Report SWOT - Orientation

O1 - Environment

Sustainable District Logistics (SDL) orients logistics towards:

- Reduction of natural resource consumption (energy, soil, water, fuel, etc.)
- Preserving landscape configuration (density of hard infrastructures, etc.)
- Re-utilisation of products
- Recycling of 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

Strengths	•• Weal	knesses	•••
●●●● Agenda 21 initiatives	••••	 Regional plan of the County of Viborg - lack of integration of environmental indicators and object 	ctives
●●●●● SEED - Sustainable European Economic Development	•••	Weak rail based freight transport service	
●●●● Interactive web-site on green indicators	•••	Lack of public interest in environmentak issues	
Threats	Oppo	ortunities	•••
 Planned enlargement of speed and carrying c on existing main road network 	capacity ••	Development of "green accounting" on public ac in Viborg County	tivities
••• A rise in the intraregional commuting	•••	Reports on traffic, transport and infrastructure=increasing the knowledge of the planning authorities in the County of Viborg	
●●●● SME's lack of innovation in clean technologies	s ••••	■ Development of greening SME industries	
Political focus on environmental issues has di in Denmark	iminished ••••	Public awareness on damages on the environment	ent
•••• Increasing transit transport			

Main hypotheses of alternative options

To integrate environmental objectives in planning activities targeting infrastructure projects, business development of SME's, traffic and transport management.

- take actions towards a re-vitalisation of the freight transport by railway
- establishment of an inter-modal transport corridor based on ship-lorry-train via the commercial harbour of Hanstholm in the North-West of Viborg County
- development of an existing website established and supported by the regional authorities, that can monitor the environmental load from the transport sector by selected measurable indicators

O2 - Economy

Sustainable District Logistics (SDL) orients logistics towards efficiency, customer satisfaction and community well-being based on:

- Reduction of the material, energy and transport intensity (flows) in the economy (decoupling) also by means
 of soft and clean technologies
- Investments for the incorporation and reduction of the environmental and social costs in logistics accounting
- Dematerialisation of economy (durability of goods and services, miniaturisation of products, substitution of products by services)
- Reduction of transport growth and more balanced modal split in favour of rail and water
- Information and Communication Technology to substitute transport (e.g. telecommuting, home-shopping and delivering, teleconferences, teleworking, etc.)

Strengths		Weaknesses		
•••••	Strong specialisation within furniture and food production	 The regional industry generally characteris low-tech 	sed as	
••	Publicly financed programme aimed at supporting entrepreneurial activities	 Development of skills and competencies of workforce predominantly organised within (non-formalised competencies) 		
••••	Focus on business, economic growth and welfare	●●●● No focus on the reduction of transport gro	wth	
Threats	••••	Opportunities	••••	

- Predominantly small and medium-sized firms within the local transport and furniture industries
- •• Labour shortage of skilled workforce in specially in the furniture industry
- A lower level of formal training/qualifications among the workforce than average in DK
- Absence of higher-level institutions of education and research
- High dependency on industries within the primary sector (fishery and agriculture)
- Re-development of the harbour of Hanstholm from mainly handling fish to also value-adding activities related to fishery
- •••• Include the actors in the logistical chain to implement SDL
- ●●●● New routines in organising transport and logistics
- ••••• Include the actors in the logistical chain in order to promote SDL
- ••••• Increased focus in planning system of Viborg County on relationships between transport, infrastructure and regional development

Main hypotheses of alternative options

Increase the efficiency in the regional transport system in order to stimulate and sustain the economic activity in the region. To compensate for the peripheral location of SME's, that is orientated towards non-local markets, by an economic efficient and environmentally friendly organisation of freight transport and logistics:

- to develop the competence on advanced logistics services of local transport firms
- to orient attention and develop competencies of external logistics among local SME's as an strategic asset
- a co-development of business and environmental strategies on sustainable district logistics
- to prevent a re-location of local businesses within labour-intensive industries to Eastern European countries for example the furniture and metal working industries
- establishment of an inter-modal transport corridor based on ship-lorry-train via the commercial harbour of Hanstholm in the North-West of Viborg County. Development of intermodal hubs at the harbour of Hanstholm and a railway node in Viborg County (for example Thisted)

Report Swot Social Potential

SP.01 Perception of a variety of development approaches

The Sustainable District Logistics (SDL) approach is facilitated by:

 Willingness and practices of the logistics stakeholders (businesses, public authorities, civil society and communities) to open their views and ways of thinking, looking at new issues and conceptions on local and logistics development (debates, seminars, interdisciplinary working groups, animation and mobilisation of citizens, new plans on sustainable development, etc.)

