



COST
605

Econ@Tel

A Telecommunications Economics COST Network



Charging in the Era of Next Generation Multimedia Networks

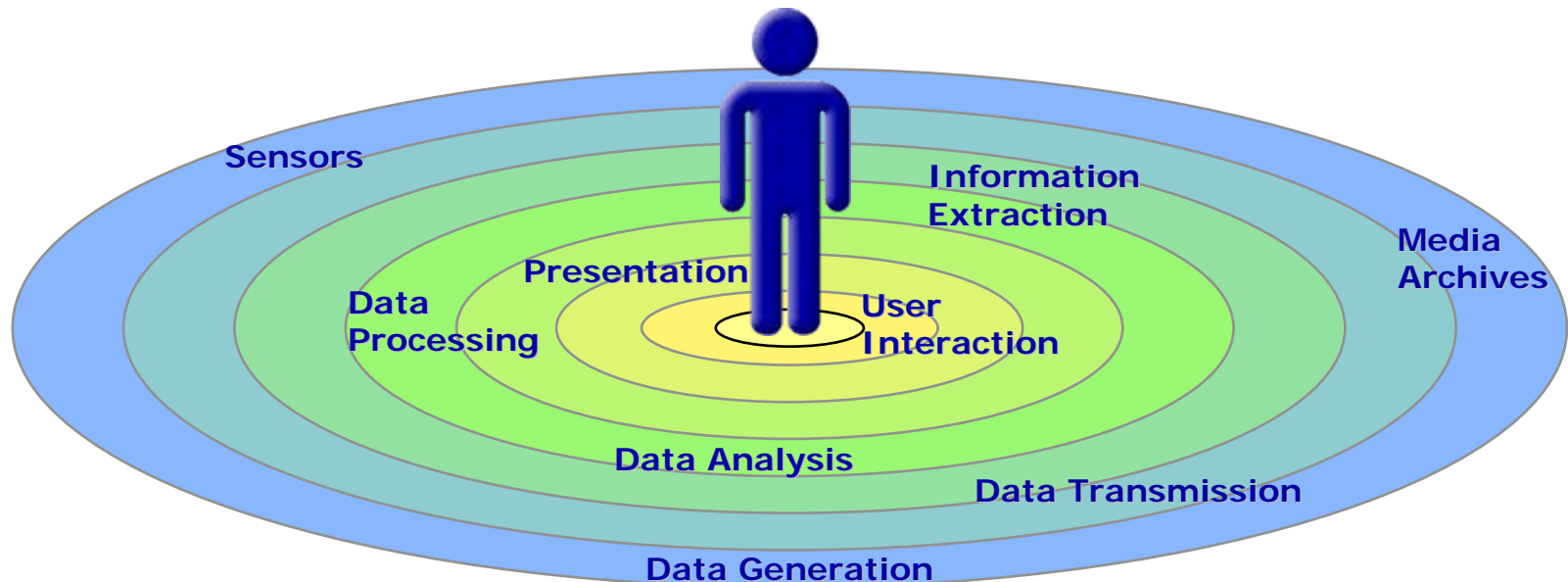
Peter Reichl, Ivan Gojmerac



ftw. Vision



A society immersed
