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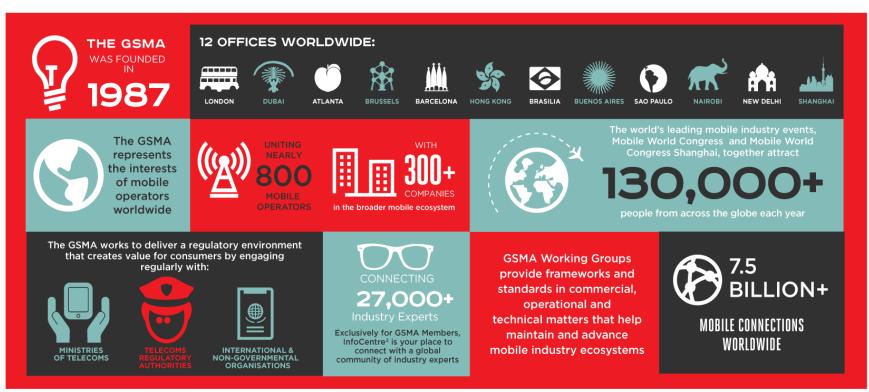


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BEREC Workshop on "Enabling the Internet of Things" Panel 3 – Scarce resources – Stefano Nicoletti GSMA IoT regulation expert Brussels, 1st February 2017



About GSMA



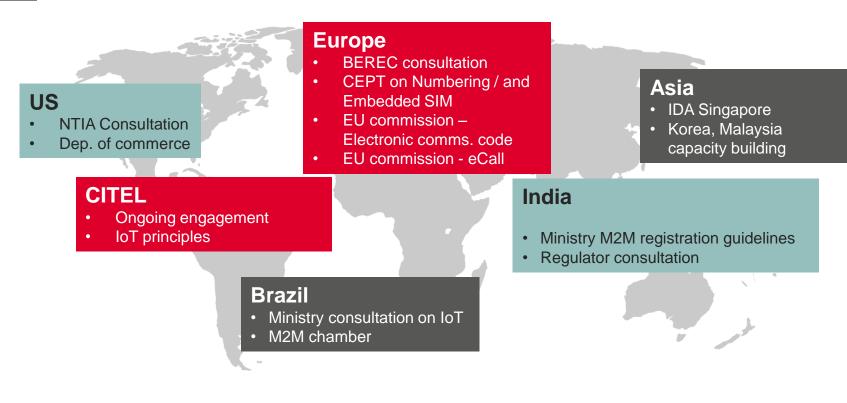


GSMA Connected Living main initiatives

Mobile loT Accelerate availability of LPWA solutions in licensed spectrum (EC- GSM-IoT, LTE M, NB- loT)	Remote SIM provisioningDefinitionImplement a single, robust and interoperable global remote SIM specification 	IoT Big Data Establish harmonised data sets to simplify the development and encourage growth of IoT big data solutions
IOT Security Help IoT Ecosystem providers to protect themselves from cybersecurity threats	Industry engagement Drive adoption in Smart cities, health and automotive	IoT Business Enablers Enable operators to capture the Internet of Things opportunity, by fostering relevant, flexible and technology-neutral policies and regulation

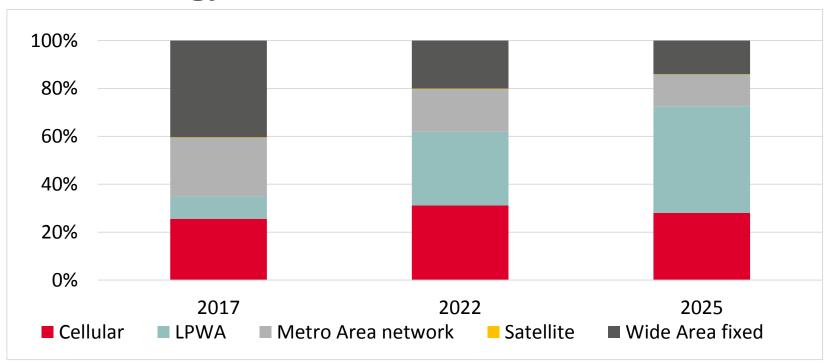


IOT has a global dimension: GSMA engagements





Wide Area IoT by network connectivity technology in EU 28 - Forecasts



BEREC's "Enabling the IoT" consultation

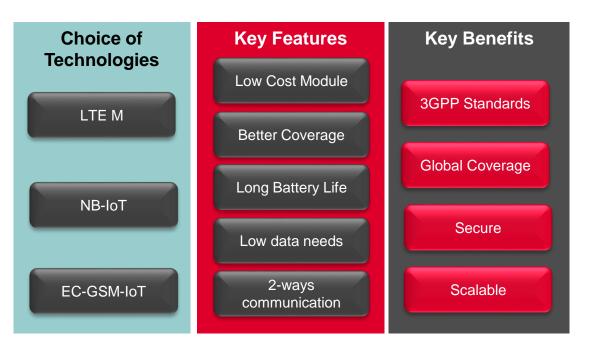
BEREC recognizes fundamental differences between IoT and traditional telco

 Numbering 	\rightarrow	Flexibility: global & extra-territorial resources are key
 Roaming 	\rightarrow	Viable model supporting IoT growth
 Switching 	\rightarrow	Takes into account specific IoT context
 Privacy 	→	Promote consistent approach across IoT players

- Numbering
- 1. EU specific numbers for IoT: Remember M2M/IoT is global
- 2. MNC policy: assigning MNCs to non-telco presents many complexities,
 - GSMA remote SIM provisioning offers same advantages



Mobile IoT : 3GPP standard technology for LPWA





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23 Mobile IoT Pilot → Showcases at MWC 2017 → Already commercially available



Spectrum for IoT – four key points

- 1. Licensed spectrum: higher QoS and long term investment
- 2. Adopt service/technology neutral frameworks
- 3. Current and future mobile licensed bands can be employed to support IoT as well as personal mobile services
- 4. Promote international **spectrum harmonisation.** This is vital for a global, affordable cellular IoT market



Chank you !

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Remote SIM Provisioning for IoT

REMOTE SIM PROVISIONING FOR M2M READY FOR COMMERCIAL DEPLOYMENT

- Technical specification v3.1 released in May 2016.
- Compliance specification released in May 2016.
- Compliance program with GlobalPlatform launched in June 2016.
- Secure Accreditation Scheme specification available
- ✤ eUICC Protection Profile available an approved by BSI

GSMA PROVIDES TOOLS AND SUPPORT TO ENSURE INTEROPERABILITY AND CONFIDENCE TO THE ECOSYSTEM

- Embedded SIM Portability Proof of Concept and Business processes.
- Embedded SIM Compliance Scheme

