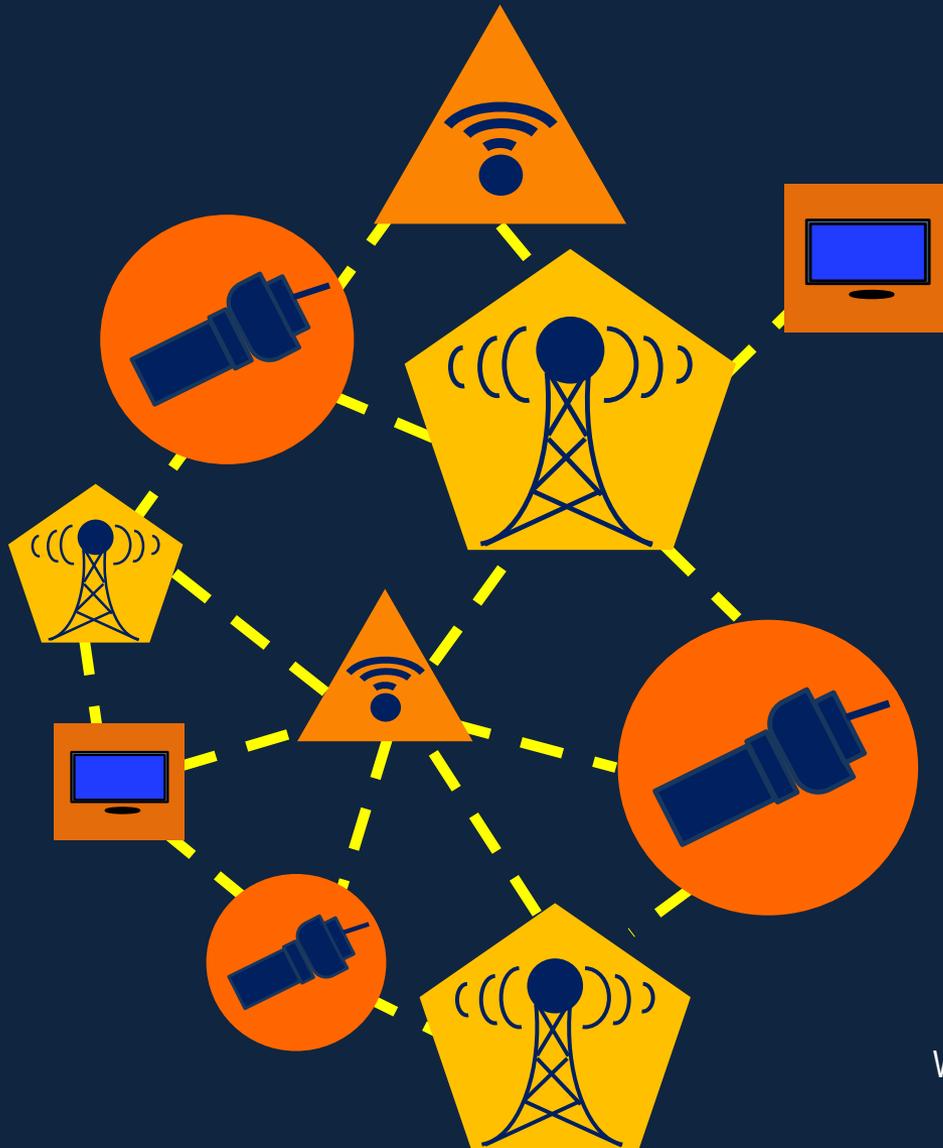




Cable Europe



Radio and non-radio services **coexistence**

A wise and balanced approach

Paulo Valente

Workshop 700 MHz - DG Enterprise and Industry & DG Connect

12th December 2014

Two reasons to justify this workshop

	Digital Dividend I - 800 MHz	Digital Dividend II - 700 MHz
EU allocation ongoing process		
Spectrum allocation by member states	almost concluded	in preparation
MNOs deployment	ongoing	not started yet
Standards compliance	concluded	no updates needed
		
	Reason 1	Reason 2
	Lessons learned from the past process	Need to avoid same mistakes

