

# Future of the Regulation in ICT

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**2nd Public Econ@Tel Workshop**

**Budapest, Hungary on 22. September 2011.**

## Overview = method of visioning

### Role of Regulation

- Normative approach
- Realistic approach

### Converging Regulators

- Technical part
- Content providing

### Vision of Regulation

- Sector-specific
- Competition law based
- Public utility based

### ICT sector Today

- Merging value chains
- Providing competition advantage for Business community

### ICT sector Tomorrow

- ❑ Basic infrastructure
- ❑ Environment for digital way of living

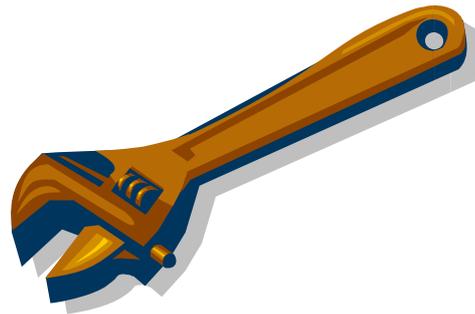
# Role of regulation

## Intervention

- state-based
- or community-based,
- and should be enforceable

## Set of tools

- to enforce the interests of the society
- regarding an industry
- or any kind of behavior



# Quality of Regulation

Should compromise the short term and long term interests of many stakeholders and the community



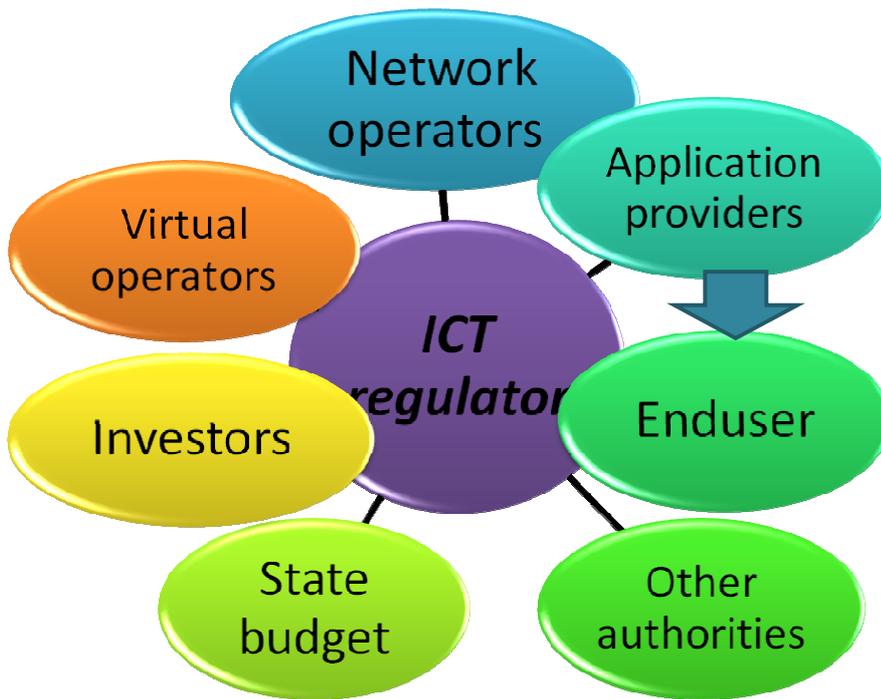
Should not hinder innovation processes or investment

Should handle

- asymmetric situation
- dependencies

*On clear (value-based) approach*

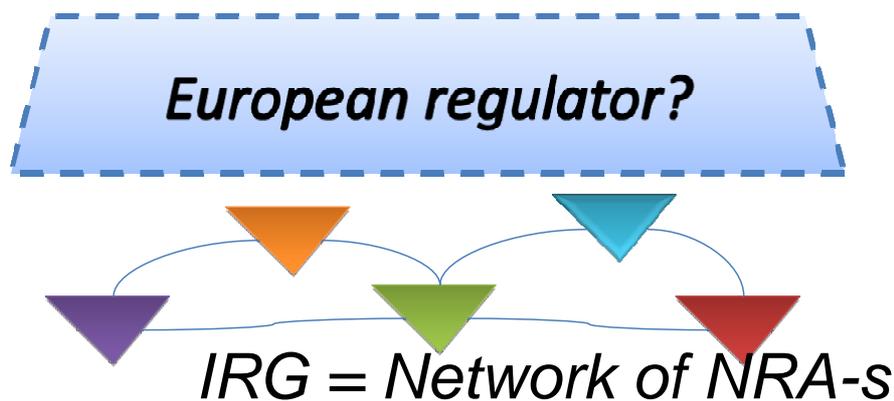
# Regulator is a real organisation



*Has administrative costs, imperfections limitations in power and energy to enforce*

