

# Welcome to the World of Standards



## WELCOME TO THE LOW POWER RADIO ASSOCIATION

Michael Sharpe - ETSI Director: Spectrum and Equipment Regulation

Radio Solutions, Sophia Antipolis, 10 to 11 March 2015

- **Radio Equipment Directive: all equipment using radio communications (or radiodetermination) is covered**
  - Essential requirements on receivers
  - Products including GPS, Wi-Fi, Bluetooth are covered – regardless of their “primary function”
  - Products operating below 9 kHz are also covered
  - Compliance required by June 2016 (+ 1 year for existing equipment)
- **“Digital Dividend” - how will WBB deployment in 800 MHz affect SRDs on 863 to 870 MHz? What about 700 MHz?**
  - Out of band emissions and mitigation techniques under review
  - Improved receiver requirements being implemented for SRD
  - ETSI-CENELEC Joint Working Group to report during March (ETSI) & May (CENELEC).
  - New spectrum for PMSE above 1 GHz?

- **5 GHz – more spectrum for licence-exempt wireless access?**
  - ETSI BRAN is working on mitigation techniques to allow Wireless Access Systems to share with Earth Exploration Satellite Service, Radiolocation and Road Tolling / Intelligent Transport Systems
- **Vehicle charging (Wireless Power Transfer) – how will this affect inductive SRDs operating below 30 MHz ?**
  - ETSI TR 103 244 under development
- **Is there enough licence-exempt spectrum? Commission study underway (Workshop Brussels 17 March)**
  - Results to be presented to Radio Spectrum Committee Autumn 2015
- **“Unpaired bands” 1900 - 1920 MHz? Use by SRD (including DECT) under consideration for next update of SRD Decision (2017).**

# ETSI's "one table"



**ETSI is a recognised European Standards Organisation**

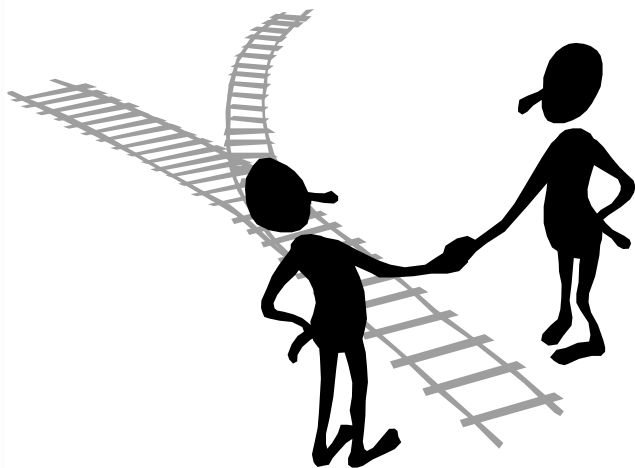
**Association of industry players and government bodies...**

**...manufacturers, network operators, service providers, administrations, users, industry associations, universities, research bodies...**

