

Photonics Networks: Connecting the Future Internet

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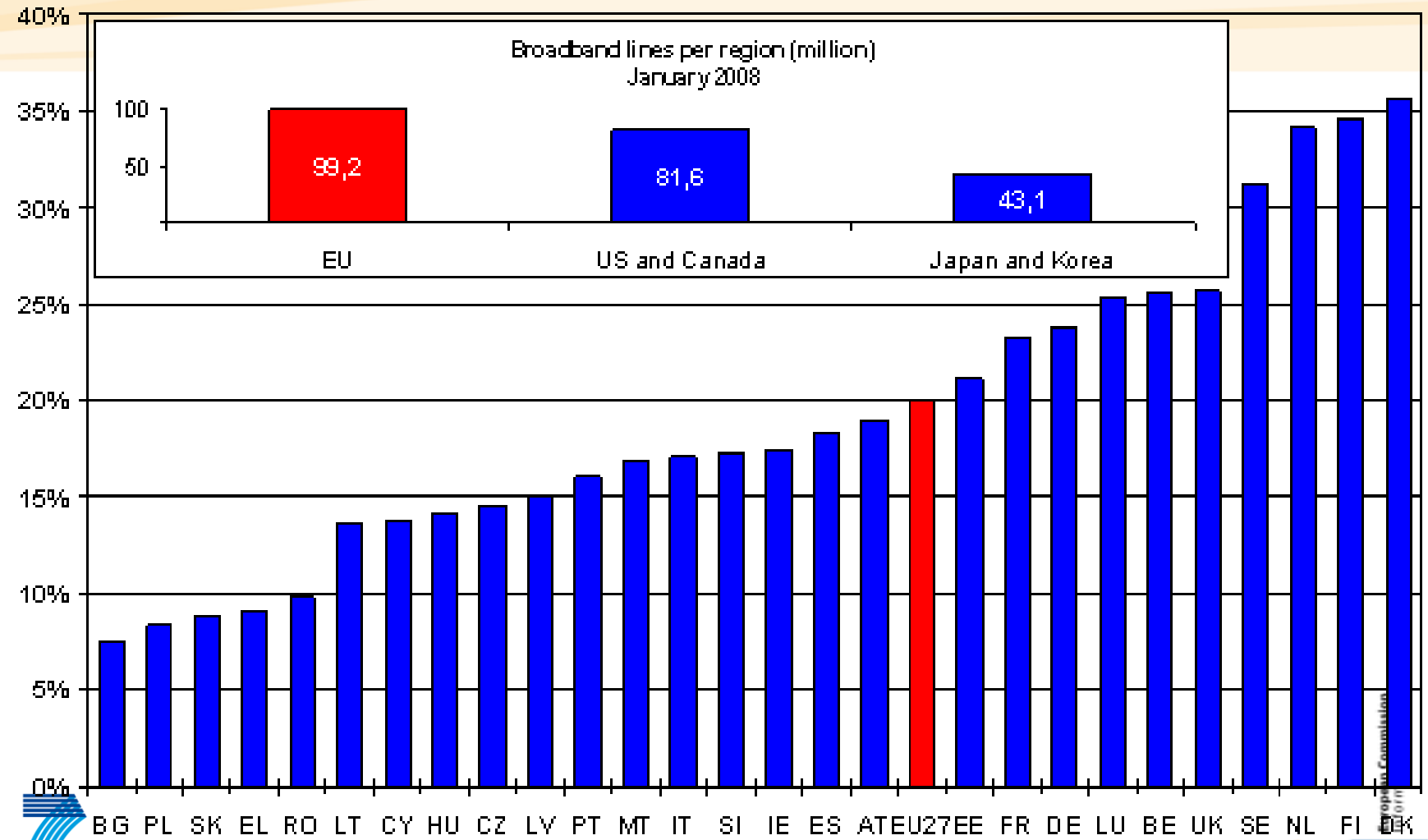
EU-Japan Symposium on NWGN and FI
9 June 2008

Future Networks Unit
Information Society and Media DG
European Commission

EU Broadband Penetration Rate (Jan 2008)

EU Broadband penetration rate (January 2008)