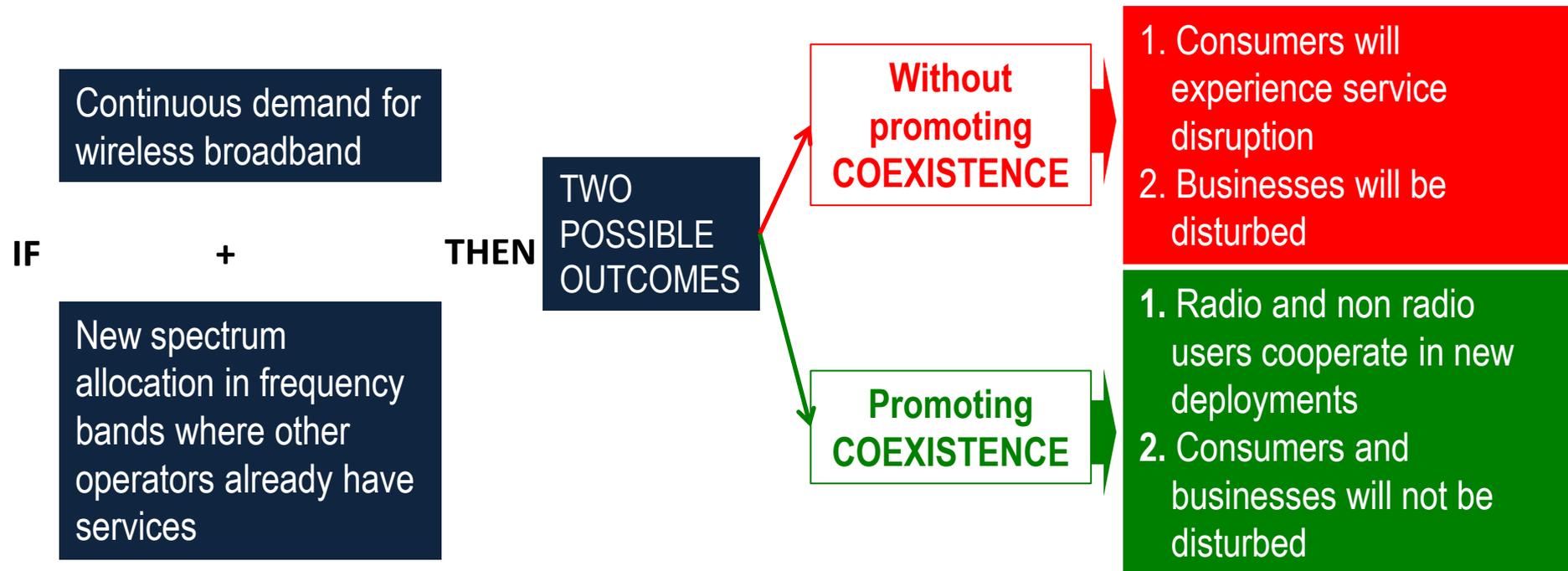
And also because Coexistence* presents serious **challenges** to the UHF band use

***To live or exist together at the same time or in the same place**

in Oxford English Essential Dictionary, second edition.

What is the problem we're all facing?

- ▶ European Union member states are **allocating more spectrum** for mobile broadband usage.
- ▶ These frequencies were initially used by other stakeholders **for radio and non radio services which coexisted.**
- ▶ This new allocation requires a **complex process** that **enables coexistence** between existing and new users.