in an **interactive intelligent environment**

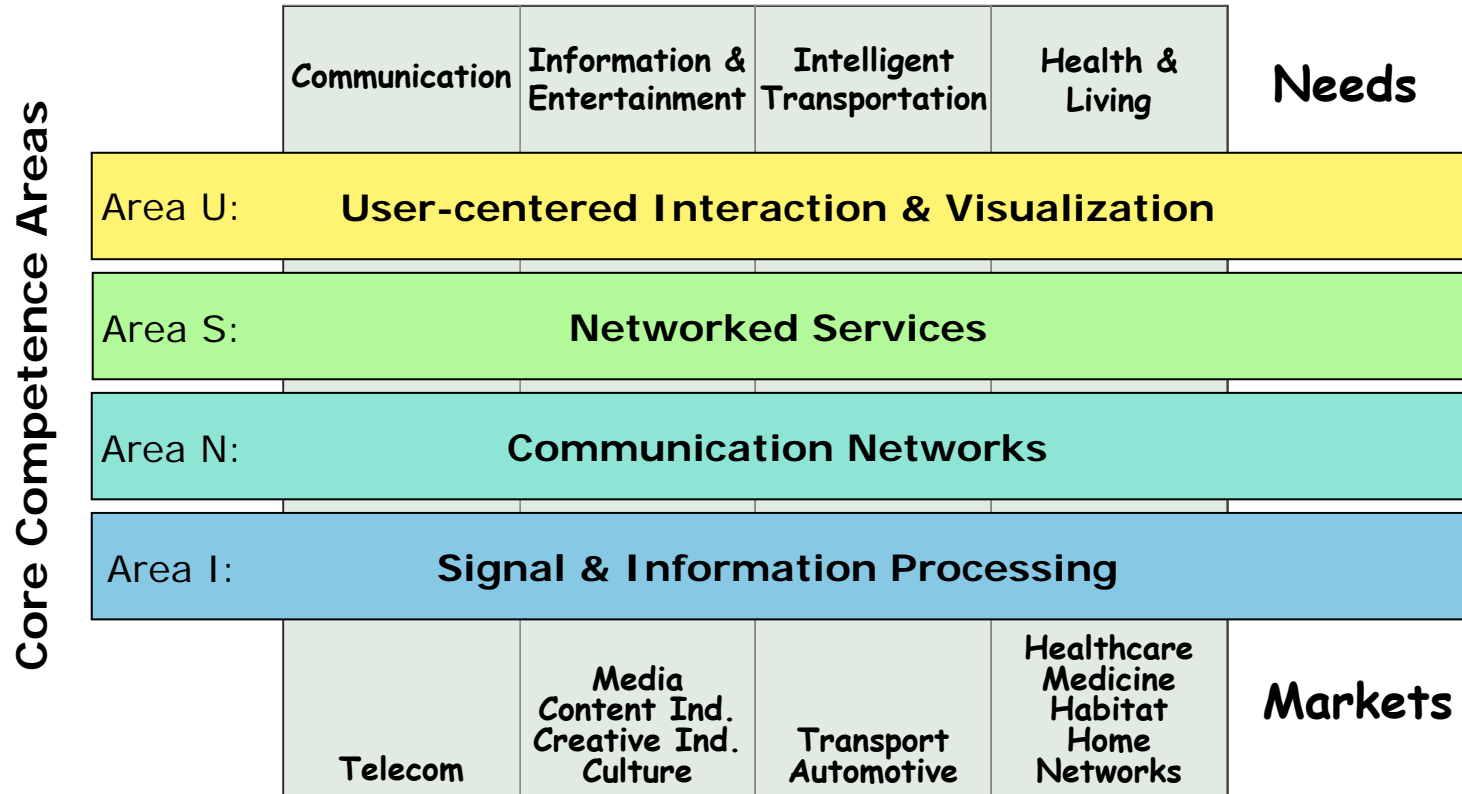


User-centric approach:

Users will

- access, organize, exploit, create and provide information
- in any context, everywhere, at any time,...