January 07



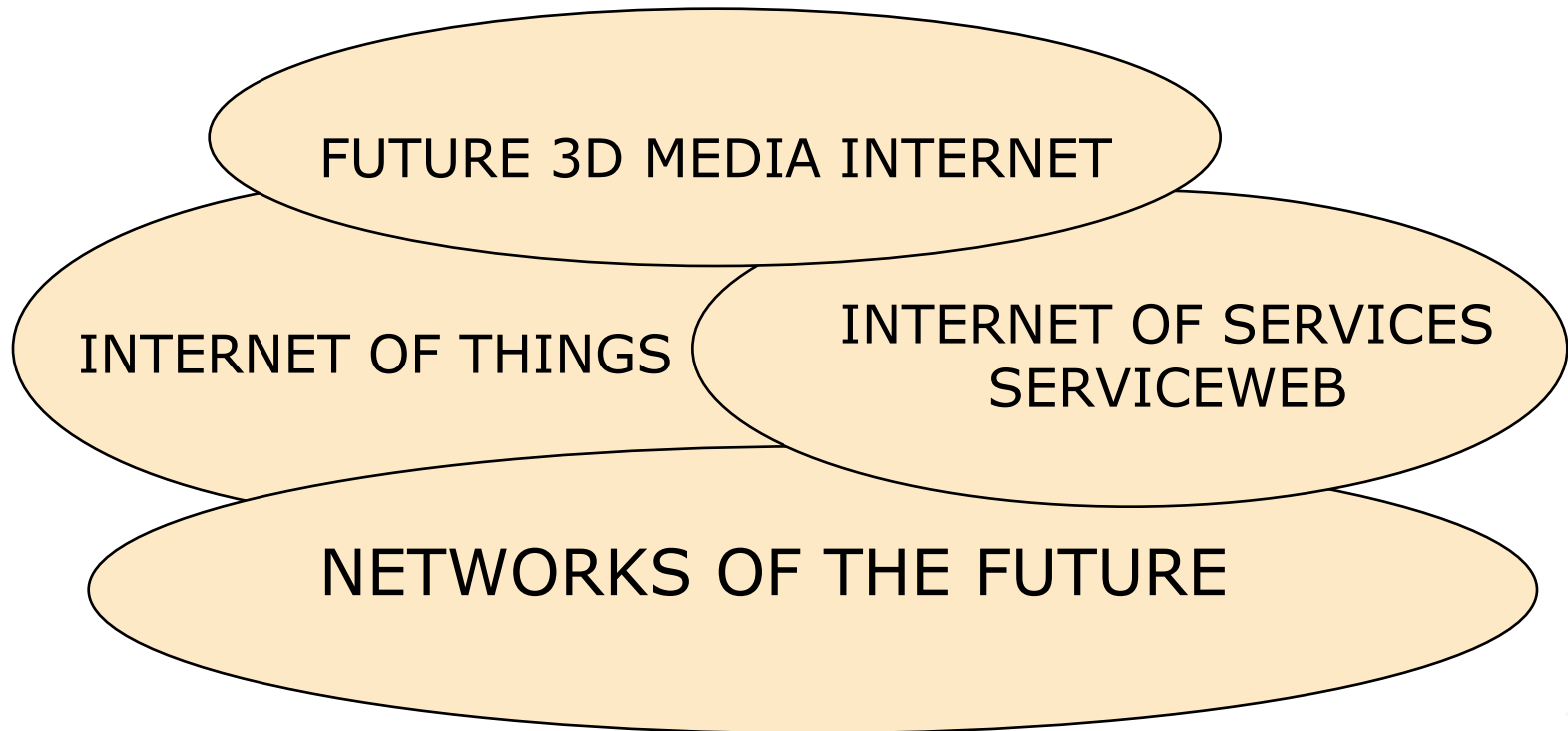
Source: Commission services. Data for FR, NL, AT, EE and LT refer to October 2007

The views expressed in this presentation are those of the author, and do not necessarily reflect those of the European Commission

