based interventions need to take this point into account if rural producers are to compete effectively in the future and the Fair Trade movement is one such strategy to take on the multi-nationals.

3.5 Market chain efficiency versus individual business efficiency

Strategies to increase competitiveness should be considered differently when comparing efficiency at the individual enterprise level, versus the efficiency of a market chain. There are many examples of market chains comprised of one or more highly efficient enterprises, but linked in an inefficient manner. In these cases, specific gains made by a firm could be lost through inefficient marketing channels. Given that most agro-enterprise activities are not carried out by a single enterprise, but by various interrelated actors, achieving a competitive market chain requires a focus along the chain. This focus requires establishing trust-based relations along the market chain. This challenges the service provider to facilitate a move beyond the conflictive competitive relations that operate in many market chains. When taking a market chain focus, there are no good or bad actors, but rather a system that seeks to be the most efficient possible so as to benefit its participants.

3.6 Raising competitiveness through market chain quality assurance

Another issue that is paramount in sustaining market performance is due attention to product quality. For many products that are traded internationally or through major international supermarkets, products will only be accepted if they meet strict food safety protocols such as HACCP7 and EUREP GAP8. These protocols are conducted throughout the market chain and therefore it is in the interests of all actors within a market chain to maintain these stringent quality procedures if they are to avoid losing income or have produce downgraded. For consumers this mark of quality gives them greater confidence in buying a product that has been approved by a market chain scheme. Measures such as HACCP, are requiring that actors along market chains work in a more coordinated manner and by doing so, gain greater market share.

EUROTRACE is another legislative approach being used by the European Union to track quality from point of sale back to point of production. Retailers use this quality-based process as part of market chain inventory process. EUROTRACE however offers another opportunity to differentiate a product on the market, as it provides an avenue to reduce the risk taken on by a buyer when purchasing from multiple sources across the globe.

3.7 Raising competitiveness through mark of origin

In France, the government has invested large sums of money in promoting the certification of origin for agricultural products. These certificates seek to link the product with its locale and manner of production in such a way that it is easily distinguishable from products having similar characteristics produced by industrial firms. An example of this type of mark or origin includes the exclusive drink of the rich, “Champagne”, an otherwise unremarkable sparkling white wine. According to the mark of origin procedure, the label “Champagne” can only be applied to wine produced from the region of Champagne, according to traditional methods. Similar wine produced and sold at a fraction of the price of real Champagne, is now labeled Methode de Champagne, to disassociate it from the original product. The French Government’s Institute of Denomination of Origin expects eventually to achieve coverage of 20%

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7 Hazard quality assurance at critical point
8 For more information see: http://www.eurep.org/
of French products sold. Currently, France sells US$18 thousand million products with a certificate of
denomination of origin. Similar approaches for Denomination of Origin are also being used for red
wines and in this same method is being applied to high quality coffee origins in many developing
countries, providing lucrative opportunities for a limited number of coffee producers.

3.8 Market / Supply chains versus Value chains

The terms production chain, supply chain, market chain and value chain are often used interchangeably,
but in fact there are some important differences. In its simplest definition, the terms production chain,
supply chain, market chain are synonyms used to describe all participants involved in an economic
activity which uses inputs and services to enable a product to be made and delivered to a final consumer.
A value chain is understood as a strategic network between a number of independent business
organizations. According to Hobbs et al. (2000), a value chain is differentiated from a production /
supply chain because:

- Participants in the value chain have a long-term strategic vision.
- Participants recognize their interdependence and are disposed to work together to define common
  object, share risks and benefits, and make the relation work.
- It is oriented by demand and not by supply, and thus responds to consumer needs.
- Participants have a shared commitment to control product quality and consistency.
- Participants have a high level of confidence in one another that allows greater security in business
  and facilitates the development of common goals and objectives

Table 2 presents other comparisons between a production market chain and a value market chain.

<table>
<thead>
<tr>
<th>Factors</th>
<th>Production market chain</th>
<th>Value market chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information flow</td>
<td>Little or none</td>
<td>Extensive</td>
</tr>
<tr>
<td>Principal focus</td>
<td>Cost / price</td>
<td>Value / quality</td>
</tr>
<tr>
<td>Strategy</td>
<td>Basic product (commodity)</td>
<td>Differentiated product</td>
</tr>
<tr>
<td>Orientation</td>
<td>Led by supply</td>
<td>Led by demand</td>
</tr>
<tr>
<td>Organizational structure</td>
<td>Independent actors</td>
<td>Interdependent actors</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Competitiveness of the enterprise</td>
<td>Competitiveness of the market chain</td>
</tr>
</tbody>
</table>

Source: Hobbs et al. (2000).

This guide seeks to provide a practitioner with a better understanding of a production chain and facilitate
sufficient negotiations between participants to lay the groundwork for the formation of a value chain. The
resulting value chain will most likely involve a smaller group of the participants than the production
chain. Not all participants are interested or willing to enter into a value chain arrangement given the
negotiation, information exchange, risks, and changes in the relations along the market chain implied by
this focus. Generally the process of change and added responsibility within a value chain also adds costs.

The advantages of a value chain are that complex strategies of product differentiation and innovation are
easier to achieve, and thus contribute to building sustainable competitive advantages over time. Box 2
gives an example of a value market chain in a rural community.

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10 For more information consult: Hobbs, J; Cooney, A; Fulton, M. 2000. Value market chains in the agrifood sector: What are they? How do
they work? Are they for me? Department of Agricultural Economics, University of Saskatchewan, Canada. This publication is available in:
http://www.usask.ca/agriculture/agec/publications/value market chains.pdf
Box 2

Example of a value market chain: “Las Brisas,” Santa Cruz de Turrialba

When the cheese factory, Las Brisas, began activities over 10 years ago, it functioned like all the other plants in the cheese-making cluster of Santa Cruz de Turrialba in Costa Rica. The company had unstable relations with suppliers and buyers. As the sector evolved and became more competitive, Las Brisas developed strategies to move from being just one more player in the production chain to carving out its own value chain.

This search led to the establishment of trust-based relationships with both suppliers and buyers. On the milk production input market side, La Brisas made its biggest milk provider a new partner in the business, and thus guaranteed 70% of its daily consumption.

On the output market side, Las Brisas pursued two market strategies. First, it developed contacts with one of its clients – a biscuit factory – to produce a special cheese for manufacturing biscuits. The two businesses jointly obtained support from the University of Costa Rica for specific research on the best type of cheese for the biscuits. Through this product development process Las Brisas was able to enter a new market, in which no competition existed, as well as assisting the biscuit factory to expand production and sales. Secondly, Las Brisas consolidated relations with an important chain of supermarkets in San José, the country’s capital, through the application of a methodical quality control process for its own brand. This relationship has resulted in joint promotion and marketing strategies as well as the development and testing of new products based on consumer demands detected by the supermarket.

What are the results has Las Brisas achieved through its value chain strategy?
1. The quality of its products is recognized as being the best in the zone and, therefore, has high acceptance in the market.
2. Las Brisas is the only business from the cheese cluster in Santa Cruz that sells consistently directly to supermarkets in San José. In 2001, a promotion of cream was so successful that it contracted additional production with other plants of Santa Cruz, but under its supervision and brand.
3. Las Brisas suffers less than other businesses during times of milk shortage.

In summary, constituting a value market chain has given Las Brisas an important competitive edge over similar plants that share the same comparative advantages.

Source: Personal interviews, November 2002.

3.9 Scale of evaluation and level of participation

This methodology has been designed to be both flexible in terms of clients needs and scaleable. However, the reader should note that this guide is biased towards a high degree of participation not only by the lead service provider but also from representatives from all relevant chain actors. This bias is intentional as the method seeks to assist local service providers in building community capacity and skills to take advantage of dynamic markets opportunities through the exploitation of market chains and, in the future, through the development of value chains.

Most market chain studies are not conducted in this manner; in most cases a specialist team of economists will undertake the market research and make the results available to a wider audience. Taking these ideas into account, the reader should consider this approach most appropriate for use at the local and provincial levels. Whilst the methodology can be applied at a national level and has particular application in
negotiating for greater competitiveness in value chain development, the reader should be aware that there will be some limitations in regard to participation at a national level. We fully appreciate that there are other methodologies, of a less participatory nature that are designed for national sub-sector\textsuperscript{11} analysis. If the reader is faced with a major marketing evaluation that is addressing a national study, the reader is referred to Annex 1, which outlines a rapid method for national scale market appraisal, developed by J. Holtsman.

3.10 Considerations when applying the method at diverse scales of intervention

This section seeks to present some of the implications in terms of capacities, resources required, and methodologies for this approach depending on the scale of analysis. The term “scale” refers to the geographic coverage in which the market works. The present manual works with three scales (local, provincial and national) that can be defined as:

- **Local**: Refers to a scale ranging from a village to a community / municipality. This scale is useful when seeking to work closely with processes of community development and community management of natural resources.

- **Provincial / District**: Includes more than a municipality and can reach as far as a province or department / district. This scale is useful for working with more geographically dispersed agro-enterprise market chains, or those with more complex interaction, such as clusters or local agrifood systems.

- **National**: Focuses on one single market chain at the national level and presents advantages when the objective of the exercise is to formulate policies or plans in medium or long term to promote national competitiveness in a given product.

As the scale shifts from local, through provincial to national, there are several changes that need to be considered. Some of the likely changes and questions that should be answered before starting are listed below:

- **Clients and capacity to convene**: Who are our intending beneficiaries? How are they organized? Who are the key actors of the market chain and what are their roles? How will benefits from this process be shared between beneficiaries and the wider community? Whom should we convene for work at the scale proposed? Do we have the capacity to bring these actors together?*

  Your project design should have clarity in regard to these issues before any work is undertaken. Defining the client is probably the most important decision in the process.

- **Costs**: What can we achieve with the available budget? The definition of viable objectives with the available resources is important and can have important implications for the scale at which we work. *It is better to work at a smaller scale rather than attempting to work at a level where resources are insufficient to guarantee results.*

- **Methodologies and level of detail**: How do we choose an adequate basket of methodologies for the scale at which we wish to work? Methods that work well at a local scale are probably less effective at a national scale. This consideration has to do with the degree of participation that can be achieved at the different scales, level of detail, information requirements, and costs. What is the key information that we have to collect and analyze? Collecting additional information, however interesting it may be, implies more analysis and additional costs.

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\textsuperscript{11} Sub-sector is the term used to describe the various levels of market chain activities that allows goods and services to flow from sites of production to consumption points. A sector is generally used to describe a consolidation of activities e.g. an agricultural sector, a health sector, an education sector and within this context a sub-sector refers to a specific branch of activities based around one commodity or product within a sector e.g. a maize sub-sector, livestock sub-sector.
- **Management, negotiation and implementation capacity**: What implications does the chosen scale have in terms of management and negotiation with important decision makers? How strong will our negotiating position be in relation to key decision makers in the market chain as we expand the area of coverage? Can we reasonably implement a strategy at this scale?

- **Representation and level of participation**: What are the considerations for guaranteeing active participation and adequate representation of all actors and interests involved in the market chain? As we increase the geographical scope, the direct participation of our target beneficiaries is likely to fall, these factors need to be discussed and resolved.

- **Recognition of actors**: How do we assure that we hear the needs of all actors in the market chain? This point requires special care both with the market chain’s weaker actors (i.e. the poor, ethnic minorities, women, among others) and those considered negative (i.e. traders) whose ideas tend not to be taken into account.

- **Differentiated strategies**: How do we guarantee that the final strategy includes differentiated solutions according to the needs of the diverse actors? All agro-enterprise market chains include heterogeneous actors, and thus demands differentiated solutions according to their needs instead of “one size fits all” strategy.

- **Potential for impact**: What is the potential impact of actions at the chosen scale in terms of number of beneficiaries, economic development, natural resource management, social and gender equity, impact on class relations, or others?

Table 3 summarizes some of the considerations of scale in relation to the themes previously defined.

<table>
<thead>
<tr>
<th>Theme</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Client identification, representation and participation</strong></td>
<td><strong>Local</strong></td>
</tr>
<tr>
<td>High: Clients are easily defined, study is being suited to their needs. Facilitates direct participation of actors throughout process from each interest group.</td>
<td><strong>Medium</strong>: Clients can be identified and integrated with study at specific points Need to select representatives from each group with the capacity to clearly represent the interests of all.</td>
</tr>
<tr>
<td>Low: Clients defined in terms of income categories, less easy to integrate clients with data gathering and analysis Actors selected represent a larger group and therefore need to have recognized ability / reason to share information and credibility within their group.</td>
<td><strong>National</strong></td>
</tr>
<tr>
<td><strong>Capacity to convene.</strong></td>
<td><strong>Local</strong></td>
</tr>
<tr>
<td>Good for local actors, but more difficult with external actors.</td>
<td><strong>Medium</strong>: Good with provincial actors, although may leave some out greater possibility of working with external actors.</td>
</tr>
<tr>
<td>Good with national actors, but with little real representation possibility of convening national decision makers.</td>
<td><strong>National</strong></td>
</tr>
<tr>
<td><strong>Costs</strong></td>
<td><strong>Local</strong></td>
</tr>
<tr>
<td>Low, Costs of participative workshops, generation and analysis of information and feedback to participants.</td>
<td><strong>Medium</strong>: Costs of workshops, generation and analysis of information, transfer, lodging, communication of results.</td>
</tr>
<tr>
<td><strong>High</strong>: Costs of workshops, generation and analysis of information, transfer, lodging, publication, and formal communication of results.</td>
<td><strong>National</strong></td>
</tr>
<tr>
<td><strong>Methods and level of detail</strong></td>
<td><strong>Local</strong></td>
</tr>
<tr>
<td>Participative, with local actors More detailed, with direct information from individual actors</td>
<td><strong>Medium</strong>: Participative at times, but with the support of survey teams or systematized data. Less detailed, with systematized data and averages for the province</td>
</tr>
<tr>
<td><strong>National</strong></td>
<td></td>
</tr>
<tr>
<td>Emphasis on systematized data (databases, means, surveys, etc.) with key decision makers. Mean data or national aggregates – sector trends.</td>
<td><strong>National</strong></td>
</tr>
<tr>
<td><strong>Management, implementation, and capacity to negotiate.</strong></td>
<td><strong>Limited</strong>: Depends on local resources and desires of participants If advances are achieved they may be sustainable.</td>
</tr>
<tr>
<td><strong>Medium</strong>: Mix provincial resources with external. May fall into the trap of depending on external actors and resources.</td>
<td><strong>High</strong>: Good possibility of obtaining resources, but difficulties in implementation if clear rules do not exist among the actors.</td>
</tr>
<tr>
<td><strong>Needs differentiation</strong></td>
<td>This can be done by income, access to market, gender, class, technology employed, or any other criteria. It is necessary to ensure that all relevant groups are included.</td>
</tr>
<tr>
<td><strong>Strategy differentiation</strong></td>
<td>This can be done by income, access to market, gender, class, technology employed, or any other criteria. It is necessary to ensure that all relevant groups are included.</td>
</tr>
</tbody>
</table>


| Potential impact | **Limited** to the work zone, and perhaps some neighboring sites | **Medium**, with wider coverage | **Higher**, but with the challenges in implementation previously mentioned |

### 3.11 Observations on the Use of Participatory Methods

This guide is based on participatory methods adapted from the school of Participative Learning and Action (PLA). These methods, which include focus groups, mapping, visualizations, social dramas, and other forms of facilitated reflection, prioritize not only documented results, but also to the process of application. Although a concrete result is generated at each stage in the process, i.e., a map, a matrix, a table, etc. these products are not the central purpose of the exercise. Of equal importance and benefit to the group members is the time and space they have invested in analysis and reflection around the methodological tool. The discussions and agreements reached are generally more important than the final tangible result of the method.

The use of participative methodologies in this guide encourages member to air their views and we are going to hear many voices speaking about a single market chain. These points of view will be quite different—what the rural producer thinks is very different to what a city trader thinks—but all the viewpoints have important information regarding the reality of the market chain. To understand the market chain, its strengths, weaknesses, and the design of a shared strategy to increase its competitiveness requires listening to all voices equally. The role of the facilitator in this process is to systematize and document the information and present it back to the market chain actors so that they can use this analyzed information to make more informed decisions on what to do, together, to improve their economic activity.

The design of a strategy to increase competitiveness is a systematic way to generate an open, informed discussion among actors from a market chain. But, at the end of the day, those who decide what to do, design action plans, and implement them are the actors themselves.

### Summary

In this module, we have reviewed some basic concepts about market chains; an initial definition of what the strategy to increase competitiveness can be, for what it is designed, and how it is carried out; some key ideas on production versus value market chains; some appreciations regarding the scale of intervention; and finally, some initial ideas on the use of participative methodologies. In the next module, we will look in more detail at the principles behind this method. Many of these principles relate to the concepts that we have seen in this module, and together form a philosophy that supports the design of strategies to increase competitiveness.
Module 4
Guidelines for adapting the process to local needs

4.1 Introduction

Guiding questions
1. What are the principles behind a strategy to increase competitiveness?
2. What characteristics and qualities are required to facilitate the design of such a strategy?
3. Why is it important to keep in mind the heterogeneity of the market chain’s actors even within a single segment of the market chain?
4. How can research and development activities be combined in a strategy to increase competitiveness, in the short-, medium-, and long-term?

In the previous modules, we reviewed basic concepts underlying market chains and the basic steps in developing a strategy to increase market chain competitiveness. In this module, we will look at how to adapt and apply these principles into the design of a local strategy.

A strategy to increase competitiveness is based on a combination of innovation and building agreements between chain actors that seek sustainable improvements in the competitive performance of a particular market chain. This market chain approach is applied within the context of a territorial approach to rural enterprise development. The methodology includes support to both the market chain actors and to the businesses that support the market chain. Local actors including technicians, promoters, facilitators and local leaders, can apply the methodology without having to rely upon external experts. Implementing actors should review and adapt the method to their needs deciding which parts of the method are most useful and where changes will be required. To support the process of adapting the method to local needs we recommend some basic guidelines.

4.2 Market orientation

A competitive strategy should be considered as a business tool, designed to support enterprise activities that increase income and respond to market demands. Before designing a market chain strategy, local facilitators should have a clear idea of the strengths, weaknesses, and potential for enterprise development in their local area, and have up-to-date information on the market opportunities open to the territory and the aims of the client group. Methods to gather this information are dealt with in Manuals 1 and 2 of this series.

4.3 Market chain focus from “end to end”

This methodology reviews all the functions of the market chain starting from input provision to the consumption of the final product. The existing enterprise and available business development services are analyzed as well as the functions of input provision, production, post harvest management, processing, and marketing. This requires that key players in the system are identified and participate in the process of market chain analysis. Developing a multi-actor group and having a wide analytical framework is important to understand the market chain as a business system, and at the same time identify critical points where a minimum of effort will generate maximum benefits.

4.4 Coordination among different actors to identify and develop synergies
The methodology assumes that areas of common interest between diverse actors along the market chain are not evident, and thus require the facilitation of meetings and coordination to identify inefficiencies in the market chain and to design strategies to overcome these bottlenecks. For this reason, the methodology seeks to incorporate and motivate a range of actors to define common objectives and strategies thus permitting a coordinated effort between them. In this approach, it is important to ensure that key actors are included in the system. The organization facilitating the process should have friendly relations with key informants or actors or be disposed to build these relationships during the course of the process. Building contacts with actors in the private sector including enterprises, supermarkets, local and external traders and those offering business development services, etc., are sometimes complicated, given time limitations. However, the ability to negotiate with these actors is critical because of the information they manage regarding the market chain and market potential.

4.5 Working with the private sector
An additional objective is the identification and development of synergies among actors along the market chain. The organization facilitating the process should involve representatives of all actors along the market chain to highlight their interdependence and the possibilities of improving their business activities. This does not mean that all actors participate at all times in the design of the strategy. Most private sector representatives will not attend long workshops and therefore the process facilitator may need to interview some market chain representatives to capture their opinions and relay these ideas to the group in the design phase. Where possible private sector representatives should review the analysis of the market chain and are key participants in the final design of a market chain strategy. Despite being less participative due to time constraints, these actors can often help (or hinder) any proposed change in the market chain, and therefore must be included.

4.6 Select key informants in decision-making processes
Understanding how a market chain functions and who are the key players is vital to having good representation from the market chain. Key informants from input suppliers, producers, post harvest management and processing of the final product, or the provision of business development services need to participate actively so that their viewpoints are clearly heard and incorporated into the information gathering and strategy development.

4.7 Respect people’s time, needs and differences
In certain circumstances it is better to separate actors so that their time is used most effectively. Traders for example are busy people and do not appreciate time spent discussing other peoples business that is not relevant to their area of activity. The facilitator should therefore evaluate whether certain groups in the market chain are best interviewed within a mixed group or interviewed separately. For example, if a market chain includes the participation of large-, medium-, and small-scale producers, with diverse technologies, different access to resources, and thus different opportunities and limitations, it is important to have representatives of each group to design effective support strategies to meet their different needs. People or organizations involved in processing activities are another example; the use of different levels of processing technology, can affect processing efficiency, costs, and final product quality. At a consumer level, differentiation is also important. For example, consumers of varying income levels may have varying demands based either on product quality or price or a combination of the two. The facilitator should take care to separate these types of actors and groups as this will not only help to focus future interventions more appropriately but will also use people’s time in a respectful and meaningful manner. The facilitator should constantly review people’s comments on the process and if participants are bored, or feel their time is not being well used, the process needs to be changed.

4.8 Combining research and development activities to promote innovation
The final strategy to improve the competitiveness of a market chain can include both research and development activities, which may take place at any point along the market chain. Research actions may focus on improving productivity, post harvest management, processing, marketing, or the provision of business development services with the purpose of improving market chain competitiveness. At the same
time other actors may implement development activities seeking to increase the market chain’s competitiveness.

Typically short-term activities focus on development outcomes, but as the strategy advances, and research results are obtained, other innovations are introduced which may be of a medium to longer term nature. Several actors along the market chain often implement the longer-term interventions.

The process of innovation is typically long term and, if possible, permanent. A reasonably long time horizon is important to improving market chain competitiveness. In other words, improving the market chain quickly is important, but if substantial, or sustained improvements are sought, a more strategic research approach that facilitates innovation may be required. Strategic research is not necessarily an action carried out by specialists or research centers, although these may participate, but rather a permanent focus of innovation, learning, and diffusion that draws on both experts, and the knowledge of market chain actors and their own capacity for innovation.12

4.9 Mixing short, medium, and long-term activities with available resources

A strategy to increase competitiveness which includes both research and development activities, can be divided into short, medium, and long term actions and should be developed with a sound understanding on whether external resources are required or not. In the first instance a strategy should be based on local actions using local resources and knowledge, before seeking external support. This is useful because it promotes a positive dynamic between the actors and helps a community to realize that they can do things themselves without waiting or relying on external support. If a community is to embark on a business strategy, it is always best to develop processes and activities that are within their financial reach. In the medium and long term, as a business idea advances, local and external resources and knowledge can be mixed more effectively and at the same time more complex actions or strategies designed and implemented to increase competitiveness.

There are three main reasons why it is important to think about time and resources from the start of the process:

1. A process initiated with local resources and knowledge tends to strengthen local capacities for analyzing and resolving problems, and thus assists in the development of capacities for innovation.
2. Seeking solutions to market chain needs based on existing local resources instead of waiting for external resources (or projects) to solve the problem results in faster and more sustainable actions. Often the most efficient solutions require more commitment from actors than financial support.
3. Grounding activities in local resources tends to reduce the pressure of overestimating the market chain’s needs and possible responses. A clear example is the choice of technological options. When large-, or medium-scale funding is available, costly and complicated technological solutions tend to be chosen; while when solutions are based on local capacity of payment and maintenance of the technology, these tend to mesh better with local needs and conditions.

