

STANDARDS AND FUTURE DIRECTIONS IN MOBILE NETWORKS WITHIN THE EUROPEAN UNION

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Agenda



- Introduction
- Classification of Standards
- Formal Standards Development Organisations
- Impact categories of standards along the value chain
- European Telecommunication Standards Institute
- Future standards
- Conclusions



Standards:

- refer to a set of specifications to which all elements of products, processes, formats, or procedures under its jurisdiction must conform (Wegberg, 2004).
- enable agreement on solutions of recurrent problems
- have the objective of increasing the efficiency of economic activity



Classification of standards



Standards may develop through:

- market mechanisms - de facto
- organizations that combine market participants - formal
- government legislation - de jure



Formal Standards Development Organisations



- national standards bodies (BSI, DS, ASRO)
- the three recognised European Standards Organisations (CEN, CENELEC, ETSI).
- the three recognised international standards organisations (ISO, IEC, ITU).



Impact categories of standards along the value chain





Research and development



Impact category	Predicted impacts of standards
Speed of development for new products and services (i.e. time to market)	Standards decrease time to market by creating coordination efficiencies
Globalizing the R&D process	R&D will be distributed internationally
On design costs for new products and/or services	Standards reduce design costs by making component evaluation and coordination more efficient



Purchasing



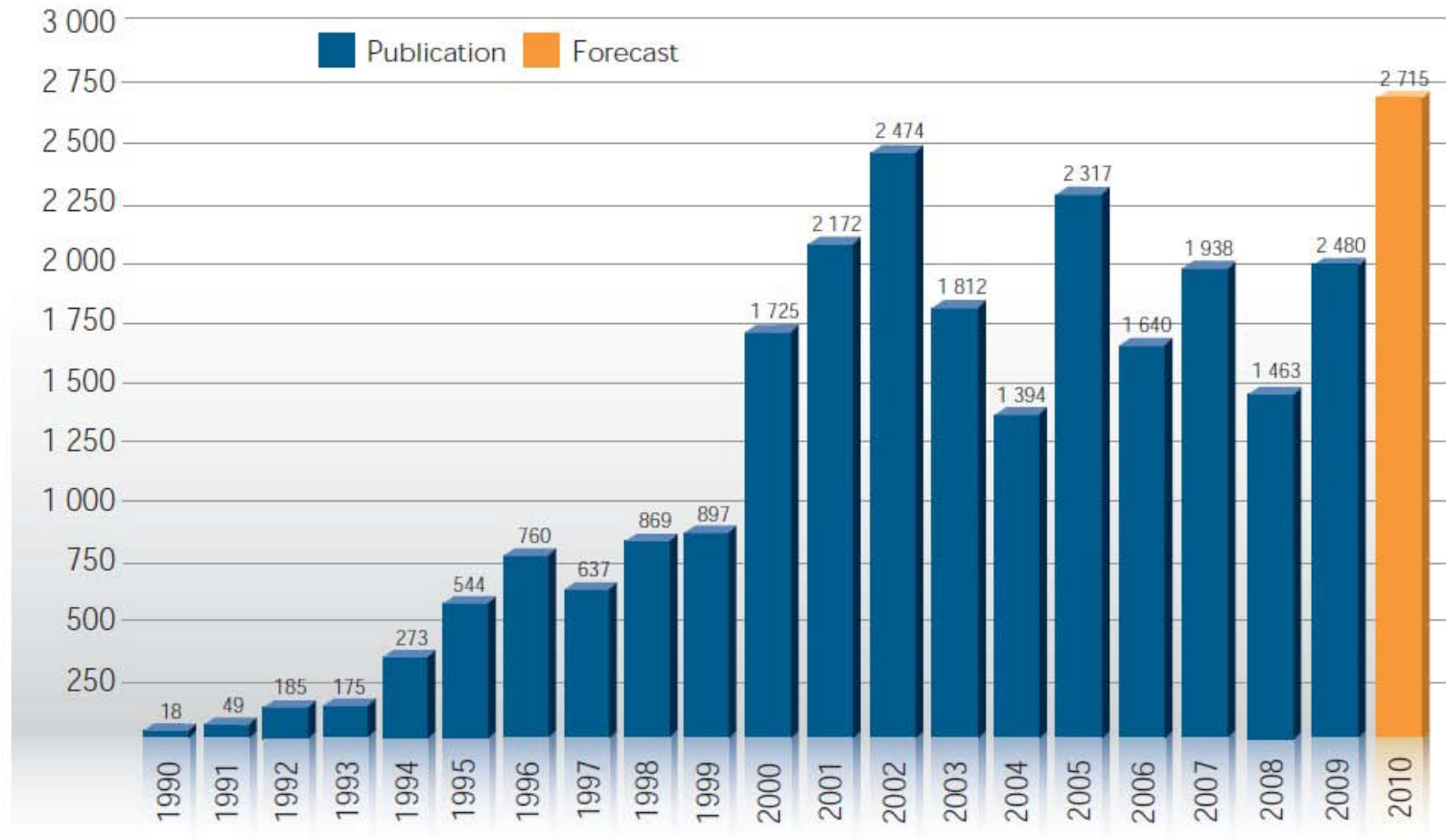
Impact category	Predicted impacts of standards
Facilitating market entry of new component suppliers	Standards lower the cost of market entry, thus increasing the number of suppliers
On component prices in the supply chain	By encouraging market entry, standards place downward pressures on component prices
Outsourcing opportunities	More production inputs will be outsourced
Easing world-wide procurement	International sourcing of components and services will increase
Quality of procured components	Standards will improve production processes and quality assessment



- **ETSI** is a producer of globally applicable standards for ICT, including fixed, mobile, radio, converged, broadcast and Internet technologies.
- **ETSI** is officially recognized by the European Union as a European Standards Organisation.
- **ETSI** is addressing issues associated with the convergence of Information Technology (IT) and telecommunications, paying particular attention to scenarios where connectivity goes beyond the local network



An overview of standards production of ETSI





Future standards



- The Internet of Things
- Grid and Clouds
- Long Term Evolution networks



Conclusions



- Standards play critical roles as they mediate different interests and motivations among participating actors
- ICT standards are important for structuring relationships by facilitating world-wide procurement, outsourcing, production and even R&D.



Thank you!