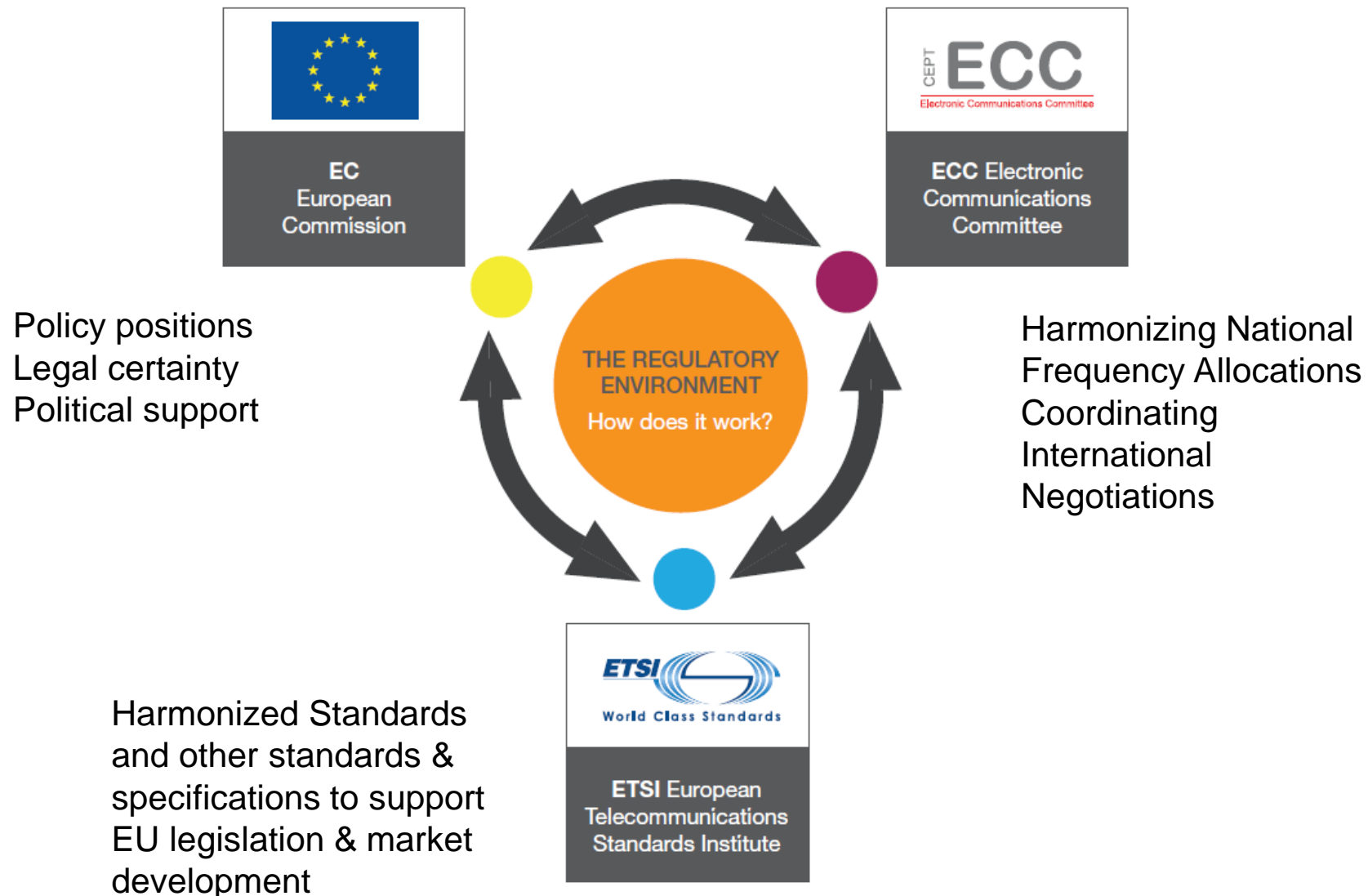
**... with direct participation...**

**... members from all round the world**

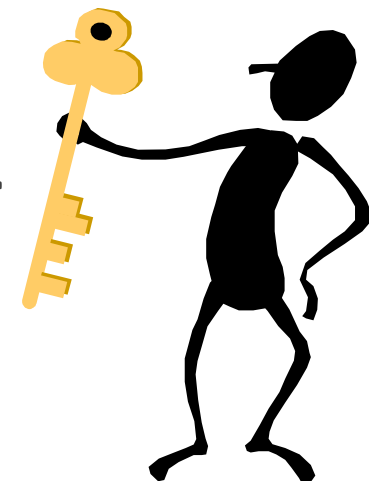
**ETSI standards applied globally**



# ETSI – Part of the European Regulatory System



- Art 7: “Member States shall allow the putting into service and use of radio equipment if it complies with this Directive ...”
- Art 9: “Member States shall not impede... the making available on the market if radio equipment which complies...”
- Art 16: “Radio equipment which is in conformity with harmonised standards ... shall be presumed to be in conformity with the essential requirements...”
- Art 17.3 allows the manufacturer to self-declare conformity (“Internal production control”) if he has applied harmonised standards.
- Alternatives are available: “EU-type examination” or “conformity based on full quality assurance” both require use of a Notified Body