4.10 Identifying a process facilitator

Finally, the design of a business strategy requires facilitation by an organization or individuals. This organization can be a Producers’ Association or other union (for example, a processors’ association), a Local Chamber of Commerce, one or various non-governmental organizations (NGOs), a university, a private enterprise, or other group. In our experience, NGOs working with organizations of producers are the most common facilitators, but in some cases others combinations of actors have promoted market chains. For example, a public-private regional center for competitiveness assisted work in Colombia, and a private support service enterprise assisted market chain development in Peru. These processes could be

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12 Three clear examples here are the master builders of local processing plants who may be excellent adaptors and diffusers of improvements in post harvest technology, Local Agricultural Research Committees (CIALs, the Spanish acronym) that carry out applied research focused on crop production at the community level, and Research Groups in Rural Agro-industry (GIAR, the Spanish acronym) that integrates post harvest technology and production improvements to develop value added products targeted towards a specific market demand.
led by a strong private enterprise that seeks to improve their competitive position and that of their market chain. The facilitating organization should have certain basic capacities, characteristics and attitudes for the work, as outlined below. Table 4 is a generalization of the basic conditions, and therefore should be taken as a guide and not as a definitive list.

**Table 4. Identifying a process facilitator.**

<table>
<thead>
<tr>
<th>Key characteristics</th>
<th>Necessary</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position of neutrality in the market chain</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Experience with the management of participative methods and process facilitation</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Convening capacity and at least some level of influence in support policies to the sector</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Disposition to facilitate design of the strategy and seek funds and support for its implementation</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Interest in participating in the implementation of the strategy</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Trust of the actors and a reputation of acting with transparency</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Interest in building or improving local capacities</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Previous experience in rural enterprise development</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Knowledge of market tendencies relevant to the market chain</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Basic knowledge of the market chain</td>
<td></td>
<td>V</td>
</tr>
</tbody>
</table>

In summary, the design and implementation of a strategy to increase competitiveness has a business orientation, responds to clear market opportunities, analyzes the totality of the market chain with contributions from key actors, seeks synergies between them to implement research or development actions, and proposes actions at short, medium, and long term, with or without external resources.

In this module, we have discussed the principles that support and orient the analysis of a market chain and the design of a strategy to increase competitiveness. Some characteristics and qualities were identified that are required of organizations or persons intending to facilitate the design and execution of strategies to increase competitiveness. The importance of recognizing the heterogeneity of the market chain’s actors and its implications was also touched upon. Finally, the module closed with a brief discussion on how to combine research and development activities in the short, medium, and long term to generate innovations that permit increases in the market chain’s competitive position.

In the modules that follow, each step of the method will be developed in a practical approach.
Module 5 Practical Work
Section 1 Selecting a Market chain

Guiding questions
1. What are some key criteria for selecting one or various market chains with which to work?
2. How can these criteria be classified according to their relative importance? Which one/ones is/are more important than the others, and why?
3. Once the criteria are identified, how can they be used to separate key market chains from those of lesser importance?
4. What are the advantages and disadvantages of using quantitative selection criteria and objectives compared with qualitative, more subjective ones for selecting a market chain?

The previous modules have outlined the basic principles and concepts for the rural agro-enterprise development methodology including an overview of a market chain, functions of the chain actors, the wider view of the market chain and its support services and an outline of the basic steps in designing a strategy for increasing market chain competitiveness. This module will focus on the first practical step in the design of the market chain strategy and that is the selection of a market chain.

Selecting a market chain can be made based on a range of criteria. In some cases service providers will follow a decision made by third party or following the recommendations of a previous marketing study, in other cases a decision can be based on what is mainly produced in the territory. These are passive arrangements and our experience indicates that if a market decision is taken from a third party’s perspective with no primary analysis by the group that is about to engage in a marketing process that the chances of developing a sustainable or appropriate business is reduced. Making a decision on which market chain to analyze is fundamental to the process and therefore needs to be taken seriously. To do this the service provider engage farm families to have a good understanding of their desires, constraints and potential as well as a sound understanding of potential product before embarking on a detailed analysis.

If you have followed the RAeD process for agro-enterprise development you will have made a selection based on the information in Manual 2 of this series entitled “A guide to identifying market opportunities for smallholder producers and processors.” As a recap of the ideas; Manual 2 is a guide to undertaking a rapid market demand study, this enables the service provider and the target farmers group with the opportunity to assess what products are in demand in the marketplace. To select the best opportunities for a more detailed market chain evaluation is based on a three stage filtering process. The first data gathering process produces a “long list” of products that show market demand. Thereafter a selection process is used to reduce the long list of potential products down to a “short list” which is comprised of a manageable number i.e., 3-5 product options that are analyzed in more detail, using three selection matrices. The results from these more detailed analyses are then discussed with the farmers group to prioritize options for further analysis. These steps are outlined in Table 5. The use of the selection

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matrices is recommended, as it is a systematic way to summarize information collected for the several market options. The matrices allow different types of options to be compared in an objective manner, so that you can compare apples and oranges. If the option is a primary product (without processing) we must prepare an agronomic or animal matrix. If the product is agro-industrial (processed), then we can prepare an agro-industrial matrix. For both types of products we have to prepare the remaining matrices (marketing and economic), examples of these matrices are presented in Annex 2.

Table 5. Steps used by the RAeD Market Opportunities Identification process to select a market chain for further analysis

<table>
<thead>
<tr>
<th>Steps</th>
<th>Action</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>Conduct a rapid market survey to determine a range of products have high market demand</td>
<td>A “long list” of market options, this can be a list of products often up to 40 – 50 products.</td>
</tr>
<tr>
<td>Step 2</td>
<td><strong>Obvious discards</strong>&lt;br&gt;1. Can the product be produced in the territory&lt;br&gt;2. Does the product require high investment</td>
<td>Remove all products that are not feasible for the target group based on their assets, the first cut should be based on obvious problems, e.g., remove products that :-&lt;br&gt;1. cannot be grown in the area,&lt;br&gt;2. require high investment&lt;br&gt;3. are not profitable in the territory, not comparative advantage&lt;br&gt;4. have a high market risk for the target group&lt;br&gt;5. require many years to produce first yields.</td>
</tr>
<tr>
<td>Step 3a</td>
<td>Agronomic analysis</td>
<td>Review production conditions required</td>
</tr>
<tr>
<td>Step 3b</td>
<td>Financial analysis</td>
<td>Review profitability and investment needs</td>
</tr>
<tr>
<td>Step 3c</td>
<td>Marketing analysis</td>
<td>Review market type, buying conditions, client group, packaging and quality aspects.</td>
</tr>
<tr>
<td>Step 4</td>
<td><strong>Selection of prioritized product.</strong> Based on the analysis of the three matrices, the service providers and farmer groups prioritize products which they will analysis in greater detail.</td>
<td>Prioritized products that farmers are willing to invest into and to evaluate in more detail with market chain actors.</td>
</tr>
</tbody>
</table>

There is however, no one correct way for making a choice since it is a decision of the organization that will implement the agro-enterprise process and often decisions are based on situations, resources and opportunities. Whatever the criteria used for selection it is important to reflect upon the impact that the use of a particular set of criteria may have on the success or not of the market chain selected.

The selection of a market chain may appear simple, but the reality is somewhat different as the selection has significant implications on subsequent investments and chances of business success. In a market chain process, the organization that will implement the strategy has to balance criteria such as effective market demand, consistent supply, cash flow, profitability, poverty reduction or employment impact, technical, social and environmental feasibility, existing organizations needs and wants. If this process is carried out in coordination with other organizations, each one may have particular interests and therefore the process can be fairly slow, but at the same time, possibly more sustainable. The purpose of this process is to make a sensible selection, based on clearly identified criteria and aim to come up with the best bets for a given territory. A systematic process, improves the possibility that the selected market chain will be successful.

If you have not followed the steps in Manual 2, here are some helpful tips, based on generic market chain selection criteria that have been useful in previous applications of the methodology. This section explains the ideas briefly, and ends with the presentation of a concrete field experience.

### 5.2 Selection Criteria used to choose an appropriate market chain

The following criteria may be useful for selecting a market chain on which to work. They do not represent an exhaustive list and they should be modified according to the criteria of the organization that will lead
the design and put the strategy into motion. Equally, these criteria can be applied simply based on available information with some rapid complementary analysis or using a great deal of data and analysis. The final decision on which criteria to apply, and the way of doing so, remains in the hands of the organization facilitating the design of the strategy. The organization should be practical in making these decisions.

When making a selection for further analysis, the following principles are a useful guide:

- **Market demand**: How much market demand is there for the market chain’s product? Is the market for this product growing strongly or slowly, is it stable or diminishing? We recommend working with primary products that show strong or moderate market growth since this usually implies that the market can absorb additional supply. In the case of new products, a survey of intent to buy can be done to identify potential market size\(^{14}\). This decision on demand should be taken based from a reliable source of reliable information; it is best to do your own study but also you can use information from recent market studies, or surveys made by private or state institutions. In most cases demand is based on a combination of primary and secondary data.

- **Product profitability**: How profitable is the production or processing of this product? How does the product’s profitability compare with what a bank pays on money in a savings account? Is it much higher, a little higher, the same, or less than the bank pays? Comparing the profitability of various products requires calculating the internal rate of return (IRR) for each, and then comparing the interest rate paid by the bank. The internal rate of return can be evaluated using local data with calculations made using an excel spreadsheet. We recommend that clients, who are not familiar with the IRR technique to seek advice from an accountant. Based on this analysis, we recommend working with products that are more profitable than the bank’s savings account interest rate, which is the opportunity cost for savings. A value of 10% is often used as the default “cost of money”, but this should be realistically compared with local rates for access to capital. In evaluating profitability, the there are no hard and fast rules given that the opportunity costs for labor tend to be low or non-existent in many rural areas. It is important that the product be sufficiently profitable for the producers at actual market prices, and that the market demand is sufficient to assimilate additional produce without entering a state of oversupply and price declines.

- **Feasibility of production**: Even though market demand exists for a product, is it possible to produce this product in the territory given existing social, economic, and environmental conditions with the quality that the market demands? Is the production system for this product consistent with the sustainable natural resource management? The selection of market chains that adapt to existing conditions and coincide with the facilitating organization’s concept of natural resource management is recommended. If this is not the case, the facilitating organization should identify strategies to resolve feasibility limitations (for example, find a supplier of credit who can assist with installation costs of perennial crops such as fruits, simple systems of water harvest, micro-irrigation systems, or the identification of improved post harvest technologies). The existence of feasibility questions should not necessarily eliminate the product since solutions can be included as part of the activities to increase the market chain’s competitiveness.

- **Potential impact**: How many families could benefit from a strategy to increase competitiveness in this market chain? Will this strategy generate strong, medium, or low impact in terms of income for producers? What impact will this strategy have on least favored groups? On women as opposed to men? It is also important to ascertain if the strategy will generate rural farm or non-farm employment, and for whom. If the target population of the project or organization is a specific segment of the

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population (for example, small-scale producers, women, indigenous populations, youth, or others), it is important to ask ourselves if this group will be able to take advantage of the additional gains foreseen by the project. Working on strategies that present greater impact in terms of additional income in the zone is important, but without losing sight of the distribution of these benefits. Strategies with greater impact generate interest among possible participants and contribute to the business development of the territory as bring in additional profits instead of merely redistributing existing ones.

**Existing business organization:** Many researchers and public sector workers are constraint oriented and can be highly risk adverse. These types of people often look for problems and then set programs to overcome them. A business approach is different; it seeks opportunities and then evaluates business options, investment, cash flow, and profit to make decisions. In the case the groups need to assess aspects such as: What are the business organizations in the market chain like? Are there formal or informal groups of producers, processors, or traders in this market chain? How strong or weak are they in business terms? Is there coordination among them now, or was there in the past? In this criterion, care must be taken not to leave out informal actors and organizations such as local and regional traders and their networks of suppliers, who despite being informal, are business organizations that exist and function with some grade of effectiveness in the zone. This is not a matter of judging if they are “good” or “bad” organizations for the target population, but rather of identifying them as business organizations.

**Support agencies:** Is there one or more support organizations associated with this market chain? What services do they or could they offer to the market chain? Are they willing to facilitate or participate in the design of a strategy to increase competitiveness? Again, it is important not to leave out the actors who are associated with the market chain informally, in aspects of technology, credit, or technical assistance since they can facilitate or limit the design and implementation of the strategy.

**Risk assessment:** One of the more difficult criteria to assess is an appropriate level of risk that a client group should take on. In formal terms, risk can be measured in terms of exposure to credit (debt), suitability of producing a particular product in a selected territory, other players in the market, level of technology required for the new business, price and volume volatility of the market, number of buyers, cohesion of the group and access to technical and financial services. Risk management is based on having sufficient information to make an informed decision. This is important as the amount of information required to make a decision on whether to invest is very much based on the how much capital, labor and land is required for the task. If the likely investment is low, less information is required than if the investment is high, therefore as investment in novelty increases more information is required to make a sound business decision.

In assessing risk, the facilitator should consider the investment in a new market chain intervention in relation to the existing farming mix and the potential to raise incomes with new opportunities. New business opportunities need to be discussed carefully with a client group in terms of land, labour and capital availability, and also the farmer group should be assessed in regard to their view of credit, common use of labor and innovation level they would like to accept. As a rule, profitability of an enterprise increases with the level of risk and according to the Ansoff matrix, see below, risk increases with the following types of products and markets, from 1 to 4. Diversification, defined as presenting a new product into a new market, is the highest level of risk in this matrix and herein lies a dilemma. Analyses of products based on demand, often biases opportunities towards higher risk and often times towards diversification. Farmers who are seeking increased incomes are also aware that increasing their production of inelastic staple foods may not provide them with a better income. Therefore, it is not unusual for farmers to want to take on additional risk when they seek new business opportunities.

15 An inelastic product is one in which demand does not increase as buyers incomes increase, i.e., the amount of salt that people buys does not change dramatically as incomes increase. A product described as being elastic has market characteristics that increase consumption as incomes rise, i.e., people tend to buy more red meat as their incomes increase.
Table 6. The Ansoff matrix for risk assessment

<table>
<thead>
<tr>
<th>Existing markets</th>
<th>Existing products</th>
<th>New products</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Market penetration</td>
<td>3. Product development</td>
<td></td>
</tr>
</tbody>
</table>

For the facilitator, risk should be discussed with the target groups to evaluate and attempt to balance level of risk with a farmer’s group asset based, innovation record, credit record, potential for taking on new ideas. Through this process, the facilitator can guide groups towards a sensible level of risk based on their experience and track record. In this case, facilitators may advise newly formed farmer groups to select options that are based on market penetration and market development, and that farmers should test these new markets in a stepwise manner with test plots at first and market trials before engaging in larger scale supply. For groups with more experience in marketing, those with more assets, may have a credit record and a track record in collective action and an interest in higher risk, they are more likely to be more successful with higher risk strategies. Key questions: Where does your selected product fit in the risk matrix? Do you have savings to support this new business or will you need credit? If you need credit, will your business plan pay the necessary capital and interest payments? How much of your land (%) will you give to this product? What would be the consequences if the business venture failed? Are you planning to test the new business in a small plot at first? Where do you feel there is most risk in this new business? Do you have plans to overcome these areas of risk? Do you have partners who will share your risk? See box 1 for an experience, in Vietnam, of dealing with risk.

- **Environmental sustainability**: A final but important criteria that must be addressed is the sustainability and environmental impact of the new business. For most cases the scale of the activity may not merit a full study on this, but the group should be aware of issues such as pollution, soil degradation, run off, types of materials and chemicals being used. In each case, the group should ask if there are any hazards with the new business venture? Does the group need any specific training or knowledge on how to use a new chemical or material? Is there any risk of pollution? If there are hazards, long or short term, what are the measures being taken to address these hazards?
Box 3
Risk management with hillside communities in Vietnam

Enabling communities to adapt to risk
In Vietnam, the CIAT agro-enterprise project is working with remote tribes in hillside areas, in an attempt to introduce more commercial application to the development work. The level of commercial engagement varies considerably across the farming groups and therefore the project is evaluating the ability of these different groups to tackle an increasing level of risk. The client group knows each of these risk areas and the facilitator therefore has to adjust the process to each of these clients needs. The decision to take on the four levels of risk is so that the facilitator can in the future have a better idea of the types of methodologies that these different client types will need. This approach is aiming to meet one of our basic tenets in that the methodology is not a recipe but a set of principles that need to be adapted to location, market type and type of business opportunity including the management of risk.

<table>
<thead>
<tr>
<th>Existing products</th>
<th>New products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing markets</strong></td>
<td>1. Market Penetration</td>
</tr>
<tr>
<td></td>
<td>Increasing sales of water cress into local market</td>
</tr>
<tr>
<td>3. Product development</td>
<td>Changing cassava production from sweet types to bitter industrial cassava for starch production</td>
</tr>
<tr>
<td><strong>New markets</strong></td>
<td>2. Market development / expansion</td>
</tr>
<tr>
<td></td>
<td>Taking existing product, chopsticks from bamboo and selling these into a new market area</td>
</tr>
<tr>
<td>4. Diversification</td>
<td>Introducing a new type of mushroom with medicinal properties and developing a new market for this product in the district.</td>
</tr>
</tbody>
</table>

5.3 Definition of Individualized Selection Criteria
Each organization or group of organizations should develop their own selection criteria. These can range from elemental to highly technical in nature. If the facilitating organization has some pre-defined market chains as part of its project, then long evaluations of options is not necessary. However, it may be interesting to discuss the order in which of market chains will be worked on and their relative level of investment. If a decision is made amongst various organizations with different agendas, this exercise can be useful for defining a common approach instead of each organization working in isolation.

There are several methodological options for selection ranging from simple (voting or discussion) to more complex (technical studies). Simple methodologies are quick, while technical methods permit more analysis and greater security in the decision made. A balance needs to be struck between subjectivity and objectivity that the participants feel comfortable with. It all depends on the needs of the facilitating organization. Generally, CIAT has applied more technical methods such as those described below.

5.4 A Methodology for Prioritizing Market chains
With the intention of developing individualized selection criteria, we recommend a brainstorming session. This exercise can be done internally within the facilitating organization or among various organizations, if there is a committee for rural enterprise development or other territorial organizations with this focus.

The steps to follow in this process are:
Identification of criteria
(a) Select a facilitator who is capable of organizing the results. It is best to name two people, one as facilitator and the other to document the decisions and take notes on the process.
(b) Ask each participant to write a list of three criteria in response to the question: “What are the most important criteria for selecting a market chain with which to work in our territory?” Each answer...
should be recorded on a card (one criteria per card, in big letters, maximum three lines) and given to
the facilitator.

(c) The facilitator reads out each card and places it where it is visible to all participants (wall, floor,
table, blackboard, etc.) without additional comments. Only clarifying questions are permitted at this
time.

(d) Once all ideas have been read out, they are grouped by common themes. For example, all cards that
are related to the theme of impact are put together on one corner of the wall. All those to do with
profitability on another, etc. If some cards do not fit in any group, they are put aside for later
discussion and revision.

(e) The facilitator invites participants to revise each group of cards to see if one or more common criteria
emerge or can be developed. At this point, it is useful to underline the common themes among the
cards and look for a phrase or title that summarizes the cards. Once a summary phrase or title has
been defined, it is placed on top of the group of cards on a new, differently colored card. This
exercise is repeated until all the groups of cards have been revised.

(f) When work with the groups of cards is completed, the outlier cards that were not initially classified
are reviewed again, to see if the idea is already in another group or if it is worthwhile including as a
separate theme.

(g) Once the themes are defined, there should be a list of selection criteria to apply to the market chains
of a given territory.

At this point it is useful to review all the criteria selected and decide on which are the most critical for the
decision making process, i.e. for action. We recommend a list of three to four criteria with easily
measurable indicators so as not to spend an excessive amount of time on the market chain selection
process. Once the criteria are selected, the group moves to identify indicators and measure each one.

**Using the criteria**

Based on the list of criteria identified, the group proceeds to define indicators for each. For example, if
one of our criteria is “potential impact”, we need to define how impact will be measured (persons,
families, communities, municipalities, etc.) and where the data will be sourced. If another of our criteria is
“profitability”, then decisions must be made on how to measure profitability, which data to use, and how
to compare profitability across products. The end product from this session will be a list of operational
criteria with their respective forms of measurement and data sources.

**Prioritizing criteria according to relative importance**

The next step is to prioritize the criteria and their indicators: Which is the most important criteria for us?
To evaluate this, the group should consider questions such as: Are market chains that involve more
producers of higher priority than those that are more profitable? Is it more important that the activity be
sustainable in environmental terms, or profitable? This step gives a specific weight to each criterion with
the purpose of enlarging the differences between the options and thus facilitating selection of market
chains. At the end of this process, the group should have arranged the criteria from the most to the least
important, with a weight or score assigned. For example, if there are four criteria, the most important
could have a weight of four points, the second of three, the third of two, the fourth a single point.

5.5 **Selection Tools**

Using the list of criteria with the indicators and sources of information, the final step is the construction of
a selection tool. This tool can take the form of a decision tree (see example 1 below) or a simple weighted
scoring matrix (see example 2 below). It is important that criteria are clear to all participants and that the
necessary supporting data is available to take decisions. Once the tool is established, it is applied to all
potential market chains in a territory to see which are the most important for a specific client group.
Example 1 – The Decision Tree of CIPASLA, Colombia

To facilitate selection of market chains, agendas of support organizations, and interests of community groups, the Rural Agro-industrial Committee (RAI) of the Consorcio Interinstitucional para una Agricultura Sostenible en Laderas (CIPASLA) developed the decision tree presented in Figure 5. The objective was to compare a “long list” of market chains with market opportunities, favorable conditions for production in the zone, and with some degree of interest or organization of producers. The development and implementation of the example presented in Figure 5 was a long process, as it required the agreement of four local NGOs, a governmental organization, and a producer association. The process was carried out in three 2-hour meetings and was useful for the members of the RAI.

Figure 5. Decision tree of the Rural Agro-industrial Committee (RAI) of the Consorcio Interinstitucional para una Agricultura Sostenible en Laderas (CIPASLA), Colombia.

<table>
<thead>
<tr>
<th>Market demand</th>
<th>Economic feasibility</th>
<th>Technical and environmental feasibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>High growth</td>
<td>High profit</td>
<td>Strong - 3</td>
</tr>
<tr>
<td>Medium growth</td>
<td>Medium profit</td>
<td>Strengthening - 2</td>
</tr>
<tr>
<td>Low growth</td>
<td>Low profit</td>
<td>Incipient - 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-existent - 0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Market demand</th>
<th>Economic feasibility</th>
<th>Technical and environmental feasibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>High growth</td>
<td>6</td>
<td>2.5</td>
</tr>
<tr>
<td>Medium growth</td>
<td>4</td>
<td>1.5</td>
</tr>
<tr>
<td>Low growth</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

This decision tool was applied using the following criteria and measurements: each option studied received a score out of the total possible of 21 points. The criteria and measurements used were:

Market demand

The growth of market demand is organized in three categories:

- High – annual growth in demand above 6%
- Medium – annual growth in demand between 3% and 5%
- Low – annual growth in demand between 0% and 2%

Note: In the case of CIPASLA, indicators on the level of growth of each product were taken from “Market studies for products of small-scale producer economy of the zone of the Cabuyal River micro-watershed”.

