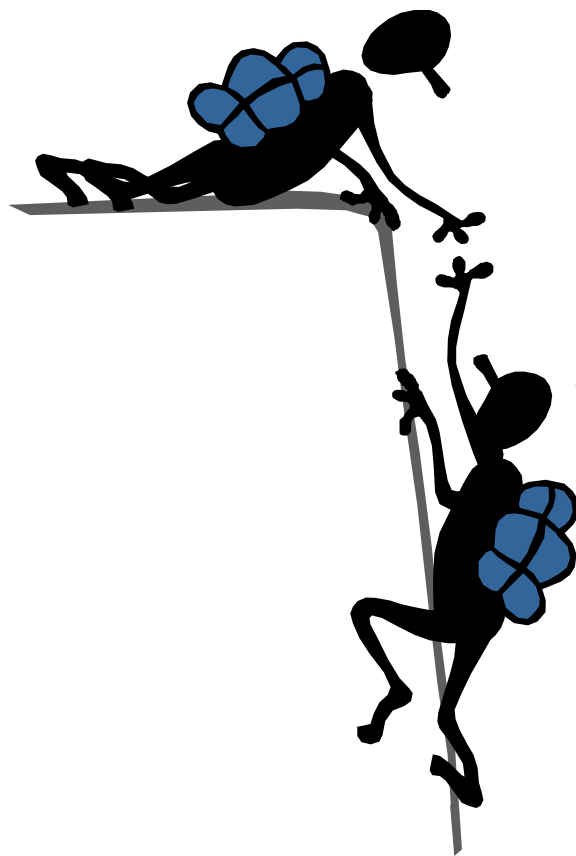


Harmonised standards and spectrum regulations



*How can
ETSI help?*

The regulatory environment in the European Union

World Class Standards

What is ETSI?

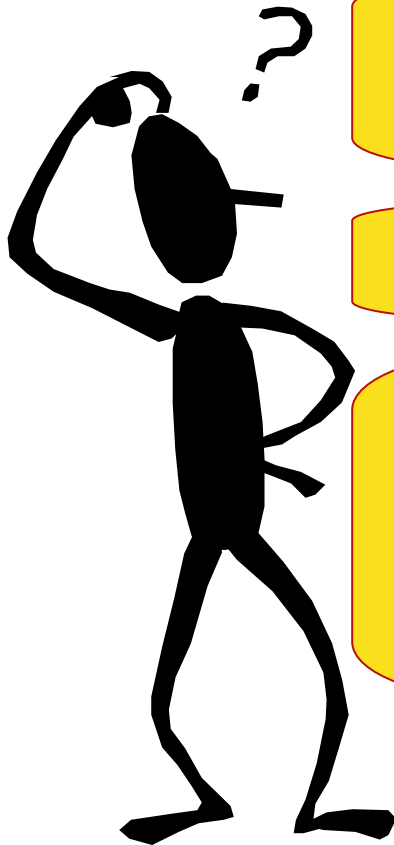
European Telecommunications
Standards Institute

European Standards
Organisation (98/34/EC)

Association of Industry players...

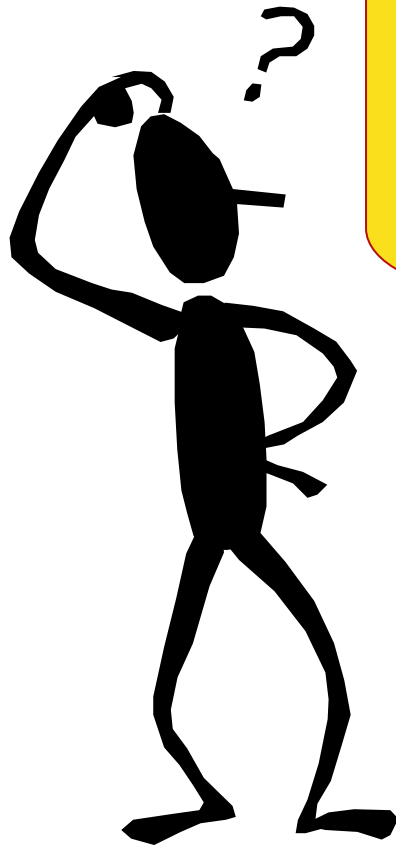
...manufacturers, network
operators, service providers,
administrations, users,
industry associations...

... with direct participation

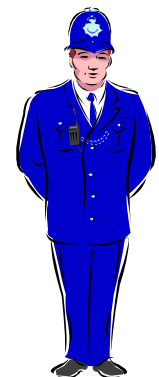


World Class Standards

Directives & regulations (equipment)



Radio &
Telecommunications
Terminal Equipment
Directive (1999/5/EC)





What does a manufacturer need to do?

