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What Will Be Tomorrow's Network, and What Space Will Be Available for Handhelds?

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The views expressed in this presentation are those of the authors and do not necessarily reflect the opinions of ITU or its membership. The authors wish to thank Dr. Tim Kelly and Ms. Philippa Biggs for their inputs and suggestions.

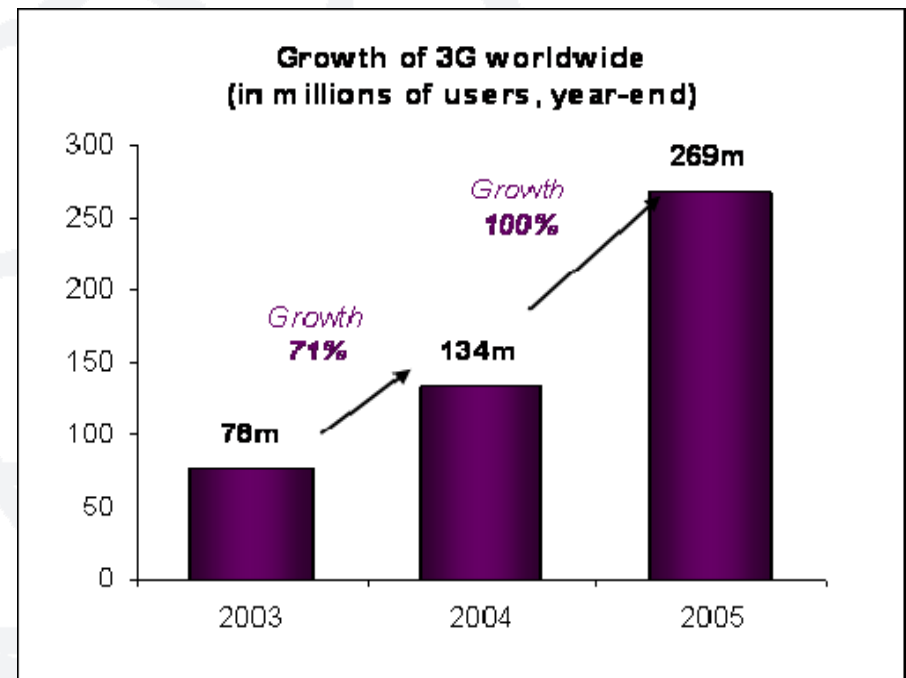
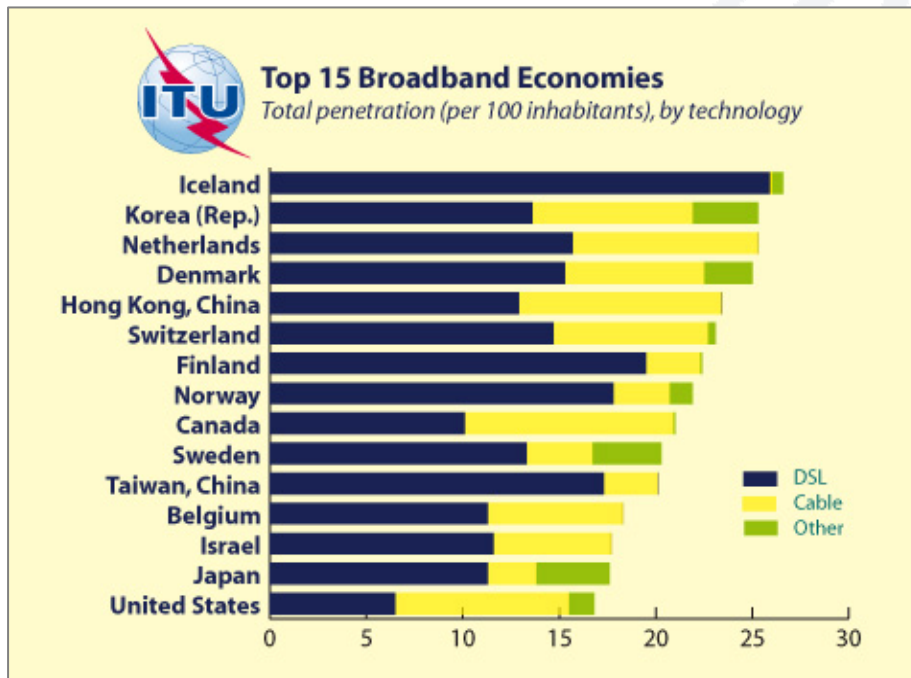


- I. UN specialized agency, concerned with the development of telecommunication networks and services worldwide
- II. 141 years old
- III. 190 Member States; 650 + Sector Members
- IV. Around 790 staff/83 nationalities
- V. 2005 budget= CHF 164m (USD 130m)
- VI. Secretary- General: Yoshio Utsumi (Japan)
- VII. Website: <http://www.itu.int>

Current big picture trends



- I. Growth of Broadband
- II. Growth in wireless networks and mobile data services
- III. Mobile overtakes fixed
- IV. Convergence of IP-based networks with telephone & mobile networks
- V. End game: towards ubiquitous, pervasive, grid, mesh, wireless networks, tomorrow's networks

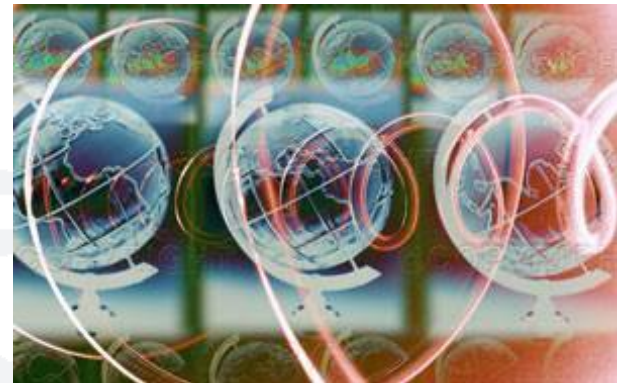


Source: ITU

Why Tomorrow's Networks ?