Following these criteria then, we have the following distribution of products:

<table>
<thead>
<tr>
<th>Growth</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>Mangos, blackberries, oranges, plantains</td>
</tr>
<tr>
<td>Medium</td>
<td><em>Lulos</em>, pineapples, lemons, potatoes, grapes, passionfruit, <em>chonto</em></td>
</tr>
<tr>
<td></td>
<td>tomatoes, capsicums, carrots, green beans, free-range chickens, milk products</td>
</tr>
<tr>
<td>Low</td>
<td>Tree tomatoes, broccoli, pears, soursop, cauliflower, Batavia lettuce, bananas, guavas, apples, <em>uchuvas</em> (<em>Physalis</em>), onions, melons, coconuts, avocados, passion fruit, dry beans, beetroot, spinach, green beans</td>
</tr>
</tbody>
</table>

**Technical and environmental feasibility**

The matrix is read in the following way:

<table>
<thead>
<tr>
<th>Feasibility</th>
<th>Highly feasible</th>
<th>Medium feasibility</th>
<th>Not feasible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical</td>
<td>++</td>
<td>++/-</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Production is feasible in the zone and does not present major technical nor managerial problems</td>
<td>Production is feasible in the zone, but presents limiting technical and managerial factors that require training and research solutions</td>
<td>Production is not technically feasible in the zone</td>
</tr>
<tr>
<td>Environmental</td>
<td>Production does not generate negative environmental impacts in the zone such as erosion, contamination, or deforestation</td>
<td>Production generates a negative environmental impact, but it is manageable with good production practices</td>
<td>Production generates a highly negative environmental impact with no known form of mitigation</td>
</tr>
</tbody>
</table>

**Economic feasibility**

Market chains are grouped according to three levels of profitability:

- **Highly profitability** – the product’s IRR is 6 points or more over the bank’s savings account interest rate.
- **Medium profitability** – the product’s IRR is between 1 and 5 points over the bank’s savings account interest rate.
- **Bank profitability** – the product’s IRR is equal to the bank’s savings account interest rate.

**Existing organization**

The level of business organization in each market chain is assessed using the following criteria:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Strong</th>
<th>Growing in strength</th>
<th>Incipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legal incorporation</td>
<td>Legal incorporation</td>
<td>Legal incorporation is in process or does not exist</td>
<td>No legal incorporation</td>
</tr>
<tr>
<td>Achievements</td>
<td>Sustained achievements over various years</td>
<td>Some recent achievements</td>
<td>No achievements as yet</td>
</tr>
<tr>
<td>Capacity for planning and carrying out actions</td>
<td>Internal processes functioning for planning and evaluation</td>
<td>Incipient processes of planning and evaluation</td>
<td>No processes of either planning or evaluation</td>
</tr>
<tr>
<td>Business practices</td>
<td>Effective accounting and administrative controls</td>
<td>Incipient accounting and administrative controls</td>
<td>No accounting and administrative controls</td>
</tr>
</tbody>
</table>

A **strong organization** fulfills all four criteria.

An organization **growing in strength** fulfills some, but not all, criteria.

An **incipient organization** fulfills none of the defined criteria.
Support agencies
Should consider an organization that is interested in associating with producers, traders, processors, retails in the process of strengthening the market chain.

Existence of the crop in the zone
The crop or product exists in the zone, and thus is known by local producers.

For each product identified with market options, and of interest to CIPASLA partner organizations or producers, relevant information was collected for each point above. Once the information was completed, possible points for each criterion were assigned, and total points generated for each product. To select the products for which to first elaborate strategies to increase competitiveness, scores were compared to identify those that best responded to the criteria of the RAI of CIPASLA.

Example 2 – Simple weighted scoring matrix
Another way to implement a decision-making process using the criteria identified is to use a weighted scoring matrix as shown in the following example.

<table>
<thead>
<tr>
<th>Selection criteria</th>
<th>Weight (W)</th>
<th>Product A Evaluation (1 to 10)</th>
<th>W * E</th>
<th>Product B Evaluation (1 to 10)</th>
<th>W * E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential positive impact on smallholders</td>
<td>25%</td>
<td>8</td>
<td>2.00</td>
<td>6</td>
<td>1.50</td>
</tr>
<tr>
<td>Potential employment generation in relation to total local employment</td>
<td>35%</td>
<td>6</td>
<td>2.10</td>
<td>4</td>
<td>1.40</td>
</tr>
<tr>
<td>Value added potential of the product</td>
<td>20%</td>
<td>6</td>
<td>1.20</td>
<td>6</td>
<td>1.20</td>
</tr>
<tr>
<td>Size of the market chain’s market</td>
<td>10%</td>
<td>8</td>
<td>0.80</td>
<td>10</td>
<td>1.00</td>
</tr>
<tr>
<td>Potential employment generation for vulnerable groups (women, youth)</td>
<td>10%</td>
<td>4</td>
<td>0.40</td>
<td>10</td>
<td>1.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
<td>32</td>
<td>6.50</td>
<td>36</td>
<td>6.10</td>
</tr>
</tbody>
</table>

This system attempted to combine a simple scoring system with the relative importance of the selected criteria to achieve an objective decision-making process. In this example, Product B had a higher overall score but when the weighted criteria are applied, Product A comes out highest.

This module has presented some criteria that have been useful for selecting market chains within a territory. The identification of prioritized market chains is the first step in the design of a strategy to increase market chain competitiveness. At the end of the exercise, instead of having many market chains to work with simultaneously, the facilitating organization or work group should have a few market chains selected according to their own selection criteria. Once the work menu is defined, the remaining steps of the methodology of strategies to increase competitiveness can begin to be developed.

5.6 Merits of a Pilot project to test the process
When this process was applied in Madagascar, the service provider, Catholic relief service, (CRS) led the process (see box 2). CRS is leading a major development project in 4 territories of Madagascar and before applying the agro-enterprise approach to a large project zone, the field teams and agricultural advisors at the management level wanted to test the methodology at a pilot level, during a short off-season. This use of a pilot project enabled the staff to gain experience in a 3-4 month period, observe the opportunities and limitations of the process and also find out what criteria farmers use to assess new crop options.

The rapid market survey questionnaire was developed with the Agro-enterprise team, the teams were able to conduct the survey with a range of sales points / market actors in a 10 day period, using 4 teams.

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survey focused on the major local market town of Ansirabe, and other local markets in the area. No information was collected on national or international markets. A CRS project officer led each team. The information was synthesized at a group meeting and results presented to farmers. The time frame for the development of the questionnaire was 3 days.

Considerable preparation time was spent in simplifying the questionnaire and translating it into Malagasy. The project officer focused on two questions in their questionnaire, (i) what do people buy most and (ii) what is scarce on the market. The concept of the “strategy” was not used. Because of a dearth of secondary data, little was collected.

The group developed the discard criteria, the first level of discard was based on whether the crop could be grown in the territory and this reduced products from 50 to 31. The next level of discard used their own 14-point criteria and this enabled them to reduce the number from 31 to 11 possibilities. The three matrices, production, marketing and financial analysis were then used to reduce the possibilities to six options. Farmers reviewed these options prior to planting.

The information required for the matrices was not all available and in some cases project staff added in criteria. Internal Rate of Return (IRR) and Net Present Value (NPV) were excluded from the financial matrix. Much financial data was unavailable. The information from the matrices was shared with the Agroenterprise group in plenary and they considered the information to be very useful, this information was thereafter discussed with the partner farmers groups. The results of the market selection were discussed with the farmers and it generated a lot of interest. All 6 options from the Market Opportunity Identification survey were tested by at least some farmers. Project staff found that the more progressive farmers who were on the main road wanted to try the more exotic ideas, whereas the poorer farmers in the remote areas were not keen to try any new ideas unless helped by the project. The major point here was that the marketing study, clearly encouraged innovations to take place.
Box 4
Selection criteria used for discardng options

<table>
<thead>
<tr>
<th>Selection criteria used for discarding options</th>
</tr>
</thead>
<tbody>
<tr>
<td>The selection criteria used by the CRS staff were in 6 categories, these were simple checklists, if a product failed in more than one category it was rejected. This was a rapid process that was completed by the field staff.</td>
</tr>
</tbody>
</table>

**Selection Criteria**

1. **Ease of production**
   - Is the crop grown in the territory?
   - Can the crop be grown in the territory?
   - Are people already growing this crop?
   - Is the crop grown in the off-season?
   - Does the crop need any special inputs, such as irrigation, pesticides, and fertilizer?
   - Can the product be produced in the off-season?

2. **Market demand**
   - Is there strong market demand?
   - Is demand based on season or festival? And does that fall into the intended production phase?
   - Is the demand for high volume or a niche market?
   - Are there many buyers or only 1?

3. **Financial cost of production**
   - Does the production required a high investment?
   - Is credit required for this production?

4. **Social**
   - Does the product have any special social significance, is the product subject to any taboos?

5. **Environment**
   - Does the production come with any hazards?

6. **Storage**
   - Is the product be stored and is the technology available for storage?
   - How long can the product be stored if market changes?
Module 6
Practical work Section 2
Planning and Executing a Rapid Market Survey

Guiding questions
1. What are the key steps in planning for a rapid market survey?
2. Why is secondary data important?
3. Why is it useful to have up to date market information for the market chain’s products before beginning the analysis?
4. What information is it useful to have about the product or products, the market, the rules of the game, and the buyers?
5. How can we generate reliable information on the market in a quick and efficient way?
6. What decisions can be made based on up to date market information, and what implications do these have for elaborating a strategy to increase competitiveness?

6.1 Introduction
The selection of one or several prioritized market chains using methodologies described in the previous module will enable the agro-enterprise team group to focus efforts in areas with good market potential and meet the interests of the facilitating organization and farmer group. The next step is to gather commercial information on the product and market chains identified, to identify buyers and to determine what ranges of quality are acceptable to the buyer.

To answer these and other queries, we recommend reviewing existing data on market tendencies and carrying out a rapid survey with known or potential buyers of the product. This phase of the method seeks to place the agro-enterprise design process on a firm footing with reliable market data, and at the same time to identify and get to know the actors in the market chain and the clients of the product or products. Likewise, this is a good opportunity to invite key market chain actors to participate in the analysis of the market chain and to assist in developing a strategy to increase competitiveness.

The following sections outline the steps in planning data gathering through secondary data mining and conducting a market survey, taking into account, the type of market, the skills of the team and the time and financial resource that are available.

As stated in the previous module there are many methods for market chain analysis, in this case the process places most emphasis on the producer groups, being actively involved in gathering the market data in a participatory manner. It should also be noted that this process was designed to evaluate a relatively small territory, i.e., at the community and district level scale. If you intend to undertake a rapid market assessment with a larger geographical area, such as a national sub-sector study, we recommend that you also consider the approaches in an alternative method developed by Holtzman, (1999).

6.2 Planning for the survey
A good survey needs to be well planned and have clear objectives. The group involved in the data gathering and survey need to discuss and resolve several issues in regard to the detail of information required, geographic scope of the survey, people to be involved, their roles and responsibilities. The following section outlines some aspects that the survey team should consider as part of this exercise.
1. **Formulate the survey team according to skills and size of the study**
   - The survey team should comprise different skills; ideally the survey should include representation from the service provider, research, accountancy and one or two representatives of the relevant farmer groups. Depending on the type of product selected, it is an advantage that one of the group members has some expertise in this area, i.e., a livestock specialist if the dairy sector is being evaluated.
   - Team size should be relative to the scope of the study. The team should consider how many surveys will be conducted, their locations and the logistics required to enable the survey team to get to these points in the market.
   - A budget should be developed which meets the needs of the survey team and provides resources to write up results in addition to the field time.
   - We recommend that teams of 2 or 3 people conduct market interviews. One person will ask questions and engage the interviewee, a second person will record notes and observe gaps in the information, a third person can monitor the process and keep time.

2. **Make sure the survey is focused on the selected market chain**
   - When formulating your plan avoid collecting information that is interesting but not relevant to the needs of the enterprise / client group.
   - Draw a theoretical map of your survey zone and market channels to be included in the survey and ensure that you will collect all the information you need to develop a business plan and later link up with particular actors in the market chain.
   - Find key informants to give you background information and insights to the most useful people to interview prior to setting out on the survey.

3. **Make a list of people to contact, use key informants as a guide**
   - As part of your theoretical map, include information sources and types of people that you will interview and the numbers of interviews that you plan to make at each point in the market chain. We recommend that 4-5 persons at one point in the chain are interviewed so that data can be crossed check, triangulated and confirmed with other market chain actors.
   - Use your key informant’s information to guide this process. A key informant is a person maybe (i) a leading agent in this market chain, (ii) an ex researcher who knows the sector, (iii) a retired schoolteacher who is familiar with the area. The key informant should act as your soundboard during the survey, a source of constructive criticism.

4. **Select sites / locations / industries to be visited and plan for follow up visits based on information from first meetings.**
   - Depending on the nature of the market chain being investigated, plan your visits, and be well prepared when visiting each interviewer. Do not go to an interview without having the purpose of the visit clearly in your mind.
   - Be observant, do the answers from the person fit the situation? Use local observation to color your interview.

5. **Design interview checklists and pretest**
   - Develop checklists that will guide you through an interview
   - Train your interviewers using pre-tests so that they are sure they will collect the right information
   - Adapt checklists, where needed to specific types of interviewee, e.g. a checklist for a processor is different from a checklist for a market retailer.
   - It is often useful to split the appraisal and checklists into two parts
     (i) Demand questions focused on urban and market outlets
     (ii) Supply chain questions focused on actors in the market chain often rurally located.
6. Collate information and write report
   - Select one person in the group who will collate data and be responsible for writing up results
   - The findings from the results should be reviewed by the team and debated

7. Use of results
   - The final report should be presented orally to the relevant farmers groups and agro-enterprise team.
   - A written document should outline the process, major findings and recommendations.
   - The document should also provide information on key informants or actors within the market chain who may be interested in participating in the design of a market chain competitiveness strategy.

6.3 Starting the market chain analysis

6.3.1 Collection of secondary data
As with any type of research or analysis the starting point in an investigation should be a serious review of existing information in regard to the product, how it is produced, and the markets for this particular product. Secondary information is extremely valuable as it is low cost, the work has been done by others and it usually only requires systematizing, therefore accessing good secondary data will save you considerable time and money. Gathering primary data is expensive and to reduce days in the field or to help focus primary data secondary data collection should be undertaken. Sources of secondary information include those listed below:

6.3.2 Sources of secondary information
   - Market information services
   - Consultancy Reports
   - Research institutions (CGIAR and others)
   - Chambers of Commerce
   - Trade Associations
   - Wholesalers
   - Internet
   - Development projects (NGOs)
   - Agri-business development centers
   - Press, specialized trade/commodity journals
   - Consultants
   - Export promotion boards
   - Internet

It is unfortunately the case, that many projects do not invest time into secondary data collection and often miss opportunities and waste resources because of this. In some cases this is due to incentives that only pay for fieldwork rather than data collection and analysis. We recommend that this aspect of the work be taken seriously as there is a lot of information available and by reviewing this information, many false trails will be avoided and good contacts may be revealed that will make the collection of primary data more effective.

6.4 Collection of primary market chain data, what detail and when?
In the context of this methodology, a “rapid market survey” should not be confused with a complete sub-sector marketing study; it is rather a short exercise to identify critical aspects in the flow of a particular

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commodity or product from the point(s) of production to the point(s) of sale. Specifically the market chain survey aims to gather information that will reveal new business opportunities or identify key bottlenecks in the market chain. This information is vital when moving to design the market chain strategy. The required information can be divided between data about the product, buyers, linkages between buyers and other specific observations defined by the agro-enterprise group prior to the survey. It is important to define the types of information required for making business along the market chain more dynamic, i.e., the data being gathered should focus on opportunities for business development.

In addition to providing marketing information, the survey will also enable farmer groups and service providers to identify key actors in the chain with the view of establishing new business options, and also to permit the identification of possible strategic partners within the design of the strategy to increase overall market chain competitiveness. Hence the market survey should not be considered as an end point, but as essential groundwork for the next steps and for gap filling during the design of the intervention strategy.

**Data about the clients**
The basic data needed about the clients are:
- Name
- Location (exact address, city, department, etc.)
- Contact information (telephone, fax, cellular phone, electronic mail, etc.)
- Type of client (i.e., position in the chain: trader, supermarket, restaurant, hotel, institution)
- What other products are bought

**Data about the product and the market chain**
- Commodity characteristics, (grades, types, varieties).
- Presentation of the product, (weight, packaging, etc.).
- Product volumes, (aggregate market size, individual buying conditions).
- Frequency and site of product delivery, (dates, periods, market site, on-farm).
- Consumption patterns, (seasonality, trends).
- Supply situation, Production, (demand, storage, trade flows).
- Product price and form of payment, Price paid, (cash, credit, for how many days)
- Price relationships, (Seasonal, cyclical, supply – demand)
- Actors in the chain, (Market channels, marketing arrangements)
- Marketing behavior, (Practices, vertical integration, market power).
- Legal requirements for selling product, (sanitary registration, bar codes, packaging, legalized invoices, etc.)
- Market infrastructure, (Roads, markets, communications).
- Government, (Regulation, marketing, price fixing).
- Global Trade, (World Market situation, tariffs, Sanitary and Phyto-sanitary regulations, Technical Barriers to Trade).
- Timing of the study, (Timing of study relative to market cycle).

### 6.5 Survey teams

The complexity of the survey and the requirements for interviewees vary according to the type of market being analyzed. If the study is focusing on sales in to a local, nearby market, then a small team of 2 or 3 people working for 2-3 days may be sufficient. If the market chain under analysis extends to several markets within a municipality, or several markets within a district, the size of the team and the number of days required to undertake the survey increases. In estimating the time required for the survey, it should be considered that excluding transportation, a standard interview might take 30 minutes to 1 hour. In some cases it may take 2 hours when an interviewee has many products to discuss, or is a key actor.

The composition of the team members will change according to market type, for a local market, the producers themselves, or secondary school or university students, can carry out the market survey, with limited training. However, as the market survey becomes more complex and requires analysis of large...
urban markets, far from where producers live, it is recommended to organize a mixed group of producers, extensionists, researchers, agents from the facilitating organization, and students to conduct the survey.

6.6 Checklists and summary sheets

The simplest way of performing a market survey is by means of a structured or semi-structured interview with actors in the market chain. Checklists for interviews should be designed beforehand and pre-tested by the facilitating organization. Training should be given to those persons involved in data collection i.e., producers, extensionists, students, or any other suitable group. As the market chain becomes more extended, the pre-testing of the checklist requires more attention.

The survey group should participate in the design of the survey instrument (checklist) and be involved in formulating questions to make sure they understand them. Once the survey instrument is designed, it should be tested with local actors to: (a) verify that the information sought is obtained; (b) identify possible gaps, and (c) ascertain that the survey can be carried out in a reasonable time. Logistics and costs of the survey can be based on the information gathering process at the pre-test phase.

Likewise, the forms that will be used for recording the data should be tested, and their ease of use verified. When the tools are ready, groups of researchers are formed to perform the survey, and each is assigned tasks. A sample checklist for a market chain analysis is given in Annex 3.

Selection of sites

The survey team should draw up a list of market sites and types of market chain actors for implementing the survey. To facilitate the process we recommend that the survey be initially divided into two aspects, (i) demand and (ii) supply. Possible sites in the demand and supply are indicated in Figure 8.

<table>
<thead>
<tr>
<th>Checklist 1</th>
<th>Checklist 2</th>
<th>Checklist 3</th>
<th>Checklist 4</th>
<th>Checklist 5</th>
<th>Checklist 6-10</th>
<th>Types of retailers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DEMAND</td>
<td>DEMAND</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>Retailers</td>
<td>Market stall holder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>Urban wholesalers</td>
<td>Street vendor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>Traveling traders</td>
<td>Kiosks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>Local market wholesaler</td>
<td>Small shops</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>Local traders</td>
<td>Supermarkets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Producers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of persons to be interviewed at each stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-5</td>
</tr>
</tbody>
</table>

6.6.1 Where to start a market chain analysis?

In our experience it is most effective to start the market survey at your designated end point, this point of sale should be considered as your demand point. The demand site depends upon the limitations of the work, whether that is local, district, or nationally based. At the demand end of the market survey, the survey teams should seek to find as much information as possible in where and how the product is sold, how the primary product is differentiated into different products, and how products are segmented for different types of clients.

These groups can be composed of a single person, or up to three or four persons. According to CIAT experience, groups of from two to four persons are best since it is difficult for a single person to interview and document answers at the same time, while large groups tend to intimidate those being interviewed.
Following the demand analysis, the survey team will follow the product down the supply chain, back to the point of production, in the selected territory. At each point in the chain the team will gather information on actors, product prices and most importantly opportunities and constraints at each point of transaction as understood by the actor at that point in the chain.

6.6.2 Guiding interviews to key informants

Identifying and interviewing a small but selected sample of “key informants” in a commodity market chain is a critical part of market survey. Key informants are defined as people who have extensive knowledge of a particular part of the market chain, they maybe a major player in the market or have extensive experience in their market position and can therefore provide sound insight into their function and give reliable information on costs, trends, problems and opportunities at their point in the market chain. To identify these people takes some investigative work but this can be done by working from the larger actors on the demand side of your market survey and asking who should be interviewed, based on their market share and number of years in the business; equally, a first question in a large market where it maybe difficult to assess people, is to ask for the most experienced person to interview.

Box 5
Some Practical Tips for conducting an interview

<table>
<thead>
<tr>
<th>Pre interview</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Be prepared with your checklist</td>
</tr>
<tr>
<td>- Have a notebook</td>
</tr>
<tr>
<td>- It is advisable to work in pairs (basing on knowledge &amp; expertise)</td>
</tr>
<tr>
<td>- Book an appointment and give a correct and convincing reason for visit</td>
</tr>
<tr>
<td>- Try to memorize the key issues to be asked</td>
</tr>
<tr>
<td>- Have ample background knowledge about the sub sector, so that you can discuss</td>
</tr>
<tr>
<td>- Use this interview to learn who to talk to next</td>
</tr>
<tr>
<td>During the interview</td>
</tr>
<tr>
<td>- Keep your interview to an agreed time</td>
</tr>
<tr>
<td>- Introduce yourself and the purpose of the visit and the institutions you</td>
</tr>
<tr>
<td>work for, use business cards and letter of introduction</td>
</tr>
<tr>
<td>- Ask open ended questions</td>
</tr>
<tr>
<td>- Avoid interrupting the host’s responses, switch off your phone, don’t talk</td>
</tr>
<tr>
<td>while s/he is talking, and always be polite.</td>
</tr>
<tr>
<td>- Engage the person, the more s/he learns from you, the more information s/he</td>
</tr>
<tr>
<td>will trade with you</td>
</tr>
<tr>
<td>- Be flexible and conscious of the hosts’ time</td>
</tr>
<tr>
<td>Post interview</td>
</tr>
<tr>
<td>- Maintain relations and deliver all you promise</td>
</tr>
<tr>
<td>- Pass on a copy of the study when completed</td>
</tr>
<tr>
<td>- Return all borrowed material</td>
</tr>
<tr>
<td>- Treat detailed material confidential if asked</td>
</tr>
<tr>
<td>- Maintain contact for future</td>
</tr>
</tbody>
</table>

6.6.3 Cross-referencing information

It is frequently stated that business people never tell the truth, so how is it possible to interview traders. Our experience is quite different, if you are well organized, have planned your survey well and can explain why you are doing the work, most business people are interested in helping, providing you keep to a strict timeframe and are engaged in your work. However, nobody tells the exact truth, you should expect to hear versions of the truth. In some rare occasions, you may be unfortunate enough to interview someone who gives you unreliable information. To offset these problems all answers need to be cross-checked against what the interviewee is doing, how they behave, what the team observes and what other informants say about the constraints and opportunities they identify. Cross-checking can be done by

(i) Interviewing several actors at one point in the market chain and comparing their responses,

(ii) Interviewing informants at different stages in the chain, questions that will verify previous results. If several people give the same information, it is usually good enough
(iii) Cross-checking price data against secondary data, to confirm validity.

Finally at the end of each interview, the team should ask for names of other credible people or other key informants to interview. We have found that key actors are well known in a particular market chain and you can be guided to them by asking people to assist you, we find this a most useful process.

6.6.4 Timing of the survey

Several research teams can carry out the survey in a single day, or a lesser number can do so over a longer period. Given that markets are not static, it is important to carry out the surveys in a timely fashion; within 1 to 2 weeks at most is best so that data captured can be easily compared. If the selected market is large, an urban center for example, the work should be divided amongst several groups of researchers. At the end of the day it is useful for the groups to meet to review results, compare notes and decide how to manage any difficulties and proceed on subsequent days. All the data should be written up at the end of each day and be handed over to one person who is responsible for documenting the process.

