Orange Polska

Towards 5G

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5G in Orange Strategy

Smart utilities

5G for fix

Highly reliable, ultra low latency network parameters

Connected, intelligent home

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Dedicated networks

Seamless 4K video experience

Autonomous car

Wireless VR/AR 4K experience

Ultra dense access points

Fiber based backhaul

Self-organizing networks

Everything in the cloud/virtualized

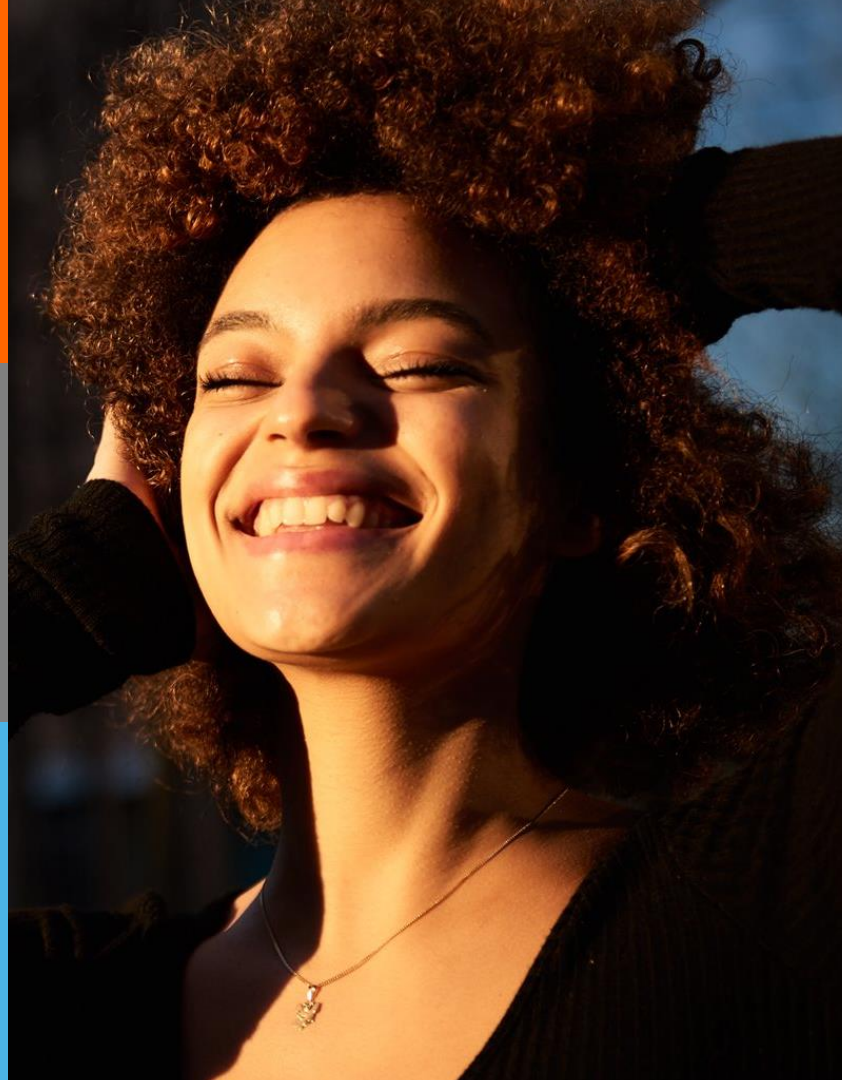
10 times longer battery time for IoT devices

