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Future of the Regulation in ICT

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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

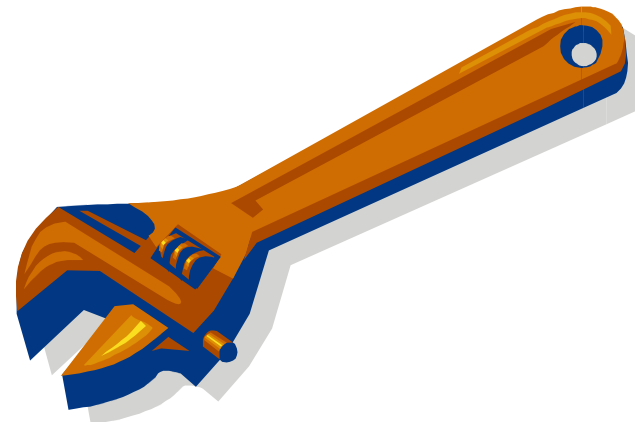
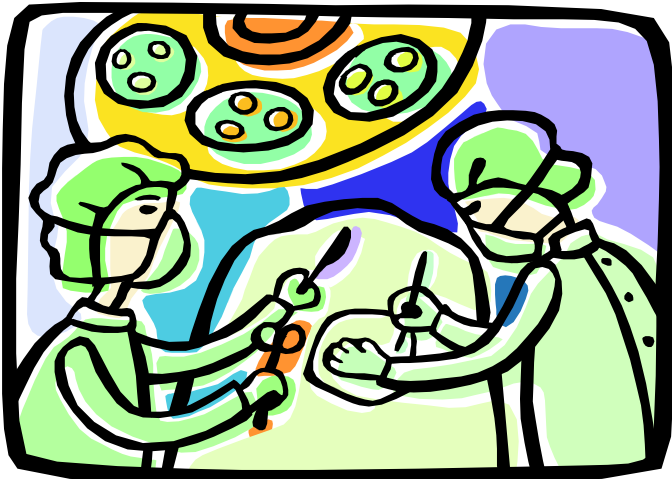
Role of regulation