Meet the “essential requirements”

- health & safety
- electromagnetic compatibility
- avoidance of harmful interference (radio equipment only)
- possibly others, if invoked by the Commission

Declare
conformity



Carry out « essential radio
test suites »

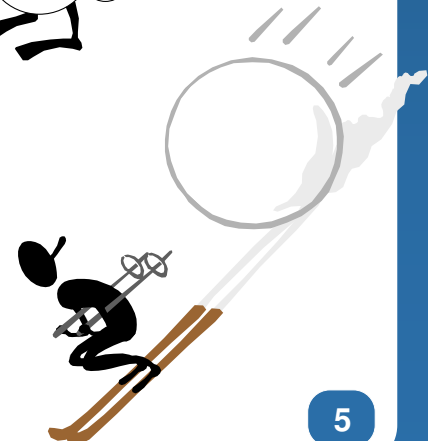
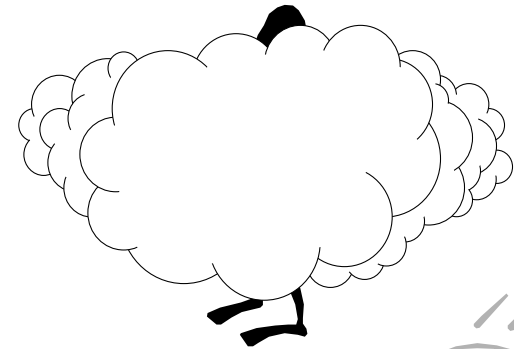
Meet national radio
interface regulations

Inform member state (if using
non-harmonised radio spectrum)



□ Access to emergency services (3.3e)

- Ships using inland waterways
(EC Decision 2000/637/EC)
- Marine distress & safety equipment
(EC Decision 2004/71/EC)
- Marine Identification System
(EC Decision 2005/53/EC)
- COSPAS-SARSAT locator beacons
(EC Decision 2005/631/EC)
- Avalanche beacons
(EC Decision 2001/148/EC)



World Class Standards

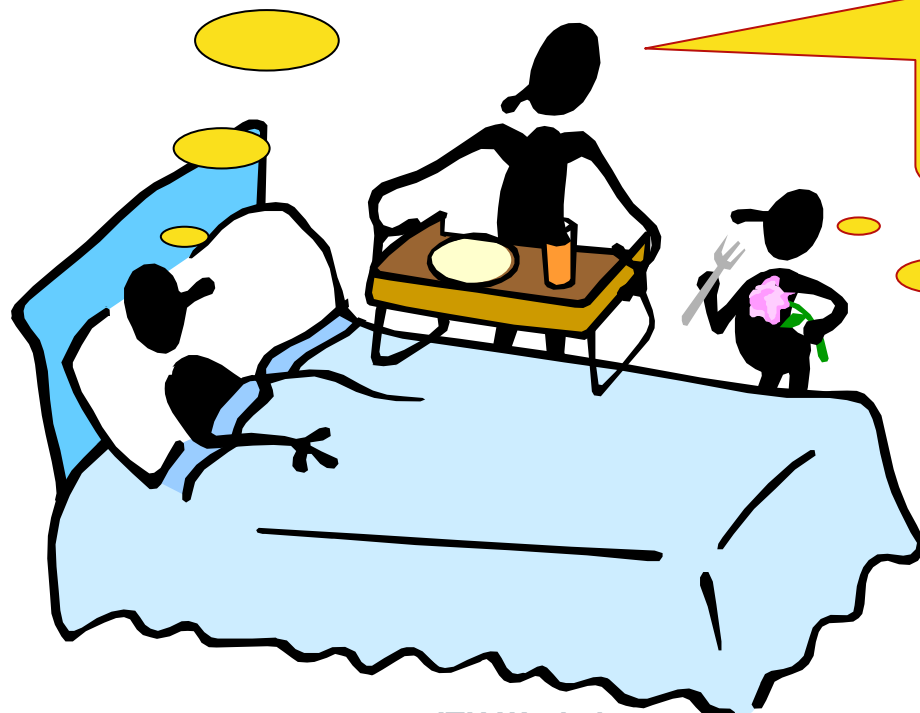
How can ETSI help

How do I meet
essential
requirements?

Are there any
others?

