

Appendix I

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Appendix II

Center for Tele-Information (CTI) Technical University of Denmark

Background

- The government has adopted a *strategy* to place Denmark in the *forefront* of the development towards an *information society*.
- Modern *telecommunication networks* are providing the electronic *foundation* for a future information society, and strengthening Denmark's participation in international life. Denmark is committed to international *leadership* in telecommunication sector reform.
- Center for Tele-Information (CTI) is an initiative of the *Technical University of Denmark (DTU)* and *Tele Danmark*, with strong support from the Danish government, to help Denmark developing an information society that is internationally competitive, while preserving its traditional values and culture. CTI provides a focal point for *multi-disciplinary research and training* in the new field of "tele-information".
- CTI was established in June 1994 with contributions of core expertise and research capability from *economics & social sciences; telecommunications engineering; and mathematical modelling & operations research*. Knud Erik Skouby was selected Director to lead the development of the CTI program.

Mission

- to build a *pre-eminent international center of knowledge* in the field of *tele-information* that encompasses, new technologies and service applications; markets, organisations and demand; government policies and regulations; economic, social and cultural implications of information society development.
- to build an *international network* of information exchange and joint activities with leaders in the field from the research community, industry, government agencies and other organisations.
- to fashion a *dynamic research program* that is responsive to priority issues of concern to education, industry, government and the community, and to disseminate research results in a timely and effective manner.

- to *apply* the knowledge and capabilities at CTI directly to developing *new courses* and *strengthening education and training* programs of all kinds at DTU, and elsewhere when appropriate.
- to establish a series of events and activities to increase the level of *public awareness* of information and telecommunication society issues and provide opportunities for *public discussion* and *feedback*.

Program

- CTI is a *multi-disciplinary* center engaged in research and training courses in tele-information that reflect a *synthesis* of technical, economic and social expertise, examined using both hard and soft methods of analysis. The research is directed to issues that are important to education, management and policy development. Courses are developed for graduate and post graduate engineering students, and to provide supplementary training for engineers, managers and policymakers.
- There are *two dimensions* to the activities of CTI. It is an *academic unit* within the university with a full range of research and teaching obligations. CTI is also a *player within the sector*, providing supplementary training, engaging in policy research and strategy discussions, arranging seminars and conferences, and related activities.
- The CTI program is built upon three main themes or pillars of knowledge: *Tele-technologies*; *Systems Analysis and Planning*; and *Economics and Social Sciences*. The *tele-technology* pillar has an emphasis on the functional aspects of telecommunication systems and the development of new applications. The *systems analysis and planning* pillar focuses on the use of information and communication technologies and services in organisations, and applications of tele-information systems and services in planning and decision-making. The *economics and social science* pillar focuses on new service applications, demand, markets, regulation and implications for development. The program integrates contributions from the three pillars to develop new knowledge both for the individual disciplines and their interdisciplinary intersections.

Education & Training

- The CTI program includes both formal and supplemental training, specialist short courses, public lectures, seminars and conferences on topical issues, and post-graduate research training, including the PhD in Danish and English.
- CTI enables a new type of specialisation at DTU that will provide engineers having extensive technical knowledge in telecommunication with additional qualifications in economic, market and organisational/regulatory issues. New interdisciplinary courses will be provided in interaction with additional technical qualifications.

- Post-graduate courses are designed for those employed in the telecommunication sector to upgrade their qualifications in economics, markets, organisation and regulation.
- Special short courses for executive level telecommunication sector managers and regulators are offered periodically.

Research Agenda

- **The Information Society** – This programme examines the emerging economic and social implications of information and telecommunication technologies and services, and the conditions influencing their application and diffusion.
- **The Networked Firm** – This programme analyses how firms and public organisations exploit the new opportunities opened up by electronic networks. More specifically the programme focuses on the design, planning and management of network information and decision support systems.
- **Internationalisation and Regulation** – This programme assesses the implications of new telecommunication and changed regulatory regimes on international trade and the division of labour – concentrating on the production of services.
- **New Teleapplications and Multimedia** – This programme focuses on the use of both multimedia and traditional single media to develop and evaluate teleapplications.

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