Intervention

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

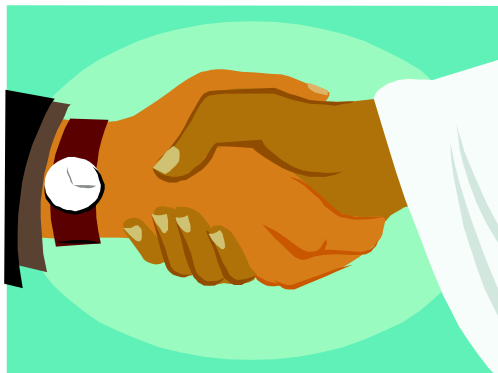
Set of tools

- 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



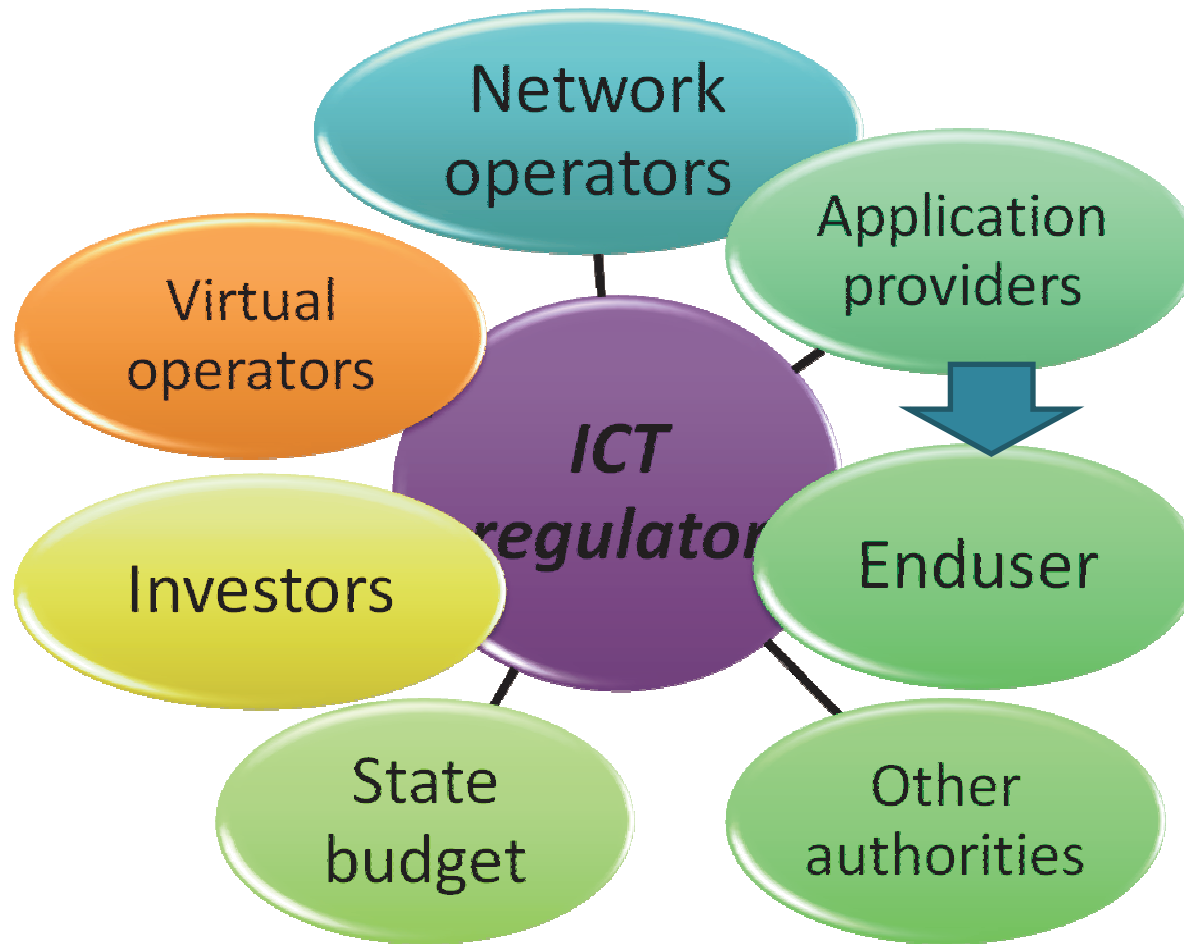
Should not hinder innovation processes or investment

