



Standards and Accessibility – How to Make Accessibility Solutions Available to All

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What I will talk about

- Introduction to ETSI
- The role of standards for UI design and accessibility
- Standards and regulation
- Accessibility requirements for ICT products and services
- Examples for accessibility requirements
- Concluding remarks



ETSI at a glance

- ✔ ICT standards organization, based in France, with global reach
- ✔ At the forefront of emerging technologies: NFV, IoT, smart cities, ITS, cybersecurity
- ✔ Global membership:
 - ✔ Over 800 organizations: large and small private companies, research entities, academia, government and public organizations
 - ✔ From 66 countries
 - ✔ 5 continents
 - ✔ 25% SMEs
- ✔ Direct participation: consensus based
- ✔ More than 35 000 free publications

ETSI at a glance

- ✔ 120 Secretariat members
 - ✔ Supporting around 7000 industry experts/year
- ✔ More than 90 partnerships
- ✔ Global network of alliances (regional/technical)
 - ✔ 3GPP: global partnership project for cellular telecommunications network technologies
 - ✔ oneM2M: global partnership project for Machine to Machine Communications and the Internet of Things
- ✔ Major focus on Interoperability: Center for Testing and Interoperability

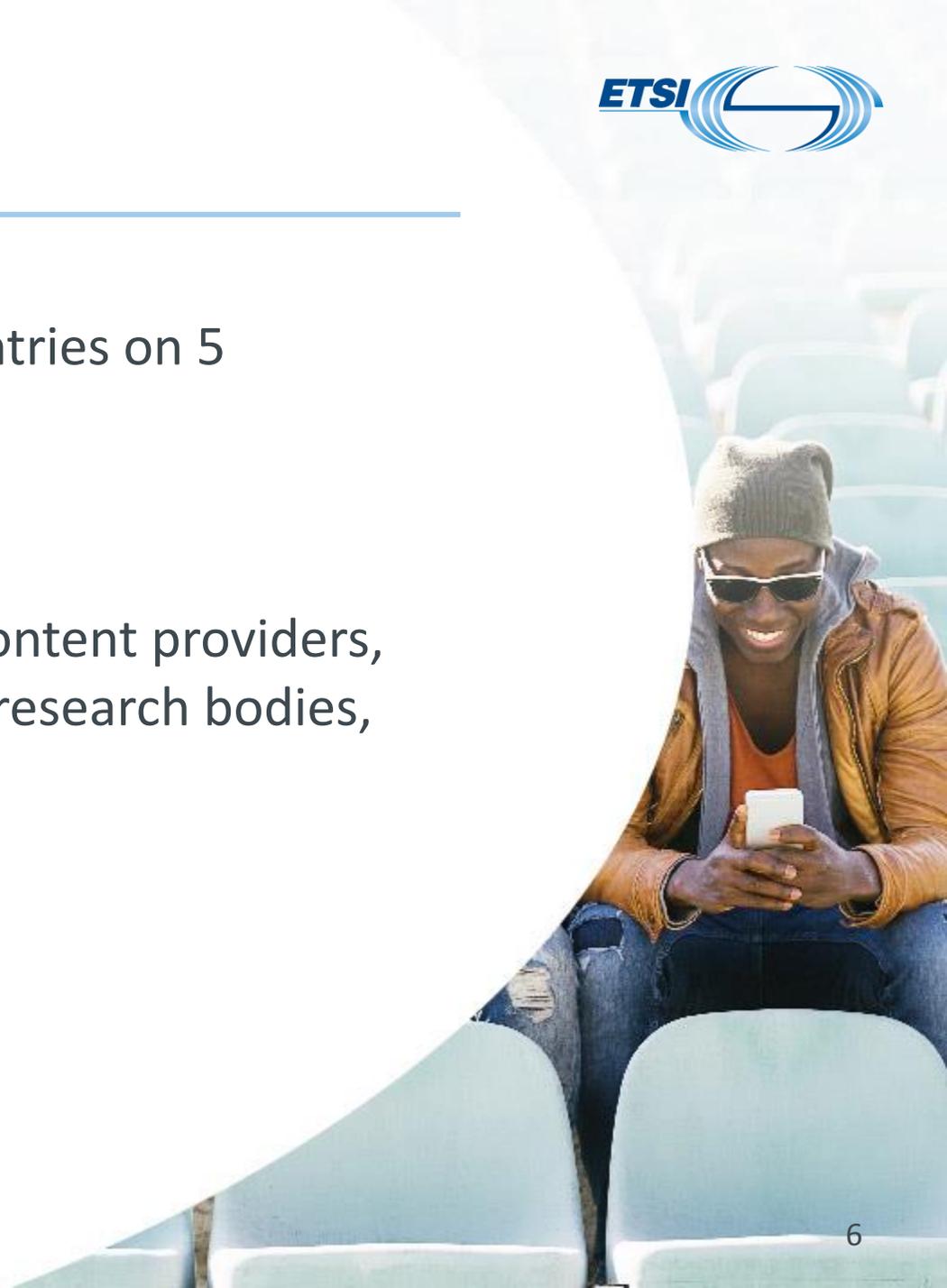
ETSI in Europe

- ✔ Recognized by the European Union as an official European Standards Organization (ESO) under Regulation 1025/2012.
- ✔ Created in 1988 to respond to particular needs in Europe in support of the single European market
- ✔ We produce standards for
 - ✔ European industry
 - ✔ To support European Union and European Free Trade Association (EFTA) regulation and legislation
- ✔ Officially recognised at EU/EFTA and governmental levels
- ✔ We contribute ICT radio frequency requirements to the European co-ordination process
- ✔ We produce Harmonised Standards including those supporting the Web Accessibility Directive

Membership

- ❖ Over 800 organizations, big & small, from 68 countries on 5 continents
- ❖ Direct participation in our work
- ❖ Manufacturers, network operators, service and content providers, national administrations, ministries, universities, research bodies, consultancies, user organizations

