UROS

Standards based closed networks

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Tapio Rautava

- Director, Strategic Partnerships at UROS
- 30+ years experience in the global wireless telecom and semiconductor industries
- Previously, positions at Spreadtrum Communications, Broadcom, Renesas Mobile and Nokia
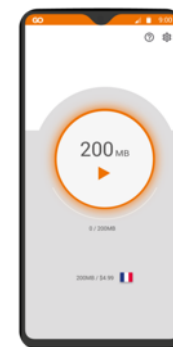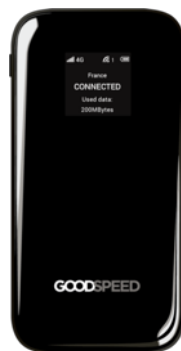
Agenda

- Introduction to UROS

- Use cases: IoT and 5G

- Summary and key takeaways

UROS today

Delivering turnkey IoT solutions for various verticals, bringing benefits of digitalization to people, devices and processes

Timeline

2011	2012	2013	2014	2015	2016	2017	2018	2019

2012
3G MiFi
10 x Discrete SIM cards
2FF
MNO/MVNO
"Hide the complexity"

2014
4G MiFi
3FF
More MNOs/MVNOs

2017
eSIM/eUICC
4FF

2018
LEW-100
Other verticals
eSIM smart
connectivity
for IoT

2019
IoT
verticals
expansion

3GPP and GSMA standards

Use cases:

IoT commerzialisation
& 5G Demo

IoT use case

3GPP
A GLOBAL INITIATIVE

NB-IoT
LTE-M

LoRaWAN™

ISM
stands for
Industrial, Scientific, & Medical radio frequency band
Abbreviations.com

- industrial requirements
- NB1 global coverage
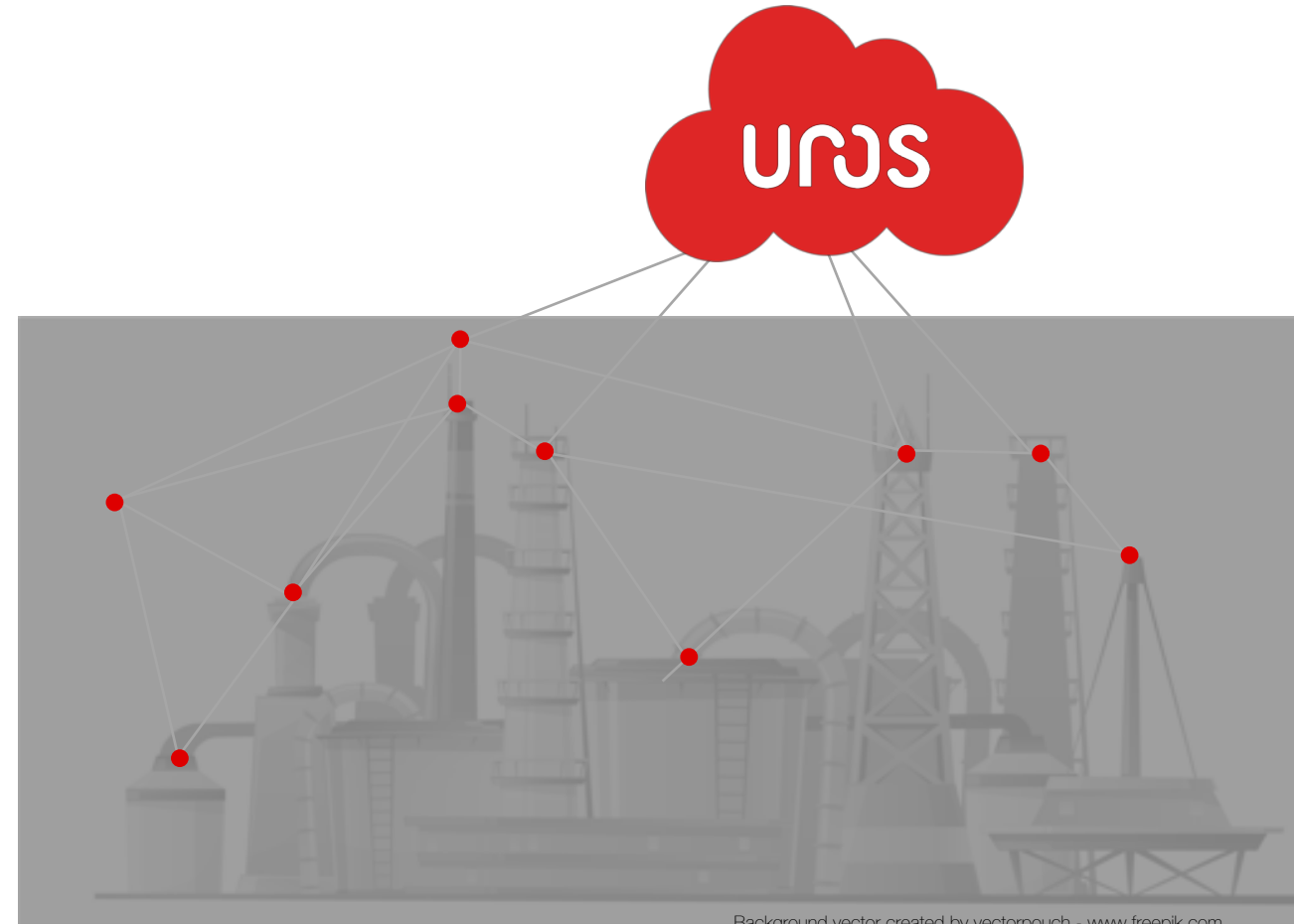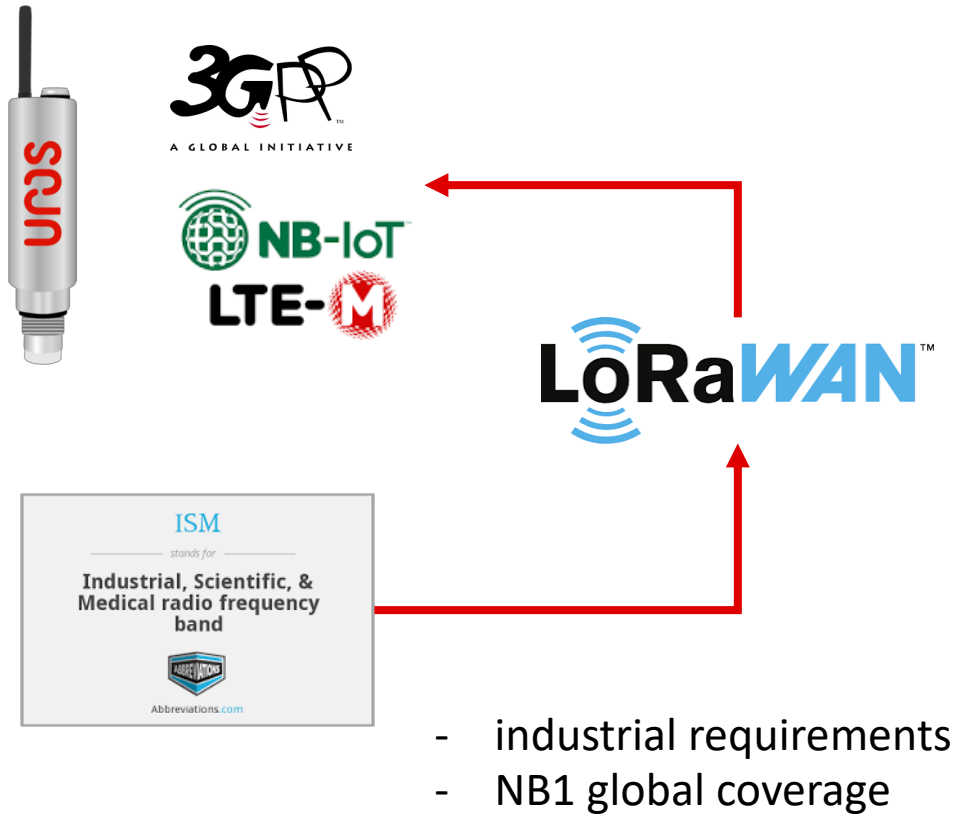
UROS

