

(INstruments and NEtworks for developing logistics towards Sustainable Territorial Objectives)

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District Logistics Analysis of

"The Casentino case study"

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Project home page: <u>www.districtlogistics.net</u>

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1. Executive summary

The objective of the District Logistics Analysis (DLA) carried out in the Casentino area was to identify the main characteristics of the material flows and the businesses performances. To this end a questionnaire was elaborated and a sample of key businesses was selected. Interviews followed. The information obtained regarding logistics flows were then used b determine the economic fabric of the Casentino Valley. The results concerning business performances were utilised to determine profiles (corporate "ideal-type") according to a benchmarking method.

The main indicators utilised to analyse *material flows* were: tonnes, Tkm, distances, territory interested (inside and outside the Valley), load typologies, transport modes, typology of matter transported, transport costs.

The indicators utilised to analyse *Business performances* were those of the balance sheets with more in depth questions focusing on the 10 aspects of the SDL Orientation.

The results are integrated into a <u>Regional Profile</u>, where the main characteristics of the logistics flows and businesses performances were evaluated in terms of strengths, weaknesses, opportunities and threats (SDL / SWOT analysis), taking into account the relationships between the sample and the Casentino entrepreneurial fabric. The results of the SDL / SWOT analysis were compared to those emerged from the Local Context Analysis (LCA).

Hypotheses of innovative option according to the SDL approach were identified, compared and integrated to those emerged from the Local Context Analysis (LCA), as summarised in the below <u>Regional Perspective</u>.

The correlation between the LCA hypotheses and the DLA findings is further explained in **Section 2**.

Section 3 gives the details on the SDL/SWOT analysis of the District Logistics Analysis.

Section 4 presents the results concerning logistics flows.

Section 5 analyses in depth the businesses performances.

Regional profile

A sample of businesses was chosen to represents the overall economic fabric of the Casentino Valley. Businesses were selected according to sector (agriculture, industry and services) and location (the thirteen municipalities) respecting both population and employment quantities. 40 companies were selected and directly interviewed with the assistance of field-workers. Answers obtained covered the 92% of the local units considered in the sample.

	Sample			
Municipality	Agriculture	Industry	Services	Total
Bibbiena	3	5	3	11
Capolona	0	1	2	3
Castel Focognano	0	1	0	1
Castel San Niccolò	0	0	0	0
Chitignano	0	0	0	0
Chiusi della Verna	0	1	0	1
Montemignaio	0	0	0	0
Ortignano – Raggialo	0	1	0	1
Роррі	1	4	5	10
Pratovecchio	2	1	1	4
Stia	0	1	2	3
Subbiano	0	1	1	2
Talla	1	0	0	1
Casentino total	7	16	14	37

From an employment point of view, the sample can be considered representative since there is a statistical error of 1,95% determined by the comparison between the 2.036 employed of the sample and the 9.147 employed in the corresponding activities of the entire Casentino Valley (data source: Chamber of Commerce). Even though the sample is more representative in the industry sector and services than in agriculture, the results maintain a good statistical tolerance due the importance played by the interviewed companies in terms of logistics flows and business performances.

The procedure to utilise the sample results to represent the Casentino economic fabric was based on specifically differentiated calculation for each sector (agriculture, industry and services) with relation to the employment dimension of the companies.

Redundancy was considered between the data on transport flows (Tkm) provided by the transport companies (third parties' account) and those declared by the companies of the other sectors (in part transport on own account and largely as third parties' services).

The inference gave a result that corresponds nearly exactly to the estimates formulated in the Local Context Analysis: 164 millions of Tkm.

As a conclusion, data collected from the District Logistics Analysis equalled the 48% of the total Tkm estimated in the Local Context Analysis and confirmed by the statistical inference: 79.133.112 (sample results) in front of the total amount of 164.177.600 (estimated data).

The District Logistics Analysis provided the following profile that concerns the companies interviewed between June and September 2003.

			S Strengths	W Weaknesses	O Opportunities	T Threats
С)1	Environment	••	••••	••••	•••
С)2	Economy	•••	••••	•••	
С)3	Socio-culture	••	••••	••••	
С)4	Equity between individuals	•••	•••	••••	
С)5	Equity between territories	••	••••	•••	
С)6	Equity between generations	•	••••	•••••	
С)7	Diversity	•••	••••	•••••	
С	8	Subsidiarity	•••	••••	•••	
С)9	Networking and partnership	•••	••••	•••	
С	010	Participation	•••	••••	•••••	

Compared to the regional profile resulted from the SDL / SWOT analysis of the Casentino Valley (see below), some differences emerge revealing: less Strengths and more Threats; more Weaknesses and Opportunities.

		S Strengths	W Weaknesses	O Opportunities	T Threats
01	Environment	••••	•••	•••	
02	Economy	••••		•••	
03	Socio culture	•••	••••	•••	
04	Equity between individuals	••	••	•••	•••
05	Equity between territories	•••			
06	Equity between generations	•••	•••	••	
07	Diversity	••••	•••	•••	••
08	Subsidiarity	••••	•••	••••	
09	Networking and partnership	••••	•••	•••	
010	Participation	••••	••••	••	•••

Regional Perspective

The hypotheses of innovative actions (Strengths + Threats # Weaknesses and Weaknesses + Opportunities = Strengths) stemmed from the District Logistics Analysis (DLA) call for a close complementarity with those elaborated in the Local Context Analysis (LCA). The integration between them (LCA + DLA) is necessary to create a Plan for Sustainable Accessibility in the Casentino Valley. In fact (see Section 2):

Combination between the SQM /			
SDL aspects: Dynamics (D), Social	Combination between	the hypotheses	of innovative actions
Potential (P), Orientation (O)	LCA results		DLA results
 D1 - Enhancing problem understanding P1 - Perception of a variety of development approaches O1 - Environment O2 - Economy 	A permanent structure to create a Plan for Sustainable Accessibility	is a necessary instrument	to promote corporate commitment and strategy
D3 - Negotiation and co-decision P3 - Capacity to cope with complexity and to anticipate change P10 - Shared value system taking into account environmental, socio- cultural and economic interdependencies P15 - Access to information and dialogue O9 – Networking and partnership	A roundtable on logistics issues with the involvement of a large variety of stakeholders	is an useful instrument	to elaborate territorial marketing and integrated logistics networks
D6 - Result orientation P2 - Entrepreneurial creativity and innovation P5 - Discovery and re-encoding of the local specificities and knowledge P7 - Fractal distribution of responsibilities and competence P8 - Facilitating structure for autonomy and collaboration into the decision-making P9 - Primary reliance on the endogenous resources without compromising the ones of the others O7 – Diversity O8 – Subsidiarity	A long term monitoring and evaluating system	gives better results if it is integrated with	a stable benchmarking system on business good practices through the collaboration of enterprise associations

Table: cluster of hypothesis of innovative options

Combination between the SQM / SDL aspects: Dynamics (D), Social Potential (P), Orientation (O)	Combination between the hypotheses of innovative actions		
D4 - Creation of a shared vision P13 - Capacity for creating shared visions of local development P16 - Existence of facilitators and animators of multiple interactions O10 – Participation	A group of local facilitators for "win- win" solutions	gives a fundamental support	to create and manage the "quality circles" that are at the basis of environmental and social marketing
D2 - Open collective learning P14 - Integration of social and technical skills for innovative processes O3 – Socio-culture	A "centre of resources" integrated to the LA 21 elaboration and implementation	gives a consistent help	to facilitate company investments in human capital
 D5 - Client orientation P4 - Enrichment of the local knowledge to create a cohesive multicultural environment P6 - Ability to reach optimal levels of attainment and fulfilment of life P11 - Social cohesion P12 - Opportunity and room for fair interactions O4 - Social equity (between individuals) O5 - Inter-local equity (between territories) O6 - Inter-temporal equity (between generations) 	Train ing and e- learning methods	are necessary tools	to improve entrepreneurial knowledge and strategy in disseminating the principles of social and environmental quality

2. Correlation between the DLA findings and the LCA hypotheses of innovative options

The District Logistics Analysis (DLA) identified some hypotheses of alternative options considering the answers provided from the interviewed businesses on their logistics flows and performances (see section 3. SDL / SWOT analysis). These hypotheses have a positive correlation with those resulted from the Local Context Analysis (LCA), as shown by the following tables.