End user transmission rates reaching Gb/s

1000 times higher network capacity

100x times more connected devices

End to end delays reduced to milliseconds



5G ecosystem components

Spectrum

5G compatible user equipment

New RAN and CORE

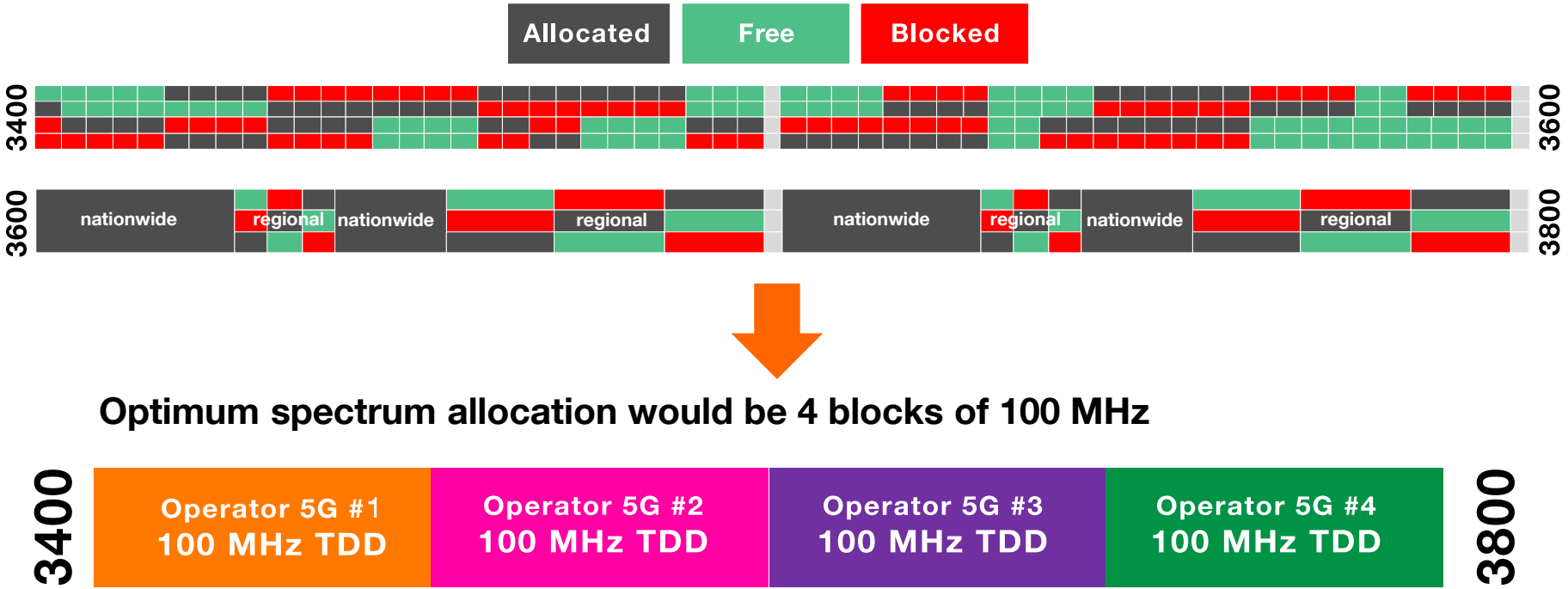
Improved backhaul and transmission

Business Ecosystem

What does 5G in Poland need

- Spectrum managing: organizing „Band C” (3,4-3,8 GHz) key for 5G
- Level playing field

What does 5G in Poland need



EU agenda for 5G

European Commission

Orange Group activity

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▪ Align roadmaps and priorities for a coordinated 5G deployment across EU	2018	▪ 5G radio tests in Orange countries
▪ Make provisional spectrum bands available for 5G ▪ Authorization of the specific 5G spectrum bands above 6GHz	2019	▪ Large scale 5G radio/core tests and field trials in Orange countries
▪ Moving towards commercial large scale introduction by the end of 2020 at the latest	2020	▪ Start of 5G deployment

Orange Polska Road to 5G

2018

- 5G radio demos
- Preparations to build 5G ecosystem in Poland

2019

- 5G radio/core tests, field trials

2020

- Start of 5G deployment

Spectrum acquisition

Business Requirements & Strategy

Architecture and security

Spectrum and MNO cooperation

Network standards and tests

Devices

Legal issues/ Regulations

Orange Group Alignment

Thanks