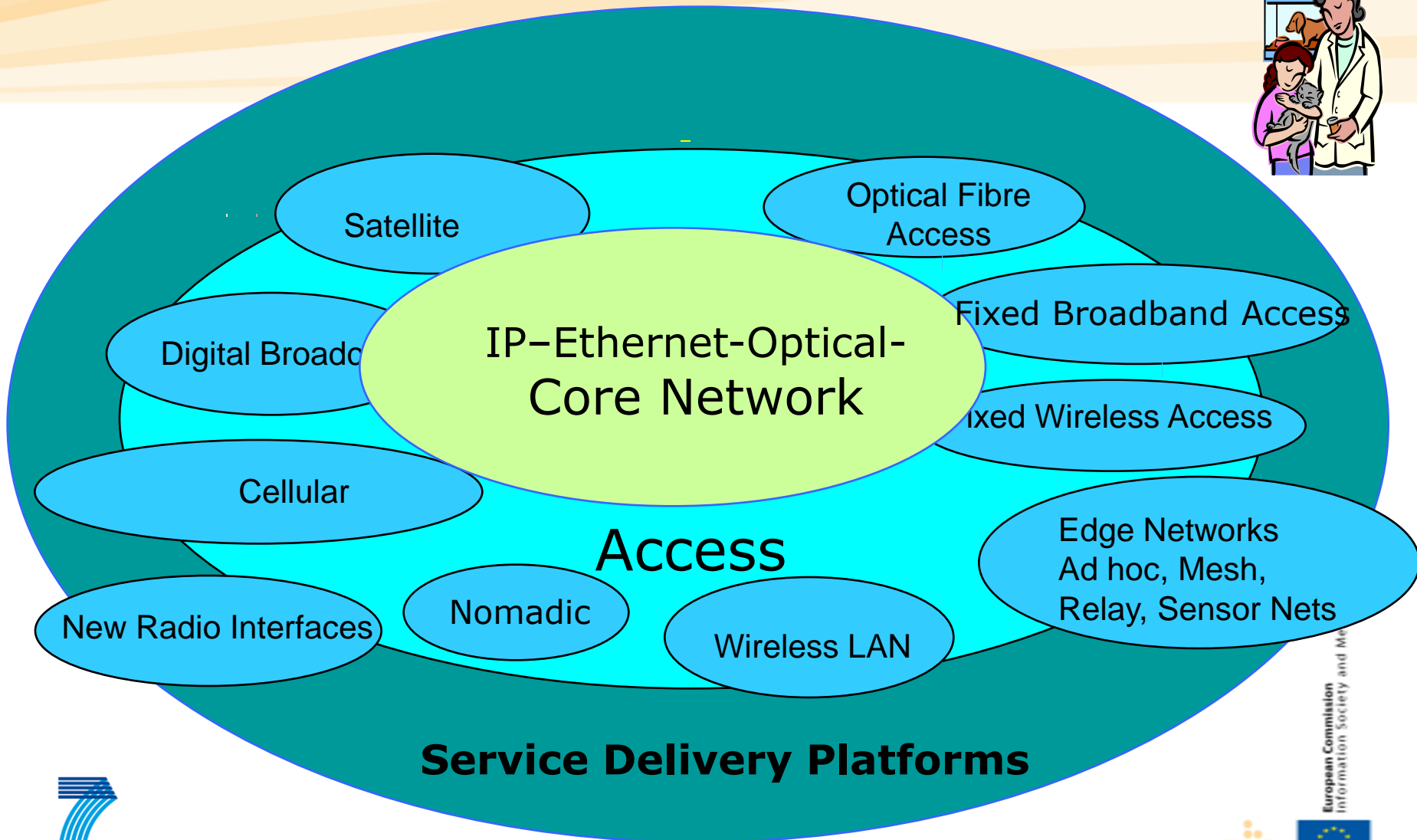


A MAP OF THE FUTURE INTERNET

(not to scale)



The Future Network



SOME FEATURES OF THE FUTURE INTERNET

Broadband infrastructure (photonics and radio)