O1 – Environment / O2 – Economy	
LCA - 1 st main hypothesis	DLA findings
To create a permanent structure for the study of sustainable logistics where local professionals interact with local and regional bodies to create a Plan for Sustainable Accessibility in Casentino. This structure will have the responsibility to coordinate hypothesis 2, 3, 4, 5 and 6.	To promote the corporate environmental commitment and to favour changes in business strategy on logistics management opening a long- term path aimed at reducing road transport in favour of rail mode with immediate measures that rationalise freight transport organisation.
 combination of attempts stemming from local initiatives in favour of sustainable development investments in e-logistics and e-commerce supported by the e-government network a co-ordinated organisational and management system of the supply and distribution chains based on freight rail transportation (e.g. night-freight-trains) combined with light freight road transportation (e.g. share-a-ride / vanpool) an inter-modal transport system based on linear connection by railway and transversal connections by road networks an integrated system (local network between the municipalities) to monitor and evaluate the total costs (economic, social and environmental) of the logistics structure and the impacts of logistics fluxes on the territory utilising a series of strategic indicators (qualitative and quantitative) that orient local stakeholders towards the quality improvement of business and spatial planning 	 exchange of good entrepreneurial practices towards sustainable development integration of local resources (financial, technical and managerial) to support local businesses flexible (e.g. dial-a-ride) but in common (e.g. share-a-ride) services (e.g. van-pool) of supply and distribution, supported by the e-government network and privately managed consolidation of freight loads in small logistics centres located in the existing railways stations and supported by ICT improvement of railways services (e.g. night-freight-trains) connected with the regional and national railways networks specific logistics plans co-decided between the large companies and the public authorities business investments in e-logistics and e-commerce integrated into the e-government network an annual award in service-voucher especially for small and medium sized enterprises

O9 – Networking and partnership	
LCA – 2 nd main hypothesis	DLA findings
To create a roundtable on logistics issues, with the involvement of a large variety of stakeholders for planning logistics fluxes, integrating accessibility issues into Local Agenda 21.	To involve local stakeholders in territorial marketing (e.g. local brands) and integrated logistics networks
 investment in impact analysis, monitoring and evaluating systems, research, learning and training creation of an integrated communication centre for public information on the issues related to sustainable development and logistics issues, enlarging the scope of the e-government network 	 creation of clusters and networks of supply, production and consumption with the collaboration of environmental departments and agencies as well as with the integration of this issue into the elaboration of the Valley Local Agenda 21 close relationships with international and European networks on CSR and sustainable businesses

O7 – Diversity / O8 – Subsidiarity	
LCA – 3 rd main hypothesis	DLA findings
To organise a long term system for monitoring and evaluating in order to assist logistics stakeholders to improve their activities in terms of economic, social and environmental diversification and to facilitate the participation of logistics stakeholders in integrated decision making	To support business innovation, creativity and investments to elaborate a plan concerning the promotion of the corporate environmental and social responsibility (CSR)
 a specific budget dedicated to logistics development (e.g. integration of public and private financial resources) a permanent monitoring system of the local, external and transit fluxes of freights clear criteria on stakeholder analysis and involvement in the public decision-making according to the specific field of problems, issues, policies and services programmes and projects to stimulate analogous methods in corporate strategies on a volunteer basis, providing financial support and technical assistance to disseminate CSR specifically in favour of existing small businesses and enterprise creation a Charter of main orientation principles and procedures to implement an integrated management of local plans development of methods of project financing based on clear protocols and agreements that respect local assistance making according to according to a participant. 	 a stable benchmarking system on local and international good practices accompanied by enquiries, research and scientific studies on biological, social, cultural and economic diversity clear criteria to involve all the enterprise associations and sectors (agriculture, industry and services), experts, NGOs, public and private development agencies

O10 – Participation	
LCA – 4 th main hypothesis	DLA findings
To create a group of local facilitators for "win-win" solutions, participation of local stakeholders, elaboration of locally -adapted methodology.	To support local businesses (especially small and medium sized enterprises and farms) in the elaboration of environmental and social marketing
 involvement of existing local development agencies and agents application for a new professional profile that combines sustainable development and logistics knowledge specific training courses 	• creation of a few numbers of "quality circles" per sectors and activity with the involvement of stakeholder samples (e.g. households, customers, suppliers, consumers' associations, environmental organisations).

O3 – Socio-culture	
LCA – 5 th main hypothesis	DLA findings
To create of a "centre of resources", integrated with Local Agenda 21 structures, in which knowledge, know-how and skills in sustainable logistics are developed year by year also through specific courses, seminars and workshops.	To facilitate company investment in human capital,
• integration of several financial resources and plans, e.g. EU – ESF Ob. 3 (provincial plan for vocational guidance and training), Community Initiatives (e.g. Leader Plus), research and education (university and schools), trade association, regional and provincial support to Local Agenda 21 elaboration	• integration of business strategy with external support in the fields of training, studies, research, managerial and technical assistance (e.g. on social audit with a specific focus on logistics management).

O4 – Social equity (between individuals) / O5 – Inter-local equity (between territories) / O6 – Inter-temporal equity (between generations)				
LCA – 6 th main hypothesis	DLA findings			
To include quality management issues and sustainable development principles in all training courses and e-learning tools for producers (employers and employees) and consumers (general public, job-seekers and unemployed, families, pupils) in order to increase awareness of sustainable logistics as a means to favour social cohesion and development in depressed areas over the next 15 years.	To improve entrepreneurial knowledge and strategy through the dissemination of the principles of social and environmental quality			
 new methods of services delivery (e.g. e-government network supporting e-commerce, e-logis tics, home -shopping, e-banking, e-administration) an integrated e-logistics and a safety-orientated inter-modal transport system based on the full utilisation of co-ordination potentials programmes and projects related to integration between different knowledge and cultures taking into account future impacts on logistics dynamics programmes and projects for fair interactions also in trade through logistics facilities with different immigrant communities and countries programmes and projects for positive actions in favour of women insertion in labour market, education and decision-making with a close attention to logistics impacts 	 a co-ordinated action plan on SA 8000 certification elaborated by the Mountain Community, the Province, trade associations, trade unions and relevant NGOs. elaboration of logistics plans in favour of fair trade through the dissemination of good practices among the Casentino stakeholders opening a specifically dedicated web-site in the e-government network with information on strategies, programmes and actions (e.g. the European World Shops, Fair Trade Organisation, ethical banks). a stable monitoring and evaluation system on strategic (long-term) impacts of processes, products and consumption utilising international sources of information and knowledge (e.g. the Dow Jones Sustainability Indices). 			

3. SDL / SWOT analysis (SDL Orientation)

O1 - Environment

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

- Reduction and optimisation of natural resource consumption (energy, soil, water, fuel, etc.)
- Reduction, re-utilisation and recycling parts of products, semi-products and wastes
- Pollution prevention and reduction
- Diffusion of new clean technologies, eco-efficient means and modes of transport
- Utilisation of renewable sources of energy

SDL / SWOT analysis

Strengths	2	Weaknesses	4
Interesting trends towards environment-friendly systems (also in transportation and warehousing), processes (e.g. recycling) and product (e.g. ecological property) in a limited number of industrial businesses and in examples of organic farming, sometimes supported by environmental quality certifications (i.e. ISO 14000/1 and bio- logical marks)	2	Lack of dissemination of methods and strategies for sustainable business as well as lack of environmental awareness and commitment in some economic sectors (e.g. services)	4
Threats	3	Opportunities	4
Probable isolation of the local good practices	3	Probable willingness and capacity of	4
within the re-emerging traditional entrepreneurial culture inattentive to environmental issues		implementing the principle of corporate environmental culture supported by EU, regional and local schemes	

Main hypotheses of alternative options

To promote the corporate environmental awareness and commitment through measures that favour:

- the exchange of good entrepreneurial practices, starting from the attempts made in the Casentino Valley and putting them in contacts with other examples at EU and international levels
- the integration of several types of local resources in a visible and streamlined path of financial, technical and management support.

O2 – Economy

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

- Reduction of the material, energy and transport flows with the related costs, including those concerning negative impacts on the environmental, work and social conditions
- Investments for improving corporate quality
- Investments in Information and Communication Technology to provide efficient customer services, rationalising logistics and substituting physical transport

SDL / SWOT analysis

Strengths	3	Weaknesses	4
Modern entrepreneurial culture in industrial companies that have national and international relationships	4	Lack of logistics knowledge in many firms as well as scarce entrepreneurial culture in the farming sector (e.g. management, marketing, accounting)	4
Some interesting logistics cases with a positive effects on rationalising and lowering the related costs	2	Logistics flows based on the prevalent utilisation of road transport, confirming the LCA results on environmental and social impacts and costs (externalities)	5
Threats	4	Opportunities	3
Probable unbalance between sectors and companies due to entrepreneurial individualism	3	Probable development of business services (e.g. administrative, management, financial and technical support)	4
Probable increase in considering logistics as an exclusive business issue without a more integrated territorial strategy (e.g. spatial planning)	4	Probable willingness of leading companies in lowering logistics costs by means of a more balanced transport system that will increase railroad utilisation	3

Main hypotheses of alternative options

To favour changes in business strategy on logistics management opening a long-term path aimed at reducing road transport in favour of rail mode with immediate measures that rationalise freight transport organisation through:

- consolidation of freight loads in small logistics centres located in the existing railways stations and supported by ICT to connect businesses and transport operators
- *improvement of railways services (e.g. night-freight-trains) connected with the regional and national railways networks*
- specific logistics plans co-decided between the large sized enterprises (especially in the industry sector) and the public authorities (e.g. the Mountain Community and the Province) in order improve efficiency and safety of the not-immediately converting road flows into rail freight transport
- flexible (e.g. dial-a-ride) but in common (e.g. share-a-ride) services (e.g. van-pool) of supply and distribution, supported by the existing e-government network ("rete civica") and privately managed (e.g. in association, partnership and more structured consortia)

- business investments in e-logistics and e-commerce integrated into the existing egovernment network in order to be potentially accessible from and to the Valley households
- an annual award in service-voucher for business assistance co-financed by a Valley trust of credit institutes and local authorities closely devoted to the small and medium sized enterprises, with selection criteria formulated according the sectoral typologies and business performances

O3 – Socio-culture

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

- Promotion of sustainable styles of production and consumption
- Investments in human capital, innovation, research and studies
- Investments for improving the corporate social quality

Strengths	2	Weaknesses	4
Some interesting business cases (e.g. industry)	2	Lack of dissemination of methods aimed at	4
that consider human capital as an internal		taking into account the interests of a wide range	
resource		of stakeholders in order to determine business	
		strategy (e.g. social audit)	
Threats	4	Opportunities	4
Probable decreasing in investment and expenses	4	Probable increase in social awareness supported	4
to improve the internal human capital and to		by the dissemination of knowledge on total	
ameliorate the business social image due to the		quality management (e.g. client centrality) and	
-	-		-

SDL / SWOT analysis

Main hypotheses of alternative options

To facilitate investment in human capital, integrating business strategy with external support (private and public) in the fields of training, research, managerial and technical assistance (e.g. on social audit with a specific focus on logistics management).

