

Regional Preparatory Meeting for the ITU World Telecommunication Development Conference 2010 (WTDC-10)

Information Society Statistical Profiles 2009 Europe

Andorra 1-3 December, 2009





Recent ICT Trends

• Telecommunication and media sector convergence: hype or reality?

Benchmarking the Information Society





• Recent ICT Trends

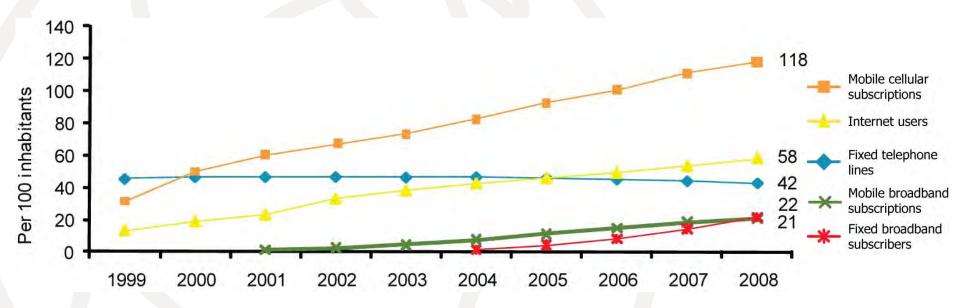
- Overview

- Fixed and mobile telephony

- Internet and broadband



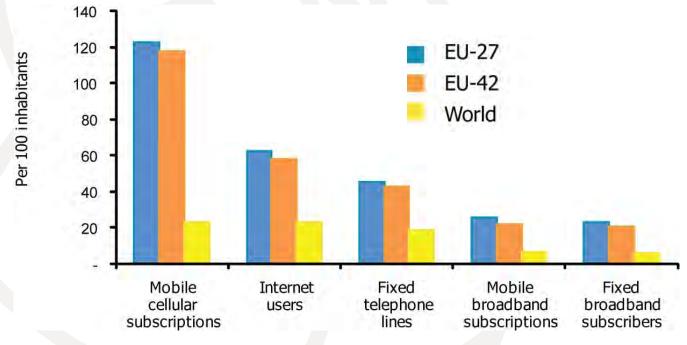
Strong 10-year growth in ICT services and high penetration levels in Europe-42



Source: ITU.



Europe's ICT penetration rates consistently higher than world average (2008)



Source: ITU.

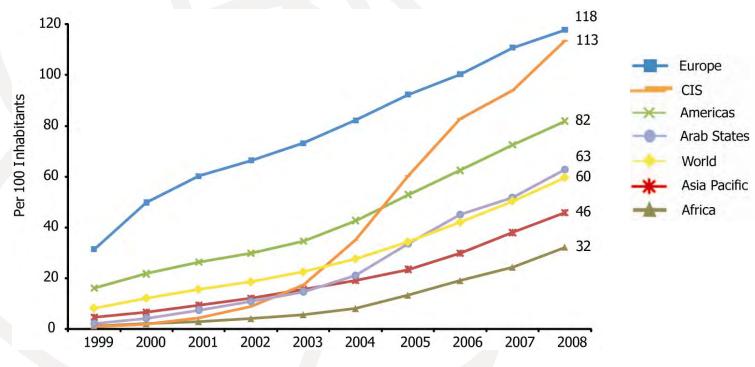




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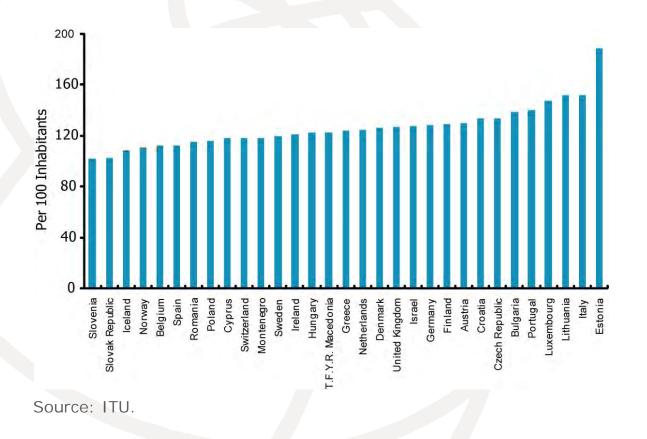
Europe leads in mobile penetration



Source: ITU.

