



FUTURE IoT CONVENTION

未来物联网大会

MWC Shanghai | Wednesday, 26 June 2019 | 13:00-18:00

MWC上海 | 2019年6月26日 周三 | 13:00-18:00

Graham Trickey, Head of IoT Programme, GSMA

Platinum Sponsor



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Associate Sponsor

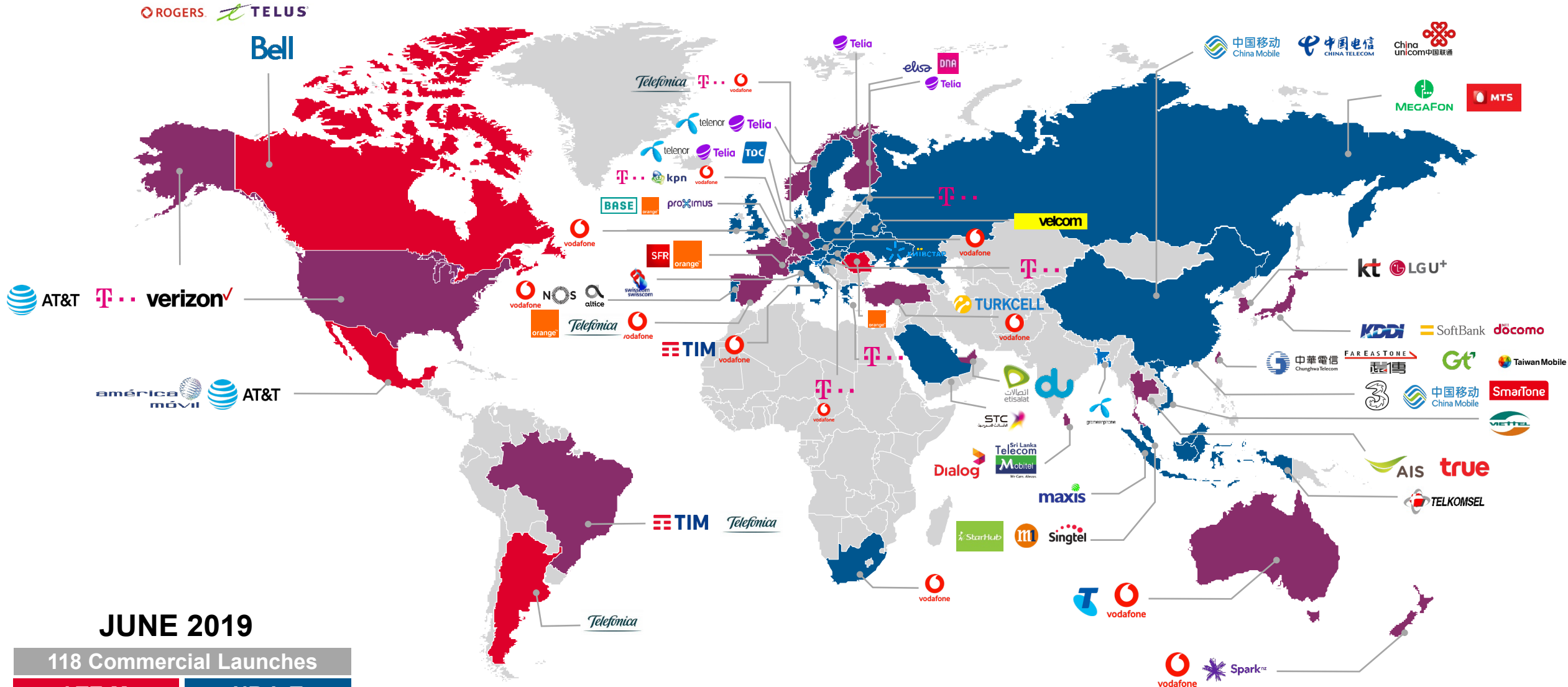


Networking Break Sponsor





Mobile IoT Global Coverage



JUNE 2019

118 Commercial Launches

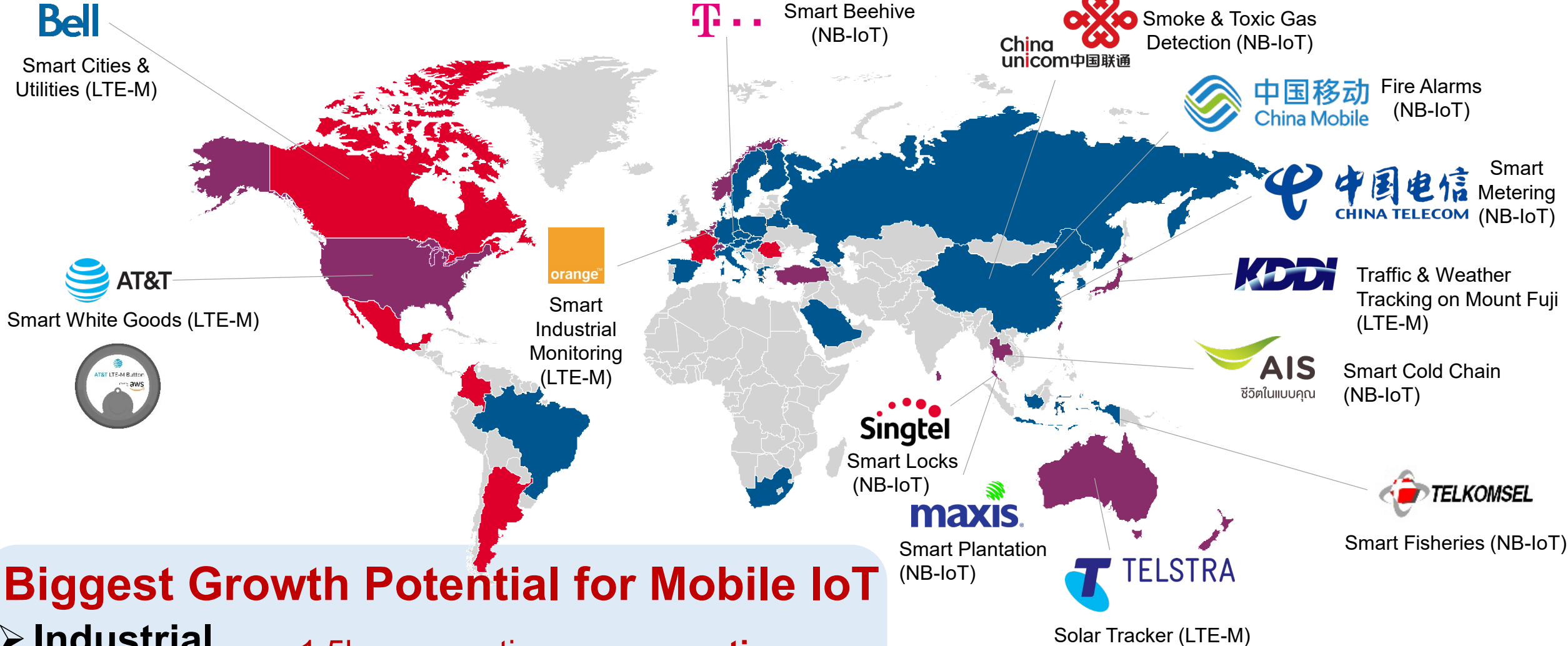
LTE-M

NB-IoT

Both LTE-M and NB-IoT



Mobile IoT Mass Market Customer Applications



Biggest Growth Potential for Mobile IoT

- **Industrial**
 - **Environment**
 - **Smart Home**
- 1.5bn connections, representing almost 80% of the 1.85bn licensed LPWA connections forecast by 2025.



Mobile IoT Technologies are Saving Lives Across China

Over 100,000 NB-IoT fire sensors have been deployed across China

- Real time tracking fire locations
- Provide early warning detection
- Faster emergency corrective actions
- Annual costs kept low due to long battery life
- Cellular so low risk of network disruption by fire

Safeguarding Loved Ones: Wearable Devices

Over 30,000 wearable trackers have been deployed to safeguard young children, the elderly and even pets.

- Low energy consumption and long battery lives
- Monitors vital signs of family members
- Alerts when the pet leaves a geo-fenced area
- Scaled with up to 100,000 terminals for a single system



Mobile IoT / Massive IoT / LPWA

- Smart cities
- Smart logistics
- Smart metering

Critical Communications

- Autonomous vehicles
- Smart grid
- Factory automation

Enhanced Mobile Broadband

- Immersive video conferencing
- Augmented reality
- 3D video



LTE-M and NB-IoT, as deployed today, are part of the 5G family

Fulfills 5G requirements for Massive IoT

LTE-M and NB-IoT will continue to co-exist alongside other 5G components

Can be deployed as part of a 5G network

LTE-M and NB-IoT can operate in a 5G NR band

Enables smooth operator migration path to 5G NR bands



- IoT solutions commence with secure, scalable & ubiquitous connection
- Value realisation comes from enabling services which increase efficiency, quality and global impact
- Operators are uniquely placed to deliver the full potential of the IoT



OneNET open IoT platform, chip and module, smart hardware.
Vertical application such as utilities, fire control, lighting and drainage.
Anti-theft management of 3 million E-bikes