O4 – Social equity

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

• Improvement of management, work conditions and organisational behaviour (e.g. equal opportunities between women and men, eradication of any types of discrimination, health and safety)

SDL / SWOT analysis

Strengths	3	Weaknesses	3
Attention to work conditions and human capital due to good industrial relations in relevant companies	3	Lack of support to methods and strategies for social equity due to an increasing reduction of national public spending in social inclusion policies	3
Threats	4	Opportunities	4
Probable reduction in investment on this multi- dimensional aspect due to a reduction in company economic profits and dumping effects on the national and international markets	4	Probable willingness and capacity of implementing the principle of corporate social responsibility and quality certification (e.g. SA 8000) supported by EU, regional and local schemes	4

Main hypotheses of alternative options

To promote the principles of SA 8000 through a co-ordinated action plan elaborated by the Mountain Community, the Province, trade associations, trade unions and relevant NGOs.

O5 – Interlocal equity

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

• Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas

SDL /	SWOT	ana	lvsis
			JOID

Strengths	2	Weaknesses	5
Very few cases of fair and solidarity trade that	2	Lack of dissemination of methods and strategies	5
involve other countries with a low development		to support fair and solidarity trade	
rate			
Threats	4	Opportunities	3
Probable increase in wild competition between	4	Probable willingness and capacity of	3
companies and developed countries		implementing strategies based on mutual	
		exchange of knowledge, technologies and market	
		chances	

Main hypotheses of alternative options

To create the knowledge preconditions necessary for the elaboration of logistics plans in favour of fair trade through the dissemination of good practices among the Casentino stakeholders opening a specifically dedicated web-site in the e-government network ("rete civica") with information on strategies, programmes and actions (e.g. the European World Shops, Fair Trade Organisation, ethical banks).

O6 – Inter-temporal equity

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

• Investments in research and studies looking at the future generations

SDL / SWOT analysis

Strengths	1	Weaknesses	5
Very few examples of investment in this aspect	1	Lack of stable long-term orientation in macro-	5
that concerns the long-term entrepreneurial		economic strategy towards the future generations	
strategy		according to the principle of sustainable	
		development (e.g. environmental and social	
		inclusion policies) from the part of the national	
		government	
Threats	4	Opportunities	5
Probable increase in conflicting interests related	4	Probable increase in willingness and measures to	5
to long-term environmental and social issues		promote sustainable development from the part	
(e.g. energy crisis, immigration, poverty)		of regional and local governments, supported by	
		EU strategies	

Main hypotheses of alternative options

To support the business investments with a stable monitoring and evaluation system on strategic (long-term) impacts of processes, products and consumption utilising international sources of information and knowledge (e.g. the Dow Jones Sustainability Indices).

O7 – **Diversity**

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

• Innovation and diversification considering local identities and fabrics (biodiversity, habitat, socio-cultural heritage, economy vocations, small and medium sized enterprises)

SDL /	SWOT	analysis
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Strengths	3	Weaknesses	4
Interesting business cases aimed at promoting process and product diversification	3	Lack of awareness concerning the integration between economic, socio-cultural and environmental diversification in the industry and services sectors, whilst in agriculture bio- diversity and biological quality are not very well publicised and disseminated	4
Threats	4	Opportunities	5
Probable isolation of the economic diversification from environmental and socio- cultural conservation and diversification with the risk of reducing or jeopardising them	4	Probable increasing support for entrepreneurial strategies based on an integrated approach for diversification promoted by regional and local programmes, plans and schemes	5

Main hypotheses of alternative options

To support business innovation and creativity with a stable benchmarking system on local and international good practices accompanied by enquiries, research and scientific studies on biological, social, cultural and economic diversity.

O8 – Subsidiarity

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

- Contribution to a balanced local development, reducing the spatial range of material flows
- Contribution to the local communities empowerment, integrating top-down (global dimension) and bottom-up (local dimension) approaches

Strengths	3	Weaknesses	4
Interesting examples of reduction in material flows mainly in agricultural sector (e.g. organic farming) as well as examples of good business relations between larger industrial companies, local firms and networks	3	Lack of integration between individual logistics plans and a co-ordinated spatial planning	4
Threats	3	Opportunities	3
Probable increase in logistics costs and in dependency from outsider companies	3	Probable willingness and capacity of implementing territorial marketing and logistics with the involvement of relevant public bodies and initiatives	3

SDL / SWOT analysis

Main hypotheses of alternative options

To elaborate a plan concerning the promotion of the corporate environmental and social responsibility (CSR) involving all the enterprise associations and sectors (agriculture, industry and services), experts, NGOs, public and private development agencies.

O9 – Networking and partnership

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

- Investments in social capital (associations and networks) and alliances between businesses and environmental, socio cultural, ethical organisations
- Networked organisations (e.g. consortia between businesses, co-operation between private, public and social sectors)

SDL / SWOT analysis

Strengths	3	Weaknesses	5
Several examples of involvement in networks of economic interests	3	Lack of a diffused involvement in networks that promote social and environmental interests	5
Threats	4	Opportunities	3
Probable isolation of the local good practices within the re-emerging traditional corporate culture inattentive to the environmental, socio- cultural and ethical issues	4	Probable willingness and capacity of developing relationships and memberships in existing business networks orientated towards sustainable development	3

Main hypotheses of alternative options

To promote territorial marketing (e.g. local brands) and integrated logistics networks aimed at facilitating the creation of clusters and networks of supply, production and consumption with the collaboration of environmental departments and agencies as well as with the integration of this issue into the elaboration of the Valley Local Agenda 21, supported by the participation on CSR and sustainable business networks.

O10 – Participation

Descriptor

Sustainable District Logistics (SDL) orients the corporate strategy towards:

- Improvement of the relationships between the firm and the stakeholders constellation, taking into account new points of view, cultures, interests and behaviours
- Information, animation and facilitation

SDL / SWOT analysis

Strengths	3	Weaknesses	4
Attention to improve quality, business promotion	3	Lack of dissemination of methods and strategies	4
and marketing strategies mainly in the industry		for the involvement of a wide range of	
sector		stakeholders taking into account also those	
		"without voice" (e.g. the environment and the	
		future generations)	
Threats	4	Opportunities	5
Probable reduction in the attention on	4	Probable willingness and capacity of opening	5
stakeholder participation due to the re-emerging		and promoting new awareness on stakeholder	
of a less responsible corporate culture nourished		participation nourished by EU, regional and local	
by controversial schemes and behaviours at a		schemes	
national level (e.g. government strategies)			

Main hypotheses of alternative options

To support local businesses (especially small and medium sized enterprises and farms) in the elaboration of environmental and social marketing creating a few numbers of "quality circles" per sectors and activity with the involvement of stakeholder samples (e.g. households, customers, suppliers, consumers' associations, environmental organisations).

4. Logistics flows

The DLA questionnaire (see Annex) gathered information regarding the flows of supply logistics (Tab.1), distribution logistics (Tab.2), reverse logistics (Tab.3) and refuse/waste logistics (Tab.4).

In each table information regarded: origin, destination, average distance, volume, costs, transport mode, transhipment nodes and load type.

Data concerning each company were inserted in separated spreadsheets to calculate tonnes and Tkm related to supply, distribution, reverse and refuse/waste logistics, as well as the total flow. Specific formulas were used to calculate:

- 1. total Tkm occurring completely within the concerned local area, e.g. Tkm internally borne and internally provided in the supply chain, Tkm internally borne and internally delivered in the distribution chain; these are strictly endogenous flows which occur between origins and destinations located within the concerned local area;
- 2. total Tkm of flows beginning or ending outside the concerned local area, e.g. Tkm externally borne and internally utilised in the supply chain, Tkm internally borne and externally delivered in the distribution chain; these are exogenous flows and take into account the overall distances between origins and destinations;
- 3. the share of exogenous Tkm (from point 2) that transits within the local area e.g. tonnes of an externally delivered product that transit within the local area for a certain distance (km); these flows take into account the distances from and to the boundaries of the concerned local area by exogenous flows. Information was obtained to identify the main routes utilised to enter or to leave the concerned local area.

As a conclusion,

- the total Tkm occurred within the concerned local area were obtained by summing the results of the above-mentioned points 1 + 3;
- the total Tkm occurred outside the concerned local area were obtained by difference between the results of the above-mentioned points 2 3.

The calculations allowed researchers to identify additional questions that can improve the overall information value of the questionnaire (see Annex): that being to add a specific question on the identification of the main transit entrance points entering and leaving the concerned local area.