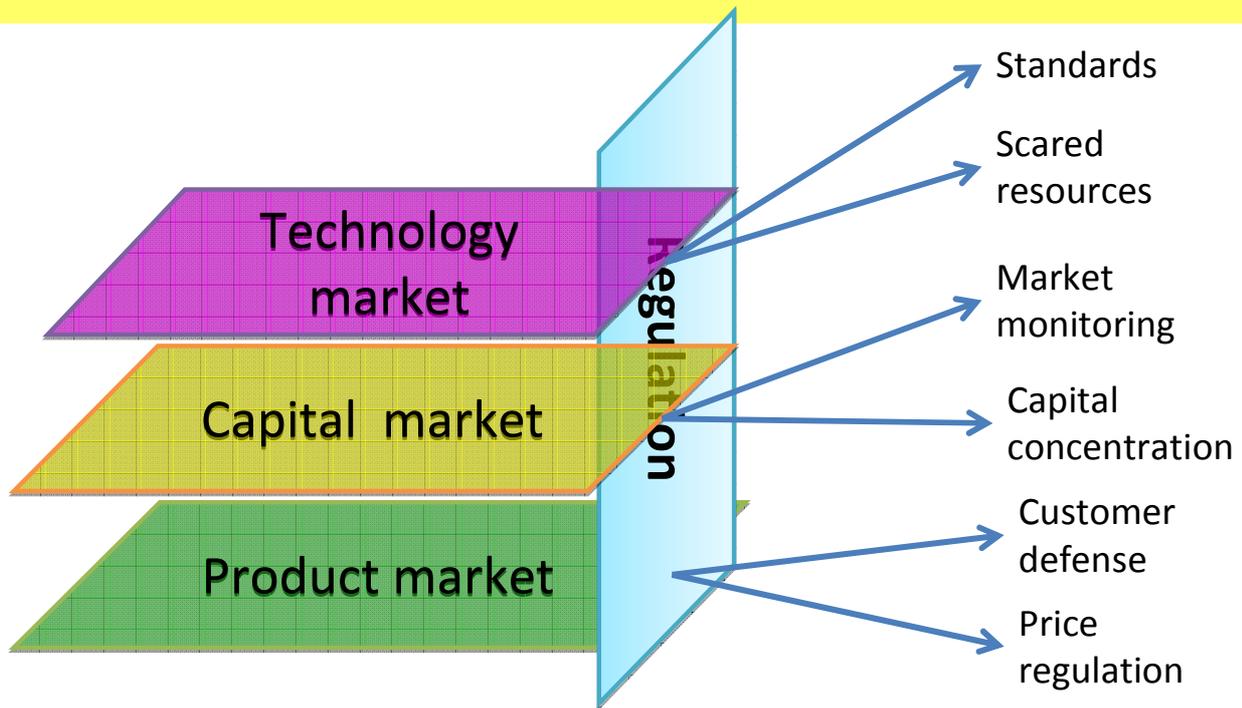
*But should answer to emerging market questions*

## European ICT regulator or co-operation of NRA-s ?



**European single (?) ICT market**

# Market regulation issues



# Converging Regulation

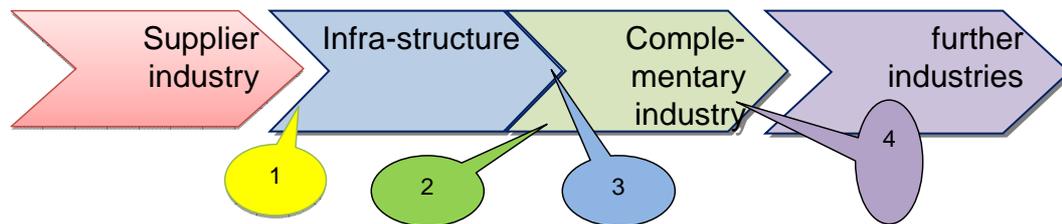
Technical neutrality is a key for market regulation

