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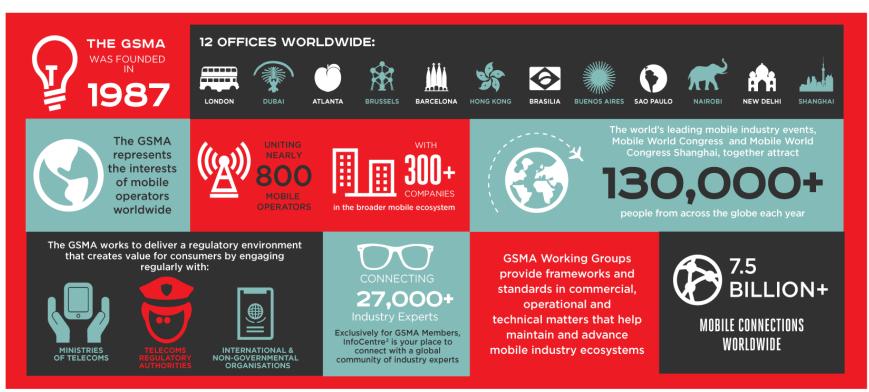


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BEREC Workshop on "Enabling the Internet of Things" Panel 3 – Scarce resources – Stefano Nicoletti GSMA IoT regulation expert Brussels, 1<sup>st</sup> February 2017



### **About GSMA**



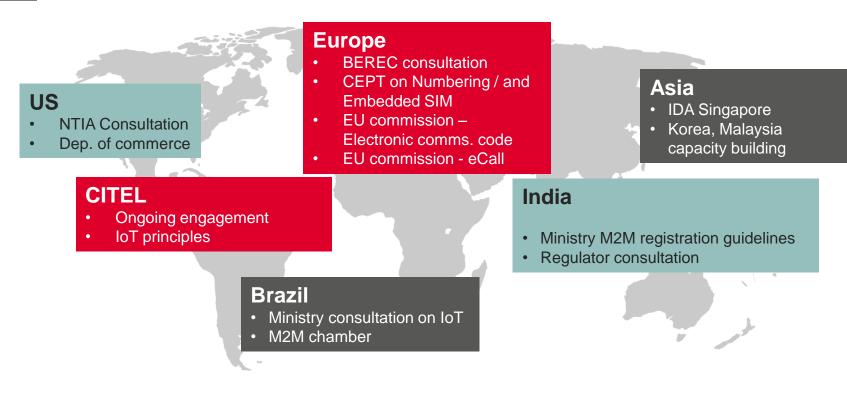


### **GSMA** Connected Living main initiatives

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
<b>IOT Security</b> Help IoT Ecosystem providers to protect themselves from cybersecurity threats	<b>Industry</b> <b>engagement</b> Drive adoption in Smart cities, health and automotive	<b>IoT Business Enablers</b> Enable operators to capture the Internet of Things opportunity, by fostering relevant, flexible and technology-neutral policies and regulation

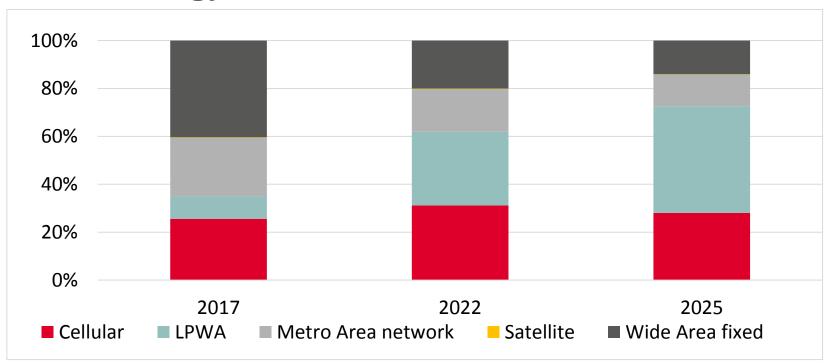


### IOT has a global dimension: GSMA engagements





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



### BEREC's "Enabling the IoT" consultation

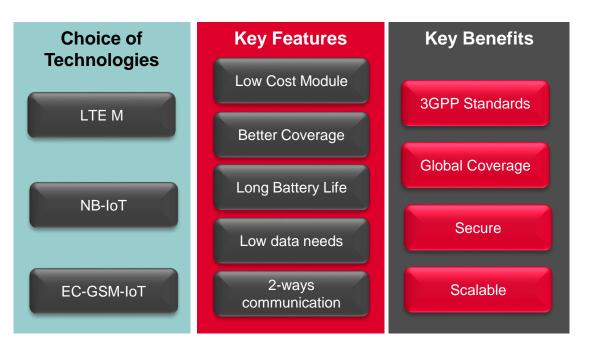
BEREC recognizes fundamental differences between IoT and traditional telco

<ul> <li>Numbering</li> </ul>	$\rightarrow$	Flexibility: global & extra-territorial resources are key
<ul> <li>Roaming</li> </ul>	$\rightarrow$	Viable model supporting IoT growth
<ul> <li>Switching</li> </ul>	$\rightarrow$	Takes into account specific IoT context
<ul> <li>Privacy</li> </ul>	<b>→</b>	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