The following maps show the freight flows (supply, distribution and total) along the main transport networks of the Casentino Valley.

Supply logistics flow



Distribution logistics flow



Total freight flow Distribution, supply, reverse and refusal and waste



Freight flow

Sample results	Tonnes	Tkm occurred within the	e Casentino Valley
Supply logistics	2.638.848 60,06%	35.525.168	47,34%
Distribution logistics	1.723.162 39,22%	38.771.321	51,67%
Reverse logistics	2.177 0,05%	50.699	0,07%
Logistics of refusals and wastes	29.441 0,67%	695.283	0,93%
Total	4.393.628 100%	75.042.472	100%
Rail stations' flow(1)	106.694	4.090.640	
Overall total	4.500.322	79.133.112	
(1) The provided data do not allow for disaggre	egating them in each logistics t	ypology	

Taking into account the characteristics of each main sector (agriculture, industry and services) in terms of employment dimensions, the results of the sample were utilised to determine the overall Valley entrepreneurial fabric.

From the sample to the Valley economic fabric and	territorial dimension
Data (Tkm) resulted from the inference	164.081.491
Data (Tkm) estimated (Local Context	
Analysis)	164.177.600
Sample data over the Valley universe	48%

From the sample the most distant places emerged, demonstrating that the economic structure of the Valley is open to international market. This result is due more to large – medium enterprises (primarily industrial) than to the other sectors and sizes.

The most distant	t places reached in
supply logistics	distribution logistics
Chile	America
Japan	Argentina
China – Far East	Thailand
USA North/South	Hong Gong
	Singapore

Excluding reverse logistics and that of refuse and waste because of the very low amount (1% of the total Tkm) declared by the respondent companies, freight flows were distinguished between those occurred inside and outside the Casentino Valley with the following results.

Tkm inside	and outside Casentino area	
SUPPLY LOGISTICS	Tkm	%
Tkm occurred within the Casentino	35.525.168	8,62%
Tkm occurred <i>outside</i> the Casentino TOTAL OF SUPPLY	376.400.513 411.925.681	91,38% 100%
DISTRIBUTION LOGISTICS	Tkm	%
Tkm occurred within the Casentino	38.771.321	9,84%
Tkm occurred outside the Casentino	355.256.233	90,16%
TOTAL OF DISTRIBUTION	394.027.554	100%

Total supply and distribution logistics Tkm	805.953.235	100%
Tkm occurred within the Casentino	74.296.489	9%
Tkm occurred outside the Casentino	731.656.746	91%

More specifically, flows were identified according to their endogenous or exogenous nature with respect to the Casentino territory.

SUPPLY LOGISTICS	Tkm	%
Internally borne and Internally provided freight	1.864.995	0,23%
<i>Externally</i> borne and <i>Internally</i> provided freight	410.060.686	50,88%
DISTRIBUTION LOGISTICS	Tkm	%
<i>Internally</i> borne and <i>Internally</i> delivered freight	239.534	0,03%
<i>Internally</i> borne and <i>Externally</i> delivered freight	393.788.020	48,86%
TOTAL OF SUPPLY AND DISTRIBUTION	805.953.235	100%

The following maps present the transport flow in Tkm concerning the Casentino Valley.

Transport flow in Tkm

1 – Average share of freight transport internally borne, externally borne, and transit traffic: transit 0%; supply internally borne and internally provided 0,23%; supply externally borne and internally provided 50,88%; distribution internally borne and internally delivered 0,03%; distribution internally borne and externally delivered 48,86%



2 - Tkm inside and outside Casentino area: nearly 9% of the total Tkm of the supply chain occurs within the Casentino and 91% occurs outside the Valley. For distribution, the Tkm percentages are respectively 10% and 90%



Load typologies, transport mode and matter typology

The main load typologies were semi-bulk (82% in supply and 71% in distribution logistics), unitised (13% in supply and 15% in distribution) and bulk (5% in supply and 14% in distribution).

While the main transport mode was road in the inner connection of the Valley, sea-road combined transport prevailed especially in the supply traffic for international relationships, followed by the road-rail combined transport especially in distribution logistics.

The total amount of tonnes concerning the main aggregated typologies of matter transported gave the following results expressed in percentage:

MATTER TRANSPORTED	SUPPLY	DISTRIBUTION
Livestock and agricultural products	0,61%	0,53%
Food and forage products	0,48%	0,18%
Petroleum products	3,58%	0,00%
Mining products	0,98%	0,07%
Raw materials, manufacture products and building materials	88,19%	85,19%
Chemicals	4,03%	4,64%
Industrial machinery, vehicles and different merchandise	1,21%	7,90%
Waste – Urban, industrial agricultural	0,91%	1,47%
Waste – Special and dangerous	0,00%	0,01%
TOTAL	100% (2.638.848 tonnes)	100% (1.723.162 tonnes)

Transport costs

	Range of Transport Cost to each mains Sector	rs (Euro per Tkm)
	Supply	Distribution
Agriculture	0,14 - 11,89	-
Industry	0,01 - 6,00	0,03 - 1,16
Service	0,22 - 2,60	0,09 - 0,28

From the answers received, transport costs were the following ones:

Distinctive main characteristics per aggregated sectors

Different logistics profiles emerged between the three main sectors confirming a more reduced range of material flow in agriculture than in the sectors of services and industry:

Sector	Percentage	of Tkm of	occurred insi	ide and outside	Average d	istance in kr	n
	the Casenti	ino Valley					
		Total	Supply	Distribution	Total	Supply	Distribution
Agriculture	inside	20%	13%	32%	10 km	12 km	17 km
	outside	80%	87%	68%	48 km	87 km	52 km
Industry	inside	9%	8%	10%	17 km	13 km	23 km
	outside	91%	92%	90%	187 km	162 km	226 km
Services	inside	10%	16%	7%	17 km	16 km	17 km
	outside	90%	84%	93%	171 km	97 km	243 km

5. Business performances

5.1. SDL indices

The elaboration of the sensitive data collected through the questionnaires was made with the aim of identifying the current profiles of the interviewed firms.

The profiles regard the business performances and are structured according the SQM / SDL 10 orientators.

To this end, the questionnaire (see Annex) asked for more detailed information than those usually provided by the legally required balance sheet: Statements of Assets and Liabilities, Profit and Loss Accounts.

Data from the Statement of Assets and Liabilities gave information on total investments (Annex: Tab.5.A), tangible fixed assets (Annex: Tab.5.B), intangible fixed assets (Annex: Tab.5.C) and financial fixed assets (Annex: Tab.5.D), as well as on inventory – stock value (Annex: Tab.5.E).

Data from the Profit and Loss Account gave information on turnover (Annex: Tab.6.A), purchases, production, commercial, administrative and leasing costs (Annex: Tab.6.B), amortizations and reserves (Annex: Tab.6.C) and labour cost (Annex: Tab.6.D).

The questionnaire asked also for specific information on goods and services acquired from firms with a social and environmental quality profile, as well as on goods and services acquired from locally-based firms (Annex: Tab.7).

Data elaboration was made classifying the specific voices of the balance sheet according to their relevance and appropriateness in relation with the SDL orientators:

- in the case of turnover (Profit and Loss Account) the orientators concerning the environmental, socio-cultural and economic properties assigned to the value created
- in the case of all business costs (Profit and Loss Account) and all the 10 orientators
- in the case of the Statement of Assets and Liabilities, 6 orientators with the exclusion of Social Equity, Interlocal Equity, Intertemporal Equity and Diversity.

The results of the data elaboration were expressed in percentage values (SDL indices) in order to make it possible an easy comparison between the different profiles.

The following tables show both the methodology of classification and the aggregated and anonymous results concerning the business performances.

Methodology of classification

Su	stainable District Logistics	Voice of the Profit & Loss	Voice of the Statement of
) orights the corporate	Account related to the SDI	Economic Assets & Liabilities
	be to words:	Account related to the SDL	related to the SDL orientator
	Environment		Transit la Cine Lange des
01	Environment	Turnover:	Tangible fixed assets:
•	Reduction and	- estimate of the ecological	- systems for energy saving
	optimisation of natural	property attributable to the	and efficiency
	resource consumption	revenues from products and	- systems for water saving,
	(energy, soil, water, fuel,	performances	efficiency and recycle
	etc.)		- systems for minimising
•	Reduction, re-utilisation	Production costs:	greenhouse emissions
	and recycling parts of	- purchases of raw materials,	- systems for recovering and
	products, semi-products	subsidiary materials and goods	recycling of refusals, discards,
	and wastes	that are recyclable, recycled,	used products, etc.
•	Pollution prevention and	substitutive of dangerous	- systems for lowering ground
	reduction	materials	pollution
	Diffusion of new clean	- goods and services acquired	- bio-buildings, of which
-	technologies eco-efficient	from environmentally	warehouses
	means and modes of	responsible firms (e.g. ISO	- warehouse machineries with
	transport	14001. EMASII)	low environmental impact
	Litilization of renovable	- production expenses related	(energy, noise, pollution, etc.)
•	Utilisation of renewable	to the utilisation of renewable	- warehouse equipments with
	sources of energy	and recycled resources	low environmental impact
		(energy water etc.)	(energy noise pollution etc.)
		- commercial expenses and	- warehouse vehicles with low
		charges concerning logistics	environmental impact (energy
		and transport systems with	noise pollution atc.)
		and transport systems with	noise, ponution, etc.)
		environment saving	- systems to reduce packaging
		- commercial expenses and	- means of transport with low
		charges concerning re-usable	environmental impact (energy,
		and recycled packaging	noise, pollution, etc.)
		- leasing expenses for systems	
		of environmental protection	Intangible fixed assets:
			- environmental quality
			certifications and marks

