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5G: Telefónica's position

BEREC/IIC Conference, Riga



The 5G new opportunity requires standards, spectrum, pro-investment policies, use cases, devices and a trustworthy approach

TRUST & ENVIRONMENT

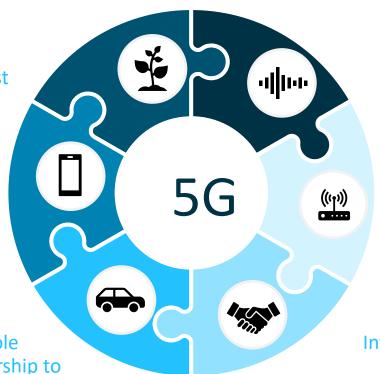
Setting energy friendly standards and deployments and overcoming health & trust concerns, for a totally networked society

5 DEVICES

Devices availability in the spectrum band used is mandatory before wide and broad 5G commercial launch

4 USE CASES

Industry involvement in promoting the whole ecosystem: innovation, openness & partnership to develop new digital business models and sources of revenues that are essential to make 5G a success



RADIO STANDARDS 1

To scale and be efficient, 5G requires a global standardisation process that is still ongoing. 4G technology will coexist in a dual connectivity 5G-LTE approach

SPECTRUM 2

An essential scarce resource needed at the right time, in fair conditions & price, for more capacity and to wirelessly connect people & devices for a vast number of services

INVEST & DEPLOYMENT POLICIES 3

Investment friendly regulation, fibre "backhaul" availability and a deployment permits responsive approach

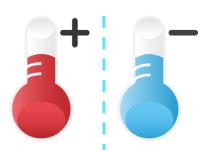




Making the right regulatory choices will be critical for 5G

POTENTIAL MEASURES CONDUCIVE TO INVESTMENT

- Facilitating network sharing agreements, including for coverage obligations and mobile backhaul
- Easing and promoting small cells deployment
- Fostering fibre deployment to connect Mobile base stations & small cells
- Spectrum licenses duration
 extention in addition to pay when
 available and reasonable coverage
 obligations



POTENTIAL MEASURES DETRACTING INVESTMENT

- Inflated spectrum prices
- Spectrum fragmentation through reservations for verticals
- Artificially promoting competition:
 - Reduced coverage obligations for new entrants
 - Mandatory national roaming obligations



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