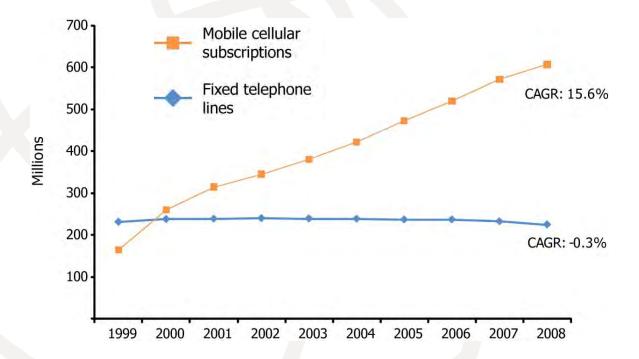


European countries with mobile cellular penetration above 100 per cent, 2008





Mobile cellular subscriptions and fixed telephone lines in E-42, 1999-2008









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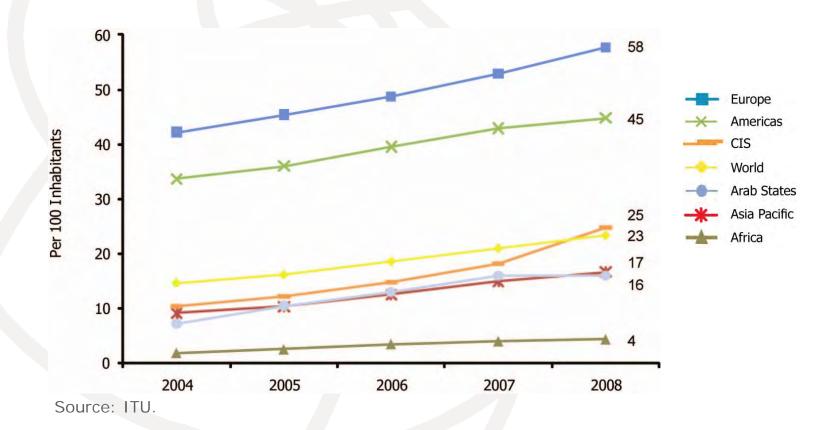
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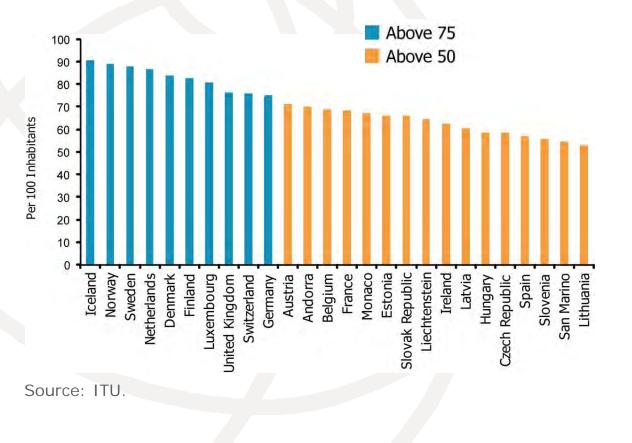