Separation of technical ICT from the content providing



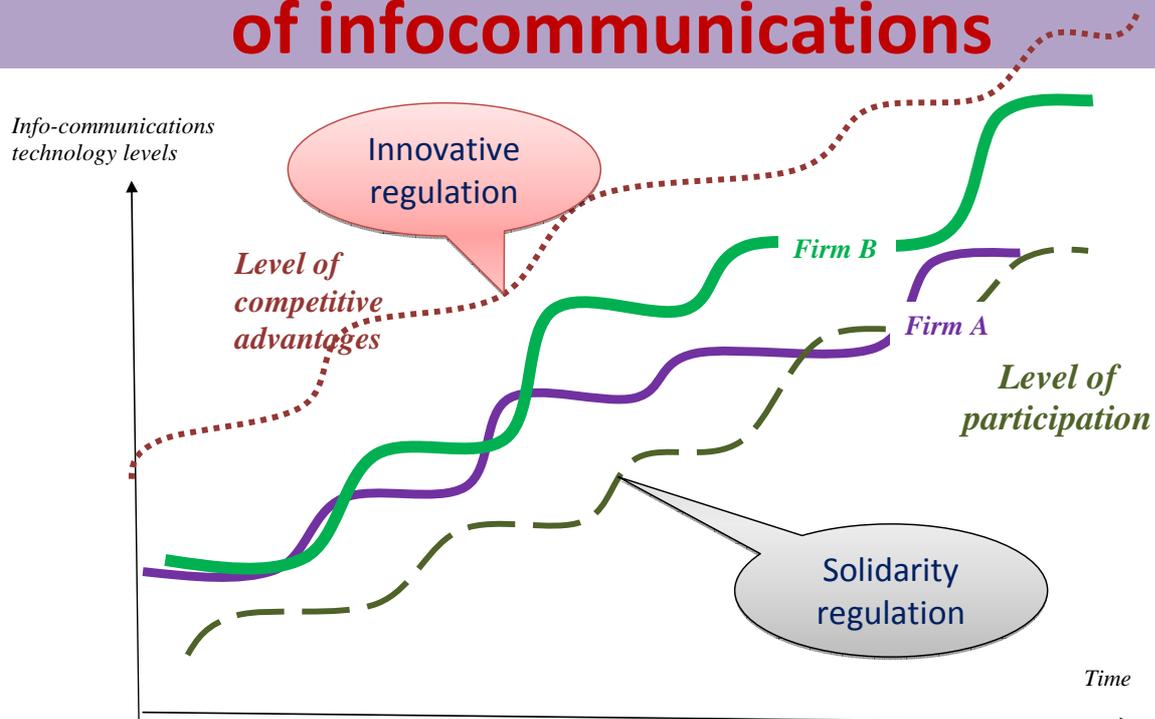
Institutional merges to handle converging market

# Merging value chain in ICT



- (1): based on the new technologies the quality rises, the prices diminish, the infrastructure spread into new business areas,  
(2): some complementary industries build in their services the already existing infrastructure.  
(3): the value chains merge, and form a new one together, providing a new compound service for the customers.  
(4): when the new *compound service itself becomes* the basis for other industries as a *business infrastructure*.

## The evolutionary model of infocommunications



## New needs for regulation in short term

- ❖ *Deregulation of matured market issues*
- ❖ *New methods in spectrum & power emission*
- ❖ *Numbering objects*
- ❖ *Standardisation of e-bidding, e-billing, e-contracting*
- ❖ *Usage of real-time traffic data for intelligent transport systems*
- ❖ *Long term archivation of documents/ rights to be forgotten*
- ❖ *Safety & security of personal sensitive data*