**Harmonised
Standards**

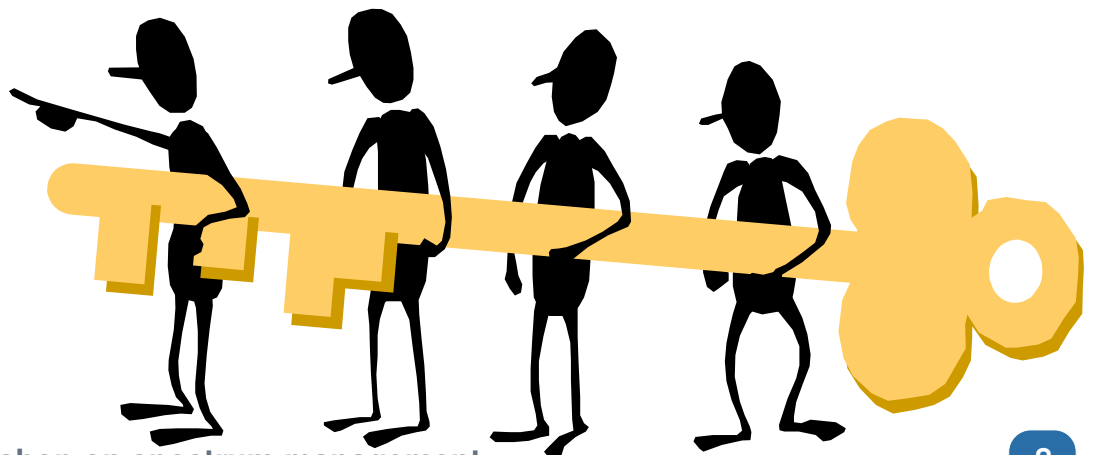
**Harmonized
Standards??**

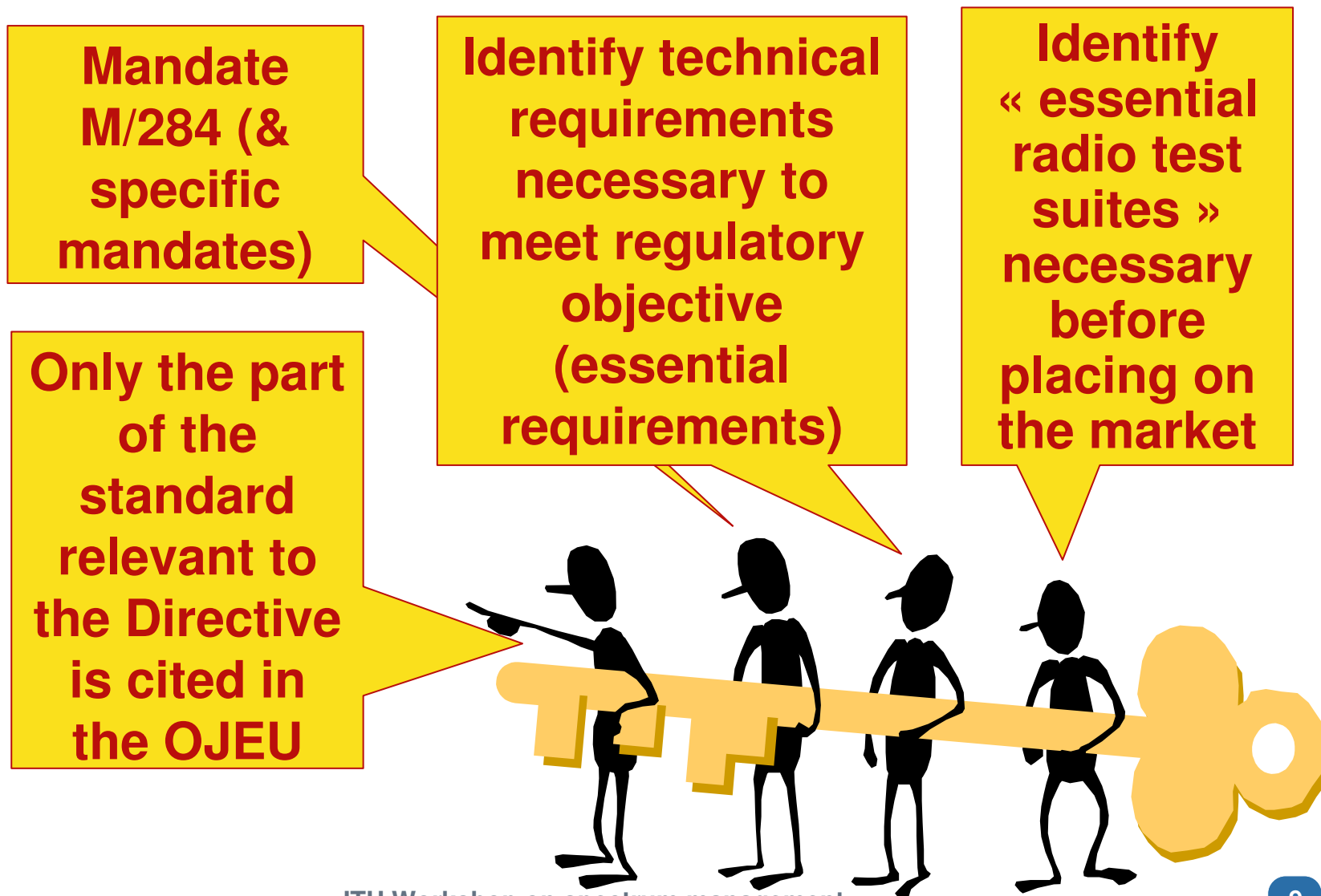


Where apparatus meets the relevant harmonised standards or parts thereof whose reference numbers have been published in the Official Journal of the European Communities, Member States shall presume compliance with those of the essential requirements referred to in Article 3 as are covered by the said harmonised standards or parts thereof. [Article 5.1]



- ☐ European Standards (EN)
- ☐ Produced under a mandate from the European Commission
 - And adopted by Member States (98/34 committee)
- ☐ Implement essential requirements of a
« New Approach » Directive (e.g. R&TTE, EMC)
- ☐ Adopted by National Standards Organisations
- ☐ Cited in the Official Journal of the European Union
- ☐ Member states
required to
presume
conformity





MSG: GSM
DECT: DECT
TETRA: TETRA

ERM/MSG
TFES:
IMT-2000

BRAN:
HIPERACCESS,
5 GHz RLAN

ERM:
2,45 GHz RLAN

TM4: Fixed Radio Links

SES: Satellite Earth Stations

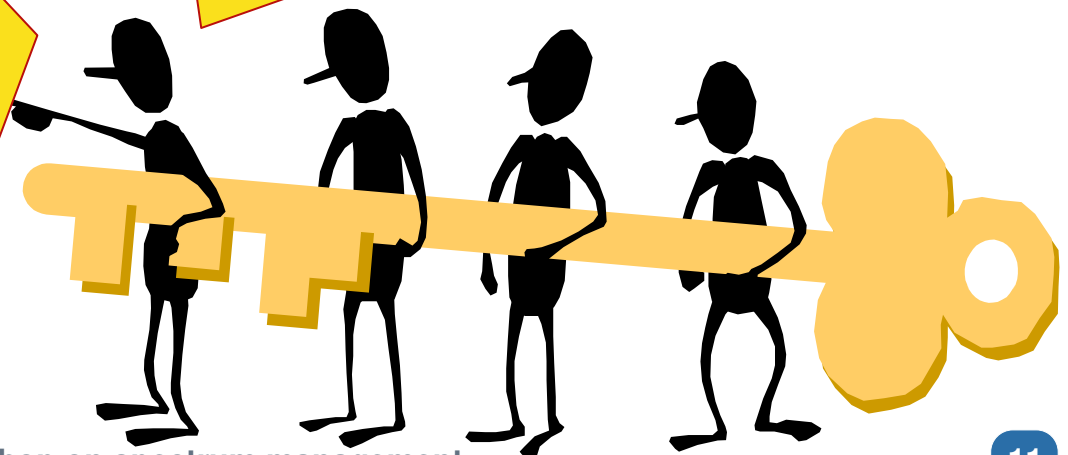
ERM:
Short range devices; Land-mobile
radio, Amateur Radio, Citizens'
Band