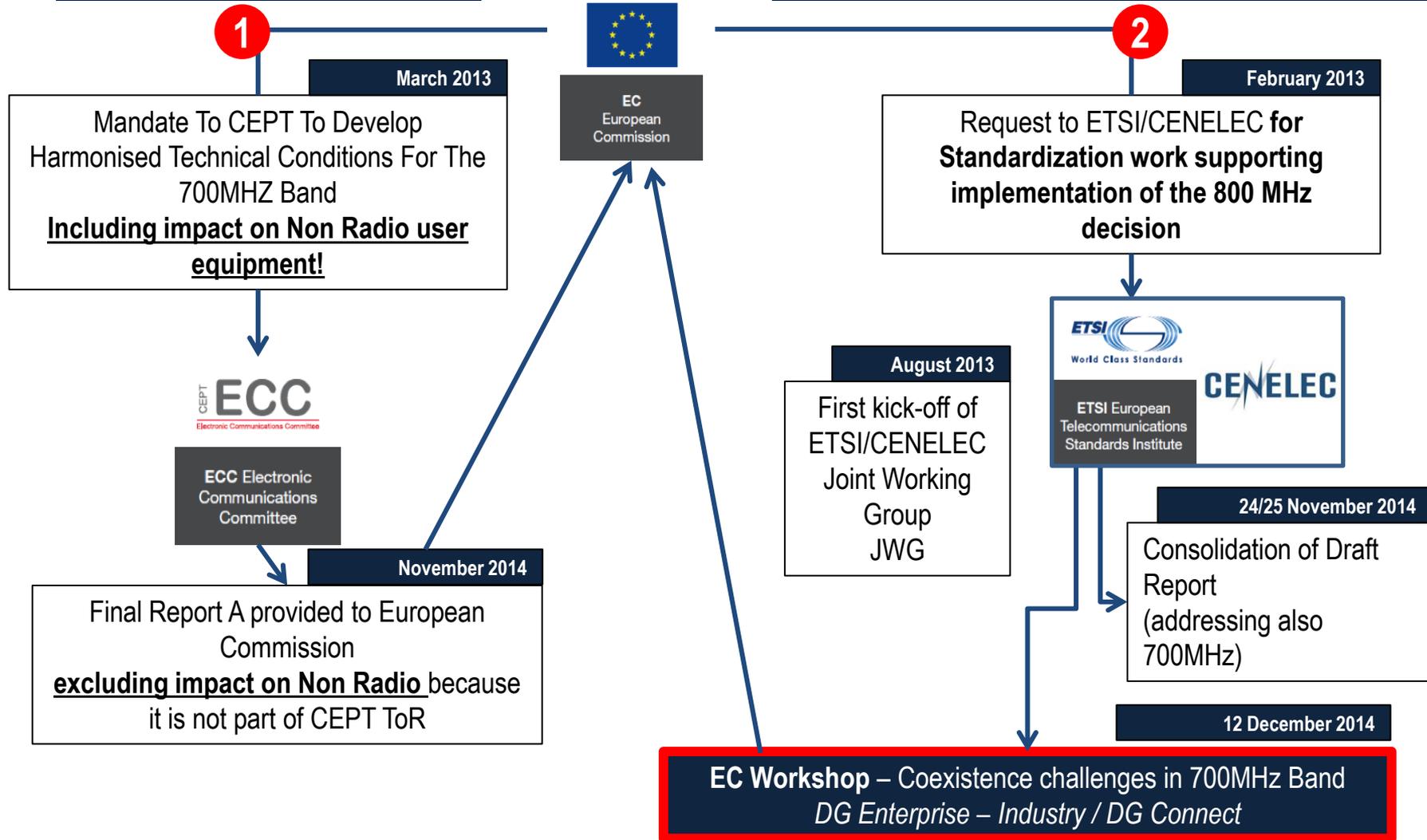
Where do we stand today?

2013

2014

EC Mandate for harmonized conditions for the 700 MHz

EC request to ETSI/CENELEC – Standardization supporting 800 MHz implementation



Where do we stand today?

2013



EC
European
Commission

Telecom Single Market proposal – specific chapter covering spectrum

2014



AM 120 – “To this end, they [*state members*] shall conduct a comprehensive impact assessment as well as consultations, which both shall involve all stakeholders.”

European Parliament amendments proposal approved in May 2014

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The way to solve the problem...

With the experience from the previous process we concluded there are two possible solutions:

- 1. Repeat the same process as it was done in the 800 MHz and correcting only after consumers and businesses are impacted by the problem**



2.

2. Learning from the previous process and promote coexistence with several proactive mitigation measures

Conduct comprehensive **impact assessments considering possible interference issues for radio and non-radio equipment**

Present policy recommendations to **pro-actively take mitigation measures and define clear responsibility between stakeholders**

Provide and reinforce **legal protection to all services and equipments that have been deployed in full compliance with European law**. More than updating standards, we are talking about **collaboration of existing standards**.

Examples of mitigating solutions with significant impact

- End-to-end programmed roll out plans shared with stakeholders
- Aim for a realistic transmit power, not only maximum transmit power
- Reasonable “link budget” in mobile networks
- Collect and implement end-to-end best practices of countries where interference was experienced
- Regulation CE marking in home wiring (eg. Fly lead)
- Educational campaigns to explain transition and possible impacts

All the mitigation measures have to be technology neutral

We believe our contributions can promote a Digital Single Market where all stakeholders will benefit from a level playing field enhancing innovation and new technologies.