6.6.5 Use of alternative information types

If the actors hope to use the survey results to motivate changes in the form of production or product quality, it is useful in addition to qualitative and empirical data to gather graphic evidence of the visits to the market and the products, so that photographs or videos can be used for demonstration at a later date, and to facilitate the socializing of information with other market chain actors. Sometimes, being able to clearly show the differences between the quality of one product and another, or a new form of packaging, is enough to motivate a change in the market chain.

6.6.6 Beyond observation to identifying future partners

In addition to standard marketing data, one of the aims of the survey will be to identify whether any of the buyers in the chain would be interested in finding new suppliers of a product and whether s/he would be interested in participating in a more strategic long-term relations with groups of producers. One of the main objectives of the survey should be to identify actors in the chain with whom a commercial relation can be established. Therefore the marketing survey is a process that goes beyond simply establishing whether “market demand exists” and how products flow, to identifying people with whom the client group and service providers can later negotiate.

When the survey team finds an actor(s) in the chain that express reservations about working with small-scale producers it is important that the group perseveres to find other buyers who are more amenable to the process. To assist in the process of follow up activities, the survey team can record details of each interview onto a summary sheet at the end of each day. A summary sheet for interview evaluation and follow up is given in Annex 4. This sheet has been used to good effect in other surveys, it enables the enterprise team to rapidly review results some days after the event, with a view to making specific contacts for linkage into the design strategy.

6.7 Documenting Results

Once the survey is complete, results should be analyzed and written up as soon as possible. There are many ways of documenting and systematizing survey results, however, it is important to choose a format that permits a useful comparison of information, and that makes sense to the participants. Information to be included in the format can include:

- Name of the company or client
- Location and contact information
- Quantity of the product bought by day, week, month, or year
- Means of delivery of the product (with or without processing) and required packaging (bag, basket, tray, etc.)
- Present source of the product being bought and present suppliers
- Prices and form of payment
- Special requirements (health registration, bar codes, etc.)
- Possibility selling to this client
In the case of market chains that include multiple products, it is useful to generate a table for each product. For example, when gathering information for a dairy market chain, there will be multiple products and therefore interviews will be needed with buyers for fresh milk, pasteurized milk, cheese, yogurt and other sub-products. Each specific product has different characteristics that are important to identify and document. Table 5 presents an example format that has been used in the past for this type of survey.

6.7.1 Responsibility for writing up the results

At the outset of the survey, one person should be designated to collate the information from the interview teams and be responsible for writing up the final report. This person should develop an outline of the final report before the survey begins, detailing what information will be required to fill the report effectively. The analyst and writing position is crucial to the success of the survey and therefore the groups should select someone who has a track record in writing good reports, has time to fulfill this task within a 2-3 week period form the end of the survey. Most importantly, this person should agree to the task and be remunerated accordingly. In some cases this person may already by a hired member of the service provider or maybe an outside contractor.

**Results from the analysis for the enterprise development stage**
- Identified market opportunities for an enterprise
- Key constraints in the market chain
- Technology requirements to enter a specific markets
- Promising partners in the market chain, or in research that may be able to assist in developing an idea to a pilot stage.
- Names of potential business partners that may want to test a new product.

**Essential results from the demand side of the market chain analysis**
- Identify the major products and market chains
- Provide figures on the size of these markets, and a figure of the total market demand for the product in question.
- At the product level, information is required on price, volume, trends, quality criteria, uses as well as potential uses.
- The results should prioritize products in terms of where the enterprise can increase sales, increase product value, volume of trade i.e., how to be more competitive.
- The process of demand analysis should record the names of traders, buyers and processors, so that any future intervention can be developed in partnership with these actors after the analysis of the results have been made.

**Essential results from the supply side of the market chain analysis**
- A map of the zone being analyzed with major production zones, of the selected commodity.
- For a commodity, the study should provide information on seasonality of production
- Trend information on prices of the target raw commodity and if possible for processed products derived from the raw material, i.e., cassava roots, cassava chips, cassava flour, cassava starch, etc….
- Marketing costs along the market chain, showing costs paid by and to the intermediaries from the farmer to the consumer. This information should include margins along the chain.
- Flows of the commodity through the main supply chains, coming from the major areas of production
### Table 7. Results of a rapid market survey for panela (unrefined sugar).

<table>
<thead>
<tr>
<th>Company</th>
<th>City</th>
<th>Weekly Quantity* (arrobas)*</th>
<th>Form</th>
<th>Packaging</th>
<th>Source</th>
<th>Suppliers</th>
<th>Price (pesos)</th>
<th>Payment</th>
<th>Requirements</th>
<th>Possibilities of sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olímpica</td>
<td>B/ventura</td>
<td>25 15 10 10</td>
<td>Round</td>
<td>Bag/24 pkt</td>
<td>Candelaria</td>
<td>Caña Dulce – extra Caña Dulce – corriente</td>
<td>10,800 9,900</td>
<td>10 days</td>
<td>Label of panela source, Codification in Cali</td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Olímpica Estrella Buen Gusto 400 gr</td>
<td>8,900 10,400 18,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distrib. Casa Blanca</td>
<td>B/ventura</td>
<td>40</td>
<td>Round</td>
<td>Bag/24 pkt</td>
<td>Palmira</td>
<td>Palestina Estrella</td>
<td>11,000 10,000</td>
<td>15 days</td>
<td>Sanitary registration, packaging does not matter</td>
<td>Good</td>
</tr>
<tr>
<td>Merka Mar</td>
<td>B/ventura</td>
<td>80 80</td>
<td>Round</td>
<td>Bag/24 pkt</td>
<td>Candelaria</td>
<td>Palestina Palestina</td>
<td>9,800 11,000</td>
<td>30 days</td>
<td></td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 units</td>
<td>Candelaria</td>
<td>Palestina Estrella Buen Gusto 400 gr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>La 14</td>
<td>B/ventura</td>
<td>n.d.</td>
<td>Round</td>
<td>2 units</td>
<td>Candelaria</td>
<td>Palestina Estrella</td>
<td>n.d.</td>
<td>30 days</td>
<td>Depends on Cali, the codification is through Cali</td>
<td>None</td>
</tr>
<tr>
<td>Olímpica</td>
<td>Buga</td>
<td>n.d.</td>
<td>Powdered</td>
<td>2 units</td>
<td>Candelaria</td>
<td>Palesta 500 gr Buen Gusto 400 gr</td>
<td>32,149 41,860 34,890</td>
<td>30 days</td>
<td></td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Powdered</td>
<td>2 units</td>
<td></td>
<td>Olímpica AA</td>
<td>19,870 20,540 24,312</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Powdered</td>
<td>2 units</td>
<td></td>
<td>Triangulo Lucerna</td>
<td>21,767 28,130 25,898</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Powdered</td>
<td>2 units</td>
<td></td>
<td>Palestina Palestina</td>
<td>24,112 30,363 28,130</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Powdered</td>
<td>2 units</td>
<td></td>
<td>Lucerna</td>
<td>28,130 30,363 25,898</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Source: Corporación para el Desarrollo de Tunía (CORPOTUNÍA; 2000).

*1 arroba = 25 lbs.
6.8 Using Results

The results of a rapid market survey are useful in various ways. First, the results give an indication of the types of product(s) in demand and information on volumes and prices of produce entering the market; this information is important, to know how much of the product the market is presently absorbing and at what price (a rough proxy for product demand). The survey results will also provide a clearer idea on product delivery and the form of payment presently used. Based on this information, the differences between the quality of our product or its packaging and existing market norms can be identified. Also, it is possible to revise the mechanisms of payment managed by the clients, analyze which is the most favorable for the market chain’s producers, and what would be the implications of beginning negotiations with different types of buyers.

Second, the survey should provide initial ideas on opportunities and constraints in the system and areas of inefficiency or excess rents in the market chain. These aspects of the study highlight areas for innovation. Finally, the survey will also provide a list of contacts of people in the market chain that have expressed an interest in further participation in developing the enterprise strategy. This is essential, as it is these actors who will be crucial in bringing together and participating in new agro-enterprise initiatives that feed into the market chain concept.

Based on the survey, clients can be classified according to the possibility of selling to them or their strategic value for the market chain. Some useful criteria in this exercise can be the volume that each client manages, the segment s/he attends, the use s/he gives to the product, the price s/he pays or is prepared to pay, and disposition (or not) to establish strategic relations with other members of the market chain. At this time, it is important to make sure that information generated covers the market(s) in which we hope to work.

Finalizing the process of information and market contacts, the organization or facilitating group should have clear:

- Who the clients of the market chain’s product(s) are.
- Where they are located and how to contact them.
- The rules of the game that govern the market and its most important segments.
- The quality requirements for diverse market segments.
- Which of the clients should participate, directly or indirectly, in the design of a strategy to increase competitiveness.

6.9 Feeding back results

The team leader, or lead writer should prepare written and oral / power point presentations. The results should be circulated in the group and be fully understood by the farmer groups. Hence the presentation need to be well rehearsed and provide the most important details of the study, i.e., essential information, that has been mentioned but also what this means in terms of potential application as related to the:

✓ Enterprise / market opportunities.
✓ Research, development and service provider innovation opportunities.
✓ Local administration and policy development opportunities

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20 A good evaluation of the requirements and rules of the game that reign in different segments of the market is useful. At times a “good” market turns out to be not so good when these factors are analyzed. A concrete case is the supermarkets that tend to extend payments to their suppliers for 30 days or more, and at the same time discount money for product not sold. At the outset, their prices and volumes are favorable, but it may not be the most profitable segment for small-scale producers.

21 If clients exist that use the product in different forms (for example, the extraction of essential oils from aromatic plants) it is important to take them into account. Sometimes these non-traditional businesses have greater possibilities of growth and demand for strategic relations than the traditional channels. Furthermore, because of being relatively new, there is possibly less competition in these segments.
In the reporting stage it is highly recommended to include several of the market chain’s key producers or processors since these actors are in a good position to evaluate the results, give a reality check where needed and assist in diffusing survey results to their neighbors and acquaintances, and thus firmly establish bases for later changes in the technology or product.

In this module, we reviewed the principal reasons for carrying out a rapid market survey if we do not have access to up to date data on the products and markets with which to work. A short list of the key data to collect regarding clients, product characteristics, form of payment and other strategic themes was discussed. Finally, some simple methods, forms of documenting the results, and their usefulness for a strategy to increase competitiveness were mentioned. In the next module, we will proceed to identify the key actors and design strategies to convene them for the strategy’s elaboration.
Module 7
Identification of Key “Actors” in the Market chain and steps for convening them

Guiding questions
1. Who are the key actors in the market chain that should be consulted for their point of view?
2. Are there important differences between actors that participate in the same link of the market chain? What are they? Why do they exist?
3. Why is it useful to differentiate the actors along the market chain? What are some advantages or disadvantages of doing this?
4. Which actors have the capacity to lead processes of innovation in the market chain? Which factors are important for promoting lasting changes in the market chain?

7.1 Introduction

7.2 Identification of Actors

Up to this point in the practical section of the guide we have covered two steps which contribute towards our aim of developing a strategy to increase market chain competitiveness: (i) selecting the market chain in which to work and (ii) executing a market survey. In this module, we will cover the final step of preparation prior to developing the market chain strategy. Having undertaken a rapid market survey, the group will have made contact with numerous actors in the market chain. This section provides methods to identify key actors in the market chain, a strategy for convening them, and the organization of workshops for the development of the new market chain strategy. At the end of this module, the facilitating organization will be ready to convene the participants and design a participative analysis of the selected market chain.

The identification of key actors in a market chain has two basic steps: (1) an analysis of functional categories within the market chain, and (2) an analysis within each functional category. The first step seeks to collate the market chain’s general participants by functional category (production, post harvest management, processing, marketing, provision of business development services), locate them geographically, and obtain some data about them. Results from this step include a list of actors (people,
groups, companies, etc.) by function. Based on this information, each functional category is reviewed to assess if we can deal with all actors as single group or if they should be further divided based on social, gender, economic, geographic, technological or other criteria. The differentiation of the actors constitutes the second step for their identification.
Identification of the market chain’s actors by functional category

The identification of actors by functional category is based on Figure 5 (from Module 2), repeated here.

Figure 5. Wider perspective of a market chain.

![Diagram of market chain]

Actors are grouped by the following functions:

- **Production** – actors whose functions are directly related to basic agricultural production, including input provision, for elaborating the market chain’s product(s). This category can include pre-production, production, harvest, or extractive activities.

- **Post harvest and processing** – actors whose functions are directly related to post harvest management (cleaning, sorting, packaging) or processing of basic goods into value added products (for example, processing milk into cheese, sugarcane into panela, or other types of processing). These activities may be in the hands of individual actors or rural or urban companies, within or outside the territory.

- **Trading** – actors whose functions are related to the buying and selling of the market chain’s product(s). In general, these actors move the product from the territory to the end markets (as traders), but wholesalers located in urban centers can also be included. Various marketing actors can be involved depending on the geographic extension of the market chain under analysis.

- **Providers of business development services** – individual actors, organizations, or companies that offer business development services to the market chain. The services offered by these actors can be tangible (transport, machinery, storage, among others) or intangible (technical assistance, training, etc.), and formal (NGOs, state agencies, companies, etc.) or informal (transporters, local traders, other farmers, etc.)

In operational terms, actors can be identified through brainstorming with a small group that knows the market chain. At this point, an exhaustive list of the actors is not needed, but rather an idea of key actors for each functional category. If the participants do not have much information on some functional categories, then interviews may be necessary to generate reliable data about the actors in this part of the market chain. However, much of this information will have been collected in the market survey work.

At the end of this process, results can be documented in a table such as Table 8.

Table 8. Actors identified by functional category in the market chain.

<table>
<thead>
<tr>
<th>Function in the market chain</th>
<th>Production</th>
<th>Post harvest and processing</th>
<th>Marketing</th>
<th>Business development services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actor 1</td>
<td>Actor 1</td>
<td>Actor 1</td>
<td>Actor 1</td>
<td>Actor 1</td>
</tr>
<tr>
<td>Actor 2</td>
<td>Actor 2</td>
<td>Actor 2</td>
<td>Actor 2</td>
<td>Actor 2</td>
</tr>
<tr>
<td>Actor 3, etc.</td>
<td>Actor 3, etc.</td>
<td>Actor 3, etc.</td>
<td>Actor 3, etc.</td>
<td>Actor 3, etc.</td>
</tr>
</tbody>
</table>
7.3 Differentiation of Actors within the Market chain

Once a list of actors by function has been generated, the differences between them are examined. The framework of analysis here is the functional categories, which are assessed one at a time. Within each functional category, actors are reviewed to see if there is sufficient variance among them to merit differentiating them into sub-categories. Some criteria for differentiation include:

- *Technology* – are there important differences between the technologies used by different actors within the functional category? Examples of these differences are production or processing technologies that vary from the rudimentary to the modern. If we group actors by technology used, do diverse groups emerge?

- *Geographic location* – are the actors grouped in a single site or spread among several? What implications does location have? Are there producers with better land than others? How does access to markets or business development services vary? Are the problems or opportunities sufficiently different in each site to merit a disaggregated analysis?

- *Access to capital*\(^{22}\) - Is there important differentiation in terms of access to capital? Are there some who have better or worse access to productive resources? An analysis of access to capital could be useful for grouping actors in each functional category.

- *Capacity to innovate* – Do certain groups of actors along the market chain have more or less capacity to innovate? Who are they? What are their motivations to innovate in the market chain? In some cases, the clients promote innovation through changing product standards, but in other cases the agro-enterprises processing the product want to improve their market position through the development of new products.

At the end of this process, actors in each functional category are differentiated based on a set of criteria developed by the group and a decision is made on which groups should participate in the design of the strategy to increase competitiveness. Table 9 shows one way to systematize these data.

**Table 9. Differentiation of actors in the functional category of production.**

<table>
<thead>
<tr>
<th>Principal production orientation</th>
<th>Geographic location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zone A</td>
</tr>
<tr>
<td>Commercial</td>
<td>6 producers</td>
</tr>
<tr>
<td>Semi-commercial</td>
<td>5 producers</td>
</tr>
<tr>
<td>Subsistence</td>
<td>10 producers</td>
</tr>
</tbody>
</table>

If more than two criteria are used, a name is defined for each group of characteristics. For example, a small-scale subsistence producer can be one that is (a) located in hillsides, (b) has traditional technology, and (c) has limited access to production assets. The facilitating organization defines appropriate local criteria for differentiating actors.

For each actor typology identified, a brief description with the most salient points can be prepared including the number of actors in this category, their social, ethnic or gender characteristics, their leadership in the market chain, their capacity to assume risks and innovate or other relevant criteria as show in Box 6.

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\(^{22}\) Capital refers to tangible active products such as land, tools, or money, and intangibles such as access to support networks.
**Box 6**

*Example of an actor typology from Santa Cruz de Turrialba, Costa Rica*

This example identifies and describes three types of traders active in one dairy market chain in Costa Rica. For each typology an easily recognizable name was selected and the salient details noted as follows.

<table>
<thead>
<tr>
<th>Group 1 – 5 or 6 traders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tigers</strong></td>
</tr>
<tr>
<td>Largest, most established traders focused on pasteurized cheese for formal, urban markets</td>
</tr>
<tr>
<td><strong>Group 2 – 25 traders</strong></td>
</tr>
<tr>
<td><strong>Road runners</strong></td>
</tr>
<tr>
<td>Mid-sized traders who sell pasteurized and non-pasteurized cheese to informal local and urban markets</td>
</tr>
<tr>
<td><strong>Group 3 – 11 producer / traders</strong></td>
</tr>
<tr>
<td><strong>Jack of all trades</strong></td>
</tr>
<tr>
<td>Not true traders but producers who sell their own non-pasteurized products to selected local markets</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

The objective of this exercise is not to complicate the selection process of participants, but rather to verify that groups representative of the all market chain functions will be included in the design phase. The main justification for this is to assure that we will receive the most complete view possible of the market chain. If, for example, we only include processors using modern technology, the identified problems and support options will be adequate for them, but not for the other processors that use more rudimentary technology. The same occurs with the geographic location of the market chain actors; hillside producers, for example, commonly face different problems than do low land producers. Indeed there are probably differences between the hillside areas located at different altitudes. What is important is to assure that all groups expected to participate in market chain analysis and in the final strategy are identified and included to correctly identify limitations and construct adequate solutions for their diverse conditions.

### 7.4 Convening the Actors

Once a market chain’s actors have been identified and analyzed, representatives from each group are selected to participate in designing the strategy to increase market competitiveness. It is neither necessary
nor desirable to convene all of the actors, but rather to choose a subgroup of strategic actors for this process. The definition of strategic depends on the objectives of the strategy; if we are seeking to improve the links of small-scale hillside producers with an intermediate urban market, and finally with various export companies, then strategic actors should be selected from each of these groups.

For the selection of these actors, two general criteria have been useful: (1) interest in participating, and (2) capacity to improve the market chain. The second criteria is important since it leads us to analyze which of the actors can influence the market chain most rapidly. This means including powerful actors, sometimes known as market chain “captains” in the exercise. These persons and companies exercise diverse forms of influence on the market chain. For example, a producer or group of producers that has experience in developing innovative production technologies can have quite a lot of influence on how production occurs. In a similar fashion, a processing company that is interested in new forms of product presentation, developing new products for the market, or entering an alliance with producers can have great influence. The final buyers of the product have purchasing power, and if they participate, they can facilitate rapid and lasting changes in the relations between other actors. Finally, the support organization(s) (including the one that facilitates the market chain analysis) has negotiating power with the diverse actors. Often, this power is used to negotiate better terms of exchange between the different actors, and at the same time verify that all are complying with what was agreed on. In this sense, all of the identified actors are reviewed and the most appropriate selected for the exercise.

7.4.1 An observation on numbers
A common error in a design process is to attempt to involve everyone. Provided that good representation of the different actors exists, there is no benefit in having a larger number of participants. In practice, producers are the most numerous participants, followed by processors and support organizations. The group that least participates in workshops, but not in the implementation of the strategy, tends to be traders or buyers. Provided that there is adequate representation for each group of people who know the market chain, the total number of participants should not be a cause for concern.

7.5 Organizing Workshops
Workshops with identified actors for mapping the market chain, identification, and analysis of problems and of final negotiation are the principal form of obtaining information, discussing difficulties, seeking possible solutions, and achieving agreements among the actors. Therefore, the adequate organization of these spaces in terms of sites and times is important. Within the workshops, main factors to keep in mind are: explaining the process of elaborating a strategy to increase competitiveness, the site and the time needed for each workshop and for the whole process, the expected results and benefits, and the use of the results. Each factor is described below.

Selection of an adequate site
The elaboration of the strategy to increase competitiveness requires various spaces for group work, plus a central site where all participants can be brought together. Depending on the number of participants, these spaces may be at one site, or different rooms or corners of a large room. The following steps of the method explain when to do group work and when to hold plenary sessions. If separate sites are used for different actors, we recommend that they be close by so as to facilitate plenary sessions.

Scheduling
The methods described in this guide require time. It is important to clarify with the participants how much time is needed, and how much time they are prepared to invest; also, it is important to organize the workshops so that they adapt to the time the participants have available, which in practice, may imply working in the afternoon or night or over weekends.

The process
At the start of the first workshop or informative meeting, it is important to explain to participants why increased competitiveness is important, how the process will function, who will participate at what times, and the expected results and benefits. This can be done using a flipchart or other communication
technique. Highlighting that this process seeks synergies among actors is important to clarify that the process does not intend to exclude actors, but rather to improve the overall functioning of the market chain.

**Presentation of participants**
Once the process is clarified, we recommend a round of presentations to provide background on the roles and experience of the actors present. There are many ways of doing this, such as choosing a method that promotes contacts along the market chain, for example, traders present producers, processors present support organizations and then vice versa. The idea is to show to the group who the participants are, their role in the market chain and what their expectations or interests are in the process.

**Expected outputs**
At the start, it is a good idea to explain the expected outputs of the process. Generally, these results seek to increase the market chain’s competitiveness, but it may be that the facilitating organization wishes to highlight additional benefits for the market chain actors; for example, explaining to those that offer business development services that the results can be used to present funding proposals to improve the market chain, or to the traders that results will include shared quality criteria along the market chain.

**Use of results**
From the start it is necessary to make clear that the results of this process will be shared among the participants, may form part of future projects, and are the basis for negotiation at the end of the process. If there are any concerns in this regard, it is good to clarify them at this time or achieve specific agreements about the use of the information. At the end of each stage of the process, systematized results should be shared with all participants in a timely fashion.

**Ownership of results**
Given that most of the information comes from the market chain actors, their contributions must be recognized in whatever document or presentation comes out of the process. We recommend listing the names of the chain actors who have participated in each workshop on the first page of the following report not only to give credit where it is due but also as way to build ownership of the process. The facilitating organization should be recognized for its work, but it must be remembered that the real owners of the information are the market chain actors themselves.

**Time line for workshops**
Developing a strategy to increase competitiveness usually requires four 6-hour workshops, and which can be organized over 3 or 4 months, depending on the availability of the actors. These workshops cover

(i) Market chain analysis,
(ii) Identification of limiting factors,
(iii) Proposed solutions to these limiting factors, and
(iv) Negotiation among the market chain actors for the final strategy.

The information in Table 8 shows a time line used by an NGO in Colombia. However, under different circumstances and at different levels of intervention, these timeframes can change. In Madagascar, which initially developed the process within a pilot project, all four workshop exercises, for 6 market chains, focused in at a district level of intervention, were completed within one 3 day residential meeting. Leaving time between meetings has certain benefits in that it allows a wider diffusion of results and opportunities for informal discussions among participants that may facilitate the later process of negotiation.

