



L I R N E . N E T

Learning Initiatives on Reforms for Network Economies

# **Developing the Information & Communication Foundations for Internet Economies & Information Societies**

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# LIRNE.NET

[www.lirne.net](http://www.lirne.net)

A Strategic Collaboration for applied research and training, in support of effective policy and regulation for information infrastructure and new network economy development.

**LIRNEasia**, Colombo, Sri Lanka

**DIRSI**, Regional Dialogue on the Information Society

**LINK Centre**, Wits University, Johannesburg, South Africa

**Comunica**, Montevideo, Uruguay

**media@lse**, London School of Economics, UK

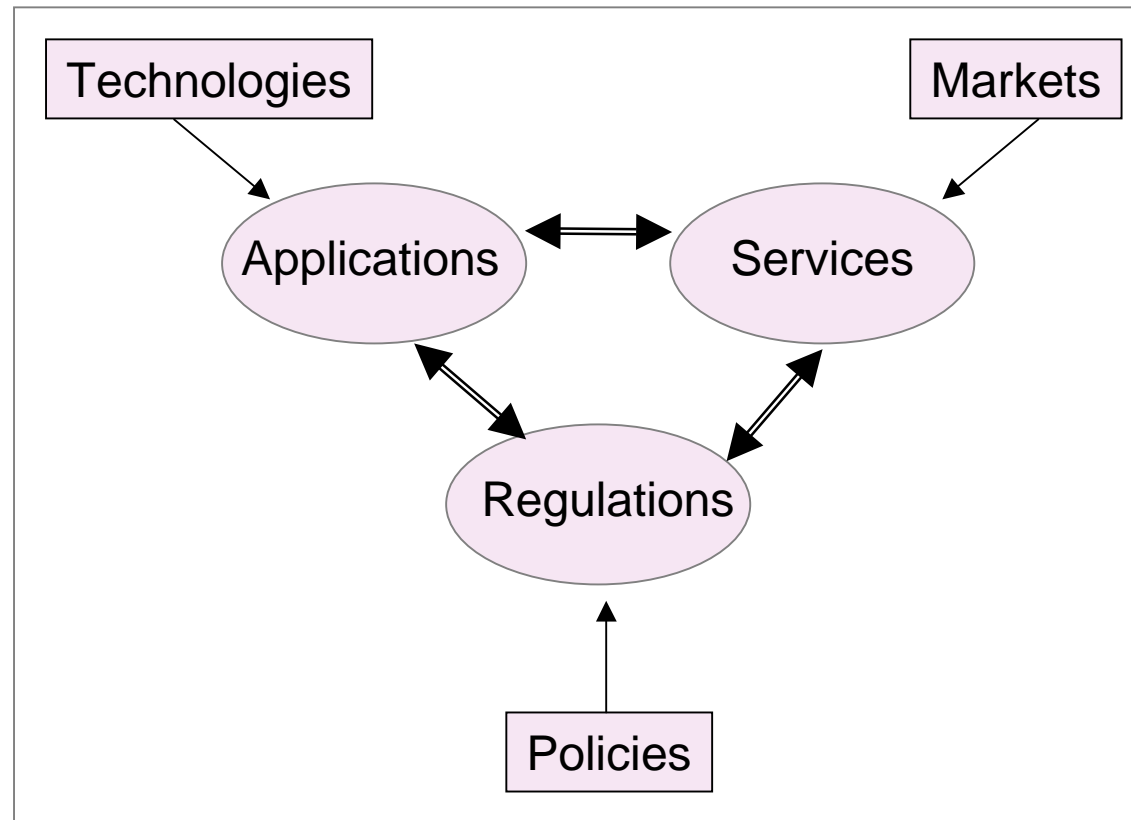
**Center for Information & Communication Technologies** (CICT), Danish Technical University

**Center for Communication, Media and Information Technologies** (CMI), Aalborg University

**Economics of Infrastructures**, Delft University of Technology, Netherlands



# Shaping the Development Path



Understanding the Driving Forces and Interactions



## 3 Waves of Network Development

### ***First Wave*** (Mature)

- Liberalizing participation – licensing new technologies and services
- Digitalization, computerization, packet-based switching, mobility
- Enhanced networks & services