Mobility

Network architectures and control

Edge systems and terminals

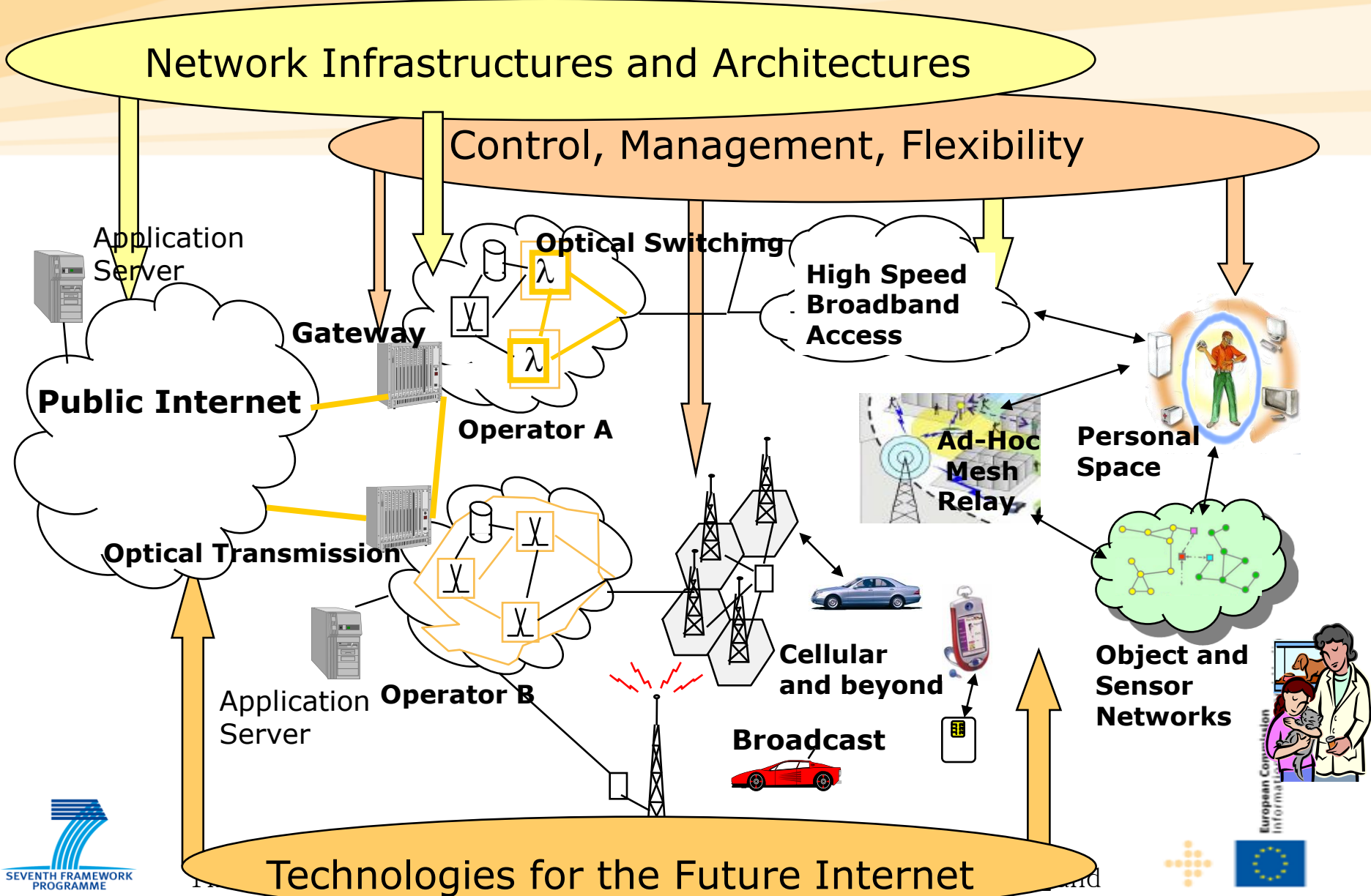
Service architectures

Content creation tools

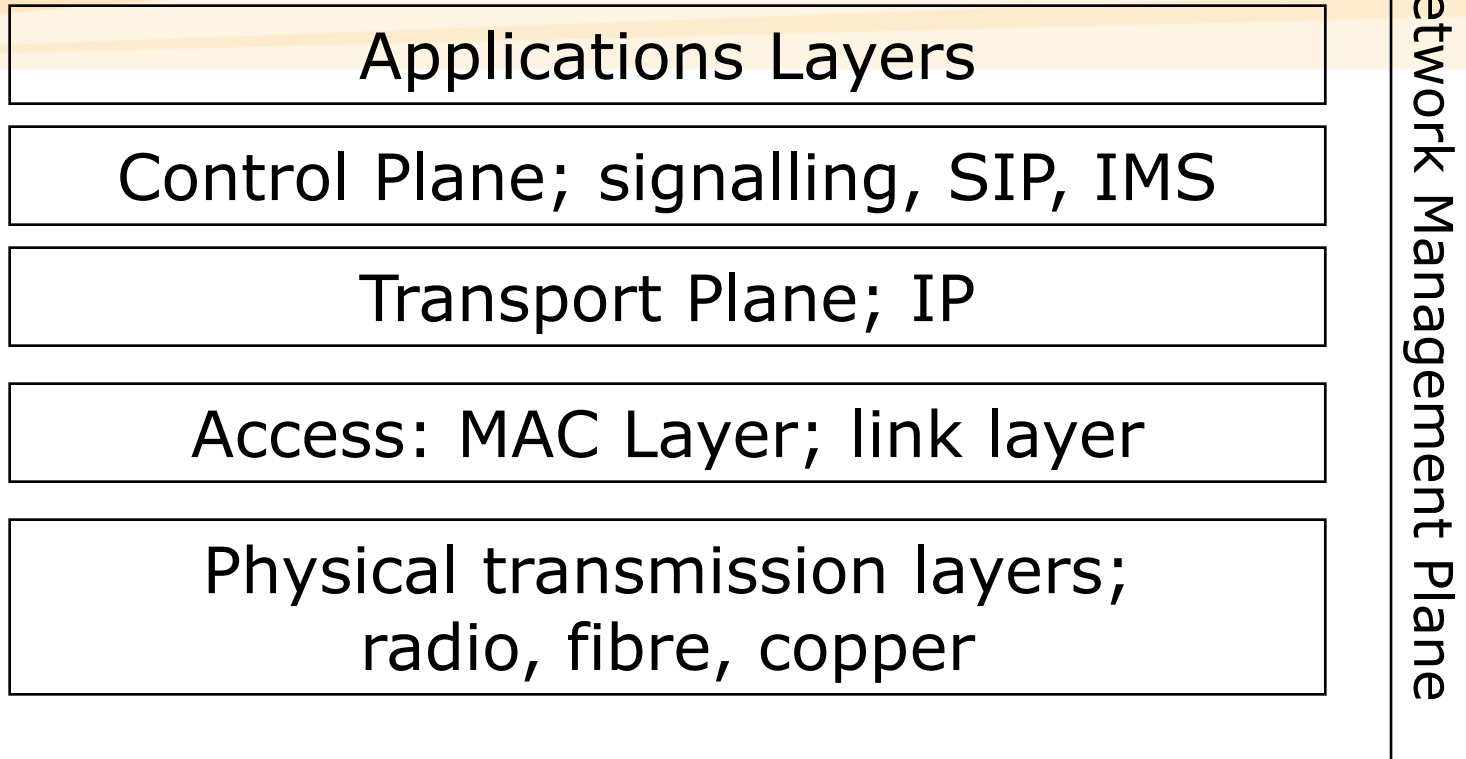
Content delivery

Security and privacy