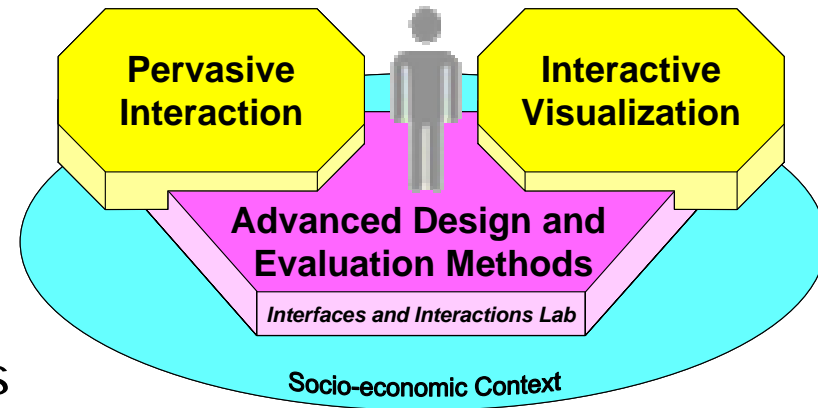
Application Sectors



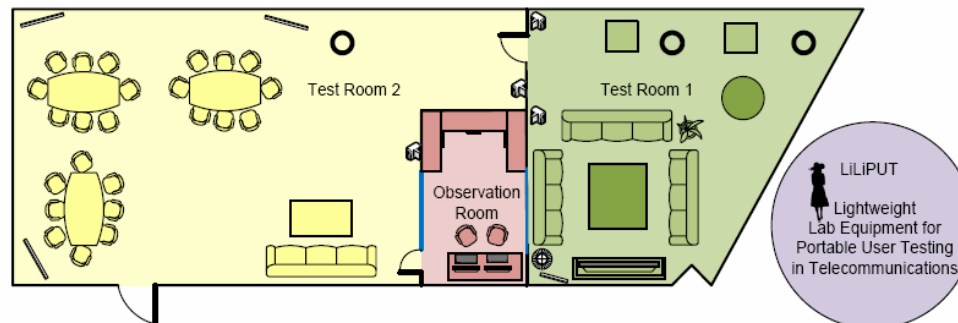
Background Project I: SUPRA



- **Idea:** enabling the connection between the human user and the future ubiquitous computing environment, through interfaces and interaction modes making a balanced use of the human senses



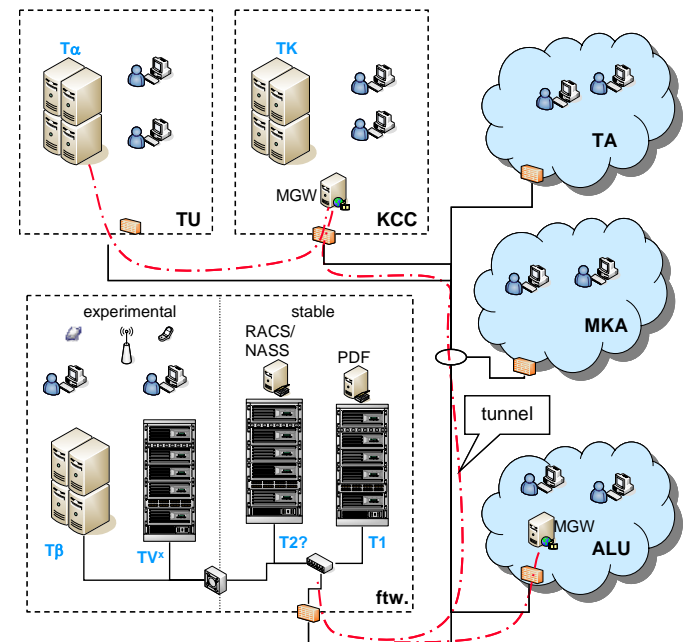
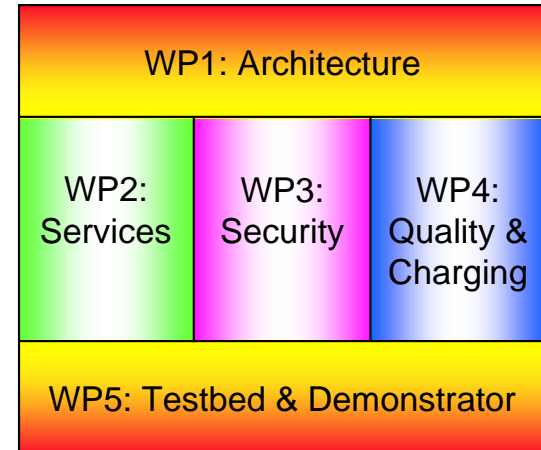
- **SUPRA:** Strategic Usability and Pricing Research Activity
- **Approach:** holistic view on future interacted multimedia services and applications
- **Focus:** user-centred interaction and visualization - telecommunication economics – user-driven innovation



Background Project II: BACCARDI ftw.

- **Idea:** 3GPP IP Multimedia Subsystem (IMS) as basis for future convergent All-IP service platforms
- **BACCARDI:** Beyond Architectural Convergence: Charging, Security, Applications, Realization and Demonstration of IMS over fixed and wireless networks
- **Approach:** distributed open source IMS testbed adapted to the specific needs of our project partners
- **Focus:** location-based services
 - IMS charging
 - IMS security

BACCARDI



Specific Research Interest



- Charging models beyond flat rate
 - The future of economic efficiency
 - From QoS to QoX

- Game theoretic models
 - e.g. provider competition
 - Collaboration with INRIA/B. Tuffin

- NGN charging architectures
 - IMS charging: new options vs. new challenges
 - Collaboration with B. Stiller
 - Keynote presentation Tom Lovric