Internet users by region, 2004-2008



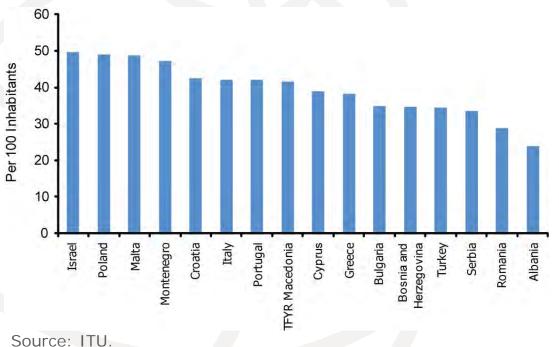


European countries with Internet user penetration above 50%, 2008



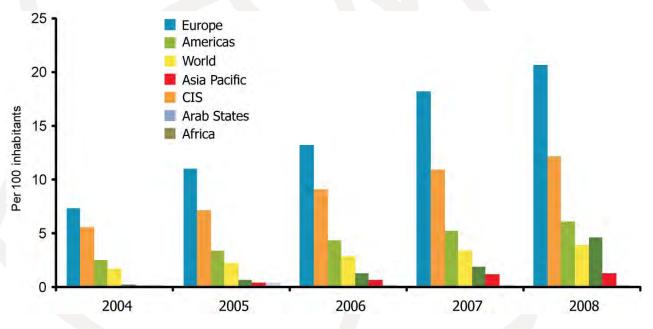


...and Internet user penetration below 50% (2008)





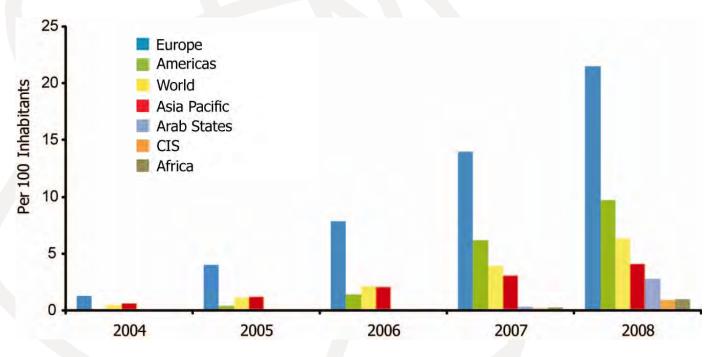
Fixed broadband penetration by region, 2004-2008



Source: ITU.



Mobile broadband penetration by region, 2004-2008



Source: ITU.



A set of policy choices and regulatory initiatives to stimulate broadband growth

- Harmonized pan-European approach: pan-European i2010 initiative played an important role in enhancing digital inclusion and enabling broadband diffusion
- National strategies: examples include "Digital Britain" strategy in UK, "Avanza Plan" in Spain, "National Broadband Strategy" in Germany.
- Regulatory intervention: timely and efficient enactment of key levers such as local loop unbundling, price controls, and the licensing of Internet Service Providers





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 - Supply Drivers
 - Demand Drivers
 - Role of Policy Makers and Regulators



Dynamics of the European telecommunication market have changed

- Key characteristics of the telecommunication industry
 - Stagnating revenues and profitability for operators
 - Introduction of bundled service packages
 - Increased competition from non-telecommunication players
- Key characteristics of the media industry:
 - Strong financial position
 - Exploring new markets
 - Digital switchover opportunity





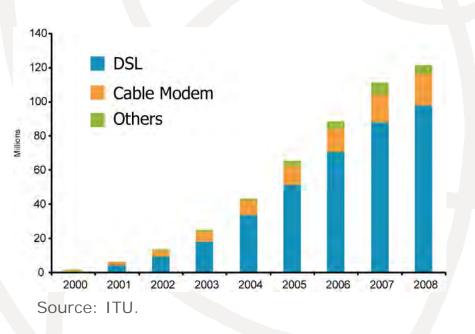
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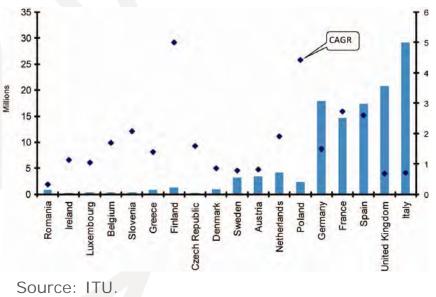


Fixed and mobile broadband growth: strong supply drivers in the telecommunication sector

Fixed broadband subscribers by technology in E-42, 2000-2008

Mobile broadband subscriptions (2008) and CAGR (2004-2008), selected European countries







Key role of public support in developing broadband networks

- Recent trends by governments and private entities to form Public Private Partnerships, aiming to deploy fiber access networks:
 - Stokab in Sweden: created based on the initiative of Stockholm's municipality, with the intent of deploying fiber access networks and offering wholesale dark fiber services
 - National Broadband Strategy in Germany: aims to provide broadband connections of at least 50 Mbps to 75 per cent of German households by 2014
 - FTTH Project in Greece: MoC announced an ambitious public-private-partnership project to connect 2 million households to fiber access by 2017