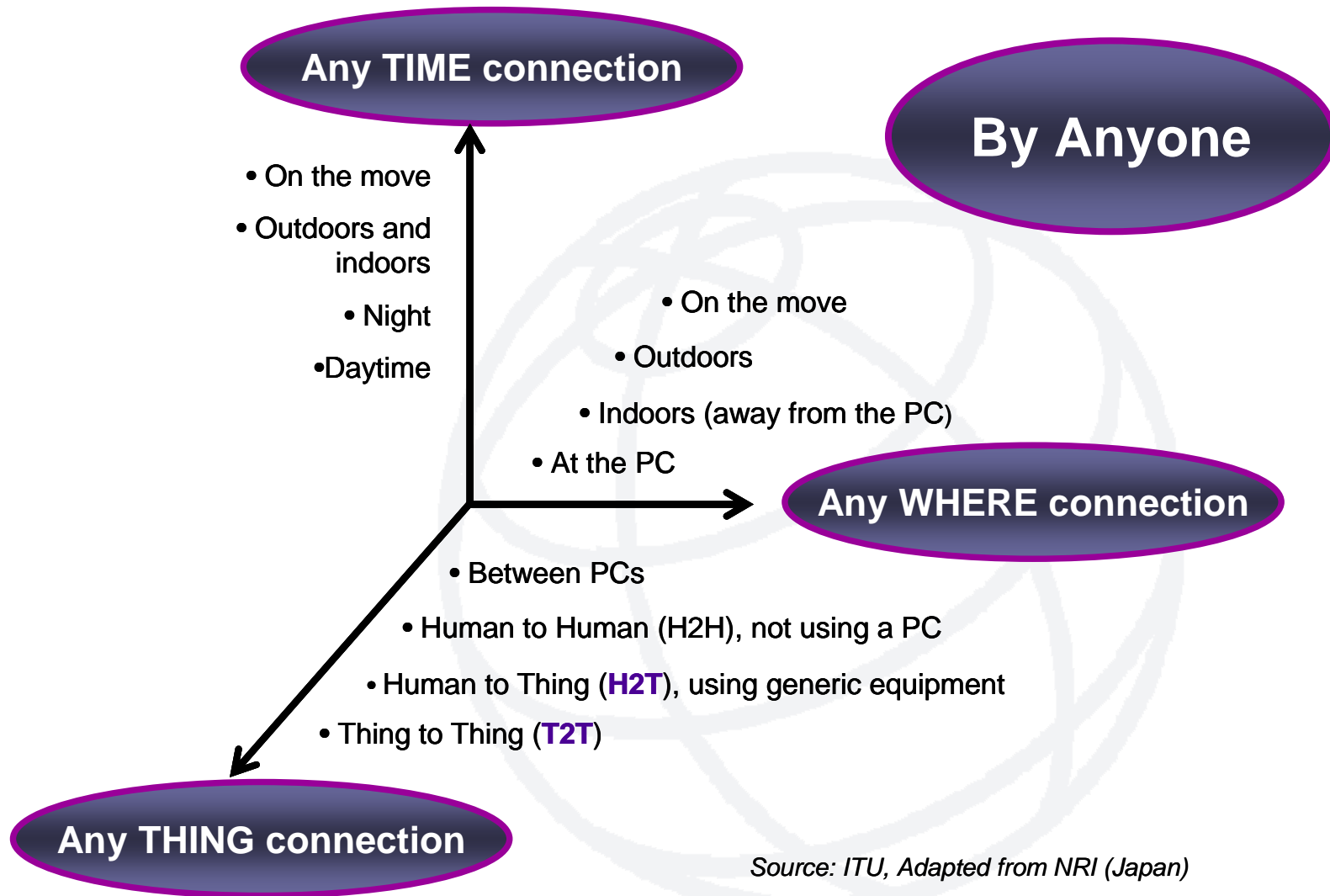


Tomorrow's Networks focus on ubiquitous access to ICT services, in a converged manner.



- I. Encompassing the 4A vision: Anywhere, Anytime, by Anyone and Anything**
- II. Emphasizing the importance of network and service convergence, using Next Generation Networks as underlying infrastructure**

