



The positive impact of technology and service neutrality

Eur Ing Laurent Bodusseau BEng(Hons) CEng MIET
Senior Spectrum Director – GSMA



Definition

Technology neutrality: any available technology to date can be employed to provide a given service in the used frequency band

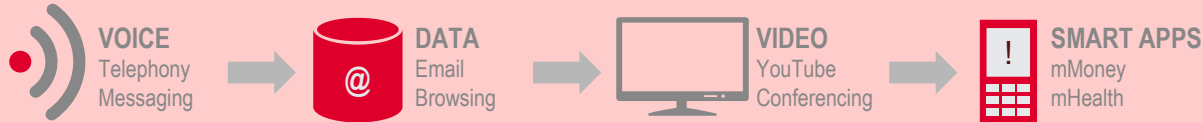
Service neutrality: any service can be offered in the frequency band of interest



4G is built on technology neutrality and refarming



...LEADING TO THE PROGRESSION OF MOBILE SERVICES



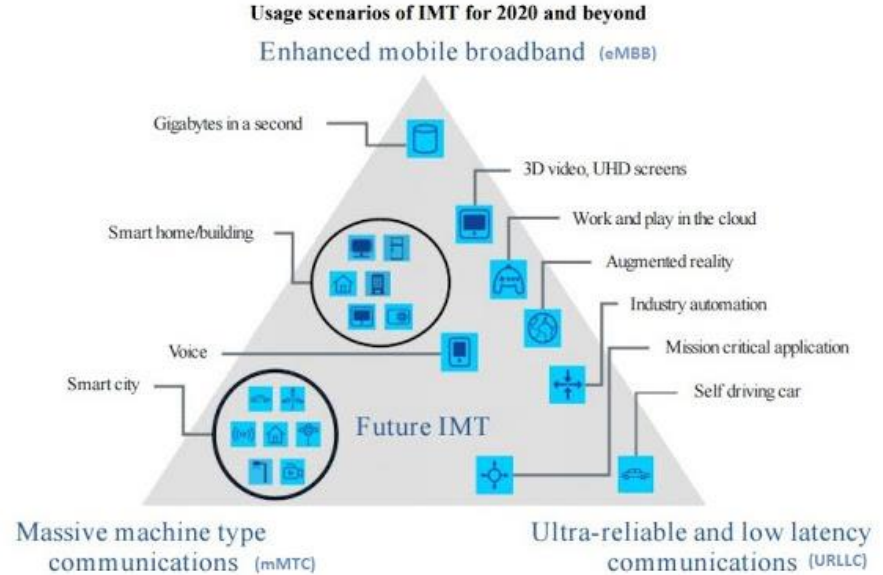


Technology

- For control of interference, spectrum efficiency and other reasons, licences include technical and operational restrictions on the conditions of use of spectrum within the scope of the licence : these conditions of use as broadly as possible, with a view to ensuring technological neutrality and flexibility in future use of the spectrum.
- Without technology neutrality we would need to carry out technical studies for every change request
 - Change is user density
 - Receiver parameters

Service

- Voice
- Data
- Telemetry
- Telecommand
- PMR
- Video ...



- On a mobile network all of these are data



Conclusions

- Spectrum licences should be technology and service neutral.
 - Enables spectrum to be used efficiently by mobile operators rather than being tied to declining technologies and services.
 - Avoid high charges and complexity for change of use
 - Encourage innovation
 - They allow bands which are used for existing mobile technologies to be easily re-farmed thus ensuring spectrum is used most efficiently
 - Without it we could be delaying the benefits of new technologies
 - Improve the network quality / service quality
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