The Network of the Future



“Converged” Network Structure

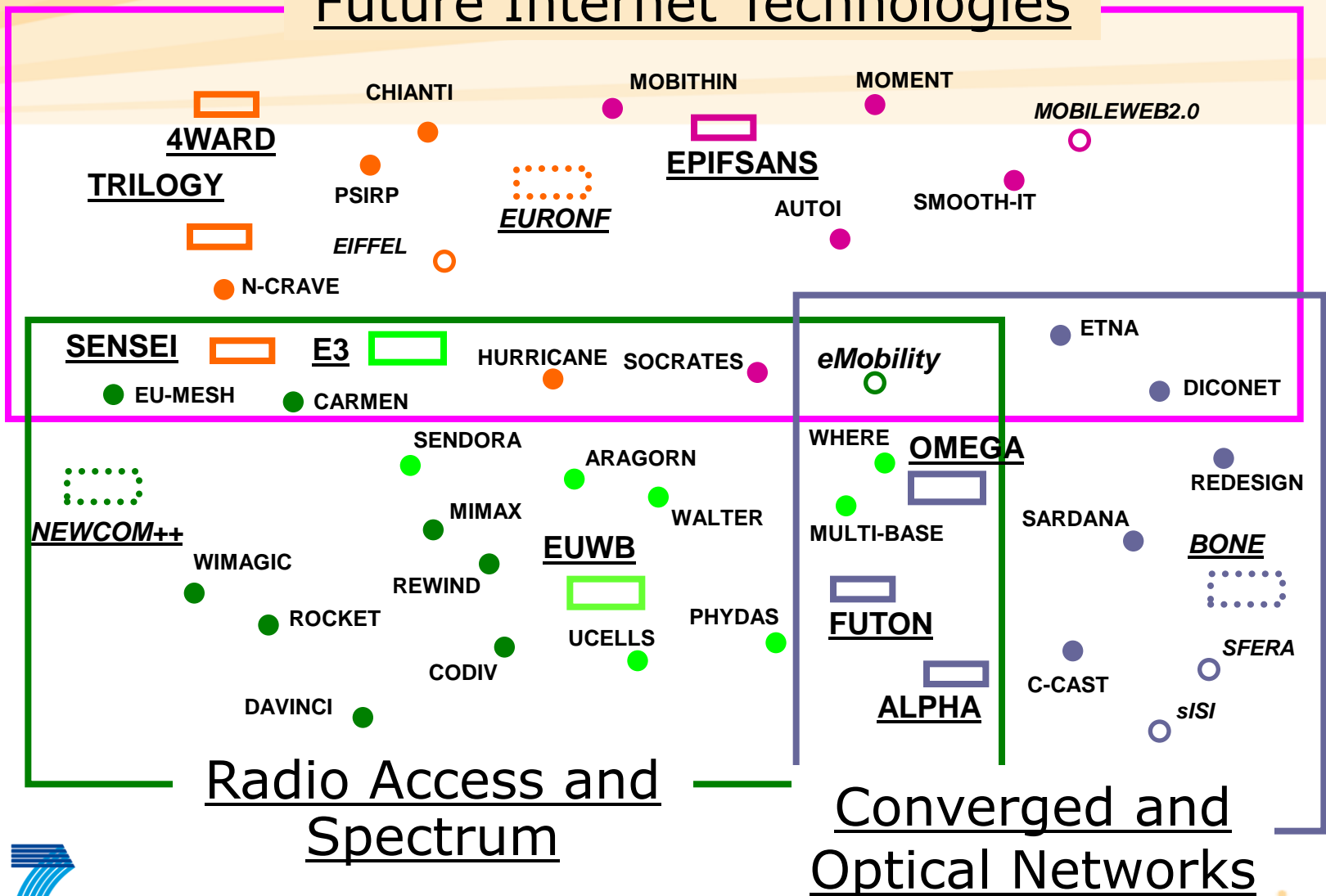


All types of wide-area IP (access) networks are following the same structure/layers:

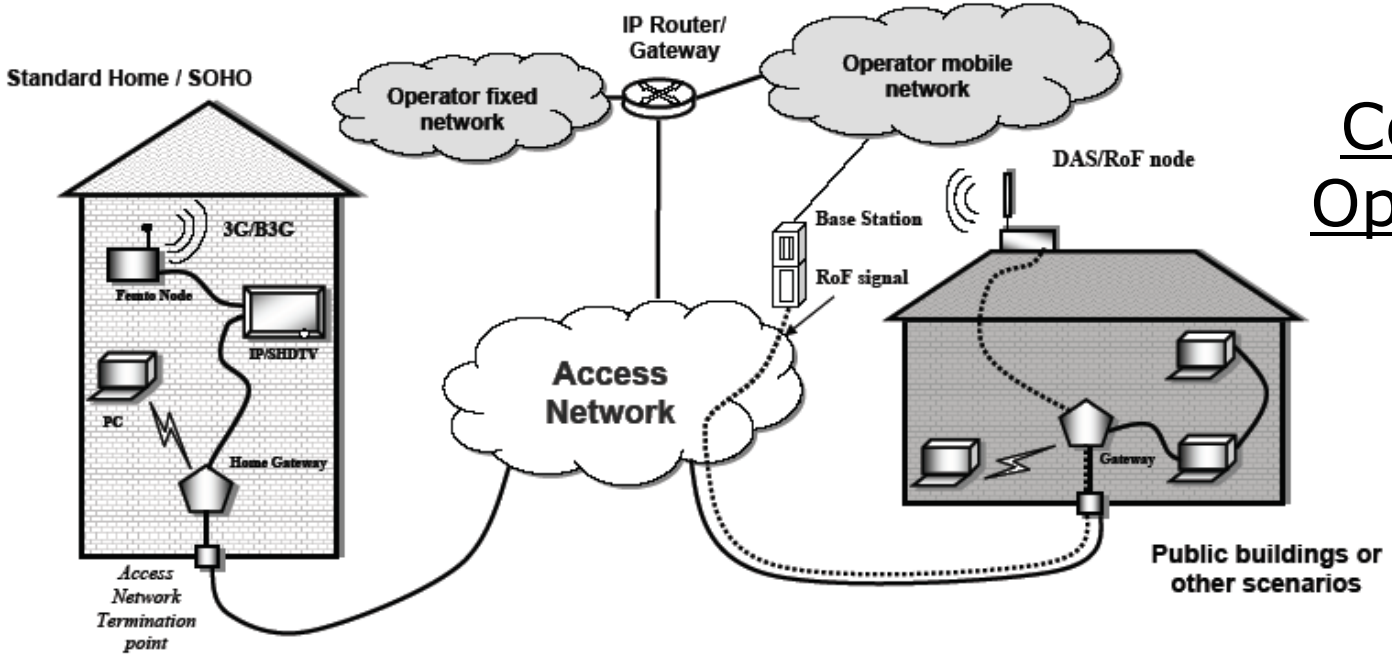
- Plain link-layer infrastructure for concentrating traffic of individual users (most economic)
- An entity providing an IP address to the UE for access to IP based applications/services
- Applications being agnostic to the particular infrastructure based on plain IP connectivity