Sus	stainable District Logistics	Voice of the Profit & Loss	Voice of the Statement of
(SI	DL) orients the corporate	Account related to the SDL	Economic Assets & Liabilities
stra	ategy towards:	orientator	related to the SDL orientator
02	Economy	Turnover:	Total tangible fixed assets, of
•	Reduction of the material,	- total revenues from products	which:
	energy and transport flows	and performances, of which	- lands assigned to warehouse
	with the related costs,	only with estimated economic	areas
	including those concerning	property	- warehouses
	negative impacts on the		- warehouse machineries
	environmental, work and	Production costs:	- warehouse equipments
	social conditions	- total purchases of raw	- warehouse vehicles
•	Investments for improving	materials, subsidiary materials	- means of transport
	corporate quality	and goods	- technologies for electronic
•	Investments in	- total production expenses	commerce
	Information and	- total commercial expenses	
	Communication	and charges, of which for	Total intangible fixed assets,
	Technology to provide	warehouse service, transport	of which:
	efficient customer	service, packaging	- economic quality
	services, rationalising	- total administrative and	certifications and marks
	logistics and substituting	overheads expenses, of which	
	physical transport	for customer services (and	Total financial fixed assets
		electronic commerce), risk	
		assurance for warehouse and	Inventory (stock value):
		transport, duties and taxes for	- final surplus of in working,
		the environment, waste, water,	semi-finished and finished
		etc., penalties for lacked	products
		respect of social and	- final surplus of raw
		environmentalnorms)	materials, subsidiary materials,
		- total leasing expenses	consumables and goods
		- total labour costs, of which	
		for transport, warehousing and	
		customer services	
		- total amortisation of	
		investments in tangible assets	
		(or which for warehouses and	
		transport) and reserves (of	
		which for transport and	
		warenouse risks)	

Sustainable District Logistics	Voice of the Profit & Loss	Voice of the Statement of
(SDL) orients the corporate	Account related to the SDL	Economic Assets & Liabilities
strategy towards:	orientator	related to the SDL orientator
O3 Socio-Culture	Turnover:	Intangible fixed assets:
• Promotion of sustainable	estimate of the socio-cultural	- social quality certifications
styles of production and	property attributable to the	and marks
consumption	revenues from products and	
• Investments in human	performances	
capital, innovation,		
research and studies	Production costs:	
• Investments for improving	- production expenses for	
the corporate social	research, tests, training, books,	
quality	socio cultural initiativos etc	
	socio-cultural initiatives, etc.	
04 Social equity	Production costs:	
• Improvement of	from firms socially	
and agement, work	responsible (e.g. SA8000)	
organisational behaviour	-production expenses for	
(e.g. equal opportunities	improving work organisation	
between women and men	behaviour, motivation, social	
eradication of any types of	relations	
discrimination, health and		
safety)		
O5 Interlocal equity	Production costs:	
<i>O5 Interlocal equity</i>Contribution to a balanced	Production costs: - commercial expenses and	
 O5 Interlocal equity Contribution to a balanced interlocal development 	<i>Production costs</i> : - commercial expenses and charges for fair trade	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity 	<i>Production costs</i> : - commercial expenses and charges for fair trade	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances 	<i>Production costs</i> : - commercial expenses and charges for fair trade	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial arros. 	<i>Production costs</i> : - commercial expenses and charges for fair trade	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas 	<i>Production costs</i> : - commercial expenses and charges for fair trade	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity 	Production costs: - commercial expenses and charges for fair trade Production costs:	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs:	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production costs:	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production costs: - production expenses for studies concerning economic,	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering local identities and fabrics 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production expenses for studies concerning economic, environmental, socio-cultural	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering local identities and fabrics (biodiversity, habitat, 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production expenses for studies concerning economic, environmental, socio-cultural diversification and innovation	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering local identities and fabrics (biodiversity, habitat, socio-cultural heritage,	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production expenses for studies concerning economic, environmental, socio-cultural diversification and innovation	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering local identities and fabrics (biodiversity, habitat, socio-cultural heritage, economy vocations, small and modiversification considering local identities and fabrics 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production expenses for studies concerning economic, environmental, socio-cultural diversification and innovation	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering local identities and fabrics (biodiversity, habitat, socio-cultural heritage, economy vocations, small and medium sized ontervines) 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production expenses for studies concerning economic, environmental, socio-cultural diversification and innovation	
 O5 Interlocal equity Contribution to a balanced interlocal development through fair and solidarity relationships and alliances between entrepreneurs of different territorial areas O6 Intertemporal equity Investments in research and studies looking at the future generations O7 Diversity Innovation and diversification considering local identities and fabrics (biodiversity, habitat, socio-cultural heritage, economy vocations, small and medium sized enterprises) 	Production costs: - commercial expenses and charges for fair trade Production costs: - production expenses for studies concerning appraisal and assessment of environmental, economic and socio-cultural impacts Production costs: - production expenses for studies concerning economic, environmental, socio-cultural diversification and innovation	

Sustainable District Logistics	Voice of the Profit & Loss	Voice of the Statement of
(SDL) orients the corporate	Account related to the SDL	Economic Assets & Liabilities
strategy towards:	orientator	related to the SDL orientator
 O8 Subsidiarity Contribution to a balanced local development, reducing the spatial range of material flows Contribution to the local communities empowerment, integrating top-down (global dimension) and bottom-up (local dimension) approaches 	Production costs: - goods and services acquired from local firms	<i>Financial fixed assets</i> : - participations in local production and consumption networks (e.g. purchase groups) - participations in organisations (networks) for responsible consumption
 O9 Networking / Partnership Investments in social capital (associations and networks) and alliances between businesses and environmental, socio cultural, ethical organisations Networked organisations (e.g. consortia between businesses, co-operation between private, public and social sectors) 	 Production costs: administrative and overhead expenses concerning subsidies for associations of economic, socio-cultural, environmental interests amortizations of investments in financial assets related to participations in firms, association, funds, networks 	<i>Financial fixed assets</i> : - participations in firms and associations of an economic nature - participations - donations in firms and associations involved in environmental and socio cultural issues - participations in ethical and green funds
 O10 Participation Improvement of the relationships between the firm and the stakeholders constellation, taking into account new points of view, cultures, interests and behaviours Information, animation and facilitation 	 Production costs: - commercial expenses and charges for operating social and environmental marketing - amortizations of investments in intangible fixed assets related to quality improvement and business promotion 	Intangible fixed assets: - strategic environmental marketing - strategic social marketing - strategic economic marketing

Profile results

The sensitive data are presented in an aggregated manner following benchmarking criteria that identify "ideal-types" combining information received from individual firms.

The procedure was as follows:

- a profile was determined for each respondent company, considering all the available answers and weighting the data in terms of percentage according to the SDL orientators utilised
- the profiles were separated in the three main sectors (industry, agriculture and services)
- for each sector, subcategories were created according to the typology of products, processes, markets (near or distant) and employment dimensions
- a selection was made to identify the best and the lowest results for each of the SDL orientators utilised
- the above results were handled again (weighted in terms of percentage) in order to draw two significant "ideal-types" for each main sector (industry, agriculture and services)
- the anonymous sectoral "ideal-types" were presented in an aggregated manner (SDL indices) by the following tables with the aims of demonstrating the tendency from a low to a better corporate performance.

Industry

PLEASE = Profit and Loss Economic Account with Social and Environmental dimensions				
Production costs	Percentage range		Turnover	Percentage range
O1. Environment	From 2,61% to 53%		O1. Environment	From 5% to 40%
O2. Economy	From 97,06% to 30,08%		O2. Economy	From 95% to 55%
O3. Socio-culture	From 0,02% to 1,30%		O3. Socio-culture	From 0% to 5%
O4. Social equity	From 0,07% to 0,46%		Total	100,00
O5. Interlocal equity	From 0% to 1,22%			
O6. Intertemporal equity	From 0% to 0,01%			
O7. Diversity	From 0% to 2,82%			
O8. Subsidiarity	From 0% to 9,55%			
O9. Networking and partnership	From 0,24% to 0,32%			
O10. Participation	From 0% to 1,24%			
Tota	100,00			

Goods and services acquired from:	Percentage range on production costs		
- socially responsible firms (es. SA8000)	From 0% to 1,3%	O3. Socio-culture	
- environmentally responsible firms (es. ISO 14001, EMASII)	From 0% to 43%	O1. Environment	
- local firms	From 0% to 9,55%	O8. Subsidiarity	

SEALES = Statement of Economic Assets and Liabilities with Environmental and Social dimensions			
Investments Percentage range			
O1. Environment	From 8,6% to 11,29%		
O2. Economy	From 85,74% to 79,51%		
O3. Socio-culture	From 0% to 0,15%		
O8. Subsidiarity	From 0% to 0,14%		
O9. Networking and partnership	From 0% to 2,7%		
O10. Participation	From 5,66% to 6,21%		
Total 100,00			

