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ITU Workshop on Spectrum Management for Internet of Things Deployment (Geneva, 22 November 2016)

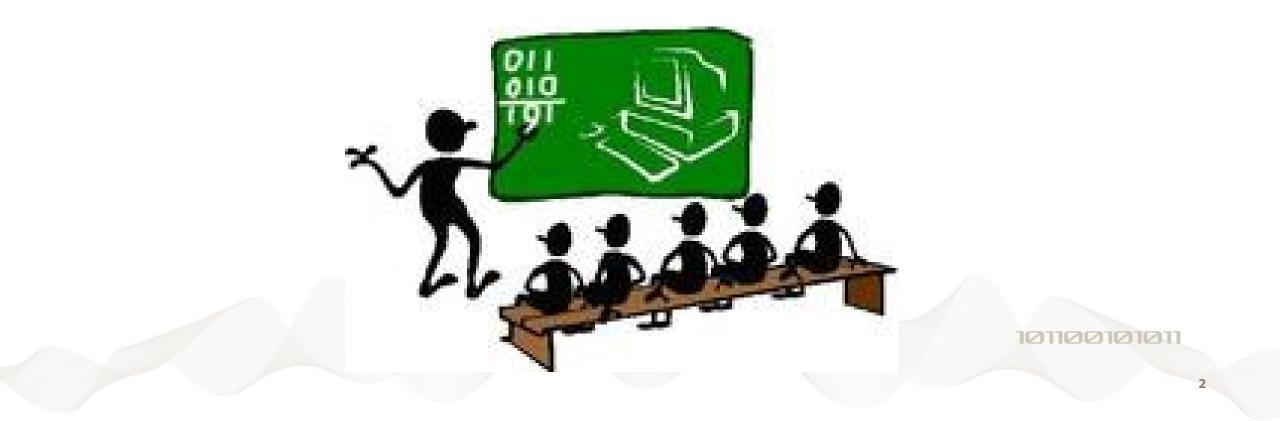
CEPT activities on Spectrum Management for M2M/IoT applications

Mr Stephen Talbot

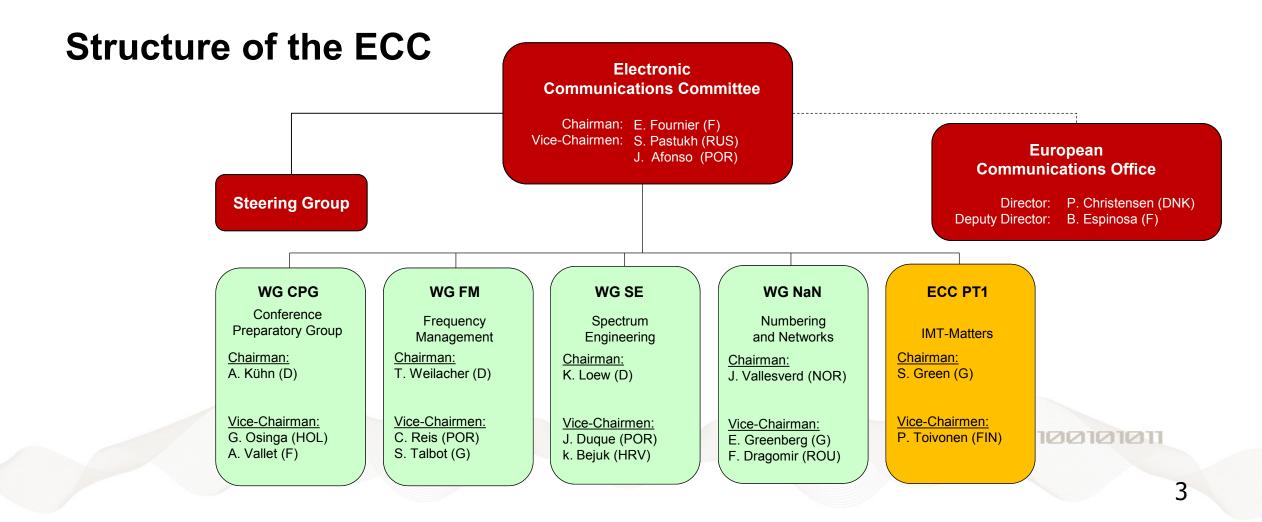
Vice Chairman of ECC Working Group Frequency Management