IoT open platform launched, supporting mainstream IoT standards and transmission protocols, offering one-stop IoT solutions with device adaptability and specialised industry applications



- **CMP**
- **Cisco Jasper Control Center**
- **DMP & AEP**

Cooperation & self-development
GSMA INTERNET OF THINGS PROGRAMME 7



GSMA IoT Security Guidelines – Securing the Future of the IoT

Over 200

pages of advice and best practice to secure devices, service platforms and networks

85 detailed recommendations

Commitment from **15+** leading global mobile operators

12 principal attack models

IoT Security Assessment checklist



3 'worked' examples – **wearables, personal drone, automotive**

Risk and privacy impact assessments

Supported by

GLOBALPLATFORM
THE STANDARD FOR SECURE DIGITAL SERVICES AND DEVICES

GSA

one M2M

IoT | WORLD ALLIANCE®

simalliance
Security | Identity | Mobility



Adoption – IoT Security Champions Report (Feb 2019)



- Case studies from 14 leading mobile operators across the globe
- Shows how the GSMA IoT security framework has been used within their product development and testing processes
- **Demonstrates the business value of IoT security**

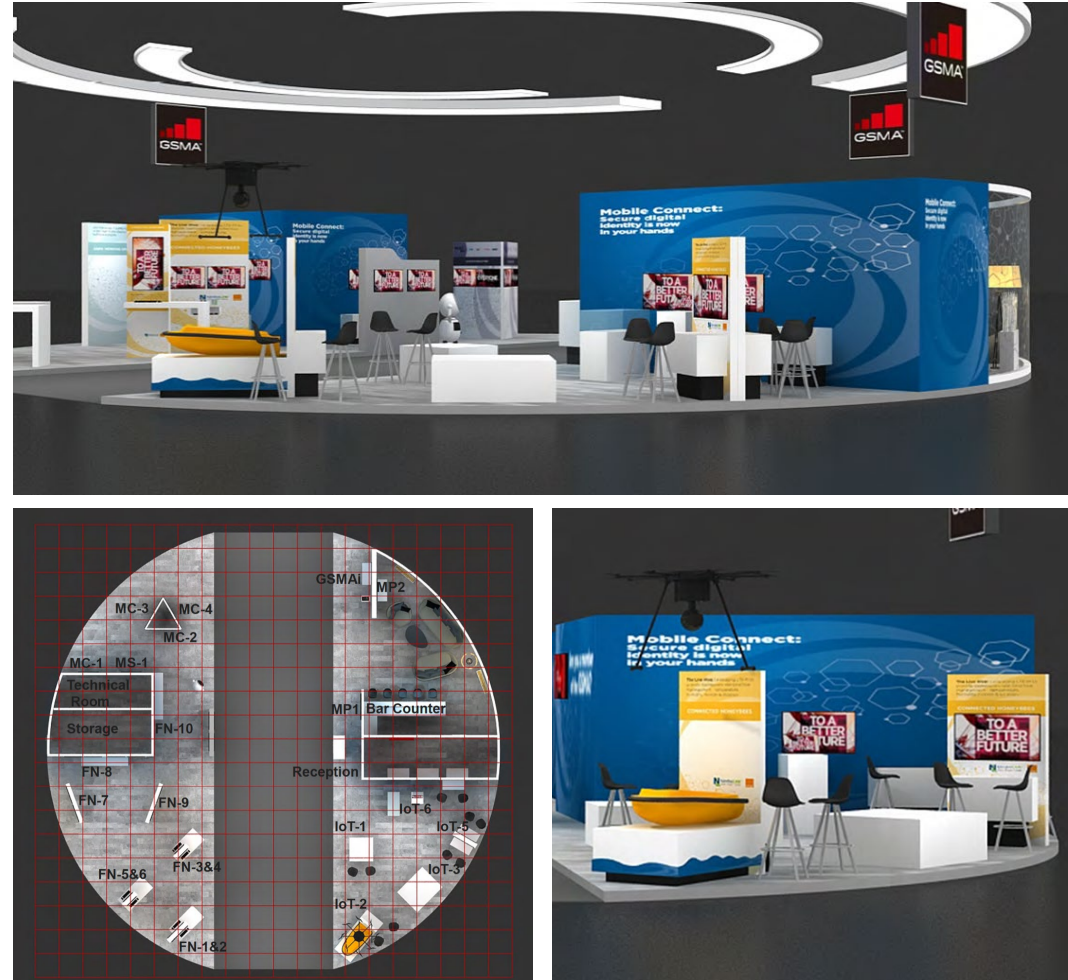


26-28 June 2019

Connected China Hall E7



Innovation City Hall N5



Mobile IoT Developer Showcase

IoT Beyond Connectivity Solutions