Agriculture

PLEASE = Profit and Loss Economic Account with Social and Environmental dimensions				
Production costs	Percentage range		Turnover	Percentage range
O1. Environment	From 10,32% to 62,67%		O1. Environment	From 70% to 100%
O2. Economy	From 83,91% to 19,91%		O2. Economy	From 30% to 0%
O3. Socio-culture	From 0% to 0,14%		O3. Socio-culture	0%
O4. Social equity	From 0% to 0,11%		Total	100,00
O5. Interlocal equity	0%			
O6. Intertemporal equity	0%			
O7. Diversity	0%			
O8. Subsidiarity	From 5,77% to 16,92%			
O9. Networking and partnership	0%			
O10. Participation	From 0% to 0,25%			
Tota	100,00			

Goods and services acquired from:	Percentage range on production costs		
- socially responsible firms (es. SA8000)	0%%	O3. Socio-culture	
- environmentally responsible firms (es. ISO 14001, EMASII)	From 9% to 62,67%	O1. Environment	
- local firms	From 6% to 16,92%	O8. Subsidiarity	

SEALES = Statement of Economic Assets and Liabilities with Environmental and Social dimensions			
Investments Percentage range			
O1. Environment	From 0% to 24,93%		
O2. Economy	From 100% to 74,76%		
O3. Socio-culture	0%		
O8. Subsidiarity	0%		
O9. Networking and partnership	From 0% to 0,31%		
O10. Participation	0%		
Total 100,00			

Services

PLEASE = Profit and Loss Economic Account with Social and Environmental dimensions			
Production costs	Percentage range	Turnover	Percentage range
O1. Environment	0%	O1. Environment	0%
O2. Economy	From 100% to 98,75%	O2. Economy	100%
O3. Socio-culture	0%	O3. Socio-culture	0%
O4. Social equity	0%	Total	100,00
O5. Interlocal equity	0%		
O6. Intertemporal equity	0%		
O7. Diversity	0%		
O8. Subsidiarity	0%		
O9. Networking and partnership	From 0% to 0,58%		
O10. Participation	From 0% to 0,67%		
Total	100,00		

Goods and services acquired from:	Percentage range on production costs		
- socially responsible firms (es. SA8000)	0%	O3. Socio-culture	
environmentally responsible firms (es. ISO 14001, EMASII)	0%	O1. Environment	
- local firms	0%	O8. Subsidiarity	

SEALES = Statement of Economic Assets and Liabilities with Environmental and Social dimensions				
Investments Percentage range				
O1. Environment	From 0% to 25,8%			
O2. Economy	From 99,98% to 65,96%			
O3. Socio-culture	0			
O8. Subsidiarity	0%			
O9. Networking and partnership	From 0,02% to 8,24%			
O10. Participation	0%			
Total 100,00				

Trends during the last five years

Data extracted from the Statement of Assets and Liabilities and from the Profit and Loss Account were accompanied by a short assessment of trends concerning the economic values recorded in the last five years: increased, equal or decreased.

An inclusive business profile emerged from the received answers (66% of the final sample) that show the following prevalent trends.

A scale from 0 to 3 dots underlines the trend intensity in terms of number of businesses that approached the profile.

Trend direction	Trend intensity		
Increased	Marked	$\bullet \bullet \bullet$	
Equal	Average	••	
Decreased	Feeble	•	

STATEMENT OF ASSETS AND LIABILITIES

A. TOTAL INVESTMENTS	Increased	•••
		-
A1. TOTAL TANGIBLE FIXED ASSETS, of which for:	Increased	$\bullet \bullet \bullet$
Lands assigned to warehouse areas	Increased	$\bullet \bullet$
Warehouses	Increased	••
- of which bio-buildings	None	e
Machineries for warehouse	Increased	•
- of which with low environmental impact (energy, noise, pollution, etc.)	Increased	•
Equipments for warehouses	Increased	••
- of which with low environmental impact (energy, noise, pollution, etc.)	Increased	•
Vehicles for warehouses	Increased	••
- of which with low environmental impact (energy, noise, pollution, etc.)	Increased	•
Systems to reduce packaging	Increased	•
Means of transport	Increased	••
- of which with low environmental impact (energy, noise, pollution, etc.)	None	e
Systems for energy saving and efficiency	Increased	•
Systems for water saving, efficiency and recycle	Increased	•
Systems for minimising greenhouse emissions	Increased	•
Systems for recovering and recycling of refusals, discards, used products	Increased	•
Bio-buildings	Increased	•
Systems for lowering ground pollution	Increased	•
Technologies for electronic commerce	Increased	•

A2. TOTAL INTANGIBLE FIXED ASSETS, of which for:	Increased	••
Environmental Quality certifications and marks (specify)	Increased	•
Social Quality certifications and marks (specify)	None	e
Economic Quality certifications and marks (specify)	Increased	•
Strategic environmental marketing	None	e
Strategic social marketing	None	
Strategic economic marketing	Increased	•

A3. TOTAL FINANCIAL FIXED ASSETS, of which for:	Equal	••
Participations in firms and associations of an economic nature	Equal	••
Participations – donations in firms and associations involved in environmental and socio-cultural issues	Increased	•
Participations in ethical and green funds	Increased	•
Participations in local production and consumption networks (purchase groups, etc.)	Increased	•
Participations in organisations (networks) for responsible consumption	None	e

INVENTORY: STOCK VALUE	Increased	••
Final surplus of in working, semi-finished and finished products	Decreased	•
Final surplus of raw materials, subsidiary materials, consumables and goods	Increased	••

PROFIT AND LOSS ACCOUNT

A. TURNOVER:		
Total revenues from products and performances	Increased	$\bullet \bullet \bullet$

 $\bullet \bullet \bullet$

Increased

B. PRODUCTION COSTS

Total of the purchases of raw materials, subsidiary materials, consumables and goodsIncreased		••
- of which recyclable, recycled, substitutive of dangerous materials	Increased	•

Total of production expenses, of which for:	Increased	••
research, tests, training, books, newspapers and magazines, socio-cultural initiatives, etc.	Increased	•
studies for appraisal and assessment of environmental, economic and socio- cultural impacts	None	2
studies for economic, environmental and socio-cultural diversification and innovation	Increased	•
improvement of work organisation, behaviour, motivation, participation and social relations	Increased	•
utilisation of renewable and recycled resources (energy, water, etc.)	Increased	•

Total of commercial expenses and charges, of which for:	Increased	••
warehouse services	Increased	•
transport services	Increased	•
logistics and transport systems with environment saving	Non	e
packaging	Increased	•
- of which re-usable and recycled	Increased	•
operating social marketing	Non	e
operating environmental marketing	None	
fair trade	Increased	•

Total of administrative and overhead expenses, of which for:	Increased	••
customer services	Increased	•
- of which electronic commerce	Increased	•
risk assurance for warehouse and transport	Increased	•
duties and taxes for the environment, waste, water, etc.	Increased	•
penalties for lacked respect of social and environmental norms	None	e
subsidies for associations of economic, socio-cultural and environmental interests	Increased	•

Total of leasing expenses	Increased	•
- of which for systems of environmental protection	None	

Total labour cost, of which for activities regarding:	Increased	••
- transport	Increased	•
- warehouse	Increased	•
- customer services	Increased	•

Total amortizations and reserves, of which:	Increased	••
amortizations of investments in tangible fixed assets related to warehouses and transport	Increased	•
amortizations of investments in intangible fixed assets related to quality improvement and business promotion	Increased	•
amortizations of investments in financial assets related to participations in firms, associations, funds and networks	Decreased	•
reserves for transport and warehouse risks	Increased	•

Future business innovative actions

A final question regarded actions scheduled for the next five years (see Annex: Tab.8) in the environmental and logistics fields.

The received answers underlined the following main contents.

Actions to reduce:	Basic contents of the projects
Energy consumption (all the	Energy saving system and machineries
types)	Natural gas pipeline
	Energy generation from production discharges
	Solar panels
	Power factor corrector equipments
	Thermal efficiency systems
Wastes	Recovery of plastic packaging, ferrous and copper scraps
	Differentiated waste collecting
Acoustic pollution	Noise reduction equipments and monitoring systems
	Electric warehouse vehicles and other machineries with low
	acoustic emissions
Air pollution	Monitoring system of production dust emissions
Logistics costs	Railway siding between rail stations and industrial plants
	Warehouse-internal rail-tracks
	Optimisation of layout and production processes
	Rationalisation of transport services
Costs for electronic commerce	Improvement of e-commerce
Others	Education courses on biological methods in agriculture
	ISO 14001 certification

5.2. Logistics costs

A calculation of the logistics costs was made elaborating data of the balance sheets and adjusting the results according to basic criteria defined by a long series of research e.g.:

- Donald J. Bowersox, David J. Closs and Omar K. Helferich, *Logistics Management*, 3rd ed., Macmillan, New York, 1986
- James C. Johnson and Donal F. Wood, *Contemporary Physical Distribution and Logistics*, 3rd ed. PenWell Publishing, Tulsa, 1986
- James R. Stock and Douglas M. Lambert, *Strategic Logistics Management*, 2nd ed., Irwin Homewood, Illinois, 1987
- A. T. Kearney, *European Logistics*, 1994, enquiry quoted in European Communities, *Transport networks*, Kogan Page Earthscan, London, 1997.