Status of spectrum refarming –use of the "Digital Dividend" in EU-27, 2009







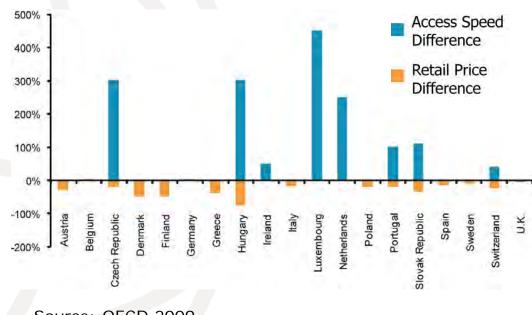
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Demand is stimulated by decrease in retail prices

- Retail prices for fixed and mobile have decreased over the period 2006-2008
- For broadband services, prices have decreased and/or speeds have increased (at no additional cost)

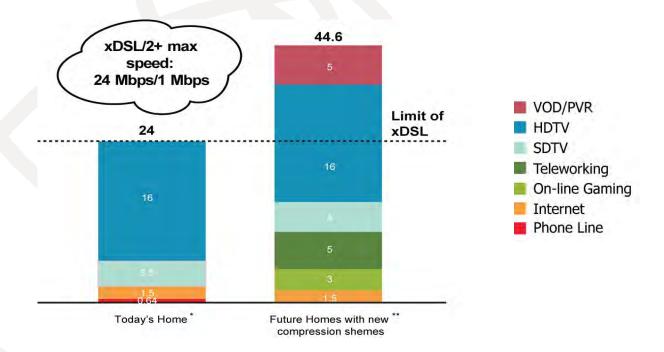
Incumbent broadband price and speed changes, selected European countries, September 2006- September 2008



Source: OECD 2009.



Household demand for bandwidth (Mbps) in Europe, 2008



Note: *Today's home refers to 2008 and includes one phone, Internet, one Standard Definition TV (SDTV) and one High Definition TV (HDTV) service. **Future home refers to 2012 and includes two phones, Internet, two SDTVs, two HDTVs and additional applications.

Source: Corning Cable Systems 2006.





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Telecommunication and media convergence: key considerations for policy makers and regulators

- Review of economic and social objectives, taking into consideration key guidelines issued by EC/OECD
- Creation of a converged telecommunication/media regulator?
- Review regulatory rules in view of key levers such as spectrum allocation, content protection and market dominance



Is there a need for a converged telecommunication and media regulator?

- Key advantages:
 - One-stop-shop for resolving regulatory issues
 - > Operational efficiencies, e.g. more resources available
 - Less overlap and turf battles between government agencies
 - Operators find it easier to comply with only one regulatory authority
 - Better overview and understanding of the marketplace
- Key disadvantages:
 - Disparity in the approach of regulating telecommunication and media sectors
 - > Difficulties in defining single markets and applying remedies
 - Implications for defining board size (governance), as well as authorization and decision making rights (management)
 - Considerable time and effort required in merging two entities





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• Telecommunication and Media Sectors Convergence: Hype or a Reality?

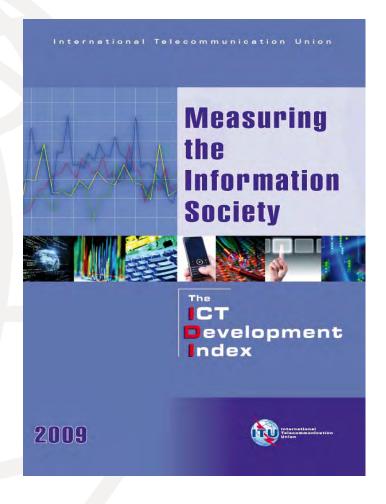
Benchmarking the Information Society



Benchmarking the information society

- ICT
 Development
 Index
- ICT
 Price
 Basket

www.itu.int/ict





ICT Development Index (IDI)