## 3 Waves of Network Development ***Second Wave*** (In process)

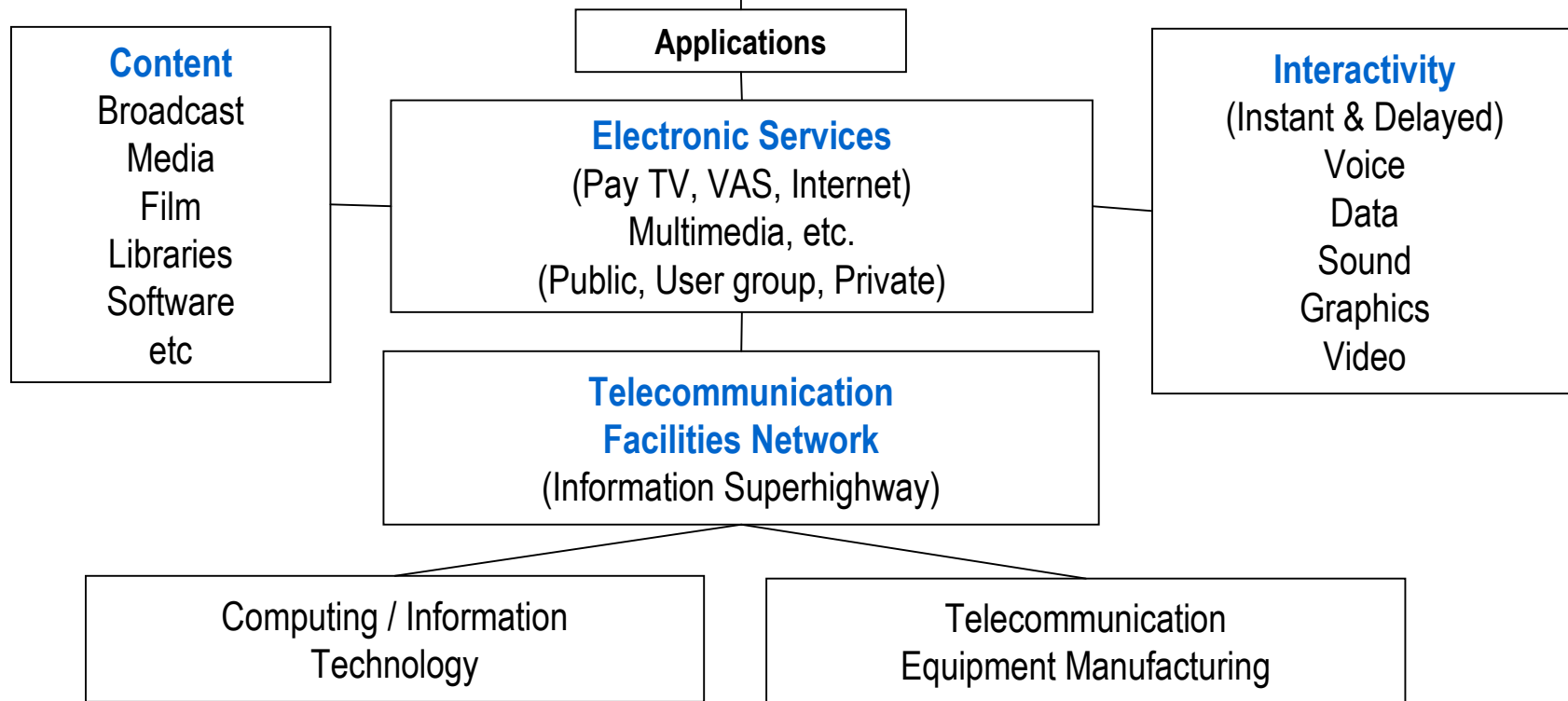
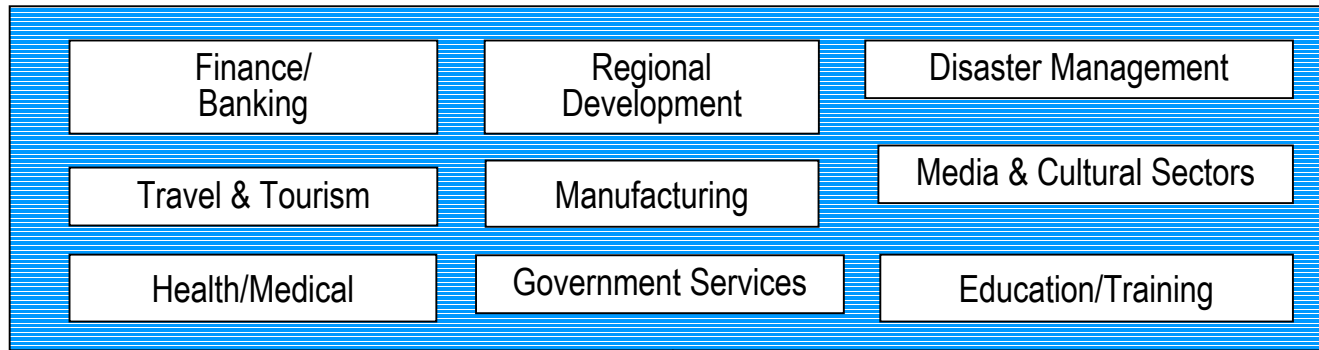
- New forms of network communication & content, (*e.g., music, films, social networks*)
- Internet protocol, convergence & integration of services, enhanced mobile, ambient technologies & services (*e.g. e-commerce*), NGN



## 3 Waves of Network Development

### ***Third Wave*** (beginning)

- IPv6, web 2.0, cloud computing, networks of communicating devices, more.....
- Networks provide generic technologies and services that support the redesign of production, administration and transaction processes, and the introduction of new products and services throughout the economy
- Networks provide a foundation for the restructuring of most institutions for information societies



## INFORMATION INFRASTRUCTURE