Should handle

- asymmetric situation
- dependencies

On clear (value-based) approach

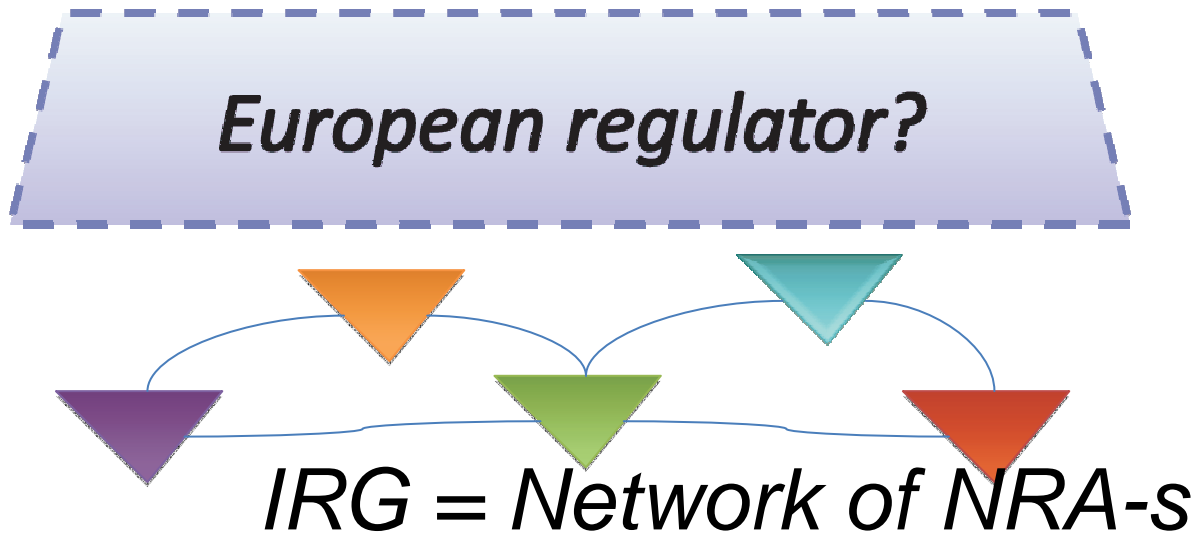
Regulator is a real organisation



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

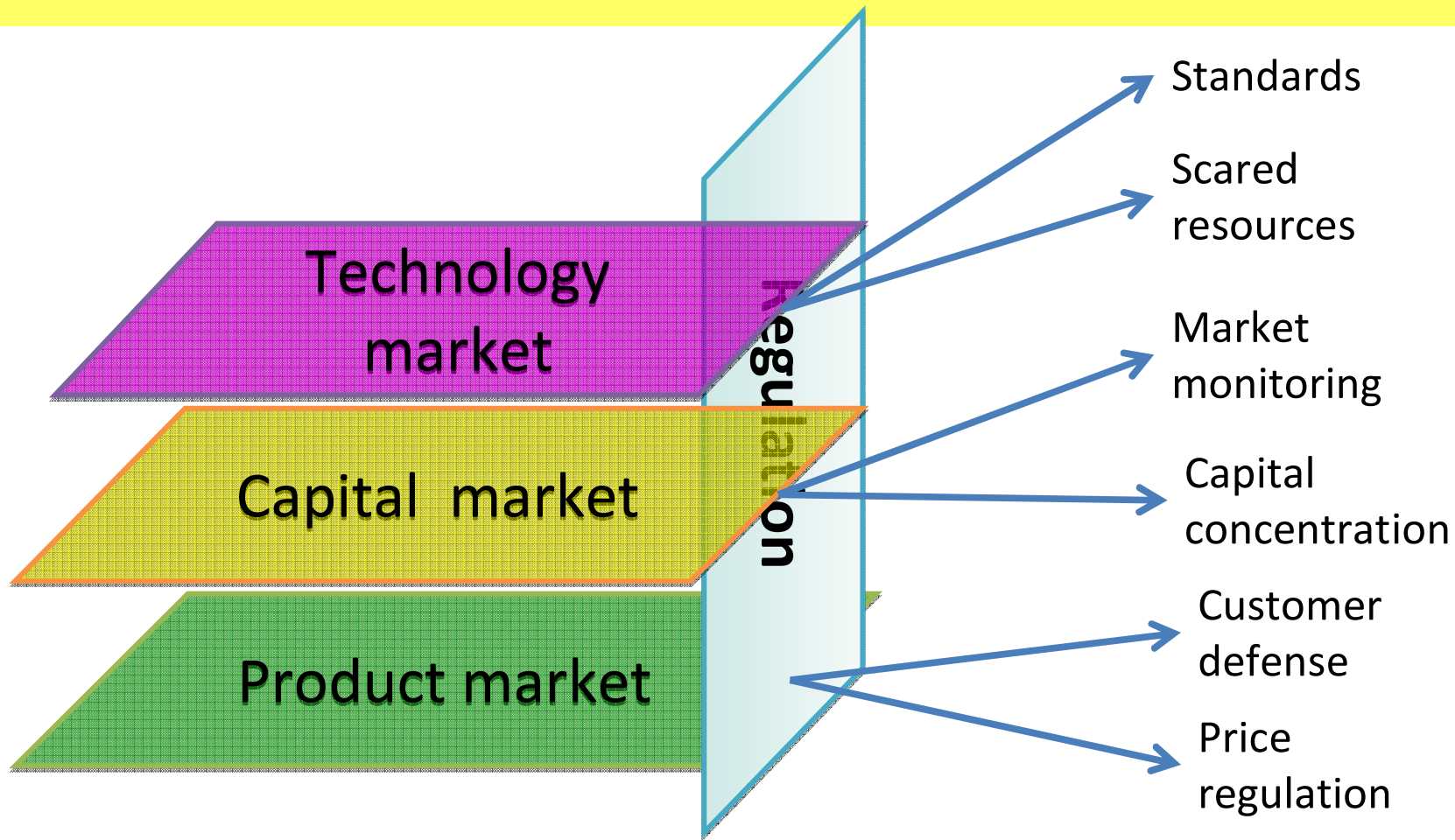
But should answer to emerging market questions