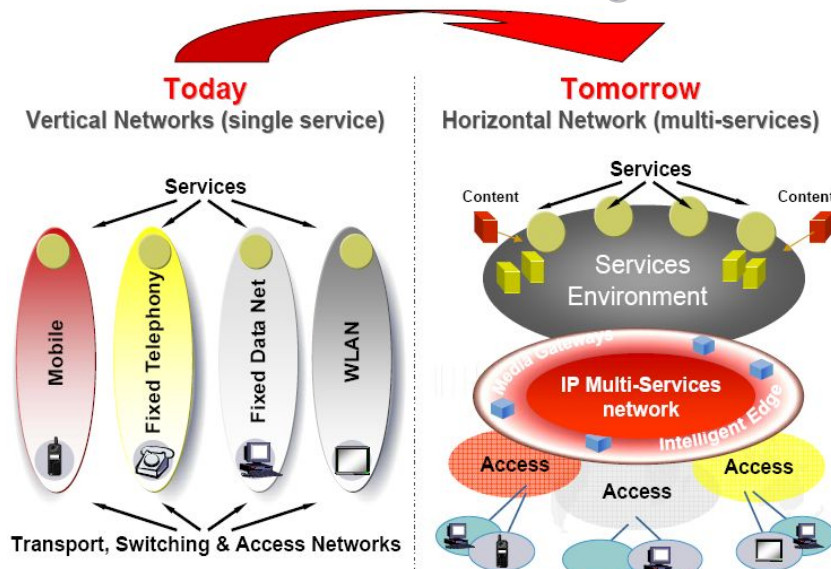
The 4A Vision



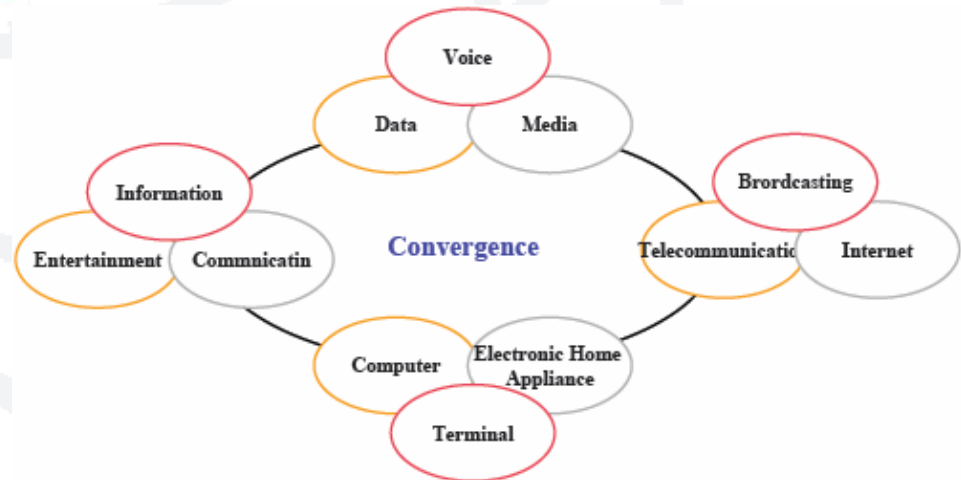
Convergence is the key



Network Convergence



Service Convergence

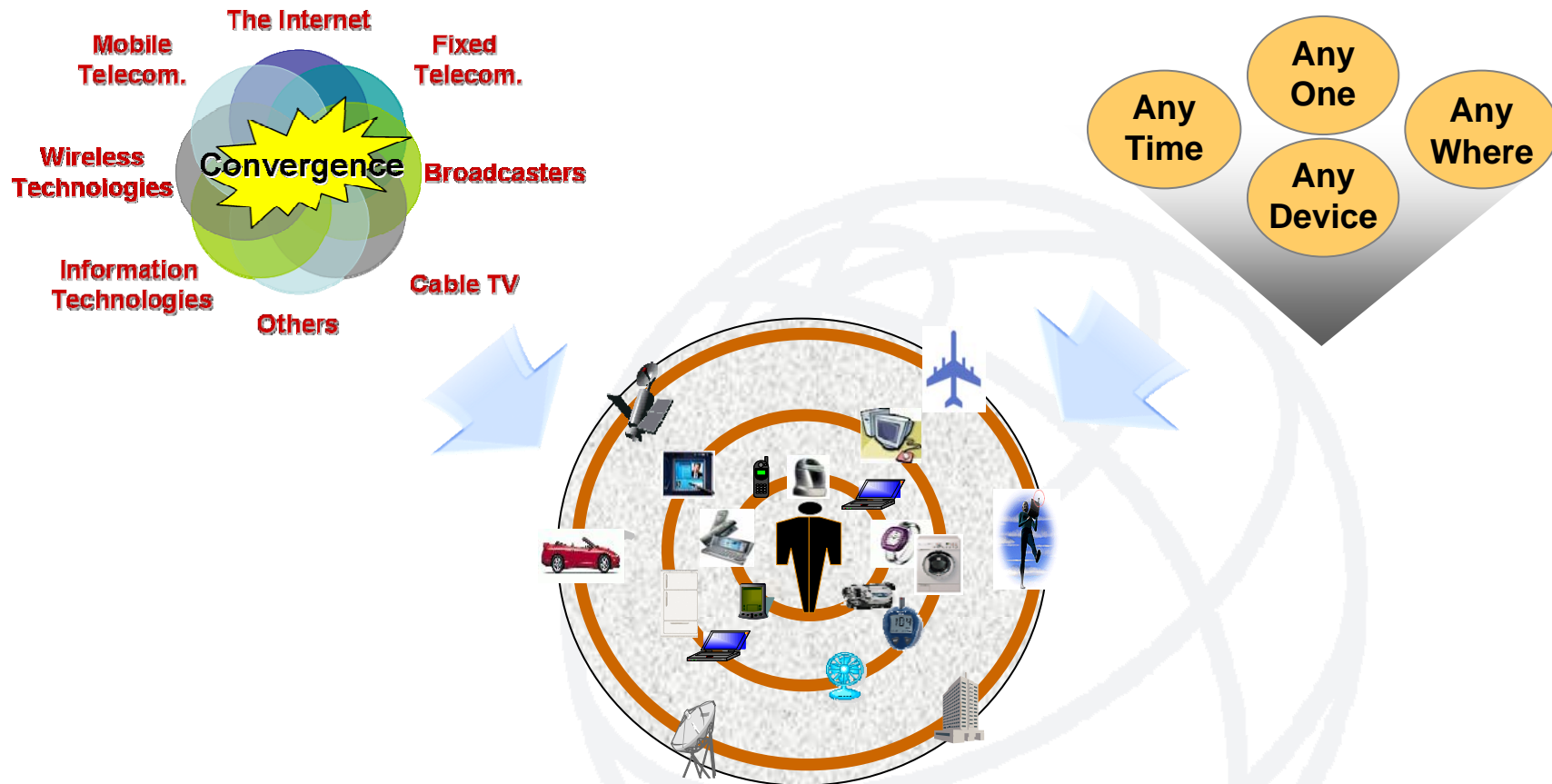


Content: Bringing the best of two worlds



- I. Convergence sets two different regulatory cultures on a collision course:
 - ✓ highly-interventionist broadcasting regulation
 - ✓ less interventionist culture of telecoms
- II. Sensitive topic as the regulation of audiovisual content industries is culturally embedded and tied to national regulatory regimes
- III. In Europe being tackled in the audiovisual media services directive