5G demo

Findings & Summary

1

- Need for "combined" wide and narrowband radios
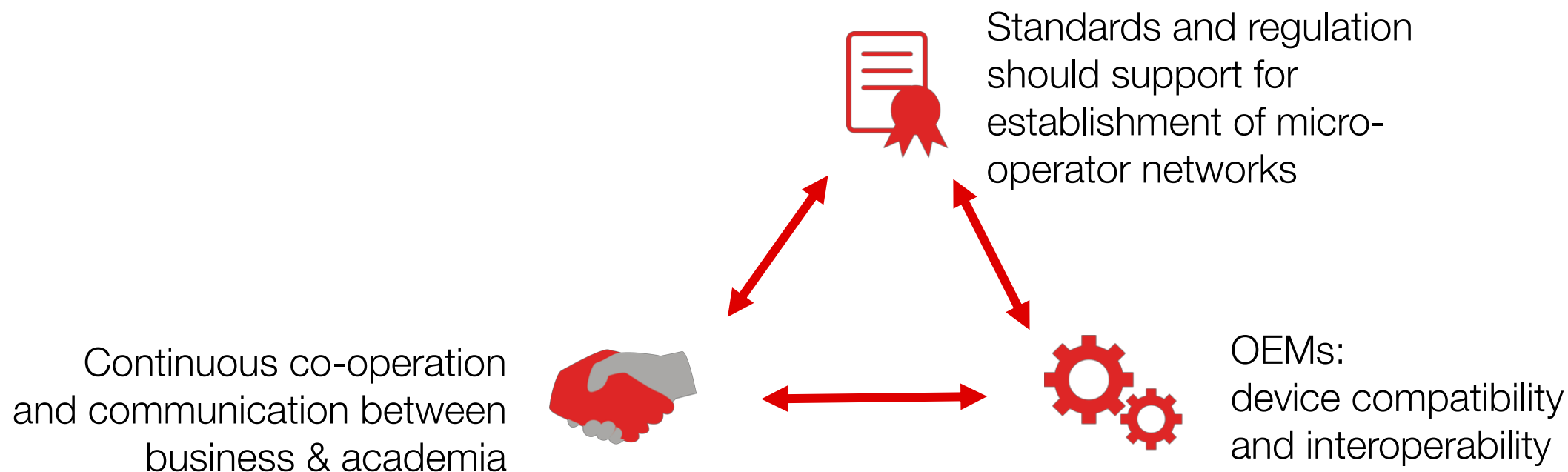- Battery run operations

2

- Local mobile networks

3

UROS wants to co-op with academy and other industry actors in order to adapt and enhance its services to utilize 5G opportunities

Key takeaways

Standards and regulation should support for establishment of micro-operator networks

Continuous co-operation and communication between business & academia

OEMs: device compatibility and interoperability

Future innovations made today

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