Logistics costs	Voice of the Profit & Loss Account	Voice of the Statement of Assets & Liabilities
Transportation	Production costs:	
	- transport services	
	- logistics and transport systems with	
	environment saving	
Warehousing	- warehouse services, packaging	
	- labour costs for warehousing	
Administration	- (labour costs for transport, warehouse,	
	customer services) / total labour costs x Total	
	administrative and overhead expenses	
Inventory carrying	- packaging	Inventory (stock value):
	- operating social and economic marketing	- final surplus of in
	- fair trade	working, semi-finished
	- customer services (and electronic	and finished products
	commerce)	- final surplus of raw
	- risk assurance for warehouse and transport	materials, subsidiary
	- reserves for transport and warehouse risks	materials, consumables
		and goods

Also the logistics costs are presented in an anonymous manner but they strictly refer to individual firms.

The procedure was as follows:

- a calculation was made for each respondent company
- the calculations were separated in the three main sectors (industry, agriculture and services)
- for each sector, subcategories were created according to the typology of products, processes, markets (near or distant) and employment dimensions
- a range was calculated from the lowest to the highest costs for each main sector (industry, agriculture and services)
- the best performances were selected within the above range and presented in the following tables.

Industry

Logistics costs	Percentage range of costs over turnover
Transportation	From 3,3% to 16,8%
Warehousing	From 0,9 to 2,5%
Administration	0,6%
Inventory carrying	From 1,7% to 2%
Total on turnover	From 6,4% to 21,9

Agriculture

Logistics costs	Percentage range of costs over turnover
Transportation	From 0,2% to 5,3%
Warehousing	2,5%
Administration	From 1% to 2%
Inventory carrying	2,3%
Total on turnover	From 5,9% to 12,1

Services

Logistics costs	Percentage range of costs over turnover
Transportation	From 1,5% to 4,7%
Warehousing	From 2% to 10,4%
Administration	From 5% to 0,1%
Inventory carrying	From 1,7% to 1,1%
Total on turnover	From 10,2% to 16,2

5.3. Overall comment

Firstly, it should be fully acknowledged that:

- the questionnaire was administered on a volunteer basis, for research purposes without an immediate return from a business point of view and a profit nature (e.g. quality improvement, technical assistance and managerial support to the firm, awards or financial incentives in favour of corporate social and environmental responsibility)
- even though the interviewed companies manifested a collaborative attitude, some of them did not answer all the questions in order to protect sensitive data or because it was difficult to calculate data in such a detail as it was requested by the questionnaire
- different level of entrepreneurial language, knowledge and skills emerged from the answers received to questions that were very technically formulated in all the three areas of investigation (logistics, profit and loss account, statement of assts and liabilities)

Secondly, the above-reported results delineate different sectoral profiles:

- *industry*; an important corporate culture emerges in well locally established companies that have national and international relationships, along with a consolidated practice of good industrial relations; in this case, more attention can be detected also on the environmental and social issues which progressively are incorporated in the company strategy, in the quality of the products and processes, improving the company image on the markets (e.g. responsible marketing and appropriate certifications); good business relationships are established with local firms and those that are socially and environmental responsible; investments and expenses are made to improve human capital and work condition, to adopt systems that are environmentally friendly (also in warehousing and transport) and to utilise recyclable, recycled and not dangerous raw materials, dedicating some attention also on the impacts on a long term perspective
- *agriculture*; an interesting role is played by organic farms that express a developed awareness and knowledge on biological systems with a positive impacts also in logistics, reducing the material flows; less evidence is given to the social nature of the agriculture (and biological) activities generally because it "culturally" absorbed as an aspect of the environmental commitment; moreover, being very small farms, less attention is focused on the formalisation of procedures regarding work organisation and relationships, as well as certain lack of entrepreneurial culture can be detected in management, marketing, accounting, business relationships, etc.
- *services*; in comparison with industry and agriculture, a flatter profile emerges in the services "ideal-type"; this sector seems to be characterised by low awareness and attention on the issues that are at the basis of the SDL approach, with a prevalently traditional corporate culture focussed on economic and business relationships; anyway it is too risky and too early to arrive at an overall consideration, given that a wide range of activities are included in this sector making it difficult to generalise the enquiry results.

Thirdly, the experimentation demonstrated that:

- the questionnaire worked well allowing researchers to assess trends towards the SDL approach (performance indices)
- a separated section should be introduced into the questionnaire and dedicated to logistics costs, specifying the meaning of the related voices and suggesting the way to calculate them
- as far as the services sector is concerned, there is need for a more in depth enquiry through the enlargement of the sample and its articulation in different comparable types of activities (economic categories)

Fourthly, the experimentation opens a perspective for a permanent benchmarking system according to the following recommendations:

- the benchmarking system should be organised by a partnership between the local trade associations (e.g. industry, craftsmanship, agriculture, services) and managed with the involvement of the existing development agencies with the aim of combining technical, administrative, training and financial support to enterprises and small businesses towards the increasing of corporate social and environmental responsibility
- relationships between the individual firm and the benchmarking system should be nourished by contractual bases (e.g. companies that provide sensitive data will receive the aggregated results immediately and free of charge, while those not involved in the system will pay to receive a summarised report)
- the benchmarking system should be utilised as an instrument to foster quality certification, lowering its costs and promoting a preferential access to financial support through specific agreements between trade associations, public authorities, the regional loan institution (FIDI Toscana) and the relevant credit institutes that operate in the Casentino Valley



District Logistics Analysis (DLA) Questionnaire

April – May 2003



This questionnaire is addressed to a panel of **firms** of **Casentino**.

Questions regard fluxes, organisation and costs of the business logistics

The questionnaire is structured in tables where the existing available data should be reported.

In case of difficulty or unavailability, please report anyway estimated data that relate to the individual business case.



A first series of tables regards fluxes of supply logistics (Tab.1), distribution logistics (Tab.2), reverse logistics (Tab.3) and refusal / waste logistics (Tab.4). Each table asks for information on: origin, destination, average distance, volume, costs, transport mode, transhipment nodes and load type.

A second series of tables regards the business organisation and the related costs.

Data from the Statement of Assets and Liabilities give information on total investments (Tab.5.A), tangible fixed assets (Tab.5.B), intangible fixed assets (Tab.5.C) and financial fixed assets (Tab.5.D), as well as on inventory – stock value (Tab.5.E).

Data from the Profit and Loss Account give information on turnover (Tab.6.A), production costs (Tab.6.B), amortizations and reserves (Tab.6.C) and on labour cost (Tab.6.D).

Data extracted from the Statement of Assets and Liabilities and from the Profit and Loss Account are accompanied by a short assessment of trends in the last five years.

Eventually, Tab.7 asks for information on goods and services acquired from firms with a social and environmental quality profile, while Tab.8 regards actions scheduled for the next five years.

All questions refer to the year 2002.

If 2002 data are not available, please refer to most recent year.

In any case, please specify the year of reference:

Year of reference	

According to law n. 675/1996 (privacy), all data reported in this questionnaire will be utilised only in anonymous and aggregated form. Absolute secrecy is guaranteed and all data, from which interviewed persons and situations could be identified, will be duly destroyed after the aggregated and anonymous elaboration.



Tab.1 - SUPLLY LOGISTICS: relative to raw materials, subsidiary materials, consumables and goods, utilised by the company for its productive activities. To at least consider the 80% of the value of purchase of the aforesaid matters.

_						1				T		s
Load type (c)										est city		t transport modes
Transhipment nodes (b)									ths by road	he name of the near		ent between differen
Transport mode (a)									he initial and final pa	ase identify them by t		litate their transhipme
Only transport costs									ways, sea, air, while t	transport modes. Ple		oils, etc. , hides). vrapped, etc.) to facil
Total cost of logistics services								of modes	urney is by rail, water ¹ l	goods can also change		lets, big boxes, rolls, c 1g (e.g. sand, concrete, , swap bodies, shrink-v
Amount (volume) in tonnes							avigation	g a number or variety c	principal part of the jo	houses, hubs) where g		e moved in packs, pal aded without packagir ite systems (container
Average distance covered in km							and waterways, Air n	ansport of goods using	 road-rail operation;] then at least two transi 	aces (e.g. depots, ware		(semi-bulk) – goods ar olid and liquid) are lo is are loaded in appos
Drigin (city / Vation)							Rail, Road, Sea	Intermodal – tra	<i>Combined</i> – e.g <i>Multimodal</i> – w	Intermediate pla		<i>General cargo</i> Bulk – goods (s <i>Unitised</i> – good
Matter							(a) Transport mode			(b) Transhipment	noues	(c) Load type

(intermodal transport) without any other manipulation.



Tab.1 - SUPPLY LOGISTICS: relative to raw materials, subsidiary materials, consumables and goods, utilised by the company for its productive activities. To at least consider the 80% of the value of purchase of the aforesaid matters.

	r										
Load type (c)											
Transhipment nodes (b)											
Transport mode (a)											
Only transport costs											
Total cost of logistics services											
Amount (volume) in tonnes											
Average distance covered in km											
Origin (city / Nation)											
Matter											



Tab.2 - DISTRIBUTION LOGISTICS: relative to the delivery of the company products. To at least consider the 80% of the value of sale of the products.

(intermodal transport) without any other manipulation.



Tab.2 - DISTRIBUTION LOGISTICS: relative to the delivery of the company products. To at least consider the 80% of the value of sale of the products.