The way ahead

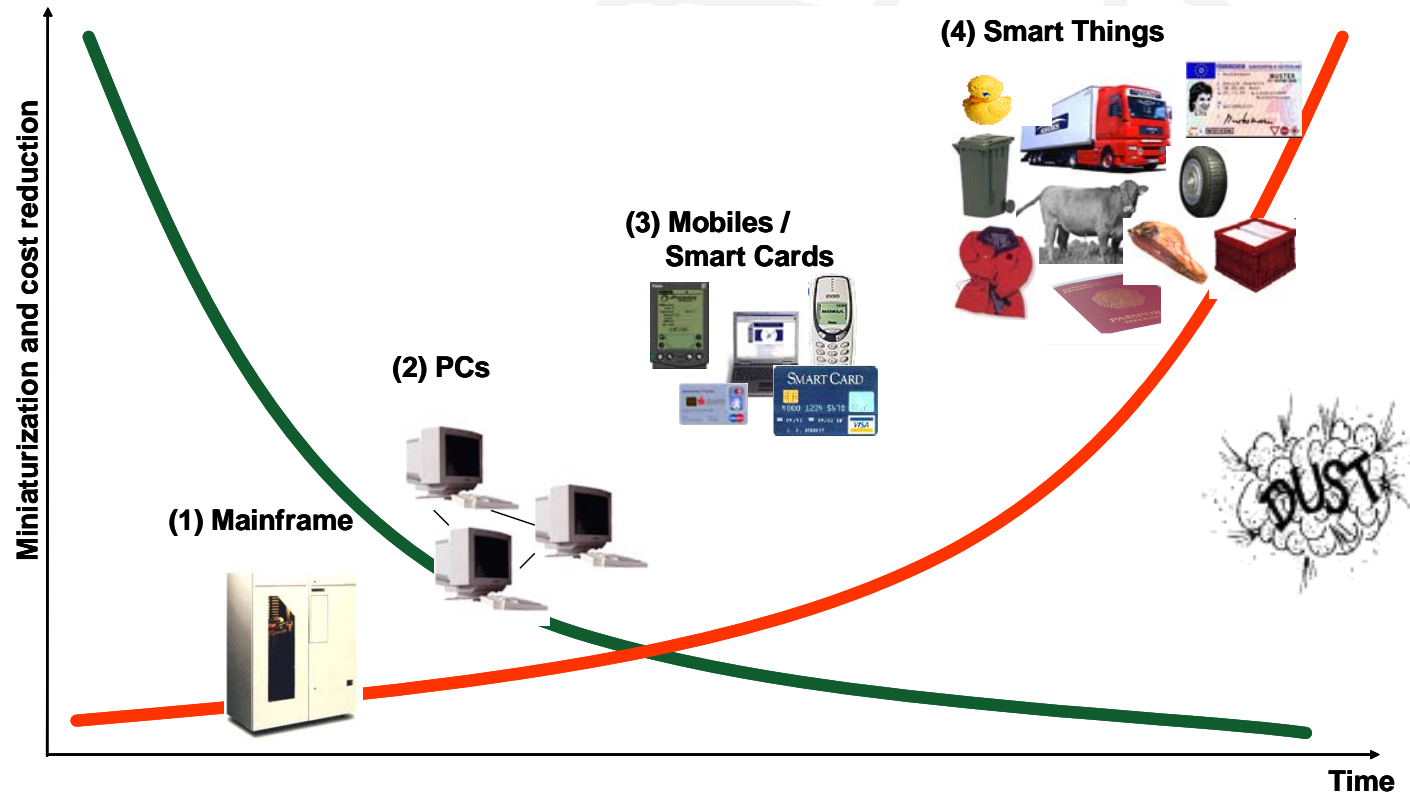


User Centric Experience
Transparent from the underlying technical infrastructure
Both mobile and nomadic