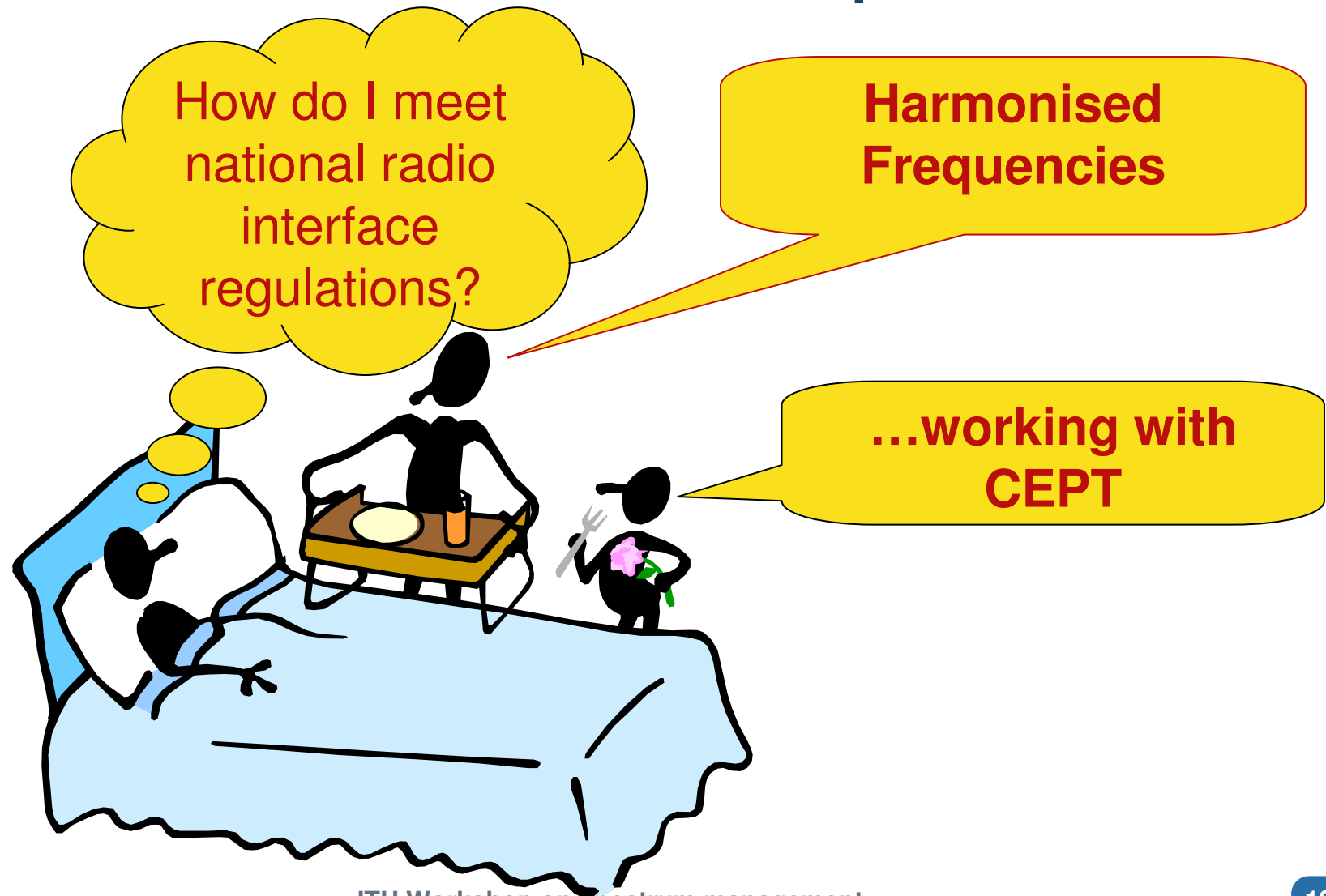
World Class Standards Harmonised Standards