Weaknesses

	Streng	uis	Weaki	169969	
	••••	Local initiative to strengthen innovation and marketing processes of the local and national furniture industry	••••	Little attention on environmental impacts from infrastructure and transport projects	n new
	•••	West-Link: a transport corridor from North Atlantic countries to Europe via Viborg County			
	•••	SEED - Sustainable European Economic Development			
	••••	Interactive web-site on green indicators			
	•••	Transport political Network			
	•••	North sea Commision, Network on transport corridors			
	••	Campaign on local traffic safety			
Threats		Oppor	tunities	•••••	
	•••••	Limited awareness on logistics and transport within the SME sector	••••	Introducing transport and logistics as compet within existing knowledge and innovation cer furniture production	

Main hypothesis of alternative options

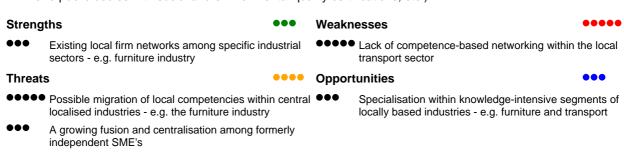
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- Tender of courses on logistics and environmental management for the needs of SME's via Centre of Wood and Furniture in the city of Skive
- Involvement of SME's in roundtables on specific implementation of SDL-measurements according to the conditions of the local industry

SP.02 Entrepreneurial creativity and innovation

The Sustainable District Logistics (SDL) approach is facilitated by:

- Reproductive capacity of the local context, based on common cultural roots, mobilisation of potential resources and research to improve the quality of life (projects and plans for sustainable businesses, banking, agriculture, tourism, etc.)
- Fertilisation of the local economic fabric to embed the single business into the fluxes of internal and external production relationships (typology and number of businesses, their life expectancy, sizes, markets, eco-efficiency technologies, etc.)
- Corporate Social Responsibility (CSR), defined by the recent (2002) European Union action framework, as
 "a concept whereby companies integrate social and environmental concerns in their business operations
 and in their interaction with their stakeholders on a voluntary basis" (typology and number of businesses
 and public bodies with social and environmental quality certifications, etc.).



Main hypotheses of alternative options

- actions and strategies towards new competencies within existing industrial clusters in Viborg County - e.g. less focus on manual work and greater focus on innovation and development activities within furniture, food and metal working manufacturing.

- strategy development of new localised forms of regional expertice and excellence beyond duplicable manual production - fx. logistics competencies in networks of SME's.

SP.03 Capacity to cope with complexity and to anticipate change

The Sustainable District Logistics (SDL) approach is facilitated by:

Strategies at local level able to increase the capacity of the logistics stakeholders to anticipate changes and
to cope with a large amount of problems finding solutions that can reduce uncertainty while evaluating and
managing local / global interdependencies (flexibility of the local economic and social fabric, integrated
programmes and common medium and long term projects supported by training and education on visioning
methods, chaos and complexity theories, etc

Stren	gths		Weakr	nesses	••••
•••	Transport political Network		••••	Existing programmes and networks on t environment and infrastructure objective involves experts, politicians and planner practitioners	primarily
••	North sea Commission, Network on transport co	rridors			
Threats		••••	Opportunities		•••
••••	 Lack of human and economic resources among SME's represents a hinder to cope with new challenges - e.g. sustainability strategies 		•••	Existing programmes and networks representations for introducing objectives and on sustainable logistics etc.	

Main hypotheses of alternative options

- Introduce the concept of sustainable district logistics within existing planning and policy networks such as Transport Political Network and the North Sea Commission on transport corridors
- Co-ordinate policies and actions via interregional networks on de-coupling economic regional growth from a parallel growth in freight traffic

SP.05 Discovery and re-encoding of the local specificities and knowledge The Sustainable District Logistics (SDL) approach is facilitated by:

Close interrelationships between the components of the concerned local context, considering different
cultures and knowledge that can have an impact on logistics processes (number of endogenous
companies, projects on local diversity recovery, cultural heritage, arts & crafts, oeno-gastronomy,
agro-eco-natural tourism, economic and social diversification, etc.)

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Stre	ngths	Weakr	nesses
•••	 A strongly localised industrial base within furniture and metalworking manufacturing with extensive export to world markets 	••••	Export relations for some industries are concentrated on few international markets with little scope for entries on new markets - e.g. the furniture industry's dependence on the German market
Threats		Opportunities	
•••	Rapid shifts in specific international markets	•••	Development of existing skills to advanced competencies in a globalised network economy
•••	Lack of higher level research and education institutions		
•••	Majority of workforce employed within primary and secondary sectors		

Main hypotheses of alternative options

- To increase the knowledge among local SME's on existing local specificities and assets, and the resources gained from inter-regional business networks. Through an identification of local characteristics, the supplement of non-local resources could be developed and directed strategically on a collective regional level.

Report Swot Dynamics

DY.02 Open collective learning

Changes in favour of Sustainable District Logistics (SDL) can be produced by:

Improving the capacity of the logistics stakeholders to acquire and utilise knowledge and know-how; this
means to develop a culture of co-operation in several policy fields, for instance in spatial planning and
territorial flows management

Strengths Weaknesses Close B-2-B relationships within the local furniture Rivalry and competition among SME's within same industry enhance rapide knowledge and experience sector creates inertia in sharing of knowledge exchange among furniture firms **Opportunities** ---Threats External take-overs of local firms could threaten The existing close relationships among local furniture localised trust-based inter-firm relations firms and transport firms represents a potential information and knowledge exchange network on best practices of logistics

Main Hypotheses for action

- Integration of knowledge and practical experience on environmentally efficient logistics and transport in seminars and workshops targeting the local SME's and provided by the local industrial boards and consultants.

DY.03 Negotiation and co-decision

Changes in favour of Sustainable District Logistics (SDL) can be produced by:

Improving the capacity of the logistics stakeholders to determine strategies that have the wider possible
consensus; this means to develop a culture of participation, attributing, for instance, equal decision role to
the different interest groups (economic, social and environmental)



Main Hypotheses for action

- The establishment of a network within major industrial clusters in the County of Viborg in order to develop and implement strategic actions on the regional freight logistics and transport.