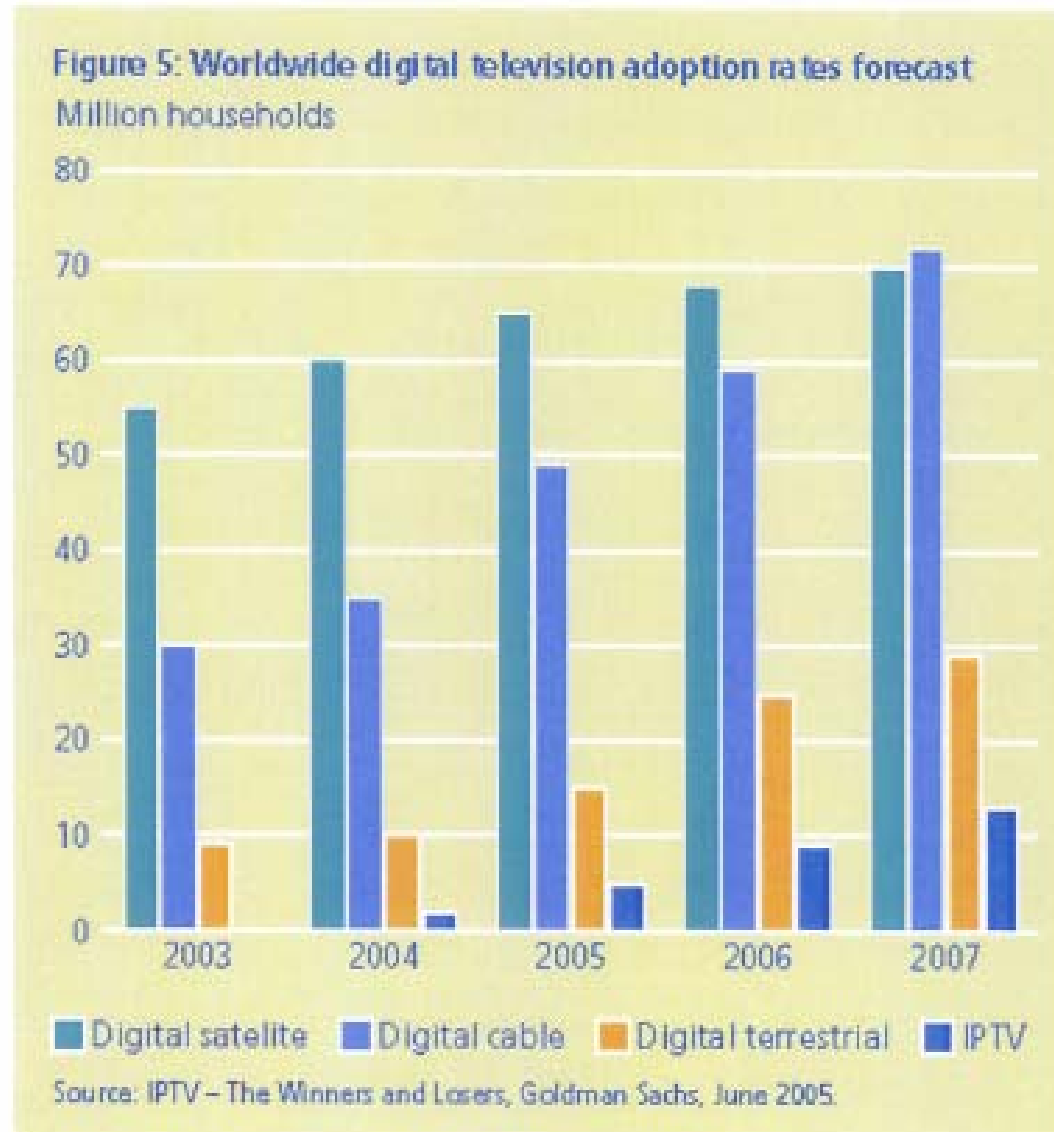
Evolution of handhelds



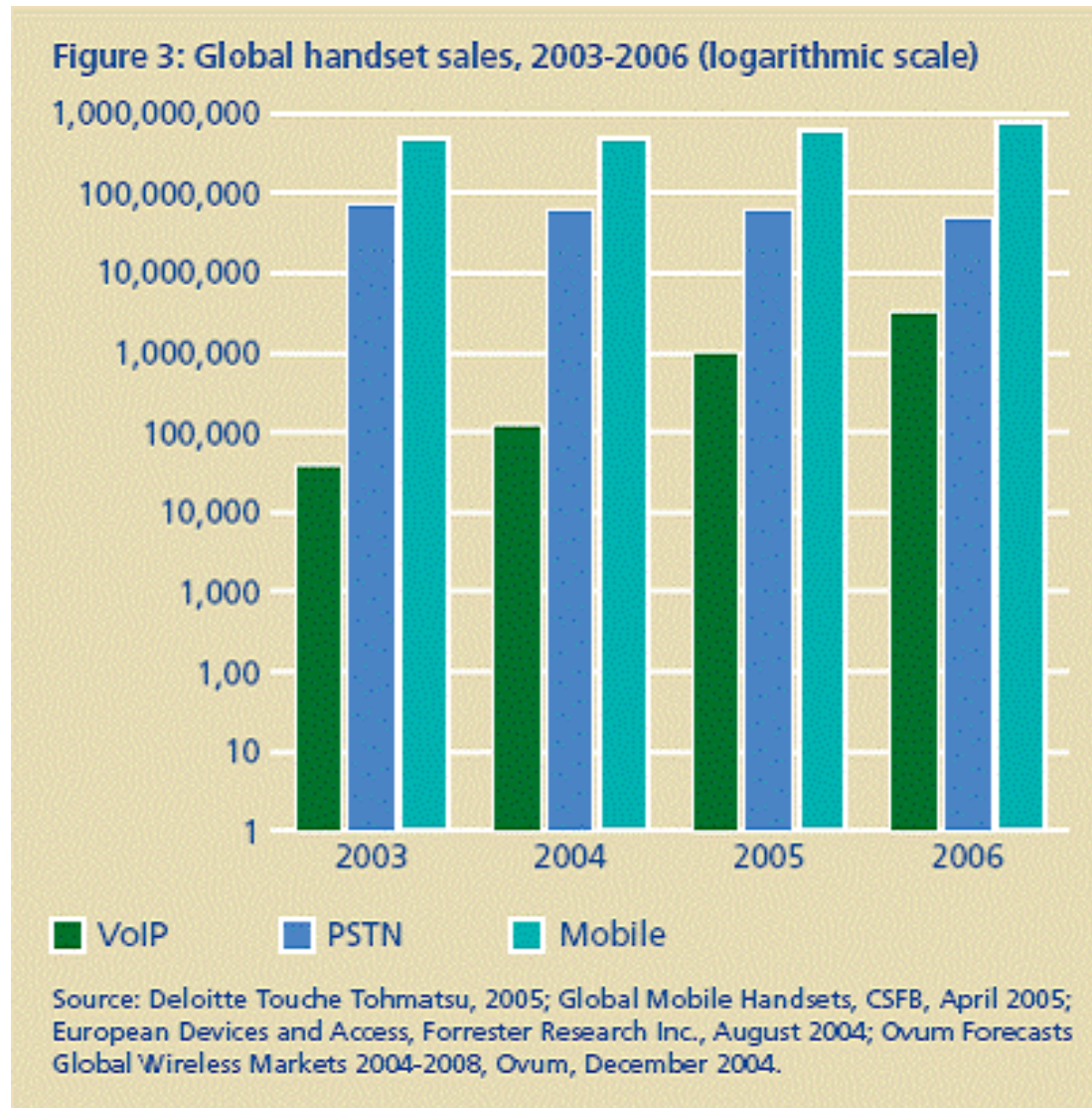
- I. Devices have reduced in size and price
- II. Progressive miniaturization and cost reduction brings large diffusion and potential increase in use ICT services