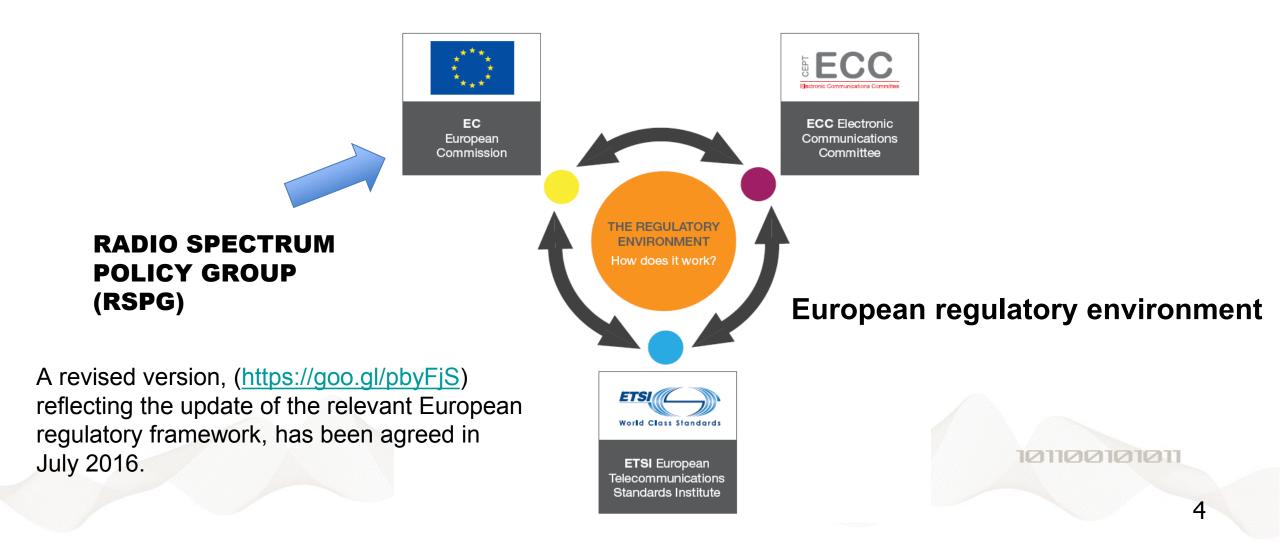
...but this a P2P (person 2 persons) presentation....













Current ECC views on M2M:

- "In principle, M2M communications could be realised in any mobile band"
- ".....but also other radio applications may be suitable for some scenarios, e.g. Short Range Devices or even PMR."
- "There does not seem to be a strong case for the specific designation of specific frequency bands for M2M,no single frequency band defines M2M (i.e. no single frequency band should be viewed in isolation) per se..."



But that doesn't mean CEPT is not doing anything;

- ECC PT1 Work Item MFCN framework for M2M (PT1_SWG_C_18)
- ECC Working Group FM
 - > Meeting #85 (May 2016) admins to review regulatory environment
 - > Meeting #86 (Oct 2016) SRD/MG important to be tech. neutral
 - Reviewing ITS at 5.9 GHz

ECC PT1 WRC-19 issue 9.1.8 (Narrow/Wideband machine comms)



Activities with an M2M flavour;

- PT1: 700 MHz, 200 kHz to 3 MHz, ECC Rpt 242 noted in ECC/DEC(15)01
- ECC Working Group FM;
 - > LTE in the band 450-470 MHz (and possibly in 410-430 MHz) PT54
 - > LTE studies (via FM54/SE7) potentially take into account NB-IoT
 - **SRD/MG** usage in 870-876/915-921 MHz: authorisation types
 - SRD/MG ECC Rpt. 189 & Addendum to CEPT Rpt 59 (EC SRD Dec)
 - Correspondence M2M via satellite <u>https://goo.gl/2voqCN</u>



ECC Numbering Activities;

- ECC published ECC Report 153 November 2010
- Core conclusions;
 - > Expected annual growth rate of M2M numbers 20% (to 2020), but...
 - > Rough estimate, actual figure may differ significantly
 - > Number of CEPT countries do not have sufficient capacity, but...
 - Harmonised approach on M2M numbering, not needed in Europe



On going ECC activities:

- Recognition of M2M usage in GSM
- Potentials for bands?: 870-876 & 915-921 MHz, 1900-1920 MHz, 5 GHz RLAN
 - > 870-876 & 915-921 MHz 1900-1920 MHz, 5 GHz Wi-Fi and others.
 - Keep reviewing existing harmonisation measures in ECC
- However must continue to come from technology neutral perspective
- Current CEPT view on WRC-19 9.1.8, under development





Thanks ...