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



European single (?) ICT market

Market regulation issues



Converging Regulation

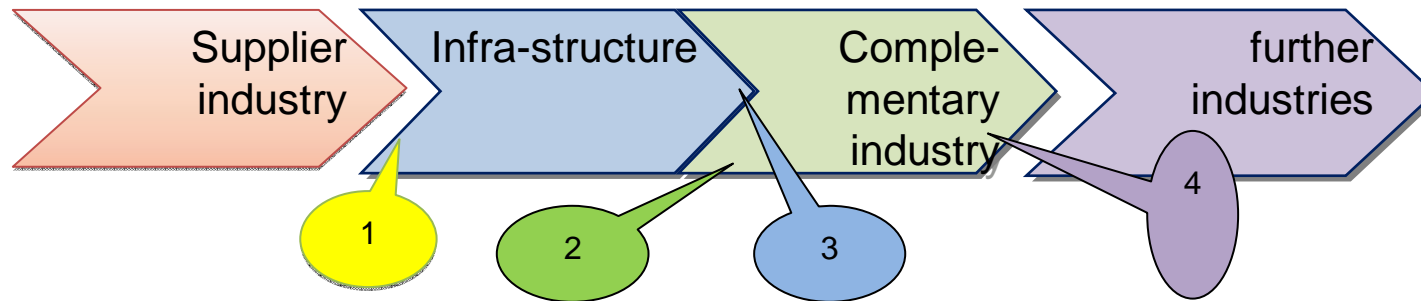
Technical neutrality is a key for market regulation

Separation of technical ICT from the content providing



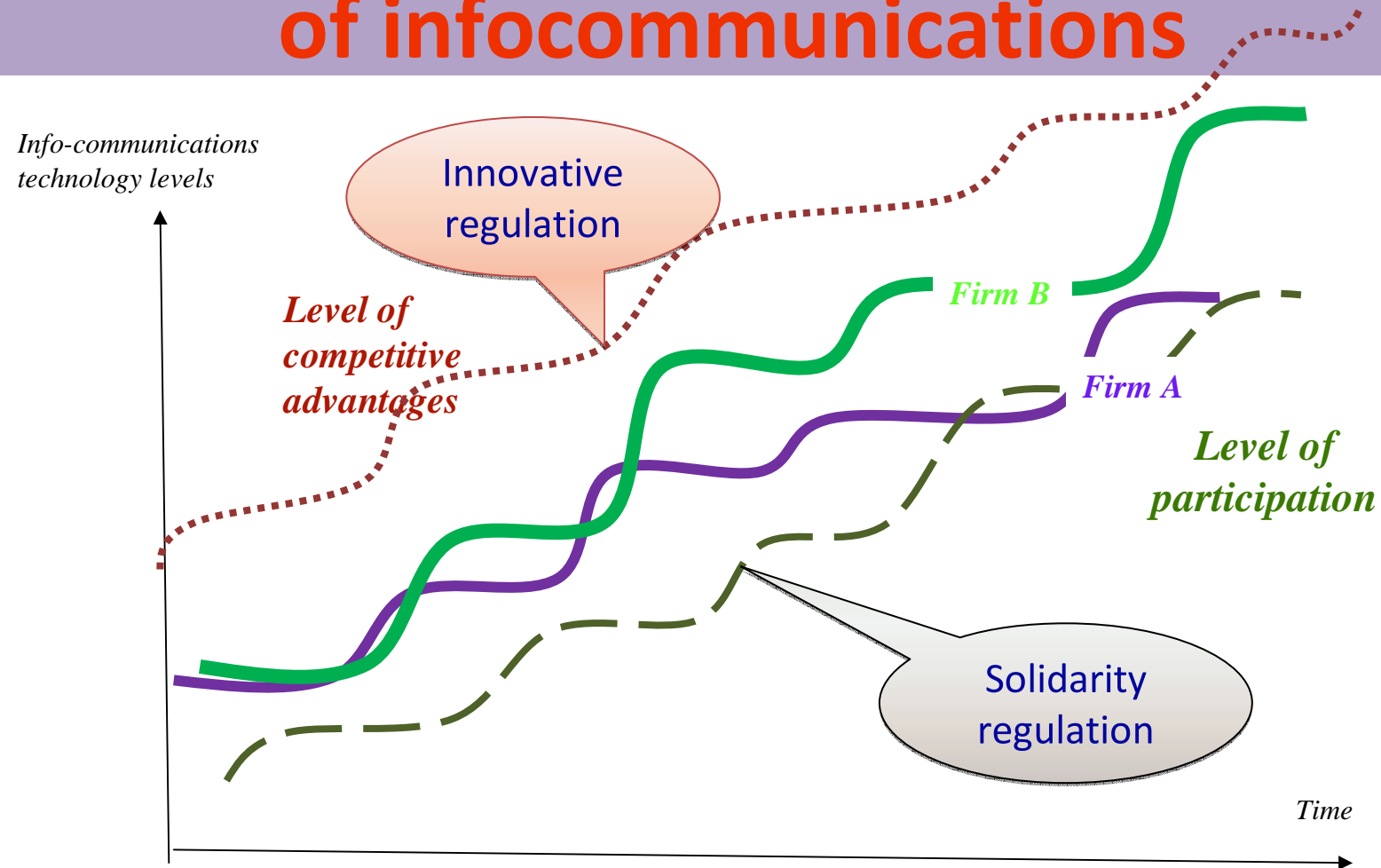
Institutional merges to handle converging market