Some stats - Households..



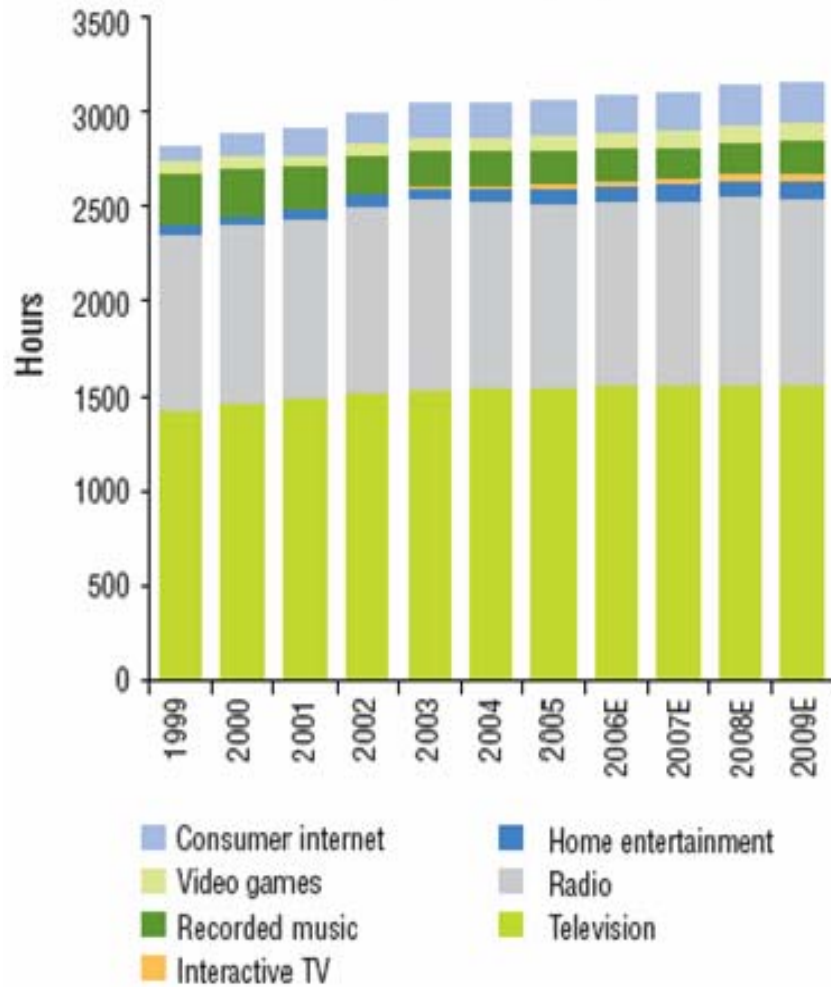
..handhelds..