Therefore, the service provider needs to adapt this methodology to the situation, based on available resource of time and money.
Table 10. **Time line of design workshops for a strategy to increase competitiveness.**

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Contents</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>- Presentation of the process and expected outcomes</td>
<td>- Map of the market chain</td>
</tr>
<tr>
<td></td>
<td>- Presentation of participants</td>
<td>- Historic graphic of activities of support and innovation in the market chain</td>
</tr>
<tr>
<td></td>
<td>- Mapping the market chain</td>
<td>- Supply, demand, and quality of business development services</td>
</tr>
<tr>
<td></td>
<td>- History of the market chain</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Business development services</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>- Identification of critical points by functional category</td>
<td>- Problem trees for each functional category</td>
</tr>
<tr>
<td></td>
<td>- Analysis of causes and effects of the critical points</td>
<td>- General problem tree for the market chain</td>
</tr>
<tr>
<td>3</td>
<td>- Identification of possible solutions</td>
<td>- Solution tree for the market chain</td>
</tr>
<tr>
<td></td>
<td>- Generation of a provisional logical path</td>
<td>- Provisional logical path for discussion</td>
</tr>
<tr>
<td>4</td>
<td>- Negotiation among market chain actors</td>
<td>- Agreements among actors for the market chain improvement</td>
</tr>
<tr>
<td></td>
<td>- Definition of the final strategy to increase competitiveness</td>
<td>- Inputs for the strategy to increase competitiveness</td>
</tr>
</tbody>
</table>

7.6 **Sources of market chain information**

As we enter into the design phase, the sources of primary information on the market chain will tend to be from the actors themselves. This information may be limited as some market chain actors, i.e., traders, will not be able to fully participate in the workshops because of their business activities or interests. This is where the previous market information gathered through the market survey work is critical. Furthermore, for the service provider, having undertaken the market survey, this places them in a well-informed position to play the honest broker in the design and negotiating phases.

If additional information is required from key market actors in the next step, the facilitating organization should think of other ways of collecting their points of view. Some techniques that have been of use by CIAT include: interviews (semi-structured and structured), visits, and focus groups. The participation of all strategic actors in the final negotiation sessions is critical as this is where actions to improve the market chain are negotiated and defined.

As well as primary information from market chain actors, secondary information contained in reports, books, or other available documents about the market chain is useful. In the case of secondary information, it is important to share and validate this information with participants in the workshops.

By the end of this module, the facilitating organization will have identified market chain actors by functional category, ascertained if it is necessary to differentiate among sub-groups in each functional category, selected strategic actors for strategy design, and organized the details of the workshops. The next module explains the first step of market chain analysis: the mapping of the market chain.
Module 8
Participatory Market chain Analysis

Guiding questions
1. What are some important criteria for analyzing complex systems such as market chains?
2. Why can it be useful to divide market chain actors into differentiated groups to analyze the system?
3. What are some techniques that permit us to generate a common language and understanding around the market chain? What are the advantages and disadvantages of the use of participative tools to this end?
4. What can we better understand by mapping the market chain, and what not? Is there additional information that is difficult to capture in this way? Why?
5. Why is understanding the business development services offered along the market chain important? What important information can we collect in this area?
6. What can we learn by carrying out a historic analysis of market chain development over the last few years? When might this be useful and when not? When is an extensive and formal revision necessary, and when is a rapid analysis sufficient?

8.1 Introduction
At this stage of the method, potential market chains were reviewed and one selected, existing market data organized and complemented and a group of strategic market chain actors selected and convened. This module explains how to begin the analysis of the market chain by forming working groups and the application of some tools: the mapping of the market chain, identification of business development services offered, and the construction of a brief history of the market chain. Each tool is explained in detail in the following pages. Prior to beginning market chain analysis, criteria for the analysis of complex systems should be reviewed and appropriate working groups formed.

8.2 Criteria for the Analysis of Complex Systems
The method described in this field guide engages diverse actors along the market chain. Given that each group of actors plays a distinct role in the system, they tend to have different points of view about the limiting factors and opportunities that affect the market chain. This diversity is positive, since a market chain is a complex system where actors know their part of the system well, but do not necessarily comprehend other aspects of the overall picture. The effective analysis of complex systems requires the application of some simple criteria.

Listen to everyone
Given the diversity of roles along the market chain, actors have different points of view. The producers know a lot about what happens on the farms (production difficulties, pests, varieties, yields, etc.), but progressively less as the product leaves their community or goes into marketing, trading and other processes. Actors who are concerned with post harvest processes, equally, know a lot about this theme, but know less about production or marketing. And so it follows with the actors involved in marketing the
product(s) of the market chain; they may have general knowledge about the entire market chain but possess more complete and profound information about the aspects that directly concern them. Finally, support actors ought to be knowledgeable, in theory, about the entire market chain. However, in practice, it is common to find that they also have specific focuses according to their objectives or capacities.23

To overcome the compartmentalization of information requires listening attentively to the voices of diverse actors along the market chain. All have valuable information about their particular activities and can contribute general data about the whole system. However, no one, including the technical actors, is knowledgeable about the market chain in its entirety.

**Triangulate the data**

If it is accepted that all the actors are partly correct, then a process of triangulation is useful to understand the larger picture of the market chain. What is triangulation? It can be understood as a relation between three or more persons who are examining something in particular. Each one can see a part of the object, but not the whole. If we ask them to draw the object, we get three points of view that need to be combined into a full picture of the object. Each one sees the system from their perspective, and therefore can describe what they see or experience, but is partially blind to the realities of the other actors. To have a more complete picture, all the points of view must be combined—or triangulated—as shown in Figure 9.

![Figure 9. Triangulation of data.](image)

In practice, triangulation implies combining and contrasting data from various viewpoints. It is common to find that actors describe issues that, under revision, turn out to refer to aspects of the same problem. For example, producers tend to talk of low prices for their products, while processors and traders talk of the problems of quality and continuous supply. All are describing the same problem (lack of information on what to produce, when and how) from their own points of view. When data from diverse actors is compared and contrasted relationships become clear and solutions that benefit the market chain as a system, and not a specific group of actors are more evident.

**Manage power relationships**

In a complex system with multiple actors it is common to find unequal power relationships. Some feel comfortable talking to outsiders whereas others will not speak more than necessary. Likewise, some actors have formal education, or economic resources, etc. The diverse implications of power in

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23 For example, many NGOs have an explicit focus towards specific populations (small-scale producers, rural women, youth, indigenous, etc.) or one or other link of the market chain (technical assistance or credit in production, access to transformation technology or storage of the product for marketing). The same occurs with informal support actors. The valuable thing about these actors is their profound knowledge of certain aspects of the market chain, and their capacities to support it in some way.
relationships can fill multiple sociological studies, but is also important for a strategy to increase competitiveness.

In market chain analysis, technicians and people with a certain degree of formal or informal education speak easily from the start. While these actors may have valuable knowledge to share, they tend to dominate the scene, obscuring the others (persons with little or no education, youth, women, ethnic minorities, etc.). As a result, only part of market chain reality is heard. How do we manage these power relations to ensure more equitable participation among diverse market chain actors?

While many methods exist, experience has shown that the formation of separate groups to map the market chain, analyze business development services, and review market chain history is useful. Separate groups develop different points of view that can be heard more clearly, and with these diverse views, the final strategy to increase competitiveness will be more complete and firmly grounded. This practice implies separating producers, processors, traders, and those offering business development services into different groups. In addition, if there are important sub-groups within each functional category (as previously identified in Module 7) it may be necessary for them to work separately. This is especially important if the strategy focuses on a specific population group (small-scale producers with certain characteristics, groups of women, old or young people, ethnic minorities, etc.), since the problems and solutions analyzed, should correspond to the focal group and not to other actors in the market chain.

8.3 Formation of Working Groups

Initial working groups are formed based on the functional categories in the market chain. Those who are involved in production are grouped, the same as those involved in post harvest management or processing, marketing, and business development services. Once grouped, a decision is made whether the organization of subgroups to capture diverse geographic, social, technological, class, ethnic, age or gender viewpoints is needed. These decisions can be discussed with participants so that all are clear about the different groups and their objectives. Figure 10 shows this process.

Once the working groups are formed, the exercises are explained. When everyone is clear about what to do, each group should work separately on the exercises without the intervention of the other actors. This process is much easier if all the work locations are in the same zone.

**Figure 10. Process of forming working groups.**
8.4 Tools
The tools used for market chain analysis include:

(i) Market chain mapping,
(ii) Identification of business development services offered, and
(iii) Market chain history.

The most important of these are mapping and the identification of supply and demand for business development services. The review of market chain development is an optional step that provides useful information for analysis. On the following pages, the objective of each tool, time required for its use, necessary materials, steps, facilitating questions, and examples are provided.

8.5 Mapping the market chain

Objective
Visualize product flows, business development services, and inputs along the market chain, from primary production to sale to wholesalers, from diverse points of view.

Time
About three hours in total. One hour for the elaboration of the maps by each group, one hour for the socialization and construction of a consolidated map, and one hour for identifying and filling gaps in the information.

Materials
This exercise can be carried out using flipcharts and markers, blackboards and chalk, or even on the floor with local materials. What is important is to describe the flow of the product in such a way that all the actors can see and discuss it.

Process
Divide the groups by the functional categories of the market chain and ask them to draw the market chain, as they know it. To begin the visualization, it is a good idea to identify the actors and place them spatially (in their community or city) by functional category. As the process advances, other questions are asked that provide additional details. These details are then added to the basic market chain drawn at the start (see below). This exercise could take between 45 and 60 minutes. At the end, each group explains its vision of the market chain in plenary, and a more complete vision is completed drawing on all viewpoints. The facilitator of the exercise is responsible for eliciting additional information on key topics (see list below).

Facilitating questions
Some basic facilitating questions for this exercise appear below. However, the facilitating organization is at liberty to change the list according to their needs. We recommend organizing key questions in a checklist for those facilitating the group work. Some of these questions can be formulated to start or support the process of visualization, while others are more suited for later stages or for reviewing the final maps, identifying gaps, and complementing the data already generated by the group. The results of the questions should be noted on the map itself or by one of the facilitators of the process in his/her notes. These replies greatly enrich the original map and show participants how much they already know about the market chain.

Actors:

- Who are they?
- Where are they located?
- What are their functions in the market chain?
- How do they relate to one another? Are relations good, average, or poor? Why?

24. This same technique can be used to analyze not only physical product flows but also intangible aspects of the chain such as relationships between actors, information flows, sources and spread of innovation among others.
What are their characteristics (gender, class, age, education, abilities, know-how, etc.)?

Markets:
Where do we sell what we produce (in each link of the market chain)?

Product characteristics:
What are the characteristics of the product?
What are the volumes of production monthly or annually?
How much of the product is sold in the markets monthly or annually?

Costs, yields, and distribution of the market chain’s value
How much does it cost us to produce (in each link of the market chain)?
What are the buying and selling prices in each stage of the market chain? Are they stable during the year, or do they fluctuate?
How efficient (yields by area planted, conversion factors, etc.) are the diverse activities in the market chain?
What is the distribution of the total income from the market chain between the actors like? Which groups gain more and which less, and why?

Business development services
Who (in each link of the market chain) supports us?
How do they support us? What services do they offer (in each link of the market chain)?
What is the quality of the services offered?
Here, care must be taken to visualize the support received by informal actors (intermediaries, moneylenders, etc.) that at times are more effective that that of the other support groups.

Rules of the game
What is the form of payment in each stage of the market chain?
What are the quality requirements?
What is the buying frequency?
How are relations between market chain actors? Are they happy with the existing relationships? Why or why not?

If the facilitating organization has more specific questions, these can be included in the final facilitation tool, making the necessary adaptations so that they are of maximum help in visualizing and understanding the market chain. Additional tools can be combined with the mapping exercise to document specific information of interest to the participants and the facilitating organization. One example is that of gender analysis where the relative roles of women, men and children can be analyzed along the market chain in the various productive activities. A more complete analysis in this sense could examine not only roles and responsibilities but also access to resources, knowledge and gendered decision-making by market chain actors.

If, at the end of the exercise, there are parts of the market chain with major gaps, it is probable that we have left out one or more key actors in these functional categories. A strategy to elicit and include their points of view is needed.

8.6 Example from Honduras

Figure 11 presents an example of a market chain map generated by a group of coffee growers in the Municipality of Sulaco, Honduras. The map shows that the producers have a fairly complete vision of their market chain, covering functions from production to export, and that they have managed to identify most of the actors. When examined in greater detail, however, it was clear that most of the information on the map related to the relationship between the producers and one large regional trader. Details about what happens in the market chain between Yoro and product export are less clear.

25 Commonly no one has any idea about this, but sometimes one or more producers can provide an approximate idea.
26 In this part, it is a good to review the role of each group in the market chain bearing in mind the risks assumed, value added, and access to information or key contacts.
Figure 11. Map of the coffee market chain, Municipality of Sulaco, Honduras.


An important aspect that did not appear on the map was the question of quality. In this case, the facilitator raised the importance of quality. In this example, traders, exporting firms and support organizations did not participate actively. As a result, gaps remain that must be filled through workshops, focus groups, or semi-structured interviews with the missing actors.

**Production and transformation**

The map gives information about the production system at the farm level in the Municipality of Sulaco. Here, we can see the average production per manzana\(^{27}\) of land, the cost of depulping the coffee (2.5 Lempiras\(^{28}\) per liter of coffee), and the use of the final product.

Reviewing the map, what gaps need to be clarified?

- Production costs
- Existence of depulping machines in the zone (Do people usually pay for this service?)
- Number of coffee farms in the zone, total hectares in production (approximately) or volume of coffee produced.

Sometimes it is easier to find this data with intermediaries who, for example, have good knowledge of production volumes, or with support organizations that manage more formal data such as extension, yields, and average costs. If market chain analysis methods are required to fill the gaps, the reader should refer to Module 6. Nevertheless, it is important to ascertain what producers know about the activity since these data tend to be more accurate and up to date than most “official” figures.

**Marketing**

The map helps us appreciate Sulaco’s system of coffee marketing. The data included are: (a) price of production per load of coffee, (b) traders’ purchase price, (c) names of local traders with an indication of which ones are most important, (d) sales price to regional traders, (e) names of regional traders with an indication of which is the most important, (f) final destination of the coffee – San Pedro Sula, and (g) names of the export firms known by producers.

This exercise provides key information to plan future research activities, such as semi-structured interviews with the local and regional traders and visits to export firms in San Pedro Sula.

What are the gaps in this information that must be filled?

- Prices between Yoro and the export firms and the price of Honduran coffee in international markets.
- The use of “futures” by local traders to guarantee volume at favorable prices. Who provides the funding for this? Local traders or regional traders? What are the advantages or disadvantages of this system for the actors involved?
- The support lent by intermediaries to producers (services provided, costs, volumes, and frequency)

**Support system**

The support system, both formal and informal, is clearly defined. In this case, producers receive formal assistance (technical assistance, training, and some credit) from public and private firms (see Figure 8 top right-hand corner), while business support (marketing, transport, inputs, and advances of working capital through future purchases) come from traders.

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\(^{27}\) A manzana of land is equivalent to about 80 m\(^2\).

\(^{28}\) US$1 is equivalent to 18.2 Honduran Lempiras.
In the case of the traders, a more complex, two-way relationship is shown, than with support organizations. In this space, what data are missing?

V Information on the actual relationships between traders and producers. Is it a stable relationship, or do producers feel exploited? What is the real flow of funds like in this relationship? The trader advances resources, but what is the final cost of these resources for the producer?

V More details on the relations between local and regional traders. As well as buying the coffee, what role does the regional trader play?

V More information on the business development services provided by support organizations. Are they efficient, of good quality, sufficient? Does everyone have access to these services? Do they respond to producers’ needs?

The map was generated in a relatively short amount of time (less than 1 hour) by a group of small-scale producers. At the same time, other, less complete maps were generated by other groups. After reviewing all maps, it was decided to use this one as the base map for the analysis of the coffee market chain in Yorito and Sulaco. Another interesting point is the level of detail (names, for example) that appears for the informal actors. This contact information is of great use to identify key sources of information for follow-up work.

8.7 Provision of Business Development Services

Objective
To make a simple list of business development services that exist along the market chain and to qualify their quality and identify gaps susceptible to future improvements.

Time
About 2 hours in total; 1 hour for identifying, describing, and qualifying the services by functional category, and another hour for socializing the results and comparing them amongst the groups.

Materials
This exercise can be done using flipcharts and markers, blackboards and chalk, or even on the floor with local materials. What is important is to describe the services supplied and received in such a way that all the actors can see and discuss them.

Process
Continuing with the same groups used for mapping, proceed examine supply and demand of formal and informal business development services in each function of the market chain. The groups of producers, processors, and traders analyze their respective links based on results of the mapping, while the business development service providers look specifically at the services they supply. After about 1 hour of working in groups, results are revised in a plenary session, and matrices are generated of supply and demand in each functional category.

It is important to make a special effort to include informal service suppliers since they are more difficult to identify. Examples of informal suppliers of services include: farmer extensionists or smallholders with additional knowledge on production themes; metalworking shops that make or repair agricultural or simple processing machinery; workshops that rent out machinery for processing; transporters; traders; moneylenders, among many others. Emphasis is placed on informal suppliers business development services because: (a) they exist in almost all market chains; (b) their services tend to be more sustainable that those supplied by formal actors; (c) their costs are lower; and (d) their quality is key in understanding the function of most market chains.

Facilitating questions
The basic questions for facilitating this exercise with the groups of producers, processors, and traders are:
- Who supplies services to this link in the market chain?
- What services are supplied?
The results can be organized in the following matrix (Table 11).

**Table 11. Matrix of the analysis of services received (by clients).**

<table>
<thead>
<tr>
<th>Service by link of the market chain</th>
<th>Supplier</th>
<th>Cost</th>
<th>Benefit (recipient perspective)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>Who supplies the service</td>
<td>Paid for the service in cash or kind</td>
<td>J High utility</td>
<td>Additional information about each service</td>
</tr>
<tr>
<td>Processing</td>
<td></td>
<td></td>
<td>K Medium utility</td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
<td>L Low utility</td>
<td></td>
</tr>
<tr>
<td>Organization</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In the case of service providers, useful questions include:

- What services are supplied to each link in the market chain (production, post harvest, processing, marketing, business organization)?
- Who are the clients of the service?
- What portion of the service cost does the service client cover? What portion is covered by other sources (donor or government subsidy)?
- How effective is the service? Does it manage to solve the problems of the client?
- How much does it cost to supply the service?

Results can be organized in a matrix such as the one shown below (Table 12).

**Table 12. Matrix of analysis of the services supplied (by service providers).**

<table>
<thead>
<tr>
<th>Service by link of the market chain</th>
<th>Clients</th>
<th>Cost</th>
<th>Benefit (supplier perspective)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>To whom is the service directed</td>
<td>Paid by the service in cash or kind</td>
<td>J High utility</td>
<td>Include total costs of services</td>
</tr>
<tr>
<td>Processing</td>
<td></td>
<td></td>
<td>K Medium utility</td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
<td>L Low utility</td>
<td></td>
</tr>
<tr>
<td>Organization</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Once the supply and demand of services has been identified, a simple review can be made in plenary session to compare the services noted by the clients (producers, processors, and traders) and the service providers. Often, this revision generates interesting discussions, given that services appear that were unknown up till now or that the evaluation of quality varies substantially.

8.7.1 Example from Guamote, Ecuador

This methodology was applied to a dairy market chain in the Municipality of Guamote, Ecuador, with the following results (Tables 13 and 14).

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29 For a complete version of the application of this methodology in Guamote, Ecuador, and an extensive discussion on the theme of local business development services, see the document: IICA-CIAT-COSUDE-MCCH (2001). Los servicios locales: Un desafío del desarrollo rural. Available in: [http://www.ciat.cgiar.org/agroempresas/espanol/inicio.html](http://www.ciat.cgiar.org/agroempresas/espanol/inicio.html)
Table 13. Example of production services received in Guamote.

<table>
<thead>
<tr>
<th>Service</th>
<th>Who offers it</th>
<th>Cost</th>
<th>Benefit</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veterinary</td>
<td>Private indiv.</td>
<td>Warehouse discount 30% to 40% of the cost</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Expert farmers</td>
<td>None</td>
<td>J</td>
<td>Never arrives on time</td>
</tr>
<tr>
<td></td>
<td>Rural Action</td>
<td>None</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAG-CONEFA</td>
<td>None</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CDL</td>
<td>None</td>
<td>K</td>
<td>Very expensive</td>
</tr>
<tr>
<td>Credit</td>
<td>FEPP</td>
<td>22%</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acción Rural</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inputs</td>
<td>Shops</td>
<td>Varied</td>
<td>L</td>
<td>Expensive</td>
</tr>
<tr>
<td></td>
<td>Acción Rural</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. MAG-CONEFA, Ministerio de Agricultura-Comisión Nacional de Erradicación de la Fiebre Aftosa; CDL, Comité de Desarrollo Local; FEPP, Fondo Ecuatoriano Popularum Progressio.

Table 14. Example of production services supplied in Guamote by service providers.

<table>
<thead>
<tr>
<th>Service</th>
<th>Whom for</th>
<th>Costs</th>
<th>Benefits</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit</td>
<td>Rural and urban marginal producers</td>
<td>18 - 21.7 %</td>
<td>J</td>
<td>Individuals, associations, Funds.</td>
</tr>
<tr>
<td>Cattle ranching technical assistance</td>
<td>Milk producers Credit Fund Acción Rural Without credit Acción Rural ¶ A-R partners ¶ Non partners</td>
<td>US$6.00 Extra visit $1.70 US$1.70 + Product US$2.00 + Product</td>
<td>J</td>
<td>2 visits + products 1 cow</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>J</td>
<td>Great demand</td>
</tr>
<tr>
<td>Storage</td>
<td>All those interested</td>
<td>Same as Riobamba Cheap than Riobamba</td>
<td>Non partners Partners</td>
<td></td>
</tr>
<tr>
<td>Training in livestock mgt.</td>
<td>Livestock owners</td>
<td>US$0.25 / person</td>
<td>J</td>
<td>Minimum 15 persons</td>
</tr>
<tr>
<td>Training in milk management</td>
<td>Milk suppliers of the consortium</td>
<td>US$5.00</td>
<td>J</td>
<td>5 days Real cost US$12.0</td>
</tr>
<tr>
<td>Training in milk processing</td>
<td>Cheese makers’ consortium</td>
<td>US$15.0</td>
<td>J</td>
<td>15 days Real cost US$36.0 per person</td>
</tr>
<tr>
<td>Follow-up in milk processing</td>
<td>Trained cheese makers Partners</td>
<td>$1.70</td>
<td>No data</td>
<td>Being started</td>
</tr>
<tr>
<td></td>
<td>Non partners</td>
<td>$2.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When the tables of clients and service providers were compared a long discussion ensued, as the client groups lists did not include many of the services provided by a local NGOs. At the end of the process, it was established that the promotion of existing services was deficient and that few milk and cheese producers where aware of their existence. Through this process, a simple, rapid, and cheap way to improve service quality was identified: more effective service promotion.

A second result was that best evaluated services were those that were fee-based. Although the full example is not shown here, it was clear that the services best reviewed by the clients were paid services, while free services were not well accepted.

8.8 Market chain history

Objective
To identify key moments in the market chain’s evolution, positive and negative aspects and lessons learned. This can be applied generally (key milestones of the market chain), or with an emphasis on previous projects or support received by the market chain.
Time
About 1 hour in total.

Materials
This exercise can be carried out using flipcharts and markers, blackboards and chalk, or even the floor with local materials. What is important is to describe the history in such a way that all the actors can see and discuss it.

Process
Using the same groups from the mapping exercise, proceed to define key dates in the market chain’s evolution. Start with a brainstorming session to identify key moments, clarify each one and organize them chronologically. Build a timeline as a column, and proceed to identify additional information on each event and evaluate lessons learned. The exercise ends with a socialization of the results between the groups, and clarification of gaps. After this workshop, the facilitating organization will mould all the timelines into a single one.

Facilitating questions
The facilitating questions for the timeline are:

V What have been key events in the market chain’s evolution during the last ten years? In what year did each one occur?
V Who participated in this event? What were their roles?
V Was there external support during this time? Who facilitated it?
V What was good about this event?
V What was negative about this event?
V What did we learn from this event?

An example of a market chain history is presented below.
8.8.1 Market chain history from CIPASLA, Cauca, Colombia

The following example (Table 15) is from a dairy products market chain in Cauca, Colombia. In this case, the tool was applied to a producers’ association within the market chain to facilitate a process of reflection on its evolution and growth and motivate to continue with future activities.