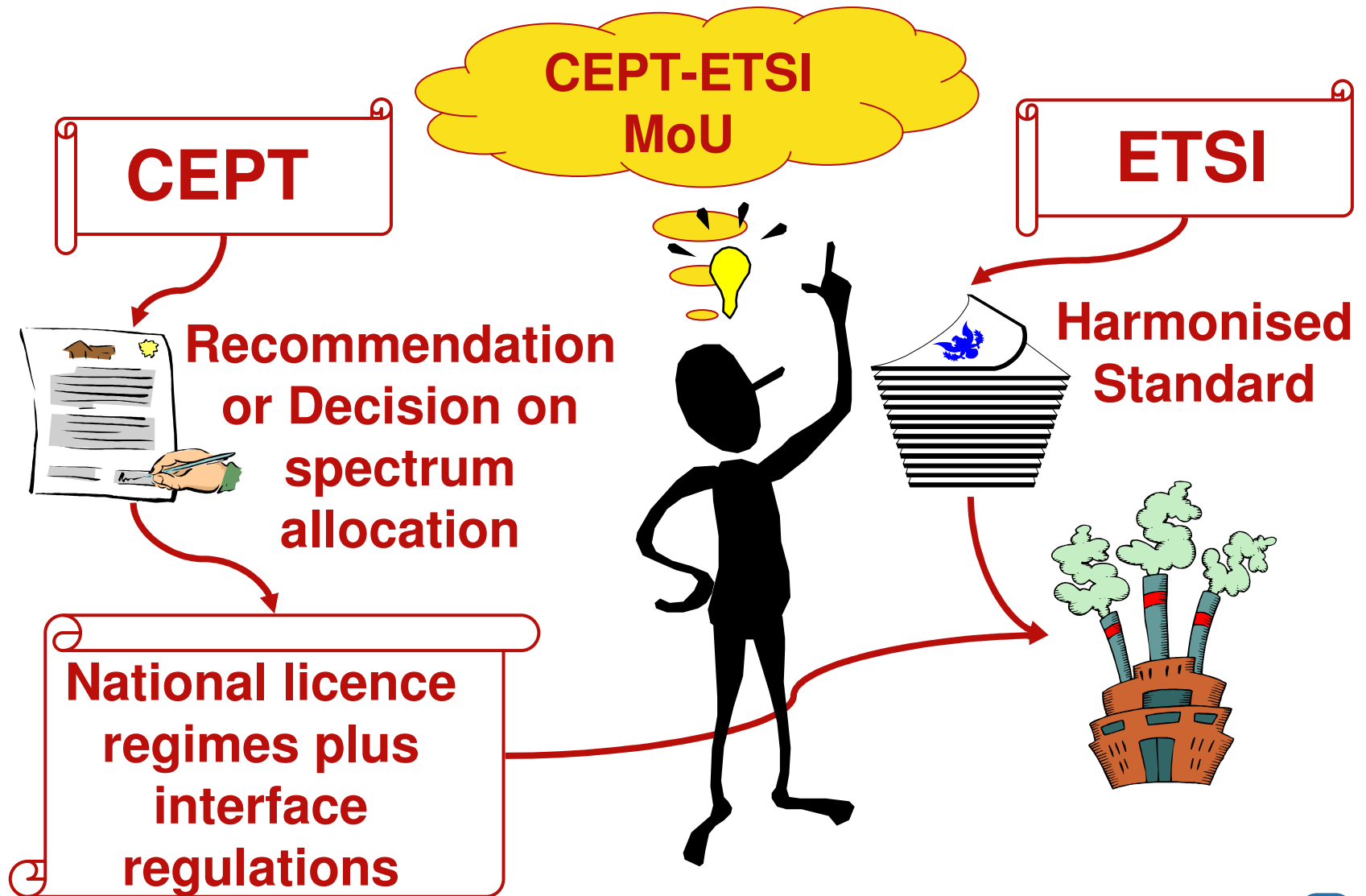
ERM:
Marine radio,
Short-range
devices (ERM
TG28),
Paging,
Cordless
telephones,
Radar,
Medical Implants,
Road Transport &
Traffic Telematics

ERM:
Electromagnetic Compatibility,
Meteorological Aids,
Avalanche Beacons,
Ultra Wide Band (ERM TG31a),
Broadcast transmitters,
professional audio/video



How can ETSI help?

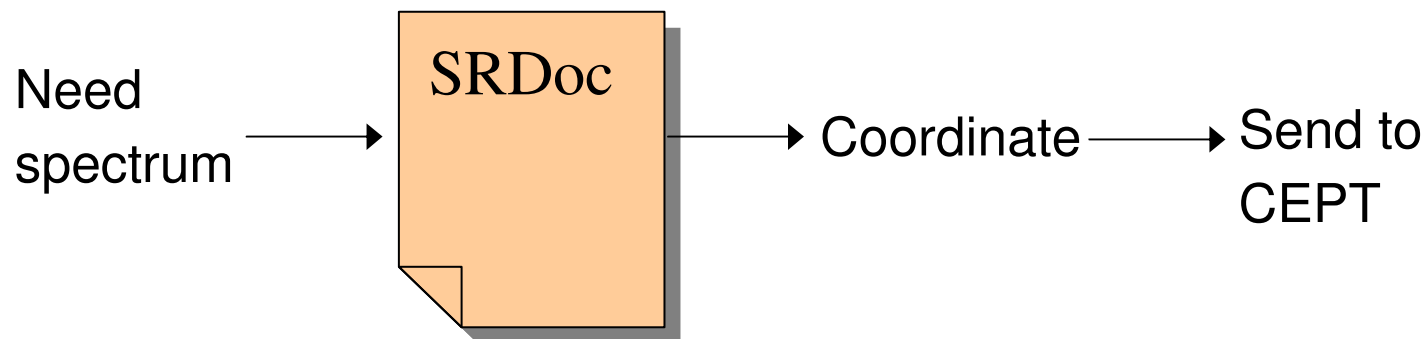




ETSI ERM RM: Coordinating ETSI positions on radio spectrum matters

- ❑ Coordinates and supports the needs and interests of the entire ETSI membership on radio spectrum matters
- ❑ ETSI members with a need for spectrum prepare a 'System Reference Document' and submit it to ERM RM for coordination

- Format agreed with CEPT
- Can include divergent views
- Gives complete picture



SRDoc

❑ Contains information to help understanding the products and supports discussions with regulators:

Technical parameters

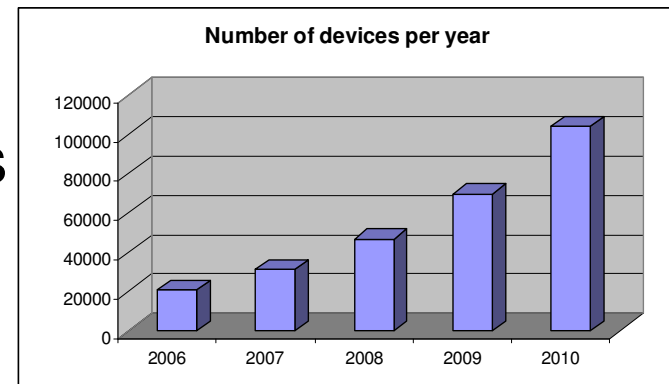
Frequency range [MHz]	Power limit values for unwanted emission (e.r.p.) [dBm/MHz]
< 870	- 85 (-95 dBm/100kHz)
> 870 - 1600	-65.3
1600 – 2200	-61.3
8000 – 9600	-70
> 9600	- 85

Applications



Number of devices

Sharing issues



Keeping an overview of spectrum: the information

❑ Frequency focused view: what is happening in a particular frequency band (e.g. xx MHz)

- Document RM Activities and Coordination Chart

Frequency band	application	ETSI System Reference Document	CEPT Compatibility study and ECC/DEC or REC	ETSI standards
----------------	-------------	--------------------------------------	---------------------------------------------------	-------------------

- OCG supported the ERM-originated idea to add flags to work items for frequency and EFIS category
- The coordination workload with CEPT and EC could be lightened through better structure of the information (e.g. usage of more database).

❑ Conceptual view: evolution of the foundations (e.g. more flexibility)

TC ERM – Where next?

☐ TC ERM continues to:

- incubate new radio project activities with significant growth potential
- support and facilitate ETSI members needs regarding radio spectrum matters and EMC

Chairman's contact details:

Gabrielle Owen

Chairman TC ERM

+31 50 587 7329

gabrielle.owen@at-ez.nl

World Class Standards

How can ETSI help?



The problem... World Class Standards

Frequencies are managed on a national basis: CEPT Recommendations not enforceable at a European level

Manufacturer needs to know local frequency regulations

Inform member state 4 weeks before marketing equipment

Inform user of national restrictions on use



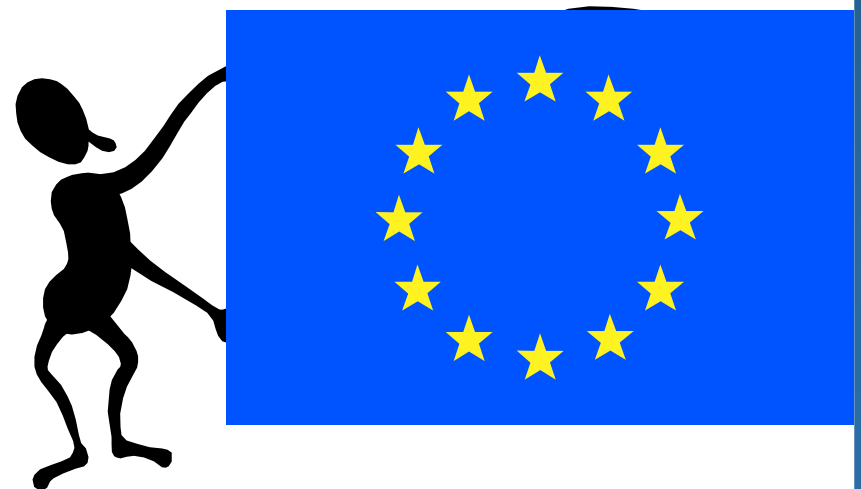
World Class Standards The Radio Spectrum Decision

Radio Spectrum Policy Group

Member states advise
EC on spectrum
requirements to support
EU policy initiatives

e.g. Spectrum trading;
switchover to digital TV;
Wireless Access Policy for
Electronic Communication
Systems (WAPECS)

European Parliament,
CEPT and ETSI as
permanent observers



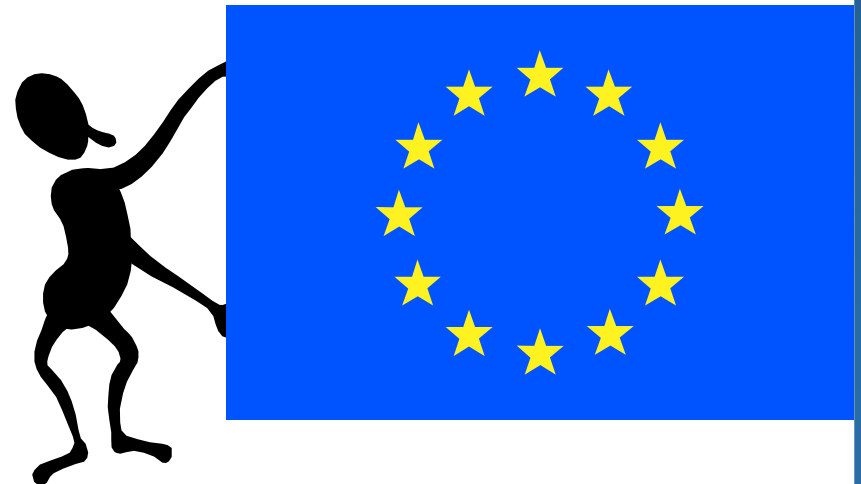
Radio Spectrum Committee

European Commission requests CEPT to provide frequency allocations in support of EU policies