## Some ETSI Harmonised Standards



- EN 300 330, EN 300 220, EN 300 440, EN 302 550: Non-specific short-range devices
- EN 300 328: Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band
- EN 300 422 Radio Microphones
- EN 301 598: TV White Spaces
- EN 301 893: 5 GHz high performance RLAN
- EN 302 065: Ultra Wide Band
- EN 302 208: UHF RFID
- EN 302 567: 60 GHz Multiple-Gigabit WAS/RLAN Systems
- EN 303 203: Medical Body Area Networks
- EN 303 204: Networked Short-Range Devices operating within the 870-876 MHz frequency range
- Download them from: <http://www.etsi.org/standards/looking-for-an-etsi-standard/list-of-harmonized-standards>



- In parallel to the development of Harmonised Standards, ETSI develops “System Reference Documents” to accompany requests for aligned radio frequencies in CEPT countries
- CEPT/ECC studies compatibility with other spectrum users and develops conditions for spectrum sharing
- ETSI members may participate in CEPT/ECC studies and the drafting of spectrum measures
- ETSI is a permanent observer in CEPT/ECC groups that adopt Decisions & Recommendations on spectrum allocations
- Individual National Administrations (48) are invited to commit themselves to implement CEPT/ECC Decisions

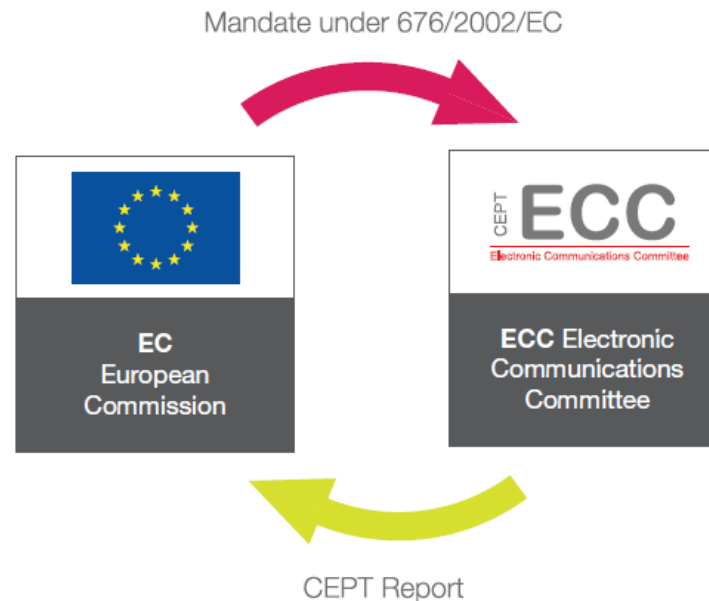


# Co-ordination with EC and CEPT on spectrum mandates



## European Commission consults Member States in the Radio Spectrum Committee (RSCOM):

- Before sending mandates to CEPT
- Before enacting binding Commission Decisions on spectrum
- ETSI and CEPT/ECC are permanent observers



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**COMMISSION IMPLEMENTING DECISION**

**of 11 December 2013**

**amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices and repealing Decision 2005/928/EC**

*(notified under document C(2013) 8776)*

**(Text with EEA relevance)**

**(2013/752/EU)**

- **Set the technical requirements for market access (ETSI Harmonized Standards under Radio Equipment Directive)**
- **Contribute to requests for new spectrum (ETSI System Reference Documents)**
- **Take part in defining technical spectrum regulations (representing an ETSI member in CEPT/ECC)**
- **Contribute to ETSI input to CEPT Decision making process**
- **Contribute to ETSI work in partnership with the European Commission (TCAM, RSCOM, RSPG)**
- **Follow developing regulatory policy (ETSI RADIO\_BRIEFING list)**



**Enjoy the Conference!**

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