Table 15. Example of the timeline of the Asociación de Empresarios Agroindustriales de la Sub-Cuenca del Río Cabuyal (ASERCA), Colombia.

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Which of us participated</th>
<th>Who supported us</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1994</td>
<td>Congreso Internacional de leche – Medellín</td>
<td>2 milk producers</td>
<td>CIAT, CIPASLA</td>
<td>Idea of organizing ourselves</td>
</tr>
<tr>
<td>1994</td>
<td>Launching the idea, survey of producers</td>
<td>CIPASLA</td>
<td>CIPASLA</td>
<td>Knowing production dates and options</td>
</tr>
<tr>
<td>1994</td>
<td>Trip to La Arboleda</td>
<td>Producers</td>
<td>FIDAR</td>
<td>-</td>
</tr>
<tr>
<td>1995</td>
<td>Training in the milk business</td>
<td>Producers</td>
<td>FIDAR, CIPASLA</td>
<td>-</td>
</tr>
<tr>
<td>1995</td>
<td>Organization of the group, buying of equipment</td>
<td>Producers</td>
<td>FIDAR, FES</td>
<td>-</td>
</tr>
<tr>
<td>1996</td>
<td>Buying of lot, construction and organization of the business</td>
<td>Producers</td>
<td>CIPASLA, PRODAR, DRI, ECONORCA, CETEC</td>
<td>-</td>
</tr>
<tr>
<td>1997</td>
<td>Inauguration of the plant</td>
<td>Partners</td>
<td>SENA, FIDAR, CIPASLA</td>
<td>The plant</td>
</tr>
<tr>
<td>1997-99</td>
<td>Independence of the plant</td>
<td>Partners, Board of Management</td>
<td>Jairo Balanta (paid by partners), CIPASLA – AIR</td>
<td>Know that it can be done</td>
</tr>
<tr>
<td>1999</td>
<td>Market study and sanitary registration transaction (in process)</td>
<td>-</td>
<td>CIPASLA – AIR</td>
<td>-</td>
</tr>
</tbody>
</table>


A variation on the market chain history exercise is one focused on local processes of innovation to support the market chain or generate new products. If these processes are investigated, it is important to include a space to note the sources of the innovation(s), their channels of dissemination, and the results they have had in the market chain. Actors identified in this way are key when new changes in the market chain are proposed later in the analysis process.

In this module, we have discussed how to form working groups and three tools for market chain analysis: mapping; supply and demand of business development services; and a market chain history. Together, these tools permit a first analysis of the market chain and prepare us for the next step, which is the identification and analysis of factors limiting the market chain’s competitiveness, and possible solutions.
Module 9
Analysis of Critical Points in The Market Chain

Guiding questions
1. How can we identify the critical points that limit a market chain’s development?
2. Is differentiating market chain actors and their opinions valid when we seek to identify the critical points? Why, or why not?
3. If we identify differentiated critical points with market chain actors, how can we connect them later in the analysis?
4. Why is it important to identify not only the critical points, but also understand their causes and effects on the market chain?
5. Is it possible to connect various critical points along the market chain?
6. Once the critical points are identified, how can we use them to plan processes of innovation and market chain development?
7. Can we find critical points that influence the market chain more than others? What would happen if they were resolved? Could strategies to resolve these especially critical points lead to dramatic increases in market chain competitiveness?
8. Why is bench marketing important for understanding the limitations in the selected market chain

9.1 Introduction
At the end of Module 8, the group members had completed the following tasks:

1. Visualized the market chain including actors and their locations,
2. Outlined the flow of products, inputs along the market chain and
3. Described the accessibility and quality of business development services in support of the market chain.

Based on these exercises, this Module will provide an explanation regarding how to identify critical points where the market chain faces internal or external limitations, how to analyze the causes and effects of these limitations, how to identify solutions for these bottlenecks, how to compare the market chain with the competition and finally how to design a logical path towards increased market chain competitiveness.

All exercises described in this Module will be carried out by groups of strategic actors previously identified by functional categories along the market chain, see Modules 7 and 8 for more information on the selection of strategic actors. Below, we explain how to identify factors limiting competitiveness, how to analyze their causes and effects, and a way of translating limitations into opportunities. The process is explained graphically in Figure 12.
9.2 Identification of Limiting Factors

This tool has two steps: (1) a brainstorming session focused on identifying existing limits in the system, both internal and external, and (2) the selection of the most critical limitations. This exercise is carried out by actors grouped by functional category followed by a plenary session to share the results.

9.2.1 Brainstorming session

First, ask the group to identify the limits that they see as important in the market chain. Each idea should be written on a card according to the following rules: (a) one idea per card, (b) not more than three lines long, and (c) in big letters so that everyone can read the comments. In groups where level of schooling is limited, drawings representing ideas can be used.

Once the ideas have been collected and put onto cards (leave 15 to 20 minutes for this exercise), clarify ideas and find out if the card effectively conveys the idea of the author. Similar ideas should be grouped. Once ideas have been grouped, define the central ideas of the group in one phrase on a different colored card. This summary card is placed on top of the group of individual cards so that everyone can review whether or not the key ideas have been captured. At the end of this process (of 15 to 30 minutes), the final cards are placed on the wall where all participants can see them and read them out loud (see below for example).

- **Access to funds** (credit for working capital and credit)
- **Access to inputs** (lower production costs)
- **Training and technical assistance** (in production)
- **Improvement of breed**
- **Improvement of pastures**
- **Marketing**
9.2.2 Prioritization of limitations
There are various ways of arranging the identified problems. If the group is relatively homogeneous in terms of participation (no single person dominates the group), and if the group has a limited number of problems (8 maximum), the pair-wise ranking tool described below can be used. If there is a marked tendency for one or more persons to influence the decisions of the group, or a large number of problems, it is better to opt for a secret vote to capture more clearly the opinion of the group and not just that of the most vocal members.

9.2.3 Pair wise ranking
A pair wise ranking process uses a matrix where the identified problems are placed in identical rows and columns as seen in the following example (see Table 14).

Table 16. Incomplete example of a pair wise ranking exercise.

<table>
<thead>
<tr>
<th>Problems</th>
<th>Access to funds</th>
<th>Access to inputs</th>
<th>Training and technical assistance</th>
<th>Improvement of breeds</th>
<th>Pastures</th>
<th>Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access to funds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access to inputs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Training and TA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improvement of breeds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pastures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on this example, work proceeds in the following fashion: (1) identical themes are not compared (access to funds against access to funds, for example) and each pair will be compared once only (for this reason only half the matrix will be filled in); (2) the facilitator asks, “between access to funds and access to inputs, which should be solved first?; (3) the group discusses the question in an attempt to reach a consensus; (4) the answer is written on the card and the group proceeds to the next pair of problems; (5) notes should be taken on the rationale behind the decision (why are pastures more critical than access to funds, for example). The logic behind the decisions is sometimes more illustrative than the decision itself. Depending on the group, this exercise takes between 30 and 45 minutes.

At the end of the exercise you should have something similar to the following matrix (Table 17).

Table 17. Complete example of a pair wise ranking exercise.

<table>
<thead>
<tr>
<th>Problems</th>
<th>Access to funds</th>
<th>Access to inputs</th>
<th>Training and technical assistance (TA)</th>
<th>Improvement of breeds</th>
<th>Pastures</th>
<th>Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access to funds</td>
<td></td>
<td>Funds</td>
<td>Training</td>
<td>Funds</td>
<td>Pastures</td>
<td>Marketing</td>
</tr>
<tr>
<td>Access to inputs</td>
<td></td>
<td>Training</td>
<td>Improvement of breeds</td>
<td>Pastures</td>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>Training and TA</td>
<td></td>
<td>Training</td>
<td>Training</td>
<td>Training</td>
<td>Training</td>
<td></td>
</tr>
<tr>
<td>Improvement of breeds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pastures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Next, each factor is scored based on the number of times it appears and assigning an order of priority according to this frequency. To clarify, explain to the participants that the votes received by each limitation will be counted, and thus determine what factor is the most urgent to resolve.
Table 18 shows the results of this scoring for the example being developed.

### Table 18. Final ranking of limitations

<table>
<thead>
<tr>
<th>Limitations</th>
<th>Frequency</th>
<th>Order of priority</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training and technical assistance</td>
<td>5</td>
<td>1</td>
<td>Notes on why each decision was made.</td>
</tr>
<tr>
<td>Marketing</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Pastures</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Financial</td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Improvement of breeds</td>
<td>1</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Purchase of inputs</td>
<td>0</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**9.2.4 Consolidation of limitations**

Once the factors are ranked by each group of actors, the results are shared in a plenary session. Each group explains its final ranking results focusing on the rationale behind their decisions and why one factor is more important than the others. The facilitators should note limitations that are similar across groups even if they use different terms to describe basically the same problem. If doubts or inconsistencies exist among the results, they can be clarified at this time.

*At the end of the socialization process a consolidated list of limiting factors is generated. At this time, similar or related limitations are grouped as in the brainstorming exercise. The rank assigned to each limitation by each group is also noted as shown in Table 19.*

It is common for groups to rank limiting factors that are exclusive to them highly. Despite this, the facilitators should focus on identifying limitations that are valid along the whole market chain—such as marketing in the previous example—to highlight the relations between limiting factors in each link and the overall competitiveness of the market chain. At this point it is useful to refer to the market chain map and review which of the ranked limitations have causes and effects in more than one link.

### Table 19. Example of a consolidation of limitations in a market chain.

<table>
<thead>
<tr>
<th>Limitations</th>
<th>Producers</th>
<th>Processors</th>
<th>Support system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training and technical assistance for milk production</td>
<td>1</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Marketing (publicity, presentation, transport, suitability of sales points)</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Pasture improvement (low yields)</td>
<td>3</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Access to working capital and credit</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Improvement of breeds (low performance)</td>
<td>5</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Cost of inputs</td>
<td>6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Training and technical assistance in processing milk products</td>
<td>-</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>Weak organization and lack of internal regulations</td>
<td>-</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Need to construct new infrastructure for the processing plant</td>
<td>-</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Management of processing subproducts (whey and cream)</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Requirements of team and machinery</td>
<td>-</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Business capacity</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Legal limitations</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Deficient quality control</td>
<td>-</td>
<td>-</td>
<td>7</td>
</tr>
</tbody>
</table>

Following this exercise, the most common or strategic limitations are identified amongst all the actors, to be analyzed in more detail. The identification of common limitations is done by comparing the prioritized lists and seeking similar or related themes among the actors (the marketing example noted previously). In the case of strategic limitations, a wider discussion on market chain competitiveness is facilitated to identify the causes of the common limitations. This second process becomes easier as causes and effects of each limitation are analyzed as described in the following section.

We recommend selecting between three and five common or strategic limitations to analyze. It is normal to find that many of the other limitations ranked by the different actors appear as causes or effects of one or more of the strategic limitations. By seeking common limitations to analyze, the focus of the group is squarely centered on finding solutions that benefit most actors, generate positive synergies along the market chain and help solve other, minor limitations that are specific to each functional category.

9.3 Analysis of Cause and Effect

As a result of the ranking exercises, a list of limitations is generated to analyze in greater detail. This list must be manageable (a maximum of five is a good rule of thumb), respond to the concerns of the actors, and should contain limitations whose solution generates benefits for more than one group of actors in the market chain. The common limitations can be worked on first among the actors in each segment of the chain, followed by those that have been identified as strategic among all participants. As the analysis of causes and effects advances, the multiple relationships between limitations will become clear (for example, some limitations are causes or effects of others) so that it is hardly ever necessary to work with more than five limitations.

This analysis is carried out using the technique of problems trees.

Problems trees to analyze limitations

A problem tree (or cause and effect analysis) includes the following steps:

1. Put the selected limitation half way down the workspace (paper, wall, floor), explaining clearly to participants the reasons why it was selected. Care must be taken in explaining the problem clearly – and achieving a consensus on this – since the validity of the analysis depends on a common understanding of the problem.

2. Ask participants about the causes. Questions should be structured in the following way: Why are there low yields, poor quality, and little supply planning of cassava roots? Each time that participants reply, the idea should be noted on the card and placed underneath the initial problem. Once the card is placed, the question is repeated – Why? – and the answer noted on a new card. The objective is to generate chains of causality to understand not only the central, visible problem, but also its causes. It is important to discuss and clarify as much as possible the diverse causes of each problem, and the relationships between problems. Normally, analysis is continued to the second level of causality, although this work can extend – or deepen – to provide greater analysis of a particular point if necessary.

3. Once the causes of the limitation are analyzed, the facilitator initiates the analysis of the effects using the phrase: What are the effects or results of this limitation? The effects analysis then follows the same logic as described above. For effects, analysis is also carried through to the second level of effects. If the facilitator wishes to analyze the links between the limitation and wider themes – livelihoods, for example – the analysis can be amplified further.

At the end of the exercise a much clearer idea should be held about the real causes of the problems, their effects, and how to enter to improve the situation, as shown in Figure 13.
Once relevant problems trees have been defined for the selected limitations, the next step is to identify the relationships between limitations. As noted previously, it is common to find that some limitations are in fact causes or effects of others.

### 9.3.1 General problem tree for the market chain

Based on the problem trees for selected limitations, a general tree is constructed to represent the difficulties facing the market chain at the time of analysis. The level of detail in this final tree can be less than in the specific trees. The goal is to link all the trees in a logical fashion. Normally, the sum of market chain limitations adds up to low levels of competitiveness but on occasions some limitations may actually be effects of others.

When constructing an overall cause and effect analysis for the market chain, facilitators must clearly identify the logical relations between causes and effects that appear in the tree. Equally, it is important to review the relations between levels of causes and effects so that the more profound causes are clearly related, and if possible causally linked, with the identified limitations. If this process is carried out effectively, it provides a solid starting point to identify possible solutions to the market chain’s limitations.

Figure 14 shows an example of a general problems tree for a market chain. The limitations in yellow are those that were analyzed in the specific trees.
This analysis clearly identified the principal causes of the market chain’s low competitiveness and the effects of this on producer livelihoods. In this case, the problem tree was generated by chicken producers, and thus reflects their viewpoint more than that of other chain members. A more complete example (Figure 15) for the market chain for plantain in the Dominican Republic follows.

Source: Proyectos Productivo Integrado (PPI) for chicken rearing, Asociación de Productores y Expendidores de Pollos del Norte de Cauca (ASOPROEX), and Corporación para Estudios Interdisciplinarios y Asesorías Técnicas (CETEC), Colombia, 2001.
9.3.2 From limitations to solutions

In addition to providing a more profound understanding of the challenges within a market chain, problem trees can be useful for identifying possible solutions. Causes can be translated into objectives or activities of a project with the central limitation as the general objective, while effects become either indicators of progress or impact. Figure 16 explains this process.

Figure 16. Using a problem tree to identify solutions.

If the problem tree has been carefully constructed – with clear logical links between the different levels – this process should be relatively simple. If it is difficult to translate problems into objectives, the tree’s logic should be revised to find gaps or inconsistencies.

To facilitate this exercise, the participants should work to transform the negative points from the problem tree into a positive expression that is placed in the solution tree. It is easier to begin with the central limitation and move downwards (that is to say, change the causes into specific objectives or into activities), and then repeat the process upwards translating direct effects into progress and impact indicators. Given that most market chains contribute to economic aspects of livelihoods, it is difficult to maintain total causality at this step. If we need to know specifically how much a market chain contributes to a particular livelihood strategy, this requires further analysis with market chain participants and the use of complementary livelihood analysis tools.

Figure 17 shows the objectives tree that emerges from one problem tree example shown previously.
9.4 Comparing the market chain to the competition – “Benchmarking”

Before moving to the design of a strategy to increase competitiveness, it is useful at this stage to compare key competitive aspects of our market chain with other similar market chains. This process is known as benchmarking. The market chains selected for comparison may be direct competitors – i.e. in the same markets or market segments – or indirect competitors – i.e. in other markets or market segments. If a similar market chain serving a more attractive market segment can be found, this is a good point of reference as it can show market chain actors how close or far they are from being able to enter a potentially more lucrative market segment. If no such market chain exists, comparing key competitive variables with the direct competition is useful.

Key competitive variables to keep in mind for this analysis include:

- Access to key markets (distance, road links, communication)
- Product quality
- Product quantity
- Productivity and technology employed
- Production costs or sales price
- Product presentation or packaging
- Distribution channels
- Production peaks and shortages throughout the year
- Brand or product image
- Associated services

Information for this exercise is best gathered by organizing cross-visits to competing market chains by the market chain actors. Prior to these visits, the market chain actors should develop simple questionnaires that allow them to quickly gather impressions on key competitive variables in a systematic fashion. At

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the end of the visit, a short meeting to document and share the findings should be held. Information obtained can be organized in a simple table as shown in Table 20.

### Table 20. Simple Benchmarking Tool.

<table>
<thead>
<tr>
<th>Competitive variables</th>
<th>Current situation in our market chain</th>
<th>Competing Market chain 1</th>
<th>Competing Market chain 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market access</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product quality</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product quantity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Productivity and technology employed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Production costs / sales price</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product presentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution channels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Production peaks or valleys</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brand or product image</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associated services</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.5 Prospective market tendencies and defining a simple marketing strategy

Prior to designing a strategy to increase the competitiveness of our market chain, it is important to analyze the competitive potential of our chain. This process is known as a prospective market analysis. Such a process helps clarify the marketing strategy or strategies most suited to our chain as well as identify the need for specific strategic activities to increase our chance of success.

A useful starting point for this analysis is the identification and characterization of existing markets for existing products from our market chain. Much relevant information has already been gathered in the rapid market survey (see Module 6) and can be reviewed here. In addition to existing products and markets, we should also examine potential new markets, the opportunity for new product development and the potential to diversify towards new products and markets. The Ansoff Matrix presented in Module 5 and reproduced below in Table 21 is a useful to organize this analysis.

### Table 21. The Ansoff matrix

<table>
<thead>
<tr>
<th>Existing products</th>
<th>New products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing markets</td>
<td>1. Market penetration</td>
</tr>
</tbody>
</table>

While this tool was initially developed to classify the diverse growth alternatives for individual firms, it can also be used to facilitate an analysis of a combination of actors linked along a market chain. In this sense, the market chain replaces the individual firm in the original analysis. For our purposes, the strategies contained in matrix may be defined in the following way:

1. **Market penetration:** assess if, in the medium term, we can increase sales of products from our market chain to existing market segments without changing the product we offer.

2. **Market development:** identify new market segments for existing products from the market chain. Examples include expanding into new geographical areas (from provincial markets to the capital city) or selling to new segments of the population who do not currently consume products from our market chain but could.

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31. Adapted from the Public Private Partnerships for Agro industrial Research Project implemented by ISNAR and CIAT and supported by BMZ, Germany.
3. **Product development**: detect opportunities for new or modified products from the market chain for existing clients and market segments. Examples include product differentiation through new packaging, brands, additional processing among others.

4. **Diversification**: detect opportunities for new products for new clients or markets.

In a prospective market analysis we should consider alternatives in all four quadrants of the matrix while bearing in mind that the relative risk increases as we move from a relatively simple strategy of market penetration to a complex one of diversification. The level of risk that the chain actors are willing and able to assume should guide the final selection of marketing strategies.

To develop this analysis, the service provider, in collaboration with chain actors, identifies the level of risk that the market chain can assume over the next five years. Based on this risk assessment, a basket of potential strategies (quadrants) can be selected and compared. It is likely that the market chain actors will opt for a mixed approach including more than one strategy to reduce risk while leaving the door open for greater returns.

To facilitate this exercise include the following questions are useful:

- **What is the growth potential of the existing markets, products and sub-products from the market chain? What do we need to take full advantage of this potential?**
- **What new markets, products or sub-products from the market chain show the greatest potential for growth? What are the requirements (quality, packaging, minimum volumes, etc) for these new markets? Can the products or sub-products from our market chain compete in these markets? What are the technical and financial implications of competing in these markets?**
- **In what markets, products or sub-products is there unmet demand?**
- **In which markets, products or sub-products does the territory or nation have competitive advantages? How can we capitalize on these advantages?**

The output from this analysis is a list of possible future opportunities in new and potential markets and products for the market chain with their respective requirements. Table 22 shows an example for the mango market chain in Ecuador.

**Table 22. Opportunities for market penetration, market development and new product development in the mango market chain of Ecuador**

<table>
<thead>
<tr>
<th>Existing products</th>
<th>New Markets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing markets</strong></td>
<td><strong>New Markets</strong></td>
</tr>
<tr>
<td>- Fresh mango without hydrothermal treatment in Europe, Canada, Colombia and the national market.</td>
<td>- Fresh mango with hydrothermal treatment in Japan and China.</td>
</tr>
<tr>
<td>- Fresh mango with hydrothermal treatment in USA, Mexico and Chile.</td>
<td>- Mango pulps and juices.</td>
</tr>
<tr>
<td>- Mango pulps and juices.</td>
<td></td>
</tr>
<tr>
<td><strong>New products</strong></td>
<td></td>
</tr>
<tr>
<td>- 100% natural mango juices with no water added and less viscosity.</td>
<td></td>
</tr>
<tr>
<td>- Clarified or carbonated 100% natural mango juice.</td>
<td></td>
</tr>
<tr>
<td>- Mango pulp with antioxidant properties and increased carotene content.</td>
<td></td>
</tr>
<tr>
<td>- Dried mango, Mango chips, Pickled mango.</td>
<td></td>
</tr>
<tr>
<td>- Mango slices in clarified juices.</td>
<td></td>
</tr>
<tr>
<td>- Carotene extracts.</td>
<td></td>
</tr>
</tbody>
</table>
Once all the potential opportunities for market penetration, market development, new product development and, if applicable, diversification are listed the service provider and the chain actors select those that of most interest to them. For these opportunities care should be taken to characterize in greater detail both the market potential as well as the technical and financial requirements to take advantage of this potential. In some cases, it may be necessary to enlist the support of external market experts to provide additional information about these issues especially if the markets in question are global.

The final result of this exercise is a table listing the products, markets and requirements for each opportunity selected. A partial example is shown in Table 23 below. Once this exercise is completed, the service provider and chain actors are ready to design a local path to increase the competitiveness of the market chain.

### Table 23. Market opportunities and their requirements for the broccoli chain in Ecuador

<table>
<thead>
<tr>
<th>Product</th>
<th>Existing market(s)</th>
<th>Potential market(s)</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen broccoli</td>
<td>- USA</td>
<td>- France</td>
<td>- To enter other European countries, new presentations and additional value adding is needed.</td>
</tr>
<tr>
<td></td>
<td>- Canada (low export volume, good potential for growth).</td>
<td>- Southern cone countries (for example, Brazil imports from Belgium).</td>
<td>- The difficulty with Brazil is the need for exclusive containers for broccoli. One option is via Manaus.</td>
</tr>
<tr>
<td></td>
<td>- European Union</td>
<td>- Asia (non-producing countries like Malaysia).</td>
<td>- Entering Asia may be difficult with China and India, although China has pest and pesticide residue problems.</td>
</tr>
<tr>
<td></td>
<td>(Germany, Italy, United Kingdom most important).</td>
<td>- Eastern Europe (especially Russia).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Japan</td>
<td>- To enter other European countries, new presentations and additional value adding is needed.</td>
<td></td>
</tr>
<tr>
<td>Fresh broccoli</td>
<td>- National market</td>
<td>- USA, Europe, Andean Region (specifically Colombia and Venezuela).</td>
<td>- The national market is small and requires promotional strategies.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Changes needed in harvest and post-harvest practices (bacteriological control, rapid temperature reduction).</td>
<td></td>
</tr>
</tbody>
</table>

### 9.6 Designing a Logical Path to Increase Competitiveness

With a general solution tree, a simple benchmarking exercise to review competitive or alternative options and an initial marketing strategy for the market chain, the group is ready to design a strategy to increase competitiveness.