Load type (c)											
Transhipment nodes (b)											
Transport mode (a)											
Only transport costs	2										
Overall cost for logistics services	0										
Volume in tonnes											
Average distance covered in km											
Destination (city / Nation)	(
Product											



back to depot / warehouse in order to integrate them into the productive system (recycle, repair, re-utilisation, etc.). To at least consider the 80% of the Tab.3 - REVERSE LOGISTICS: relative to collecting returns from the consumers (products, discards, damaged or recalled goods) and bringing them value of sale of the goods (to enclose printout if necessary).

Return typology	Origin (city / Nation)	Average distance covered in km	Amount (volume) in tonnes	Total cost of logistics services	Only transport costs	Transport mode (a)	Transhipment nodes (b)	Load type (c)
(a) Transport mode	Rail, Road, Sea	and waterways, Air n	avigation					
	Intermodal – tri	ansport of goods using	a number or variety o	of modes				
	<i>Combined</i> – e.g	5. road-rail operation; 1	principal part of the jou	urney is by rail, watery	vays, sea, air, while 1	the initial and final pa	aths by road	
	Multimodal - w	/hen at least two transp	oort modes are utilised					
(b) Transhipment nodes	Intermediate pla	aces (e.g. depots, ware	houses, hubs) where g	goods can also change	transport modes. Ple	ase identify them by 1	the name of the neare	st city
(c) Load type	General cargo	(semi-bulk) – goods ar	e moved in packs, pall	lets, big boxes, rolls, c	oils, etc.			
	Bulk – goods (s	solid and liquid) are lo	aded without packagin	ng (e.g. sand, concrete,	hides).			

Unitised - goods are loaded in apposite systems (container, swap bodies, shrink-wrapped, etc.) to facilitate their transhipment between different transport modes

(intermodal transport) without any other manipulation.



Tab.4 - LOGISTICS OF REFUSALS AND WASTES OF THE PRODUCTION

Refusal and D waste typology /]	Destination (city Nation)	Average distance covered in km	Volume in tonnes	Overall cost for logistics services	Only transport costs	Transport mode (a)	Transhipment nodes (b)	Load type (c)
Industrial not toxic								
Special and / or dangerous								
Liquid								
Urban and								
assimilated								
Packaging								
Agricultural								
(a) Transport mode	Rail, Road, Sea	and waterways, Air no	avigation					
	Intermodal – tr:	ansport of goods using	a number or variety o	of modes				
	<i>Combined</i> – e.g	; road-rail operation; p	principal part of the jou	urney is by rail, waterv	vays, sea, air, while t	he initial and final pa	ths by road	
	Multimodal – w	/hen at least two transp	ort modes are utilised					
(b) Transhipment nodes	Intermediate pl	aces (e.g. depots, warel	houses, hubs) where g	goods can also change t	ransport modes. Plea	ise identify them by t	he name of the neares	st city
(c) Load type	<i>General cargo</i> (Bulk – goods (s	(semi-bulk) – goods are olid and liquid) are loa	e moved in packs, pall aded without packagin	lets, big boxes, rolls, c ¹ 1g (e.g. sand, concrete,	oils, etc. hides).			
	Unitised - good	ls are loaded in apposi	te systems (container,	, swap bodies, shrink-v	vrapped, etc.) to facil	litate their transhipme	ent between different	transport modes

(intermodal transport) without any other manipulation.







TAB.5 - STATEMENT OF ASSETS AND LIABILITIES

ASSETS / LIABILITIES	EURO	Regarding the	last 5 years in	vestments are:
		INCREASED	EQUAL	DIMINISHED
		(+)	(=)	(-)

Tab.5.A - Total		_	
Investments	+		-

Tab.5.B - Total			
investments	1	_	
intangible	+	_	-
fixed assets			

OF WHICH FOR:				
Ware houses and transport				
Lands assigned to warehouse areas	+	=	-	
Warehouses	+	=	-	
- of which bio-buildings	+	=	-	
Machineries for warehouse	+	=	-	
- of which with low environmental impact (energy, noise, pollution, etc.)	+	=	-	
Equipments for warehouses	+	=	-	
- of which with low environmental impact (energy, noise, pollution, etc.)	+	=	-	
Vehicles for warehouses	+	=	-	
- of which with low environmental impact (energy, noise, pollution, etc.)	+	=	-	
Systems to reduce packaging	+	=	-	







Means of transport	+	=	-
- of which with low environmental impact (energy, noise, pollution, etc.)	+	=	-

Total factory layout, warehouses included

Systems for energy saving and efficiency	+	=	-	
Systems for water saving, efficiency and recycle	+	=	-	
Systems for minimising greenhouse emissions	+	=	-	
Systems for recovering and recycling of refusals, discards, used products, etc.	+	=	-	
Bio-buildings	+	=	-	
Systems for lowering ground pollution	+	=	-	
Technologies for electronic commerce	+	=	-	

Tab.5.C - Total intangible fixed assets	OF WHIC	+ CH FOR:	=	-
Processes of quality improvement and business promotion				
Environmental Quality certifications and marks (specify which:		+	=	-
Social Quality certifications and marks (specify which:		+	=	-
Economic Quality certifications and marks (specify which:		+	=	-







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Strategic environmental	I	_	
marketing	+	_	-
Strategic social marketing	+	=	-
Strategic economic marketing	+	Ξ	-

Tab.5.D - Total financial fixed assets		+	=	-
OF WHICH FOR:				
Investments in participations				
Participations in firms and associations of an economic nature		+	=	-
Participations – donations in firms and associations involved in environmental and socio-cultural issues		+	Η	-
Participations in ethical and green funds		+	=	-
Participations in local production and consumption networks (purchase groups, etc.)		+	=	-
Participations in organisations (networks) for responsible consumption		+	=	-

Tab.5.E - Inventory: stock value				
Final surplus of in				
working, semi-finished		+	=	-
and finished products				
Final surplus of raw				
materials, subsidiary			_	
materials, consumables		+	=	-
and goods				
Total stock value		+	=	-







TAB.6 - PROFIT AND LOSS ACCOUNT

VOICE	EURO	Regarding the last 5 years the value is:		the value is:
		INCREASED (+)	EQUAL (=)	DIMINISHED (-)

Tab.6.A - Turnover					
Total revenues from products and performances		+	=	=	-
Estimate (in percentage) of the ecological property attributable to the value of the sale				%	
Estimate (in percentage) of the socio-cultural property attributable to the value of the sale (responsible consumption, fair trade, etc.)				%	

Tab.6.B – Production costs				
Total production costs		+	=	-

Total of the purchases of raw materials, subsidiary materials, consumables and goods	+	=	-
- of which recyclable, recycled, substitutive of dangerous materials	+	=	-

Total of production expenses		+	=	-
	OF WHI	CH FOR:		
Research, tests, training, books, newspapers and magazines, socio- cultural initiatives, etc.		+	=	-







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Studies for appraisal and			
assessment of			
environmental,	+	=	-
economic and socio-			
cultural impacts			
Studies for economic,			
environmental and			
socio-cultural	+	=	-
diversification and			
innovation			
Improvement of work			
organisation, behaviour,	I	_	
motivation, participation	+	_	-
and social relations			
Utilisation of renewable			
and recycled resources	I	_	
(energy, water, etc.) in	Ŧ	—	-
the production processes			

Total of commercial expenses and charges	+	=	-
OF	WHICH FOR:		
Warehouse services	+	=	-
Transport services	+	=	-
Logistics and transport systems with environment saving	+	=	-
Packaging	+	=	-
- of which re-usable and recycled	+	=	-
Operating social marketing	+	=	-
Operating environmental marketing	+	=	-
Fair trade	+	=	-







Total of administrative and overhead expenses	+	=	-
	OF WHICH FOR:		
Customer services	+	=	-
- of which electronic commerce	+	=	-
Risk assurance for warehouse and transport	+	=	-
Duties and taxes for the environment, waste, water, etc.	+	=	-
Penalties for lacked respect of social and environmental norms	+	=	-
Subsidies for associations of economic, socio-cultural and environmental interests	+	=	-
Total of leasing	+	=	-

+	=	-
	+	+ =

Tab.6.C – Amortizations and reserves				
Total amortizations and reserves		+	=	-
	OF WHI	CH FOR:		
Amortizations of investments in tangible fixed assets related to warehouses and transport		+	=	-
Amortizations of investments in intangible fixed assets related to quality improvement and business promotion		+	=	-







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Amortizations of			
investments in financial			
assets related to	1	_	
participations in firms,	+	=	-
associations, funds and			
networks			
Reserves for transport		_	
and warehouse risks	+	-	-

Tab.6.D – Labour costs			
Total labour cost, of which for activities regarding:	+	=	-
- transport	+	=	-
- warehouse	+	=	-
- customer services	+	=	-

Tab.7 – Goods and services acquired from other firms		
Goods and services acquired from:	Amount in EURO	
- socially responsible firms (SA 8000, etc.)		
- environmentally responsible firms (ISO 14001, EMAS II, etc.)		
- local firms (Casentino)		

Tab.8 – Actions scheduled for the next five years		
Actions to reduce:	Basic contents of the projects	
Energy consumption (all the		
types)		
Wastes		
Acoustic pollution		
Air pollution		
_		
Logistics costs		
Costs for electronic commerce		