CEPT output codified into a Commission Decision

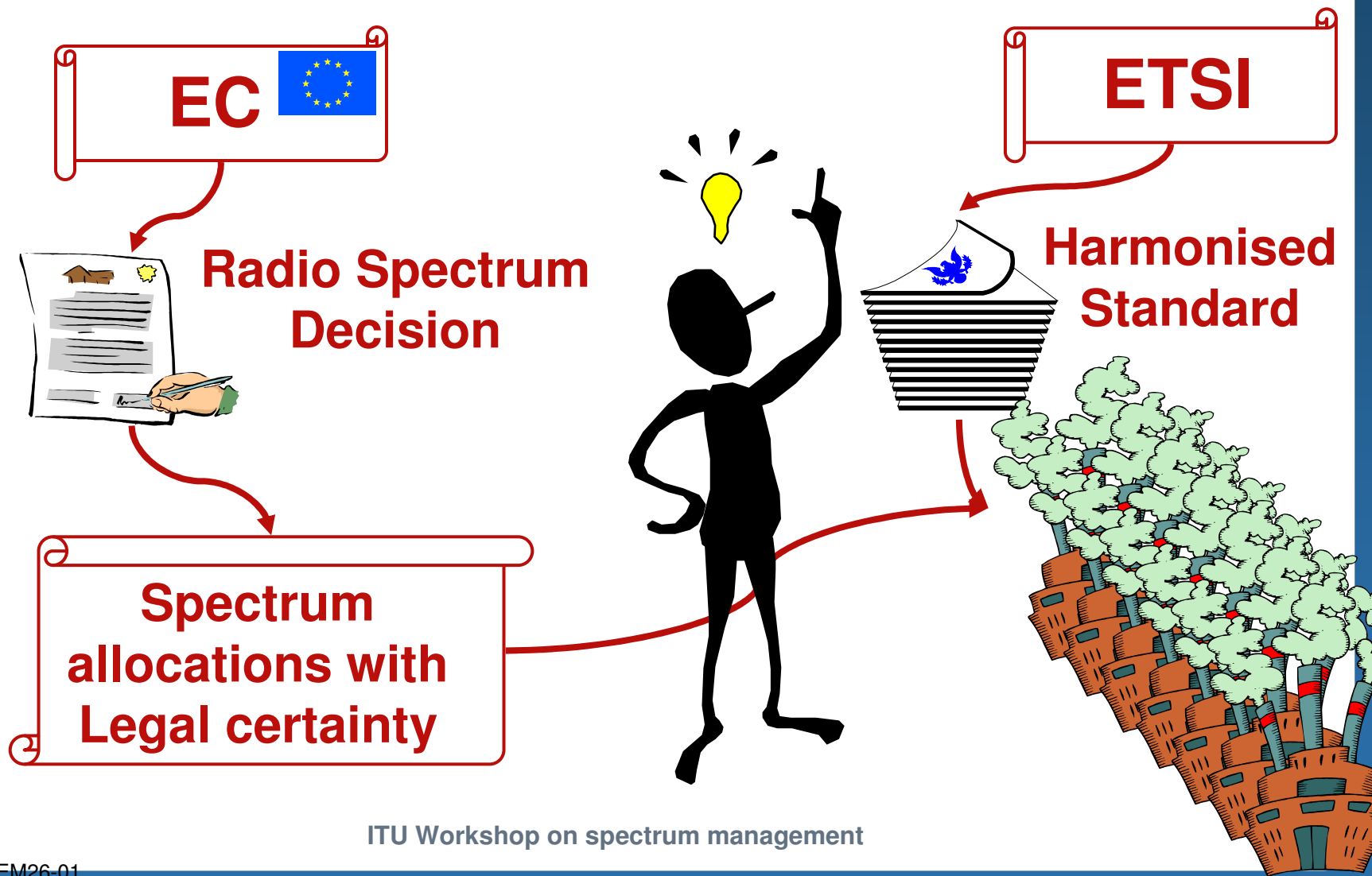
Legal certainty !

CEPT and ETSI are permanent observers





World Class Standards Harmonised Standards and Commission Spectrum Decisions



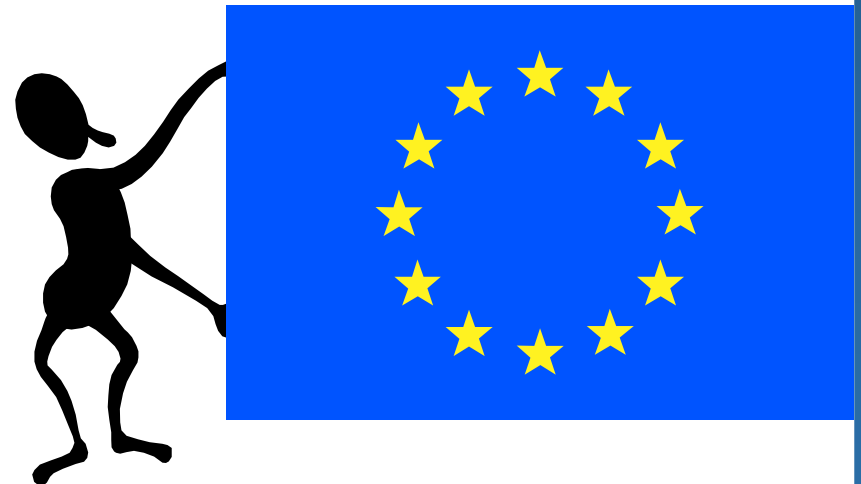
ITU Workshop on spectrum management

International Negotiations World Radio Conference (WRC)

CEPT will continue to establish European
Common Positions

Commission to communicate with
Parliament & Council
for political support

Aim for global
harmonisation
where possible





World Class Standards

ITU – ETSI Co-operation: general provisions

ITU SGs; WPs

Director General is responsible for the promotion of general ETSI policies and for submitting ETSI material of a general nature to the ITU

Where an *EN (ES)* exists, or the General Assembly has adopted a common position on a matter of strategic importance, ETSI has taken a formal and definitive position which members shall support in the ITU (in so far as such support is compatible with their obligations under European or national law).