A useful first step at this stage is the design of a logical path. A logical path is nothing more than the organization of the specific objectives in chronological order, plus the definition of a common vision of the future for the market chain. Why is this step important? Principally because one or more of the specific objectives facilitates, drives or is a prerequisite for other more complex changes planned for the market chain. A logical path helps build consensus on where to focus limited resources to achieve the greatest possible impact in the shortest amount of time.

The facilitation of this process is an exercise in logic. Based on the general solution tree, the general objective is defined and the specific objectives are placed on cards and read out to remind participants all participants. Next, the central limitation is placed at the left end of the workspace and the general objective at the right thus showing both where we are and where we hope to end up. The participants are then asked to define in few words both extremes bearing in mind the results of the benchmarking study.
9.7 Visioning – Where do we want to go and how do we get there?

How can we describe our current situation? How can we describe where we hope to arrive? These ideas are noted on cards and placed below each extreme. At this point, it is recommendable to focus more on the right-hand extreme—commonly known as the vision—to clearly define a desired future for the market chain. The vision can be a few lines or a paragraph, what is important is to pick up the feelings of the participants, place them in a concrete timeframe (within 5 years, for example), and define measurable or verifiable changes. Depending on the size of the group, it can be useful to work initially in subgroups, with each subgroup responsible for generating some words or short key phrases for the market chain’s future. Then the facilitators collect all the contributions and construct a shared future vision.

Once the two extremes are clear, the specific objectives from the objective tree are reviewed to identify a logical order for their implementation. Facilitators can use phrases such as, “starting from where we are now we hope to reach our desired future in 5 years by achieving the following objectives, which one or ones come first? Is there one or several objectives whose achievement would leverage important changes in the others? Are there objectives that depend on others? Where do we begin, and why? These questions tend to generate debate amongst the participants. In CIAT’s experience, at the end of the debate one or two objectives with the potential to catalyze change tend to emerge. These specific objectives are placed a little to the right of the central limitation previously identified.

The process continues with the placement of other specific objectives in a logical pattern flowing from right to left until all the specific objectives have been placed between the two ends, see Figure 18.

**Figure 18. Definition of a logical path.**

<table>
<thead>
<tr>
<th>Today</th>
<th>Objective 1</th>
<th>Objective 2</th>
<th>Objective 3</th>
<th>Tomorrow</th>
</tr>
</thead>
<tbody>
<tr>
<td>General limitation</td>
<td>Description of present situation. In few words, where are we?</td>
<td>Objective 1</td>
<td>Objective 2</td>
<td>Objective 3</td>
</tr>
<tr>
<td>Description of desired future situation. In few words, where do we want to be?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Once the objectives are logically organized, activities and results are defined for each objective. At this stage, the logical path clearly identifies the key entry point or points followed by additional linked objectives to guide the market chain to the desired future (Figure 19).
Figure 19. Complete, simple logical path with actions and results.

In most cases, reality is much less logical and linear than Figure 15. In these cases, the logical path can be represented with diverse parallel objectives that are necessary prerequisites for others further ahead. The objective of this exercise is to visually chart a future course that is understood by all participants in the strategy to increase competitiveness. An example of a more complete version of a logical path appears in Figure 20.

Figure 20. Complete logical path with parallel actions and results.

An example of a logical path is shown in Figure 21 below.
Figure 21. Example of a logical path for a Strategy to Increase Competitiveness.

9.8 Preparation of business plans

To facilitate the implementation of the logical path the development of simple investment plans for each objective is recommended. These plans should, for each objective: (a) clearly state the projected activities and expected outcomes in this area; (b) provide a solid estimate of the financial requirements and expected returns on this investment; (c) an assessment of the risks entailed in work on this topic, and; (d) a time frame for implementation. The final investment plan should be concise – about five pages is a good rule of thumb – and include sufficient information to assess the relative costs and benefits of intervening or not intervening in this area of the market chain.

Inputs for this investment plan come from the logical path – each objective becomes the center of a investment plan – as well as from other information gathered during the analysis of the market chain. In addition to this information, the preparation of the short investment plans requires that the service provider and market chain actors review the cost and expected benefits of intervening in the chain at the selected point, assess the potential risks of this intervention and develop a time frame for this work. The following steps can facilitate this process.

- First, the service provider and market chain actors review each objective of the logical path and their respective activities and products. If these are judged appropriate they are adopted as the projected activities and outcomes for the objective.
- Second, the activities are listed in chronological fashion – what comes first and what comes later – and costs assigned to each. Assigned costs should be as accurate and honest as possible with the information available as they will provide an important point of analysis once outcomes and expected benefits are included.
- Third, expected outcomes and benefits are reviewed for each objective to assure that they can be met with the proposed activities and financial resources. For each objective, the service provider should estimate the return on investment by quantifying the proposed outcomes or benefits and comparing
that figure with the sum of the required investments. The return on investment usually has a longer
time frame than the investment plan but, as a rule of thumb, should not exceed five years\(^\text{32}\).-

- Fourth, costs and benefits are compared to assess the relative return for the planned investments in
each objective.
- Finally the information generated in this exercise is documented and the short investment plans
preparing as inputs for the final strategy.

In our experience, the development of specific investment plans can be assigned to groups of market
chain actors and staff from the service provider as an activity to develop between the end of the workshop
on the logical path and prior to the final negotiation session with all chain actors. In this case, a space of
two weeks should be sufficient to develop a business plan for each objective of the logical path. These
plans may be shared as soon as available but, in any case, will be presented and discussed at the final
session with all market chain actors. For an example of the format for a business plan see Annex 4.

In this module we have explained how to carry out an analysis of critical points, from their identification
to their translation into objectives, and their inclusion in a logical path to increase the market chain’s
competitiveness. In addition we have presented simple exercises to assess the competitive position of the
market chain in regards to similar market chains and select marketing positions to build on or strengthen
the competitive position of the market chain. With the logical path and investment plans in hand, the
facilitating organization is ready to systematize all the information generated up to now and share it with
the market chain actors. Based on this information, discussions will be facilitated, decisions made and
resources committed to strengthen the market chain. The next module explains how to facilitate the
negotiating process between the actors and design the final strategy.

\(^{32}\) The participation of an accountant or someone versed in simple financial analysis using Excel is recommended
at this stage especially if no one in the support organization of chain actors has experience in this kind of
calculations.
Module 10
Negotiating a Strategy To Increase Competitiveness

Guiding questions
1. Which of the inputs generated in the previous steps are important for facilitating negotiations between market chain actors?
2. How can we use the previous analysis to clarify the interdependence between market chain actors? Does this information identify areas where collective action by one or more actors could collaborate to improve their situation?
3. Does the existence of complete and shared information along the market chain permit decision making and facilitate agreements between actors to increase market chain competitiveness? Why, or why not?
4. What kinds of agreements can we expect from a negotiation workshop? For whom is this space useful?

10.1 Introduction
Module 10 focuses on the negotiation and design of the strategy to increase competitiveness among representatives of the market chain. Before arriving at this point, the service provider must have systematized the results of the market chain diagnostic workshops in a technical document as well as a suite of investment plans. These documents are an input for the negotiation workshop and the discussion about how to increase the competitiveness of the market chain. The list of participants for the negotiation workshop comes from previous work with care taken to ensure the representation of key actors either directly or indirectly. If additional actors have been identified – for example, key buyers – they may be invited to this session even if they have not actively participated in previous work.

The technical report communicating the results of the market chain diagnostic as well as a suite of investment plans should be available to all workshop participants prior to the event, and serve as a starting point for the process of negotiation. Based on these documents, the workshop reviews the results of the diagnostic, the proposed investment plans and establishes possible alliances for short, medium, and long-term activities focused on increasing market chain competitiveness. Finally, the logical path and investment plans are improved or accepted and action plans developed for their implementation.

Below, we revise step by step how to facilitate a process of negotiation process to design a strategy to increase competitiveness.

10.2 Systematization of Results – Technical Document
Before the negotiation workshop, we recommend providing a technical document to participants, if this has not already been done, with the results from previous workshops. The contents of this document may follow the model below or another identified by the facilitating organization.
Suggested contents

1. Market chain selection
   A brief description of how and why the market chain was selected.

2. Market survey, by select team
   Key results of the market survey with special emphasis on demand aspects including retail prices, price trends, product qualities, market trends, and opportunities for new markets or new products.

3. Identification of actors
   Using the information from the summary interviews sheets and based on meetings, this section should outline who are the actors convened for the design of the strategy to increase competitiveness? Why were they selected? Who was excluded and why?

4. Participatory analysis of the market chain by selected actors
   a. Market chain map
      - Presentation of the final market chain map where product flows, actors’ relationships and business development services identified.
      - A report on price formation, including production costs for producers (if possible for the intermediaries and wholesalers), as well as the purchase and sales prices for each player.
      - A report on income distribution along the market chain focused on gross margin (inputs – outputs) and what percentage of the final price reaches each actor.

   b. Characterization of the market chain’s actors
      - Geographic location (where they are located)
      - Role within the market chain (what function is carried out: production, processing, support, accounting, marketing, transport, etc.)
      - Level of organization (what grade of business organization each player has) and type of organization (farmer organization, community development organization, business firm etc.)
      - Managerial capacity (what managerial practices are used such as: administration, accounting, management capacity, marketing, etc.)
      - Disposition to participate in market chain improvement (your perception of each player’s desire to participate in activities to improve the market chain).
      - Possible alliances identified between actors and their motivations. What possible alliances are visualized, between whom, what are the factors that make the alliance possible? (For example, motivations such as: income gains, increased volume, improvement of product quality, opening new markets, etc.)

      This last question is highly important since the necessary details will be worked on in the negotiation workshop with all market chain actors.

   c. Business development services
      Include the business development services demanded and supplied along the market chain. The analysis of these data can be based on the following questions:
      - Who supplies business development services to the market chain in the different links?
      - How is the quality and effectiveness of the services perceived both by the clients and suppliers?
      - Are there gaps between available services and those needed for increasing market chain competitiveness? What are they?
      - Are there services that have many suppliers and few clients?
      - Which services are paid for, and which require subsidies to function? Is there a relationship between the quality of the service and whether it is paid for or subsidized?
d. The timeline and past interventions
Share the table of market chain history with the actors.

- Analyze the types of support offered to whom and on what themes.
- If people have catalogued this support as negative, analyze why.
- Share the outcome of previous interventions and identified local capacity to effect positive change.

5. Analysis of critical points
Include copies of the general limitation tree and the general solution tree with ranked limitations and their analysis. If discussions are anticipated, it may be useful to have all the problems trees generated available.

6. Logical path for the market chain
Include a copy of the logical path generated for the market chain with its respective activities and results.

7. Options for investment plans to be presented by group members.
Present the short investment plans with the following information for each objective in the logical path:

- The projected activities and expected outcomes in this area
- A solid estimate of the financial requirements and expected returns on this investment
- An assessment of the risks entailed in work on this topic
- A time frame for implementation

In addition, give credit to for data collection and analysis to participants and facilitators in the workshops in the summary document.

We recommend providing this technical document with participants in the negotiation workshop ahead of time so that they can review the contents. It is also useful to kick off the workshop with a brief presentation highlighting the most important results from the diagnostic process. This aspect is important as some of the actors present in the negotiation workshop may have been absent from the previous workshops, but are key to taking advantage of the business opportunities open to the market chain.

10.3 Negotiation Workshop

Objectives
- Share and discuss the market chain diagnosis with a representative group of market chain actors.
- Identify key points of common interest among the different actors.
- Negotiate possible alliances and collective actions (between more than one actor) to take advantage of market opportunities.

Participants
The participation of key actors along the market chain – especially those necessary to take advantage of specific business opportunities – is vital for this workshop. In this case, the service provider should make every effort to involve key actors who may have not participated actively in other parts of the analysis but are key to chain development. This is often the case with major clients or traders with whom useful discussions are more feasible based on the information contained in the market chain analysis.

Other types of actors can also be invited, such as specialist service providers who already provide or may provide business development services to the market chain, as well as other higher order chain actors to review the process and perhaps donors a or NGO managers to evaluate the results depending on the needs of the market chain. In addition, a banker / accountant may be useful to assist in the revision of the investment plans.
Development of the workshop

The following steps are recommended for the negotiation workshop. The service provider and market chain actors should revise their applicability for their conditions, and adapt or change them according to their best criteria. Combining the following list with less formal activities – i.e. coffee breaks, lunch, mixers or round-table discussions – is useful as well as it serves to re-enforce the informal relations between diverse actors along the market chain.

Presentation of limitations and opportunities by actor

At the start, the problems found in the market chain can be shared by each group of actors. An easy way of communicating this information is by means of a matrix where the functional categories of the market chain appear with the points of view of the different actors as shown in Table 24.

Table 24. Example of a matrix of problems per activity and actor.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Producers</th>
<th>Processors</th>
<th>Traders</th>
<th>Buyers</th>
<th>Support service providers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>L L</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>L</td>
</tr>
<tr>
<td>Post harvest management</td>
<td>L L</td>
<td>L L L L</td>
<td>L L L</td>
<td>--</td>
<td>L</td>
</tr>
<tr>
<td>Processing</td>
<td>L</td>
<td>--</td>
<td>L L L</td>
<td>--</td>
<td>L</td>
</tr>
<tr>
<td>Marketing</td>
<td>L L L L</td>
<td>L L</td>
<td>L L L</td>
<td>L L L</td>
<td></td>
</tr>
<tr>
<td>Business organization</td>
<td>L</td>
<td>--</td>
<td>L</td>
<td>L L L</td>
<td>L</td>
</tr>
</tbody>
</table>

* more L indicates a more important problem.

This matrix should be adapted to the market chain’s needs since the problem probably will not be as general as post harvest management, but rather something more specific such as “lack of adequate packaging material”.

Once this information has been shared, the service provider and the market chain actors should present the results of the business opportunities identified for the chain and their respective investment plans.

Table 25. Example of a matrix of business opportunities and investment plans by actor

<table>
<thead>
<tr>
<th>Investment plans</th>
<th>Producers</th>
<th>Processors</th>
<th>Traders</th>
<th>Buyers</th>
<th>Support service providers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization of farmer collective marketing group</td>
<td>J J</td>
<td>J J J</td>
<td>J J</td>
<td>J J</td>
<td>J J</td>
</tr>
<tr>
<td>Introduction of a market information system among market chain actors</td>
<td>J J J J</td>
<td>J J J</td>
<td>L L L L</td>
<td>L K</td>
<td>J J J</td>
</tr>
<tr>
<td>Introduction of common product standards and grades along the chain</td>
<td>K K</td>
<td>L K</td>
<td>J J J</td>
<td>J J J</td>
<td>L K</td>
</tr>
</tbody>
</table>

* more J indicates support to a particular investment plan

Facilitating notes
- The information needs to be presented to the actors in an easily understandable and comparable way according to the rank that each group has given the limitation or the investment plan. If different
actors have used different terms to refer to the same problem or opportunity it is important that either all the terms appear (so that everyone can clearly see their point of view represented), or else a short phrase that attempts to pick up the essence of the problem/opportunity. If the second option is selected, the facilitator of the meeting must explain where the phrase comes from, and that this intends to reflect the terms used by the participants.

- It is a good idea to leave a space for the participants to provide feedback on the diagnostic by giving their opinions and clarify points that are confusing.

- It is important to emphasize not so much the diversity of viewpoints, which will certainly occur, but rather to emphasize common issues where a collective solution to the limitation may be found.

- The objective of this space is to show the participants that their problems are intimately interrelated. The links between actors and their difficulties serve as inputs to identify common causes and as a way of visualizing possible gains for various actors from changes made in one part of the market chain.

**Negotiation between market chain actors and service providers**

The second stage of the workshop seeks to facilitate discussion among participants, market chain actors and specialist service providers to identify the best way to improve market chain functionality. This process should flow from the problem and opportunity analysis included in the first part of the workshop. The objective is to identify joint activities, or areas in which joint activities could be generated, in the short, medium, and long term that can improve the market chain. Ideally, these activities will represent some type of gain for most market chain actors or, at least, for more than one of them. It is important to avoid focusing on solving one problem that principally affects one actor as the other participants will misinterpret this as favoritism and feel they have been taken advantage of.

In this stage, the real interest of the participants in supporting collective action in the market chain is put to the test.

**Facilitating notes**

- The role of the workshop facilitators is critical at this stage since equilibrium must be found among the distinct actors. The focus should be on how to generate positive solutions for most if not all participants, not gains for some at the expense of others.

- It is better to identify relatively simple activities in the short term and increase the level of complexity and difficulty over time even though complete solutions probably represent more gains than partial ones. We recommend this approach as most of the actors in the market chain do not know one another well, and many have histories of adversarial relationships. To achieve complex objectives, therefore, requires a process of incremental positive experiences through which actors can build trust in each other and confidence in the process of market chain improvement.
Identification of possible alliances for generating and implementing solutions

In the third step of the workshop, potential opportunities for collaboration are identified. This starts by listing investment plans and the actors who wish to participate each one, and what they are willing to contribute. A Table such as Table 26 could be generated.

<table>
<thead>
<tr>
<th>Stage</th>
<th>Activities</th>
<th>Participants</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>- Investment plan 1</td>
<td>Organizations and names of people directly responsible.</td>
<td>People, knowledge, time, funds, etc.</td>
</tr>
<tr>
<td></td>
<td>- Investment plan 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post harvest</td>
<td>- Investment plan 1</td>
<td>Organizations and names of people directly responsible.</td>
<td>People, knowledge, time, funds, etc.</td>
</tr>
<tr>
<td></td>
<td>- Investment plan 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Processing</td>
<td>- Investment plan 1</td>
<td>Organizations and names of people directly responsible.</td>
<td>People, knowledge, time, funds, etc.</td>
</tr>
<tr>
<td></td>
<td>- Investment plan 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td>- Investment plan 1</td>
<td>Organizations and names of people directly responsible.</td>
<td>People, knowledge, time, funds, etc.</td>
</tr>
<tr>
<td></td>
<td>- Investment plan 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business organization</td>
<td>- Investment plan 1</td>
<td>Organizations and names of people directly responsible.</td>
<td>People, knowledge, time, funds, etc.</td>
</tr>
<tr>
<td></td>
<td>- Investment plan 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A good method at this stage is to divide the investment plans by time frame (short, medium, and long term) and by resources (local, mixed and external resources). It is important to note that the concept of short, medium, and long term varies by market chain. One of the tasks of the negotiation workshop is to identify a feasible time frame with market chain actors for a given task. We recommend starting with pilot actions that show quick, tangible results—in a few months—to generate a positive dynamic around the strategy to increase competitiveness. In this sense, a reading of the participants’ degree of patience is important. More patient groups can opt for more ambitious initial results, while groups with pressing needs or low levels of trust need rapid results to achieve simple, but important, achievements (see Table 27).

This is similar to the idea of developing one or two pilot activities along the chain as a jumping off point for more ambitious processes of market chain improvement. A good pilot activity should:

1. Be feasible to achieve in a reasonable amount of time – six months – and generate tangible, measurable results for more than one actor in the market chain.
2. Lay the groundwork for more ambitious activities by showing the utility of working together.
3. Include a simple monitoring system that allows market chain members to assess the advances of the activity and make changes in a timely fashion if needed.
4. Be relatively low-cost and, where possible, draw principally on locally available resources, people and knowledge.
5. Focus on building positive relationships among market chain actors.

33. Marketing in this context can refer to either trade or retail. These are general categories and should be adapted or changed based on the needs of the market chain.
Table 27. Time and resources required for implementing a Strategy to Increase Competitiveness.

<table>
<thead>
<tr>
<th>Resources</th>
<th>Timeframe</th>
<th>Medium 6 to 12 months</th>
<th>Long &gt; 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Own</td>
<td>Short &lt; 6 months</td>
<td>What can we do in the next 6 months using principally our own resources?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>What can we do in the next 6 to 12 months by mixing local resources with targeted external help?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>What can we do in 1 year or more based on local capacity and a judicious use of external support?</td>
<td></td>
</tr>
<tr>
<td>External</td>
<td>If there is no sure source of funds in the short term, it is best focus on solutions that use local resources and knowledge.</td>
<td>What key activities in the next 6 to 12 months should be prioritized for limited external support?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>What key activities require external support over the long-term (i.e. targeted research) to help promote market chain competitiveness?</td>
<td></td>
</tr>
</tbody>
</table>

**Facilitating notes**
- At this stage in the workshop, goal is for market chain actors to commit to collaborate, and not so much the elaboration of detailed plans. Details can be worked out in the final strategy to increase competitiveness, and further revised and improved upon in additional workshops as the necessary confidence between the actors grows.
- The workshop facilitator should try to emphasize solutions that focus principally on the use of local resources since the attainment of external resources is a long, risky process. By choosing this path, solutions may take more time, but they will not be subject to external decision making processes divorced from local realities.

**Revision of the logical path**
Based on the above discussion, the logical path prepared previously is presented to the workshop participants for discussion and improvement.

At the end of the negotiation workshop the following products should be available that serve as input to the preparation of the final strategy:
- Identification of possible alliances to solve market chain problems and clear commitments in this respect.
- Anticipated investment plans, with times and external resource needs.
- Revised and improved logical path for a strategy to increase competitiveness.

### 10.4 Design of the Final Strategy to Increase Competitiveness

Based on the corrected technical document, the systemized results of the negotiation workshop, and the agreements achieved between the actors, a final version of the strategy to increase competitiveness is designed between the service provider and the market chain actors. Staff from the service provider can carry out the actual write-up of the document; however, the final version should be shared with and reviewed by the market chain actors to ensure validity.

This document can be a more extensive version of the technical document, adding the results and agreements of the negotiation workshop, or can be a new document with more details. Generally, various details from the negotiation workshop remain open for discussion, such as responsibilities, costs, and dates. These details should be developed and put in the final document either by the service provider or by a working group of market chain actors. In this sense, the final strategy is an on-going process. Three short case studies of final strategies and their implementation are shown in Boxes 7, 8 and 9 below.
CIAT does not recommend a specific format for the final strategy, as its use for planning joint actions and for developing funding proposals precludes a set structure. We do recommend, however, that the market chain have a logical general framework for the market chain improvement that all actors can agree upon and collectively seek to implement. This is especially true in big market chains where the total cost for implementing the complete strategy at once is prohibitive. In almost all cases, it is recommended to divide the strategy into specific subprojects focused on specific funding opportunities while, at the same time, not loosing sight of the relationships between each subproject.

In general terms, the strategy can be understood as a road map that defines a path for increasing the competitiveness of a market chain. The way in which the strategy is implemented depends on the actors themselves. There are examples of strategies of competitiveness that are implemented by local actors (formal and informal) with a minimum of external help, and others that have managed to obtain significant funding. It is important, therefore, not to view the strategy as a document, but rather as the first step in a process of discussion, collaboration, and support between actors focused on changing their relationships in a substantial way, and therefore the functioning of the market chain.

In the following and final module, some general guidelines for the monitoring and evaluation of strategies to increase competitiveness are presented.
Box 8

Cut flowers in Cauca, Colombia

The production of cut flowers – anthurium – has traditionally been a women’s concern in the Department of Cauca, Colombia. When good market opportunities appeared for this product, a market chain analysis was facilitated by CORPTUNIA, a local NGO, with three groups of women. The analysis of the farm to market chain revealed that profit were largely captured by flower shops in the departmental capital of Popayán while the producers themselves were barely covering costs. Armed with this information, a negotiating session occurred between representatives of the women’s groups and possible buyers. This process resulted in a 24% price increase for producers who, in return, agreed to sort, grade and pack the flowers based on their customers needs. More important that this initial gain, however, is the business vision which the women’s groups have developed that involves the establishment of a direct sales point in the city and, in the long run, the sale not of cut flowers but of floral arrangements.
Module 11
Monitoring of Strategies to Increase Competitiveness: General Guidelines

Guiding questions

1. What are some key factors for the design of a monitoring and evaluation system useful for the market chain actors?
2. What factors are key to measure changes originating from the strategy to increase competitiveness along a market chain?
3. What factors can we use to compare the market chain we are supporting with others that compete with it?
4. What are some indicators that permit us to measure the competitive performance of the market chain in selected markets?
5. What livelihood impacts can we anticipate to find on market chain actors over time?