## Vision of information handling sector in longer term

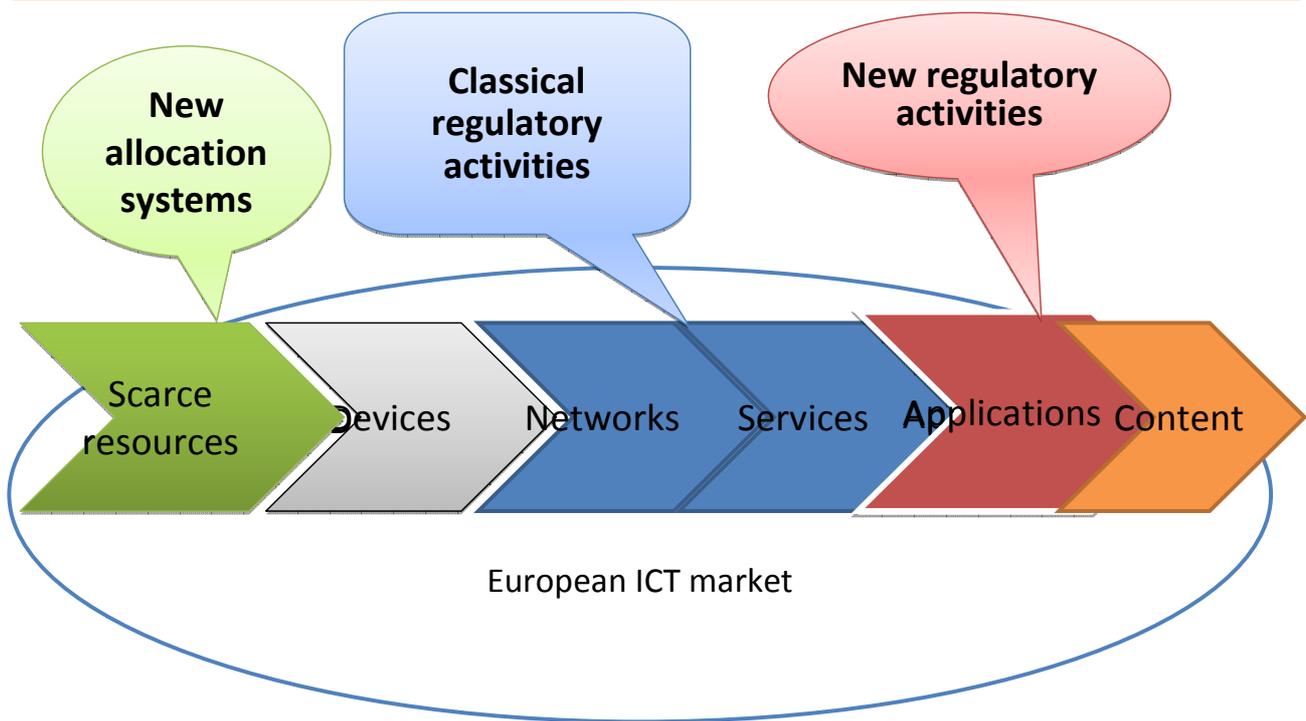
### **Basic infrastructure for everybody**

- Access points & rights
- Long term archivation services
- Reliability assured
- Data sovereignty of Government & persons

### ***Environment for digital way of living***

- *Online contents*
- *E-applications*
- *Intelligent Transport systems*
- *Public services through e-applications like e-learning, e-health,*

# Extension of regulatory activities



COST IS 605 WG3 Budapest,  
22-23.03.2010

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# New stakeholders for Information Infrastructure Regulation



- Cloud providers
- Application service providers
- Content providers
- New services based on ICT, ASP or Content
- Government as public service provider

# Some ICT regulation sources

Miriam LIPS& all: Starting Points for ICT Regulation

[http://www.cambridge.org/gb/knowledge/isbn/item1178525/?site\\_local\\_e=en\\_GB](http://www.cambridge.org/gb/knowledge/isbn/item1178525/?site_local_e=en_GB)

Bert-Jaap Koops : Should ICT Regulation be Technology-Neutral?

[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=918746](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=918746)

Bert-Jaap Koops - Rudi Bekkers: Interceptability of telecommunications: Is US and Dutch law prepared for the future?

<http://ssrn.com/abstract=1005378>

The role of ICT regulation in addressing offenses in cyberspace by GSR2010-

ITU <http://www.itu.int/ITU-D/treg/Events/Seminars/GSR/GSR10/documents/GSR10-paper6.pdf>

ITU: Effective ICT regulation critical to economic growth

<http://newsbytes.ph/2011/03/31/itu-effective-ict-regulation-critical-to-economic-growth/>

## Thank You for your attention

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