A core TeDIS research area is the study of Industrial Districts and SMEs embedded in local manufacturing contexts and their evolution process in relation to Network Technologies. The objective of the research is to analyse the level of convergence between the district economic model of development and ICT opportunities.

The research area is made by:

- The <u>TeDIS Survey</u>, a research program that analyzes the diffusion of network technologies and the most challenging evolutionary trends within the Italian Industrial Districts according to a **quantitative approach**.
- The Enterprise evolution model research program, a qualitative analysis (focus groups, interviews, business cases) which goal is to investigate the structural characteristics of the convergence process between enterprises and technologies in the new economic scenario in order to delineate the model of the network enterprise as an emerging form of production organisation.

TeDIS Survey: Networks and Technologies for SMEs

Industrial districts as local networks of small and medium enterprises rooted their competitiveness in a mix of economic relationships and social ties. Recently network technologies have promised gains of efficiency through a reduction in transaction costs and showed new commercial opportunities for small firms; ICTs allow an enlargement in the spatial dimension of relationships, especially in a global economic scenario where the capacity to enter in an international network of innovation and knowledge production seems to be a strategic

Methodology

The Survey is focused on the main Italian industrial districts representing the so-called "Made in Italy": engineering, fashion (textiles, eyewear, shoes, and sportswear), home furnishings (furniture, glass, tiles), and food. In 1999 12 industrial districts of North East Italy were studied; at present they are 45 in the whole Italy. Only bigger firms within districts (at least more than 2.5 million euros of turnover) are object of the Survey; those firms have a more structured organisation and a potential higher investment capacity in ICT. Moreover, they are often leading firms and, according to the literature, their strategies are relevant in designing the evolution paths of the whole district. In 2006 the survey has been extended to not district firms (Northern Italy).

The map of the Italian Industrial Districts

Lombardia Furniture- Brianza; Stocking - Castelgoffredo; Textile - Como; Mechanics - Lecco; Metals – Lumezzane Piemonte Textile/clothing - Biella; Goldsmith - Valenza Po; Household appliance - Cusio; Mechanics - Pianezza Pinerolo Veneto Glass – Murano; Footwear - Brenta; Sportsystem – Montebelluna; Leather - Arzignano; Eyewear - Belluno; Furniture - Q. del Piave: Textile - Schio, Thiene, Valdagno; Mechanics - Schio, Thiene- Montecchio Friuli VG Chairs - Manzano; Furniture - Livenza;

Ham - San Daniele Emilia Romagna

Ceramic – Sassuolo; Textile - Carpi

Agricoltural machineries - Reggio Emilia;

Toscana

Textile - Prato;

Marble - Carrara;

Leather - S. Croce sull'Arno

Marche

Furniture – Pesaro; Footwear - Fermo;

Food - San Benedetto

Lazio

Cerami Abruzzo

Clothing Nord Abruzzese;

Clothing Sud Abruzzese

Puglia

Couches - Murge; Footwear - Salento;

Clothing - Salento; Footwear - Barletta

Campania

Footwear and clothing - Napoli;

Leather - Solofra;

Pasta - Gragnano; Souces - Nocera

The Enterprise evolution model research program

The results of the TeDIS Survey highlight the centrality of the role of the enterprise in the technology qualification process of local networks. Innovative enterprises have demonstrated their knowledge in redefining the origins of their own competitive advantage by combining their territorial context with original strategies.

Industrial districts, technologies, and networks (1999-2006)					
TeDIS research on network enterprise aims at investigating the characteristics of the convergence process between enterprise and new technologies in order to outline the characteristics of network enterprises as an emerging model of production organization, in which network technologies prove to be a significant element.					
Methodology					
Enterprises in different industrial sectors (mechanics, electronics, fashion, house-furniture) and districts of particular interest due to their importance in their respective markets in addition to their visibility as leaders in strategic innovation areas are involved. They are studied through the methodology of case study and are involved in focus groups.					
Specific topics covered are: Supply chain reorganization within the global market; Product innovation process and the role of the design; The evolution of the commercial network and final customers; Diffusion and enhancement of enterprise knowledge.					

Related Projects

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Reports and Publications

- Micelli S., Chiarvesio M., Di Maria E. (2010); "Global Value Chains and Internationalization of SMEs" Working Paper "Marco Fanno" n. 118: http://www.decon.unipd.it/assets/pdf/wp/20100118.pdf

- Chiarvesio M., Di Maria E.(2009); "ICT and Innovation Processes in SMEs Inside and Outside Districts": http://www.decon.unipd.it/assets/pdf/wp/20090100.pdf
- Chiaversio M., Micelli S. (2009), " <u>Le tecnologie di rete nelle PMI del Nord Est: diffusione e</u> <u>strategie</u> ", in Marini D., Oliva S. (a cura di), Rapporto Nord Est. X Rapporto sulla società e l'economia, Marsilio, Venezia.