11.1 Introduction

The implementation of a strategy to increase competitiveness can take many forms ranging from tacit agreements between groups of actors to form value chains, to the financing of important development projects whose aim is to improve one or various market chains in a rural territory. Facing this diversity, it is difficult to design a single system for monitoring and evaluation of the implementing of strategies to increase competitiveness. This module intends rather to present some key parameters at different levels that can be useful for measuring the changes achieved by these strategies. They should be taken as guidelines rather than as fixed rules. Naturally, each facilitating organization should revise, adapt, eliminate or add to this list to develop a system that is most useful for their needs.

11.2 Notes on Monitoring and Evaluation

Before beginning the design of a monitoring and evaluation system for a strategy to increase competitiveness, it is useful to reflect upon several questions. First, who are the intended users of the data generated by the proposed monitoring and evaluation system? Will the users be technicians, donors, or managers of the facilitating organizations, market chain actors, the government, or a mixture of these? How will the data be used the different groups? Depending on the users, a system or various systems should be designed in response to their needs, desires, and capacities. If a particular group is expected to help collect or analyze data in the process, it is important to ascertain if the group’s interests are clearly represented in the proposed system.

Second, the proposed system should be sufficiently simple or complex to respond to the needs of its users. If the monitoring and evaluation of the strategy will be implemented with market chain actors, the system should be designed with their participation so that it responds to their needs by generating information
useful for their decision-making processes. It makes no sense to design a complex system when the questions formulated by the users are simple, or conversely, a simple system to respond to the needs of academic researchers with complex questions.

Third, what are the objectives of the monitoring and evaluation system? Is it a system to help respond to the donor’s demands for information? Is it a system that intends to show the actors how near or far they are from the levels of competitiveness of other similar market chains? Is it to capture stories of positive changes for publicity reports? Is it to collectively learn about what works in improving a market chain and share it with others? Having clarity about the rational behind the system is important so that it is designed and dimensioned correctly.

Finally, a monitoring and evaluation system to be effective must continue to function over time. Who will manage the system? Who will take charge of collecting, processing, and feeding data into the system? How often? Will local persons or external experts carry out these activities? How will the management of the system be paid for? The system should be designed to be feasible to manage, maintain, and use.

11.3 Possible Factors for a Monitoring and Evaluation System

Some possible factors to take into account for a monitoring and evaluation system are set out below with their respective sources of information. Again, this list does not intend to be either complete or unique; it should be used as input for the design of a monitoring and evaluation system that responds to users’ needs.

11.3.1 Within the market chain

Â Production costs: Evolution of production costs in the market chain’s different links. Are the costs stable, increasing, or declining?

Â Yields per unit: Evolution of the yields or productivity per unit invested or employed in the market chain. For example, production per hectare planted, or quantity of cheese produced per liter of milk.

Â Value of final product: Evolution of the commercial value (in constant currency) of the final product or products of the market chain. Is the value of the product increasing, stable, or declining?

Â Profitability: Evolution of the product’s gross or net profit for the market chain. Profit can be calculated in the each link as an easy way to identify which actors capture a greater percentage of the benefits. Are overall profits increasing, stable, or declining?

Â Distribution of benefits: How does the distribution of final product or products value along the market chain and amongst diverse actors evolve over time? Who retains the most value, and how does this distribution change over time? This indicator is of special interest in projects focused towards poverty reduction.

Â Improvement of the market chain products and efficiencies: There are various ways of improving a market chain. Kaplinsky and Morris (2001)\(^{34}\) identified four key trajectories.

1. Process improvement: Increases in the efficiency in internal processes both in individual enterprises, and between enterprises in a market chain. Examples in a market chain are the frequent and timely delivery of products with the required quality as well as the ability of service providers to support market led / enterprise innovations.

2. Product improvement: Introduction of new products or improvements in existing products more quickly than by rivals. This implies changes in the processes of developing new products within and between enterprises.

3. **Functional improvement**: Increases in the added value by means of changes in the activities managed within an enterprise (for example, taking responsibility for quality within the market chain), or moving the focus of activities to different links of the market chain (for example, from production to marketing).

4. **Market chain improvement**: The market chain passes from a basic product to a processed one of greater value.

### 11.3.2 Benchmarking

Based on the first five indicators used to measure changes within the market chain, comparisons can be made between similar market chains. This process is useful if a similar, more advanced, market chain can be identified and data of the two market chains shared with the actors so that they can see what can be achieved. In the same way, if there is access to data of other similar market chains, existing good management practices could be identified and adapting them local needs. Table 28 lists some possible indicators and sources of verification.

**Table 28. Indicators and sources of verification within the market chain.**

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Source of verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production costs</td>
<td>Interviews or periodic workshops with strategic differentiated actors of the market chain</td>
</tr>
<tr>
<td>Yields per unit</td>
<td>Interviews or periodic workshops with strategic differentiated actors of the market chain</td>
</tr>
<tr>
<td>Value of final product</td>
<td>Survey of final value of product in the market</td>
</tr>
<tr>
<td>Profitability</td>
<td>Interviews or periodic workshops with strategic differentiated actors of the market chain</td>
</tr>
<tr>
<td>Distribution of benefits</td>
<td>Interviews or periodic workshops with strategic differentiated actors of the market chain</td>
</tr>
<tr>
<td>Improvement (processes, products, functions, market chain)</td>
<td>Direct observations, interviews, or periodic workshops with strategic differentiated actors of the market chain</td>
</tr>
</tbody>
</table>

### 11.3.3 In the market

- **Market penetration**: How is the market position of products from the market chain evolving? Is the participation of the products increasing, stable, or declining? In the same way, the segment of the market where the product is sold can be researched. Does the product reach a segment that is highly profitable, profitable, or only slightly profitable? Has this changed as a result of the strategy?

- **Sales volume**: Evolution of total volume of sales measured in kilos.

- **Sales value**: Value of sales of the market chain measured in constant currency.

- **Product differentiation**: Results from strategies to differentiate the market chain’s products in a specific market and thus gain a competitive advantage.

Table 29 lists some possible indicators and sources of verification.

**Table 29. Indicators and sources of verification of the market.**

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Source of verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market penetration</td>
<td>Periodic interviews or workshops with differentiated strategic actors of the market chain</td>
</tr>
<tr>
<td>Sales volume</td>
<td>Periodic interviews or workshops with differentiated strategic actors of the market chain</td>
</tr>
</tbody>
</table>
Sales value | Periodic interviews or workshops with differentiated strategic actors of the market chain. Periodic surveys in the target markets of the market chain, revision of secondary data on market prices.

Product differentiation | Periodic interviews or workshops with differentiated strategic actors of the market chain. Periodic surveys in the target markets of the market chain.

### 11.4 Results on livelihoods (by gender, population groups and economic status)

#### Participation of market chain income in the overall livelihood strategies of the target populations: Evolution of the percentage of the target population’s income originating from activities related to the market chain. This measurement can include the sale of products, employment, or reduction of purchases as a result of the strategy to increase competitiveness. How do the activities supported by the strategy contribute in the generation of livelihoods, and how do these contributions evolve? Are those who benefit from the market chain women or men? What population or income groups benefit the most or the least from improvements in the market chain? Why?

#### Diversification of income sources and income stability during the year: How to market chain activities affect the income diversity and security of the target population during the year?

#### Use of added income of the market chain: How does the target population use added income generated by the market chain? Who decides upon the use of the added income generated by the market chain?

#### Employment generation: How does the market chain contribute to temporary or permanent employment generation disaggregated by gender, ethnicity, or age. Who from within the community gains most from these opportunities?

#### Participation in the local economy: How does the relative importance of the market chain change over time in relation to other economic activities in the local economy?

Table 30 lists possible indicators and sources of verification.

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Source of verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income generated by the market chain as a percentage of local livelihood strategies</td>
<td>Periodic interviews or workshops with differentiated strategic actors of the market chain</td>
</tr>
<tr>
<td>Diversification and security of income sources</td>
<td>Periodic interviews or workshops with differentiated strategic actors of the market chain</td>
</tr>
<tr>
<td>Use of the market chain’s added income</td>
<td>Periodic interviews or workshops with differentiated strategic actors of the market chain</td>
</tr>
<tr>
<td>Employment generation</td>
<td>Periodic interviews, secondary government data</td>
</tr>
<tr>
<td>Participation in the local economy</td>
<td>Government data (if they exist)</td>
</tr>
</tbody>
</table>
11.5 Bibliography

http://www.nyt.com

http://www.usask.ca/agriculture/agec/publications/value market chains.pdf

http://www.ciat.cgiar.org/agroempresas/espanol/inicio.html

Holtzmann J., A rapid method to appraise market sub-sectors.
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http://www.ids.ac.uk/ids/global/pdfs/VchNov01.pdf


## Annexes

**Annex 1a  Matrices for evaluation of market chain investigation**

Agronomic evaluation tool

<table>
<thead>
<tr>
<th>Production alternative</th>
<th>Pre-Production cycle</th>
<th>Production cycle</th>
<th>Technical Information</th>
<th>Soil type (land)</th>
<th>Rainfall</th>
<th>Altitude m.a.s.l</th>
<th>Inputs required</th>
<th>Area of production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato</td>
<td>4 months</td>
<td>N/A</td>
<td>Fertility, pH</td>
<td>High</td>
<td>400 mm</td>
<td>None</td>
<td>Shed, service, Feeds</td>
<td>0.25 Acres</td>
</tr>
<tr>
<td>Pigs</td>
<td>1 month</td>
<td>3 months</td>
<td>N/A</td>
<td>High</td>
<td></td>
<td>Shed, service, Feeds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chilies</td>
<td>5 months</td>
<td>N/A</td>
<td>High</td>
<td>300 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production alternative</th>
<th>Pest and Diseases</th>
<th>Seasonality</th>
<th>Labour required</th>
<th>Planting density</th>
<th>Weeding / Feeding</th>
<th>Yield</th>
<th>Supply levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato</td>
<td>Bacterial wilt, Late Blight Dry rots</td>
<td>2 Seasons / yr</td>
<td>High</td>
<td>30 cm x 30 cm</td>
<td>2 times</td>
<td>32 bags</td>
<td>3200 kgs</td>
</tr>
<tr>
<td>Pigs</td>
<td>Worms, lice</td>
<td>High</td>
<td></td>
<td></td>
<td>2 times / day</td>
<td>24 piglets</td>
<td>24 piglets</td>
</tr>
<tr>
<td>Chilies</td>
<td>N/A</td>
<td>Medium</td>
<td>1 metre x 1 metre</td>
<td>1 time / month</td>
<td>180 g / plant</td>
<td>Need more info</td>
<td></td>
</tr>
</tbody>
</table>
Annex 1b Marketing evaluation matrix

<table>
<thead>
<tr>
<th>Production alternative</th>
<th>Current commercialization</th>
<th>Degree of perishability</th>
<th>Transportation availability</th>
<th>Delivery (channels)</th>
<th>Storage</th>
<th>Types of Markets</th>
<th>Price Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato</td>
<td>Yes</td>
<td>Intermediate</td>
<td>Difficult</td>
<td>At local mkt</td>
<td>Yes</td>
<td>1,2,3</td>
<td>No</td>
</tr>
<tr>
<td>Pigs</td>
<td>Yes</td>
<td>N/A</td>
<td>Difficult</td>
<td>Farm / mkt</td>
<td>N/A</td>
<td>1,2,3</td>
<td>Yes</td>
</tr>
<tr>
<td>Chilies</td>
<td>Yes</td>
<td>High</td>
<td>Easy</td>
<td>At Road</td>
<td>Yes</td>
<td>3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production alternative</th>
<th>Market information</th>
<th>Government Policy</th>
<th>Demand</th>
<th>Promotion</th>
<th>Quality</th>
<th>Packaging</th>
<th>Access to services</th>
<th>Market Relation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato</td>
<td>Low unfavourable</td>
<td>Favourable / low</td>
<td>high</td>
<td>Yes, No</td>
<td>Medium</td>
<td>Low cost</td>
<td>Via credit</td>
<td>Agree / Alliance</td>
</tr>
<tr>
<td>Pigs</td>
<td>Medium unfavourable</td>
<td>Favourable / low</td>
<td>high</td>
<td>Yes, low</td>
<td>Medium</td>
<td>Medium cost</td>
<td>Via credit</td>
<td>Agree</td>
</tr>
<tr>
<td>Chilies</td>
<td>Low unfavourable</td>
<td>Favourable / low</td>
<td>high</td>
<td>Yes, High</td>
<td>High</td>
<td>High cost</td>
<td>Via Buyer</td>
<td>Contract</td>
</tr>
</tbody>
</table>
## Annex 1c Financial evaluation matrix

<table>
<thead>
<tr>
<th>Production alternative</th>
<th>Production costs (UgS / acre / year)</th>
<th>Revenue (UgS / year)</th>
<th>Profit (UgS)</th>
<th>Family Labour (All, need hired labour)</th>
<th>Hire labour (No, if yes how many days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato</td>
<td>1,003,000</td>
<td>1,360,000</td>
<td>357,000</td>
<td>need hired labour</td>
<td>30 man days</td>
</tr>
<tr>
<td>Pigs</td>
<td>200,000</td>
<td>800,000</td>
<td>600,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chilies</td>
<td>928,500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrethrum</td>
<td>555,000</td>
<td>729,000</td>
<td>174,000</td>
<td>need hired labour</td>
<td>170 man days</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production alternative</th>
<th>Pre-production investment How much</th>
<th>Risk Low, medium, high</th>
<th>IRR</th>
<th>NPV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato</td>
<td>630,000</td>
<td>Medium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigs</td>
<td>200,000</td>
<td>Medium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chilies</td>
<td>150,000</td>
<td>High</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrethrum</td>
<td>262,000</td>
<td>High</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Annex 2 Marketing Checklist to evaluate key points in the market chain for a commodity

<table>
<thead>
<tr>
<th>Topic</th>
<th>Sub-Topics</th>
<th>Questions / Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Information</td>
<td>Name</td>
<td>For established firms try to get a business card, or mobile phone No. for purposes of future reference</td>
</tr>
<tr>
<td></td>
<td>Physical Address</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Telephone</td>
<td></td>
</tr>
<tr>
<td>Type of business</td>
<td>Value addition</td>
<td>How does the respondent add value along the market chain? Does he change the form of product (processor) or just move the product (transporter) or just store the product (wholesaler) or is he a retailer or consumer. Is there any vertical integration?</td>
</tr>
<tr>
<td></td>
<td>Physical functions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Experience</td>
<td></td>
</tr>
<tr>
<td>Demand</td>
<td>Quantity</td>
<td>-Quantity sold normally e.g. Per day, week,</td>
</tr>
<tr>
<td></td>
<td>Type of buyer</td>
<td>-To whom do you sell?</td>
</tr>
<tr>
<td></td>
<td>Seasonality</td>
<td>-Are there changes in volume of sale over time?</td>
</tr>
<tr>
<td></td>
<td>Variety</td>
<td>-Are there different varieties?</td>
</tr>
<tr>
<td></td>
<td>Consumer Preferences</td>
<td>-If so what is their respective demand / preference</td>
</tr>
<tr>
<td></td>
<td>Price data</td>
<td>-What is the price variation as per variety differences</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Are there changes in prices over time?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-If so what are the reasons?</td>
</tr>
<tr>
<td>Supply</td>
<td>-Source by area</td>
<td>-Do you find problems selling your products?</td>
</tr>
<tr>
<td></td>
<td>-Source by type of</td>
<td>-If so which ones?</td>
</tr>
<tr>
<td></td>
<td>person</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Price</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Quality</td>
<td></td>
</tr>
<tr>
<td>Quality</td>
<td>-Perishability</td>
<td>-Which are your supply areas (geographically)</td>
</tr>
<tr>
<td></td>
<td>-Post harvest issues</td>
<td>-From whom do you buy?</td>
</tr>
<tr>
<td>Storage</td>
<td>-Quantity</td>
<td>-From where do you buy? (Meeting pt.)</td>
</tr>
<tr>
<td></td>
<td>-Time</td>
<td>-At what price do you buy the variety?</td>
</tr>
<tr>
<td></td>
<td>-Storage problems</td>
<td>-Does the price change over time? If so why? &amp; How?</td>
</tr>
<tr>
<td>Transaction costs</td>
<td>-Forms</td>
<td>-Do you have problems getting products? If so which are they?</td>
</tr>
<tr>
<td></td>
<td>-Proportions</td>
<td></td>
</tr>
<tr>
<td>Grading &amp; Sorting</td>
<td>Grading incentive</td>
<td>-What are your transaction costs?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-What is their proportion?</td>
</tr>
<tr>
<td>Market Information</td>
<td>-Sources</td>
<td>-Do you grade or sort?</td>
</tr>
<tr>
<td></td>
<td>-Spatial arbitrage</td>
<td>-Do better grades fetch higher prices?</td>
</tr>
<tr>
<td>Price Formation</td>
<td>Market power</td>
<td>-Do you get market info? (e.g. on prices?)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-If so from whom and how?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Is there a relationship between prices in different areas at a given time</td>
</tr>
<tr>
<td>Institutional &amp; legal</td>
<td>Associations</td>
<td>-Who determines the price?</td>
</tr>
<tr>
<td>framework</td>
<td></td>
<td>-How is the price determined?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-If firm / individual is a price taker, find out why?</td>
</tr>
<tr>
<td>Market Structure</td>
<td>Competition</td>
<td>-Do you belong to an association?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Are there any market regulations? If so which are they and how do they affect your business?</td>
</tr>
<tr>
<td>Credit availability</td>
<td>Sources &amp; Type</td>
<td>-Are there any credit institutions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Do you use them?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-What are their rates of interest?</td>
</tr>
</tbody>
</table>
### Annex 3 Summary Information sheet. Example from Banana Market survey

<table>
<thead>
<tr>
<th>Organization &amp; Key Persons</th>
<th>Basic Information</th>
<th>Relation to Banana</th>
<th>Current Situation</th>
<th>Potential links to research</th>
<th>Next steps/ Follow up</th>
<th>General Remarks</th>
</tr>
</thead>
</table>
| **Organo Farms** / PO Box 29078 Kampala Uganda.  
Yicrav Smit  
Managing Director  
077 501144  
Yicrav@yahoo.com  
Kevin Plattz  
Consultant  
077 502330  
Kevin@yahoo.com | Organic fruit and vegetable exporters  
Own farm in Kanero and 62 Out growers in Rakai and Bugurari. | Export fresh and solar dried sukali ndizi to Germany (Frankfurt) UK  
Solar dried fruits used in Breakfast cereal, ice cream and snacks. | Exports: Fresh - approximately 1-2 tonnes per month  
Solar Dried – about 400 kg / month s. ndizi.  
Volume is growing (Problem is irregular insufficient sunshine)  
Suggest could double volume if overcome drying problem | Collaboration on Fusarium wilt (Panama disease)  
Research a cure / prevention of spread  
Need to know how to control ripening. How to start, stop and restart ripening  
Suggest research into temperature control and packaging  
Interest in exploring EU tastes | Return visit to explore interest in research into control of fresh sukali ndizi fruit ripening and packaging of dried products | Interested in attending a meeting with farmers groups but would only like to come when they are ready to discuss costs and volumes of supply.  
Would be interested to make links with new groups and would like to work with research on pests and solar drying methods. |
## Annex 4 Outline of a business / investment plan

<table>
<thead>
<tr>
<th>Sections of a business plan</th>
<th>Essential information</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cover</td>
<td>title, date, company name</td>
<td>Think about branding</td>
</tr>
<tr>
<td>2 Small print</td>
<td>confidentiality clause</td>
<td>This clause indicates that the information should not be shared beyond the interested parties.</td>
</tr>
<tr>
<td>3 Contact page</td>
<td>name, physical address, email, phone number</td>
<td></td>
</tr>
<tr>
<td>4 List of contents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Executive summary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Basis data</td>
<td>Company / group name, capital value, office address, Vision, Mission, Company values, Brief history of the company / group, latest financial statement</td>
<td>Paragraphs should be clear, concise and easily understood. Values can focus on ecological, ethical and fair trade aspects.</td>
</tr>
<tr>
<td>8 Business organization</td>
<td>Organisation, organizational diagram, can include short description of who does what.</td>
<td>This section should be brief, any detail should be annexed. Information for this section will come from your analysis of the target market chain.</td>
</tr>
<tr>
<td>9 Infrastructure and products</td>
<td>Description of your site, assets and product(s)</td>
<td>This section needs to be upbeat, highlighting the good points of your business unit and the value of the products.</td>
</tr>
<tr>
<td>10 Market and competitive analysis</td>
<td>Product type, target market locations, segments, territory of sales, competitors,</td>
<td>This information will be summarized from your market chain studies</td>
</tr>
<tr>
<td>11 Business strategy and operating plan</td>
<td>Overview&lt;br&gt;1. Describe your strategy, i.e., how you will get to your goal&lt;br&gt;2. Describe the stepwise activities that will make up your operational plan&lt;br&gt;3. Objectives&lt;br&gt;4. Results</td>
<td>This section is the core of the plan, you should focus attention here so that the plan is well structured, concise and that each stage is logically linked.</td>
</tr>
<tr>
<td>12 Sales records and projections</td>
<td>Introduction&lt;br&gt;1. Sales volumes&lt;br&gt;2. Production costs&lt;br&gt;3. Selling price of product</td>
<td>What will attract customers</td>
</tr>
<tr>
<td>13 Financial analysis</td>
<td>Profit and loss account&lt;br&gt;Costs, income, balance sheet&lt;br&gt;1. Cash flow&lt;br&gt;2. Break even&lt;br&gt;3. Loan requirements&lt;br&gt;4. Return to investment</td>
<td>This can be very simple if you plan for one product over one season which needs little investment and you have full knowledge of the product. However, financial planning can rapidly become more complicated as planning includes cash flow, loan costs, multiple years, multiple products and sales outlets. Seek assistance from persons with experience if you have any difficulties.</td>
</tr>
<tr>
<td>14 Risks</td>
<td>Risk assessment, test results based on risk studies, assumptions related to raw material costs and production feasibility, sensitivity analysis based on most critical cost factors</td>
<td>This section should outline the key risks you have considered with some analysis of what would happen if there are changes in the marketplace. This section will be more easily tackled if you have attempted a pilot project.</td>
</tr>
<tr>
<td>Annex</td>
<td>Description</td>
<td>Notes</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Sales forecast</td>
<td>The type of sales forecast will depend upon the product you are selling and the timeframe of production, i.e., sub-annual, annual, perennial.</td>
</tr>
<tr>
<td>2</td>
<td>Capital outlays</td>
<td>The timeframe should match the sales forecast.</td>
</tr>
<tr>
<td>3</td>
<td>Employee costs</td>
<td>Full and part time staff, including details of direct costs and other costs such as benefit packages if applicable (including in kind benefits, meals, transport, bonus payments, etc.)</td>
</tr>
<tr>
<td>4</td>
<td>Operating costs</td>
<td>Utilities, rent, furniture, depreciation, communications, computers, sales costs, legal fees, consultancy fees, insurance, local administration fees, extra-ordinary fees, etc.</td>
</tr>
<tr>
<td>5</td>
<td>Expenditure</td>
<td>Summary of payments over the period of the business plan. Budget notes, to explain the costs outlined in the budget.</td>
</tr>
<tr>
<td>6</td>
<td>Profit and loss account</td>
<td>Summary of all costs, incomes and resulting profit. This analysis may not be required, but will show a potential investor how your assumptions link into</td>
</tr>
<tr>
<td>7</td>
<td>Balance sheet</td>
<td>Detailed overview of how you calculated your asset and liabilities. The figures need to be supported with a written text to explain how you arrived at your results</td>
</tr>
<tr>
<td>8</td>
<td>Cash flow</td>
<td>Monthly analysis of your costs and incomes, to show how your cash flow will develop during the forecasted initial planning period The figures need to be supported with a written text to explain how you arrived at your results</td>
</tr>
</tbody>
</table>