- Track ICT progress over time
- Address all countries global index
- Measure digital divide
- Capture ICT development potential
- 11 indicators
- Two years: 2002 and 2007

Update of IDI (2008 data) will be available in early 2010

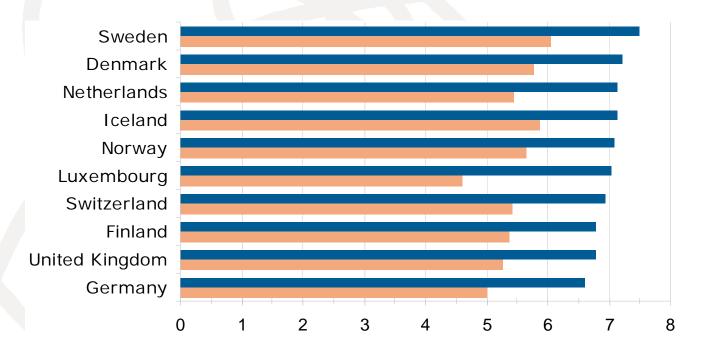


IDI – Weighting of indicators

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Index



Regional IDI results for Europe: top 10

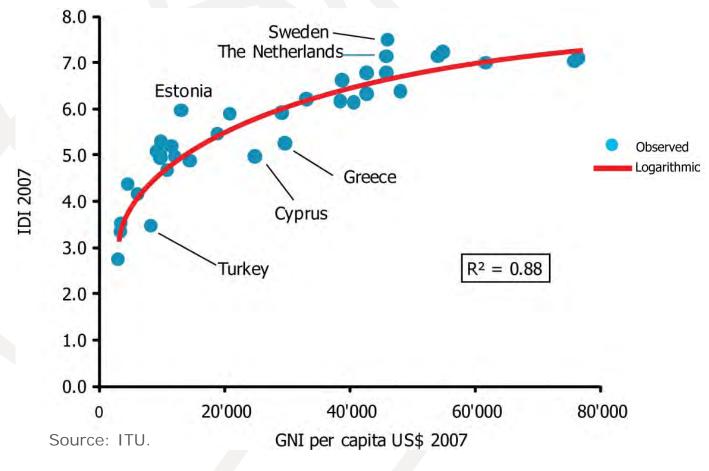


IDI 2002 IDI 2007

Source: ITU.



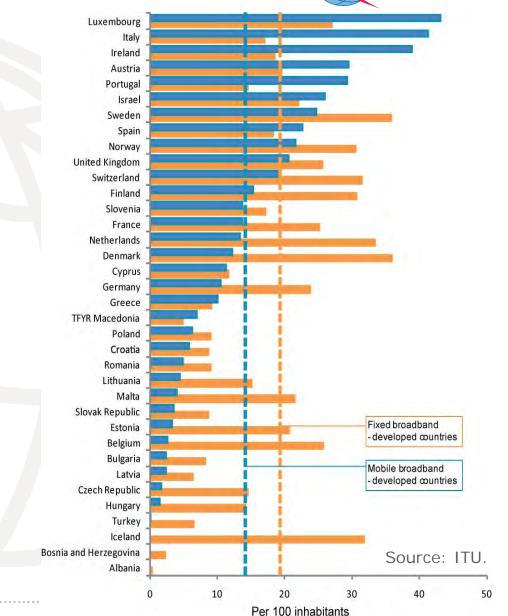
Correlation of ICT levels and income levels





