



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

IoT Update - RIPE88

IoT Working Group

RIPE NCC | Jad El Cham | May 2024

Agenda



IoT Trends

- Connectivity, Data

IoT Regulations in 2024

- EU, UK, US

IoT Capacity Building?

- Follow-up on RIPE84

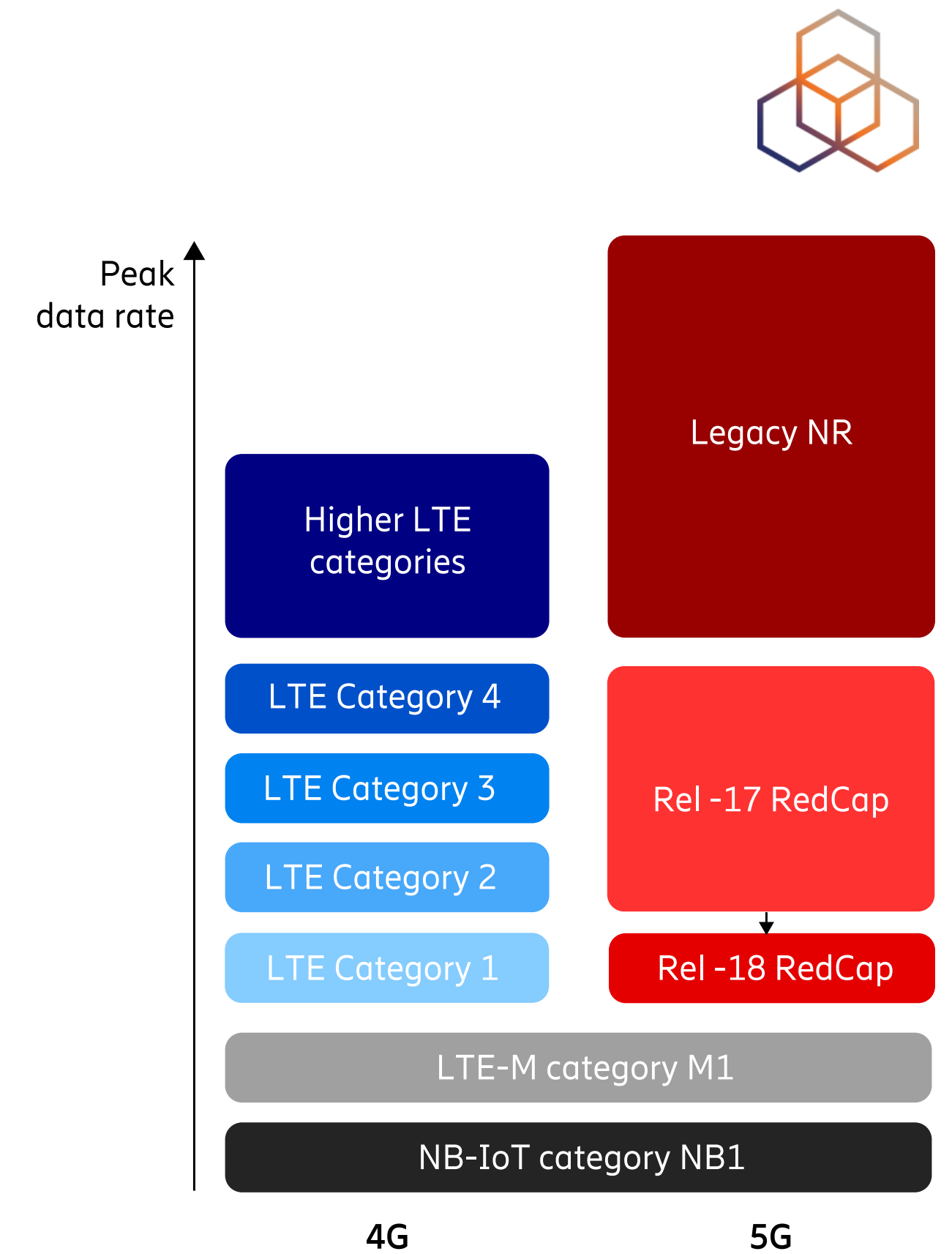


IoT Trends

IoT Trends in 2024

- IoT Connectivity
 - Satellite connectivity for global IoT services (Hybrid TN/NTN)
 - Private Cellular networks for specialised IoT Setups
 - Facilitated by eSIM/eUICC + iSIM/ieUICC adoption
 - Enhanced 5G IoT options

- IoT Data
 - Use of AI/LLM for data interaction, filtering and analysis
 - Edge IoT / Intelligent Edge / Edge AI
 - Digital Twinning as an enabler for innovative use cases



Source: [Ericsson](#)



IoT Regulations in 2024

IoT Regulations in 2024



1

NIS Directive 2

2

Cyber Resilience Act

3

Product Security and
Telecommunications
Infrastructure Act

4

EU Cybersecurity
Certification Scheme

5

US Cyber Trust Mark

6

GDPR

7

Radio Equipment
Directive Article 3.3

NIS2



Broadens the scope of NIS Directive: More sectors and entities
Creates necessary structures and procedures for cyber crisis management.



Essential Entities, Important Entities



Entered into force January 2023. EU Member States have until 17 October 2024, to transpose its measures into national law.

EU Cyber Resilience Act



Proposes legal obligations to ensure high level of cybersecurity in EU.
Focus on products with digital elements (SW, HW, IoT Devices...) throughout the entire lifecycle. Non-compliance will be penalised.



Manufacturers, Distributors, Importers, Retailers



European Parliament approved - March 2024

UK Product Security and Telecom Infra Act



Internet connectable products, Network connectable products, Computer input products.

Product recalls, fines up to £10m or 4% of worldwide revenue.



Manufacturers, Importers and Distributors



Take effect from 29 April 2024



Watch this space



EU Cybersecurity Certification Scheme

Vote on EU draft shelved April 2024 / Cybersecurity of Cloud Services



US Cyber Trust Mark - FCC Vote March 2024

Voluntary cybersecurity labeling program for wireless consumer Internet of Things products



RED Article 3.3 - Postponed to August 2025

Improves network protection. Strengthens personal data and privacy protection. Reduces the risk of fraud.



IoT Capacity Building



Opportunities for L&D?

- First brought up at RIPE84 Berlin
 - Mixed feedback
- NCC Surveys - What training topics would bring value to you? (IoT option)
 - 2023 Member survey: **22%** — n = 3518
 - Q4 2022 L&D survey: **28%** — n = 250
- Second time is the charm?

Need input from WG



Questions