**A powerful and dynamic mix
of skills, resources and
ambitions**



The role of Standards for UI Design and Accessibility

- Standards are important tools for the communication between
 - Manufacturers, service providers and App designers on one side (the “Industry”)
 - Users, procurement people, lobby groups, regulators (the “Users”)
- Standards define the requirements of users with accessibility needs.
- Standards allow the industry to rely on a fixed set of requirements to develop marketable and economically viable solutions to address accessibility issues.
- Standards will always define (only) a subset of the optimal accessibility solutions.
- Harmonized standards can be used for conformance testing of products and services – regulatory use of standardized specifications.



EN 301 549: Accessibility requirements for ICT products and services



- Originally developed for public procurement purposes.
- Supported by ETSI/CEN/Cenelec and developed by a Joint Working Group of the three SDOs.
- Now re-published as a harmonized standard supporting the implementation of the Web Accessibility Directive – in line with the W3C's WCAG 2.1
- Still directed towards public sector – but with a huge influence on private industry as well.

Two examples for application areas

- Real time texting: RTT
 - Complex due to the strong relation to infrastructure and legacy devices
 - Solvable “in principle” but no unique and optimal solution
 - Replaced by newer texting approaches?
- Mobile Apps and Website design
 - Requirements imposed by the WAD
 - Compliant with WCAG 2.1
 - At this time only for the public sector but broader applicability



Concluding Remarks

- ❖ Standards are important for a broad dissemination of accessibility solutions.
- ❖ Standards can avoid “island solutions”.
- ❖ Standards help keeping the industry partners competitive.
- ❖ Accessibility standards are “good for everyone” – for the broadest range of possible users and for the manufacturers and designers of products and services.
- ❖ Standards have regulatory function – they can be used to ensure adherence to legal requirements.