Future Networks Project Portfolio & Clusters

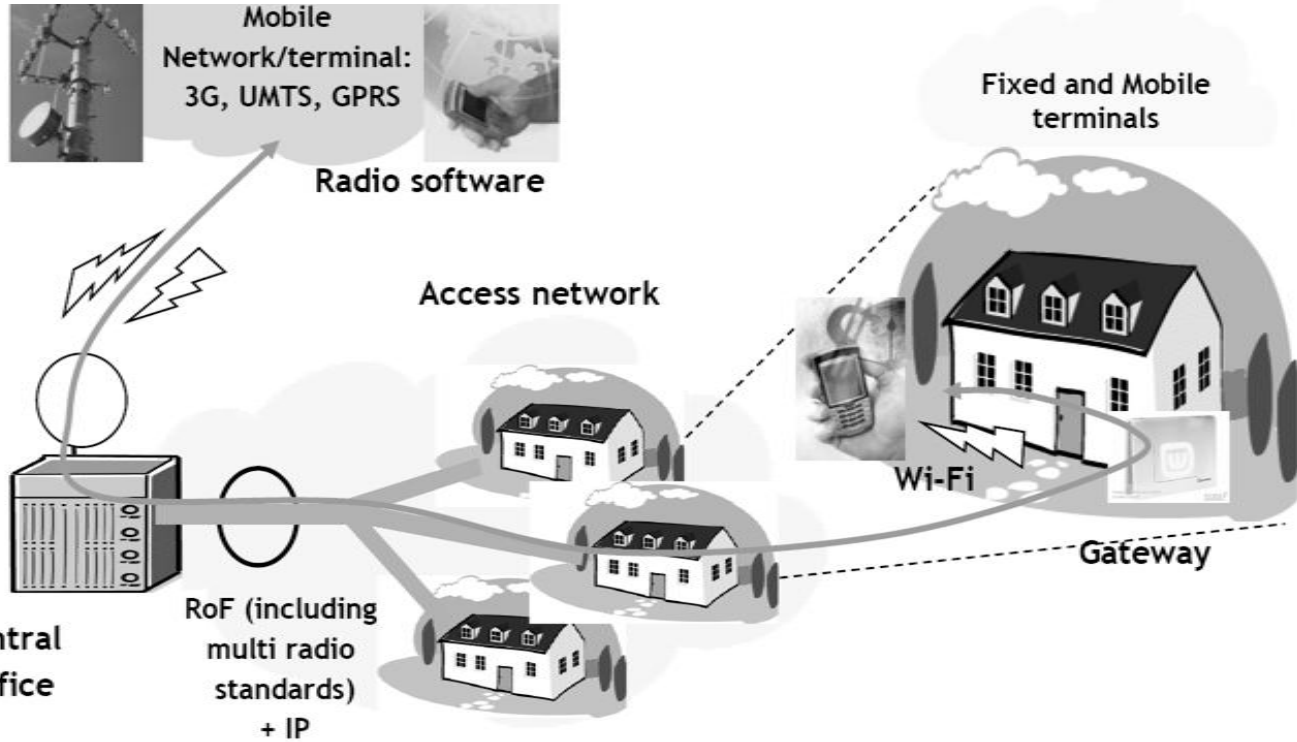
Future Internet Technologies



Converged and Optical Networks



Source: ALPHA, FUTON, OMEGA



The views ex
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More Information

- http://ec.europa.eu/information_society/index_en.htm
- http://ec.europa.eu/research/future/index_en.cfm
- <http://cordis.europa.eu/fp7/ict/future-networks/>
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