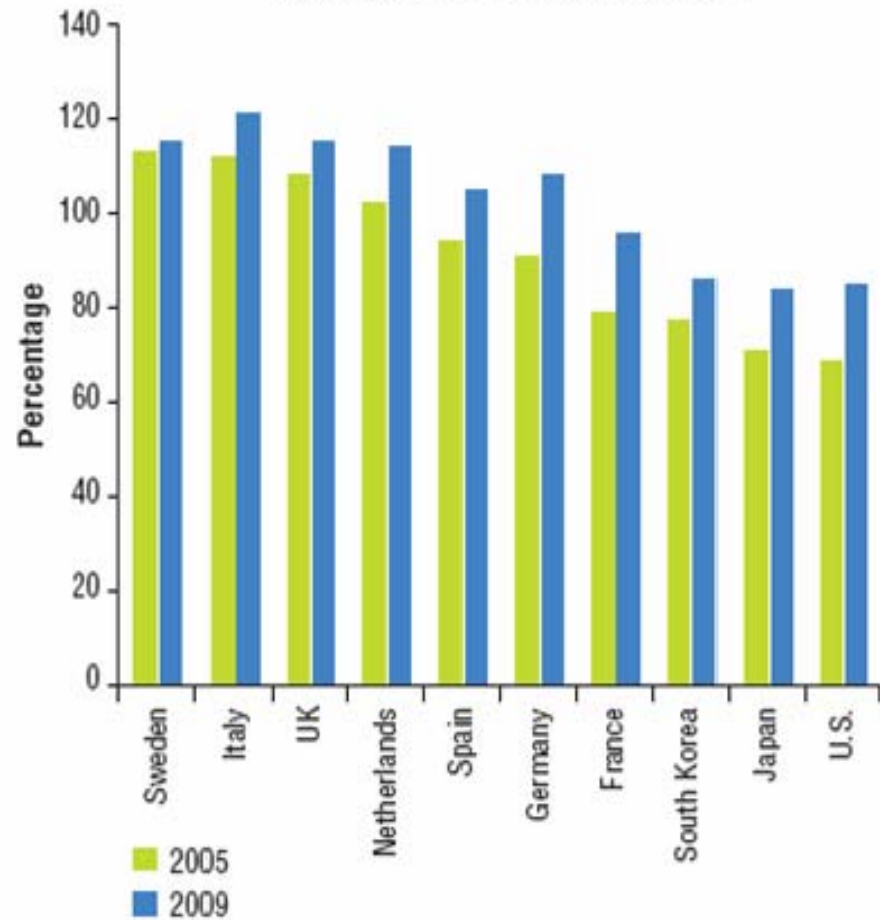
..and related content



Media consumption hours per person U.S.



Mobile penetration in major markets



Source: IBM

The next frontier: television tailored for mobile phones



3 Hong Kong is the first mobile operator in Hong Kong to work with local news providers – Bloomberg TV, Phoenix Info News TV, Hong Kong Cable TV—to deliver 24-hour coverage of live streaming of local, international, finance and entertainment news in English, Putonghua and Cantonese



DMB in Korea

From January 2006 - Governmental subsidy on the usage of Mobile TV

Walk TV - The first DVB-H TV in Europe



Mobile TV has the potential to deliver new, revolutionary content that will extend the entertainment concept.

The age of DVB-H has started in Italy. "WalkTV", the new mobile TV with digital technology launched first by 3 in Europe (Italy), begins broadcasting. Customers are able to enjoy RAI1, Canale 5, SKY TG24 and the promo of La3 Live, the first of the channels produced directly by 3 Italia, directly on their tivufonino

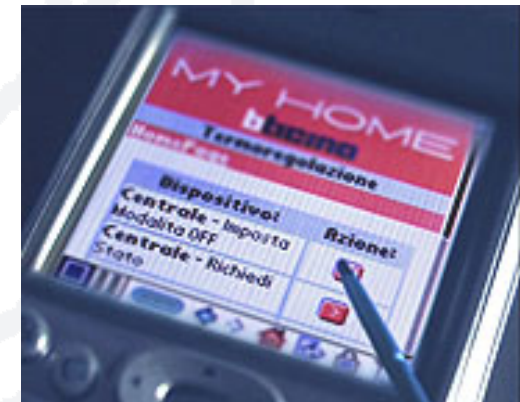


Source:H3G

Domotic services



My Home Web is the BTicino My Home collection of house automation services to manage the home remotely. The My Home Web service customer can thus choose the means of communication which is most convenient at different times: the PC connected to the Internet, while when traveling the mobile phone.



Source: Bticino

What will your handheld look like in 2015?