Europe's lead in mobile and fixed broadband

- Mobile broadband subscriptions
 - Fixed broadband subscriptions





The ICT Price Basket 2008

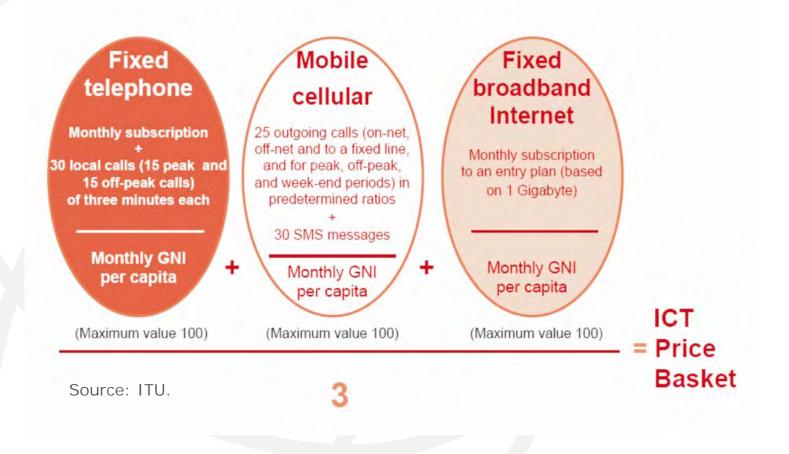
How much do ICT services cost?

- Fixed telephone
- Mobile cellular
- Fixed broadband Internet
- US\$, PPP\$, % of monthly GNI per capita

Updated ICT Price Basket (2009) available in early 2010



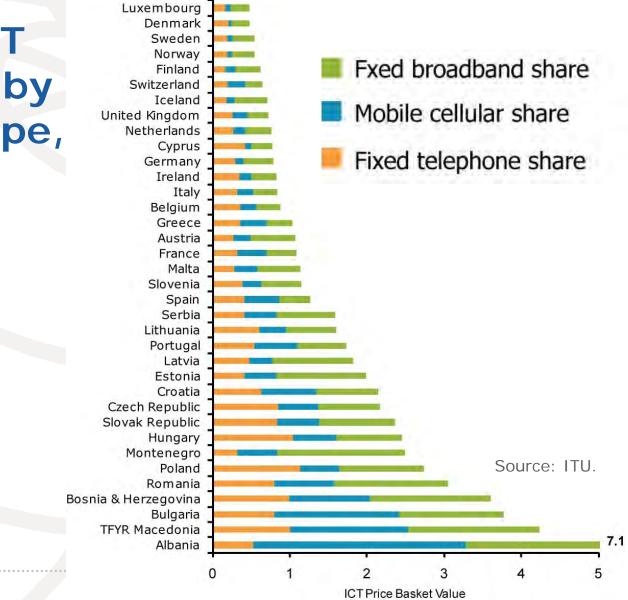
ICT Price Basket methodology





Regional ICT Price Basket by country, Europe, 2008

December 2009





Conclusions (I)

- Europe has been undoubtedly the leader in ICT services uptake
- Key success factors include timely adoption of a harmonized legal and regulatory framework, as well as common technological platforms
- In parallel, EU countries have already initiated the process of migrating to digital broadcasting, bringing the telecommunication and media sectors closer
- On the way forward, key regulatory challenges are centered around:
 - ensuring high digital inclusion ("broadband for all")
 - facilitating migration to the next-generation telecommunication and media converged environment



Conclusions (II)

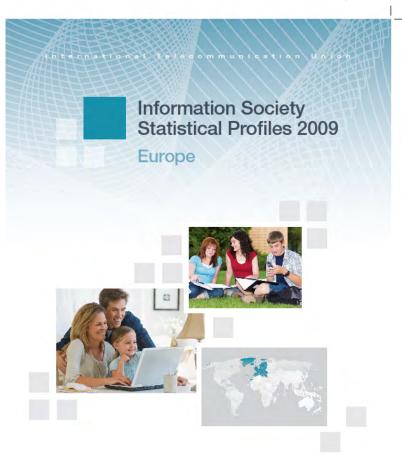
- Recommendations to face the challenges:
 - Enable high-speed network deployment to ensure nationwide coverage through different platforms
 - Fine tune public support in broadband network development
 - Stimulate demand for new and advanced ICT services; enhance digital inclusion and digital literacy among citizens
 - Decide on optimal use of the digital dividend by adopting a harmonized, pan-European approach
 - Assess converged regulatory environment; decide on the necessity to have a converged regulatory authority and review applied levers

ITU-D

preparation for the World Telecommunication Development Conference 2010



For further information <u>www.itu.int/ict</u> or contact: indicators[at]itu.int



Brisme Usaal Velassa Usaal

December 2009