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

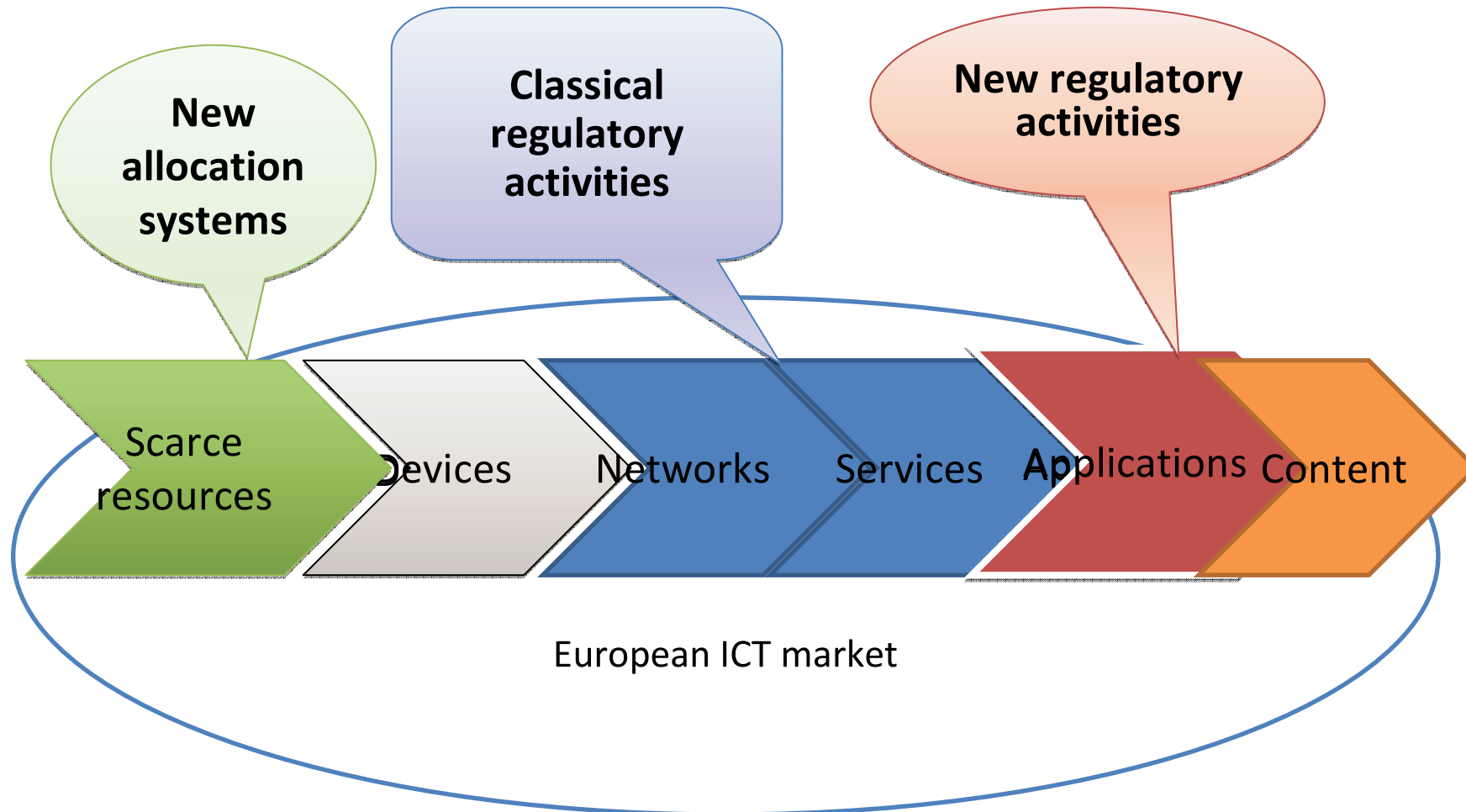
Basic infrastructure for everybody

- 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



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

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

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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