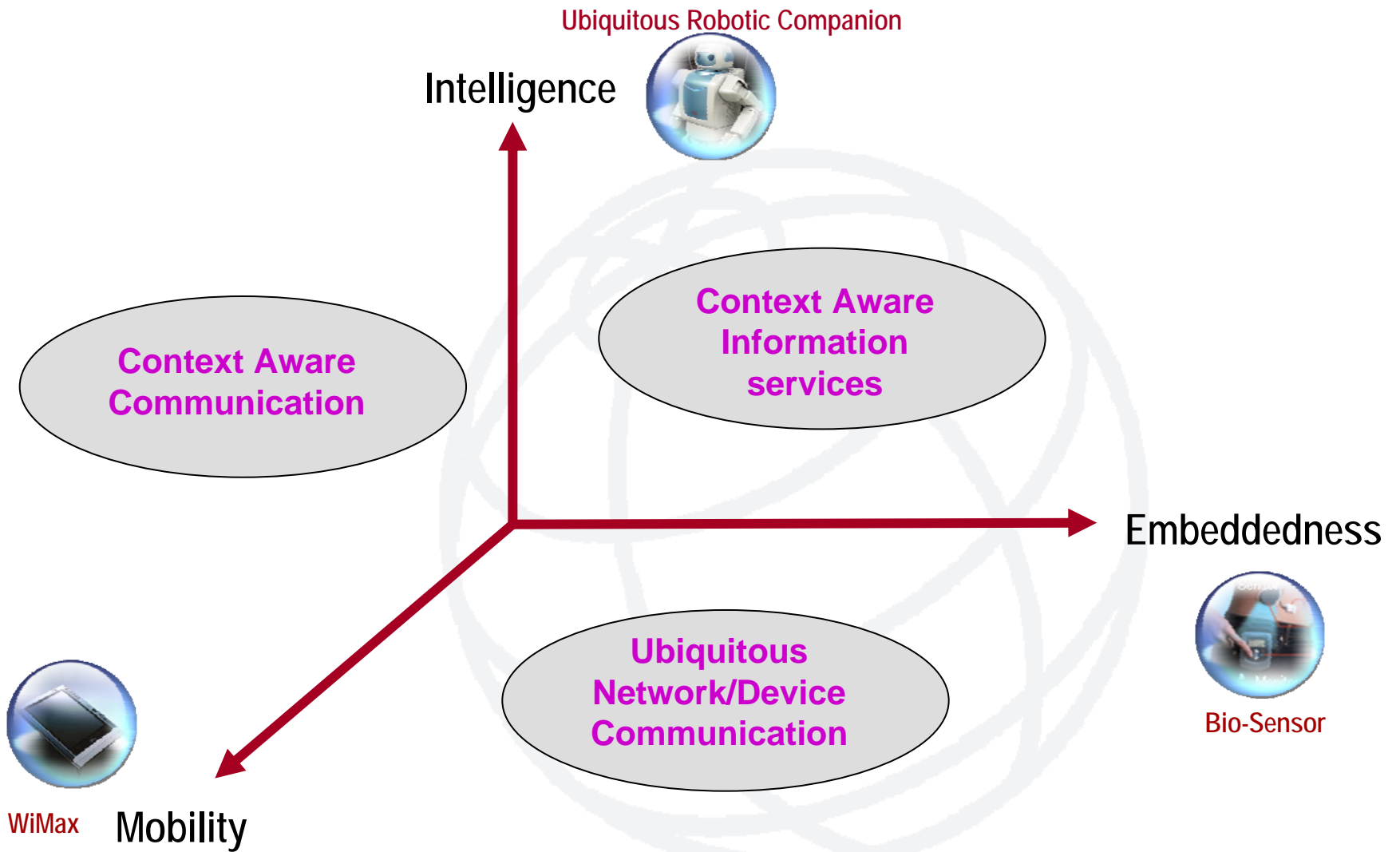


“It is not only a portable phone but also a piece of home that you can carry around with you. It's an emotional object that creates a comforting effect by reminding you of a favourite place or special person.”



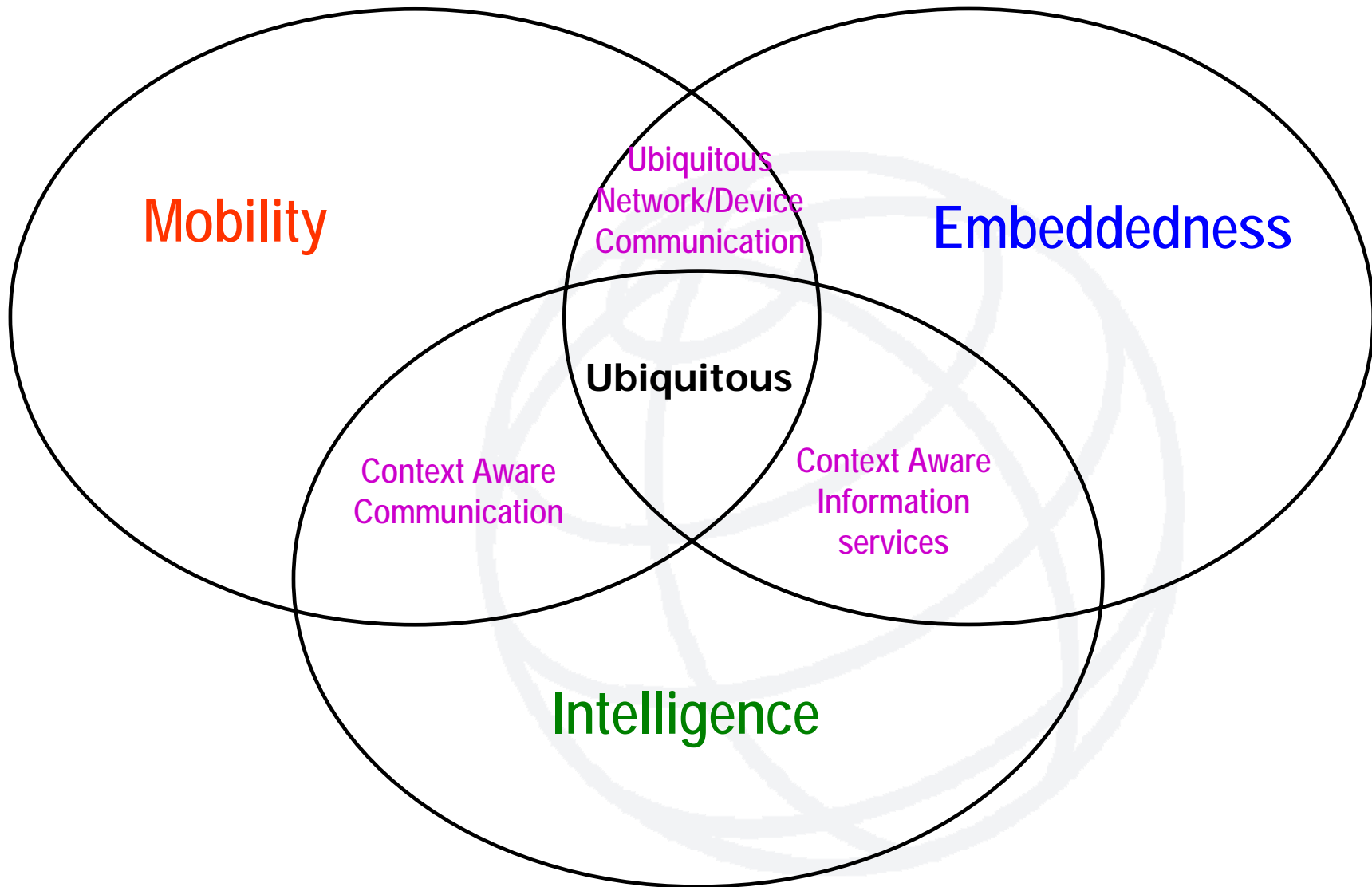
Source: Nokia

The future is here..



Source: ETRI

..Tomorrow's Networks??



Useful links



I. Strategy and Policy Unit

- ✓ www.itu.int/spu

II. Shaping Tomorrow's Networks Programme

- ✓ www.itu.int/stn

III. Market Mechanisms for Spectrum Management

- ✓ www.itu.int/spectrum

IV. Tomorrow's Networks Today

- ✓ www.itu.int/tnt

THANK YOU !

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