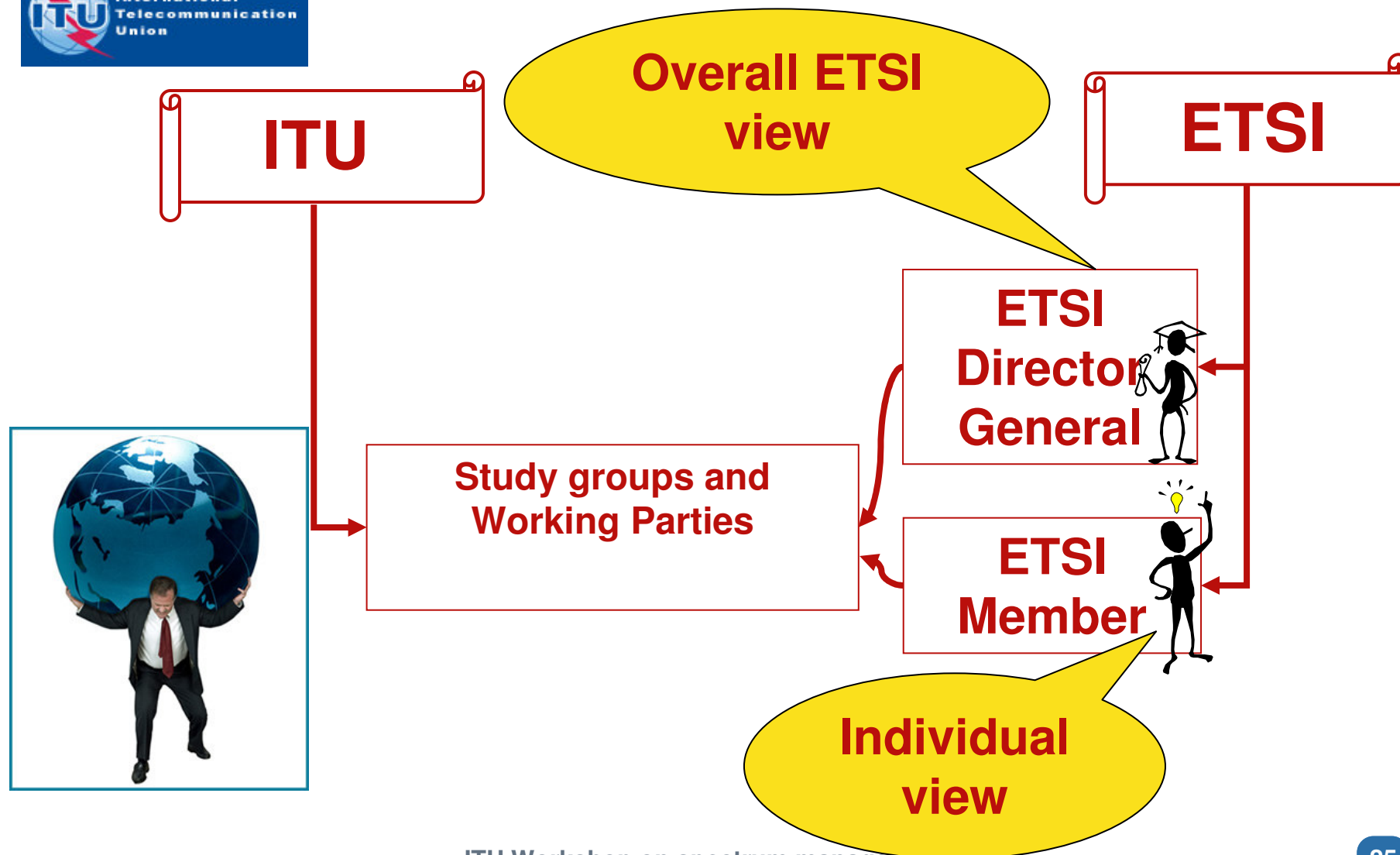
***Technical Body* may approve, and submit, a common contribution to the ITU. ETSI members are encouraged, but not formally obliged, to support the contribution in the ITU.**





World Class Standards

ITU - ETSI Co-operation



ITU Workshop on spectrum management

How can I contribute?

- ☐ Membership of ETSI is open to any organisation with an interest in telecommunications (European or not)
- ☐ Harmonised Standards produced by Technical Committees of experts drawn from members
- ☐ Funded Specialist Task Forces to accelerate critical work
- ☐ Public Approval Process managed by National Standards Organisations



Keeping up to date

- ❑ <http://portal.etsi.org/radio>
- ❑ <http://www.etsi.org/europe/public-interest>
- ❑ <http://portal.etsi.org>
 - RTTE
 - Spectrum
 - Others...
- ❑ <http://portal.etsi.org/ocg>
 - R&TTE Steering Committee
- ❑ <http://www.newapproach.org>
- ❑ <http://www.europa.eu.int>

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Any questions?