

& COMMUNICATIONS

The inside track on telecoms operators' technology strategies

WELCOME

Annie Turner, Editor, Mobile Europe | European Communications

- 5G isn't just a next-generation mobile technology, it's a step-change
- Monetisation is critical for the survival of operators
- First generation of mobile tech designed to link machines as well as people
- New commercial models demand a radically different approach to network architecture and deployment
- And operations
- How will we identify and develop the most successful use cases?



THE AGENDA

Klaus Moschner, Executive Programme Manager at NGMN Alliance Nick Sampson, Director, Wireless and Core Network Standardisation at Orange

- Klaus will talk us through the key role NGMN is playing in 5G developments, working closely with operators
- Nick will look at some use cases that NGMN is involved with and their implications

Please note, we will have a question & answer session with our panellists at the end (please type them into the question box on the RH side of your screen)

Also, the on-demand recording of this webinar and the slides will be available within 48 hours of the webinar

Any queries please email me <u>anniet@mobileeurope.co.uk</u>





The NGMN Alliance - Exploring current and future use cases for 5G



Nick Sampson, Director of Wireless Access and Core Network Standardisation at Orange



Klaus Moschner,
Executive Programme Manager at
NGMN Alliance

The Global Partnership of the NGMN Alliance



Members: NGMN Operators with over 200 networks serving more than 60 % of all global mobile users,...



















Sprint









Telefonica













Contributors: NGMN telco vendors, software companies and many other leading industry players contributing and driving the advancement of future mobile network technologies, ...



























































































Advisors: NGMN research institutes contributing substantially to mid- to long-term innovation,....

































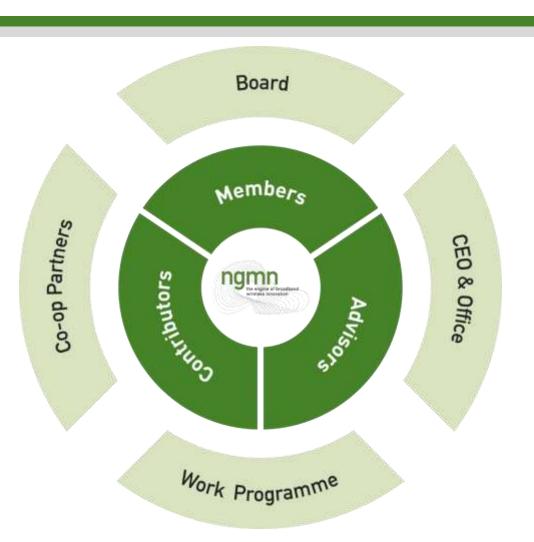




Cooperation Partners

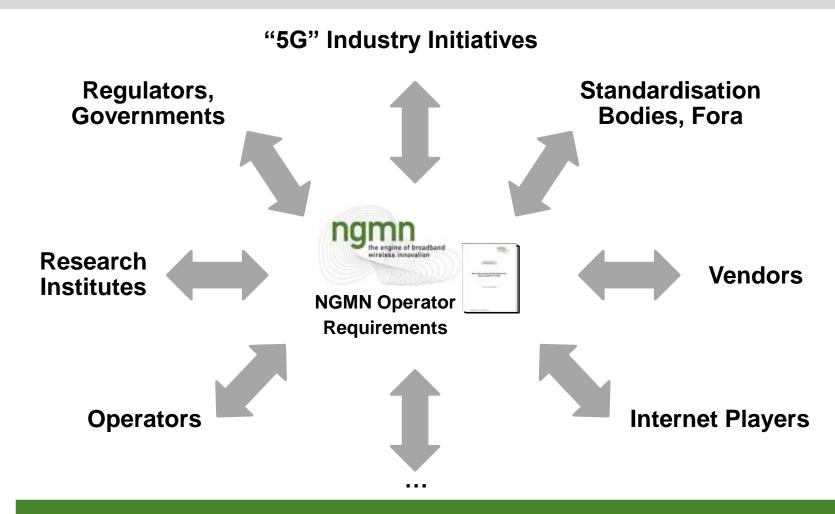






NGMN to Reach out and Cooperate with all Ecosystem Stakeholders





5G Work Programme



Technology evolution

- E2E Architecture Framework
- Service-Based Architecture
- RAN Functional Split

- RAN Convergence / Home Gateway
- Security Competence Team
- Devices & Chipsets for 5G

Trial & Testing and Deployment

- Trial & Testing
 - -Interworking & Network Trials
- Deployment Efficiencies (SDE)
- Rural Coverage

- Base Station Antenna requirements
 - Passive Antennas.
 - Active Antennas
- Cluster Connector Alignment

Eco-System Engagement

Regulatory / IPR

- 5G Spectrum recommendations
- Spectrum Defragmentation (SDE)
- IPR Forum

Vertical Industries

Verticals' URLLC Requirements

Information Exchange

5GAA Rapporteur Team3GPP alignmentNFVI Defragmentation

Many documents delivered during the course of last year, recent highlights

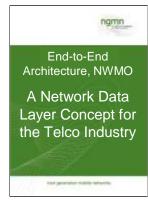




Most Recent Highlights









Results of our 5G Work-Programme:

Internationally recognised guidance for standardisation and development

Spectrum

5G Spectrum
Requirements:
White Paper v2.0



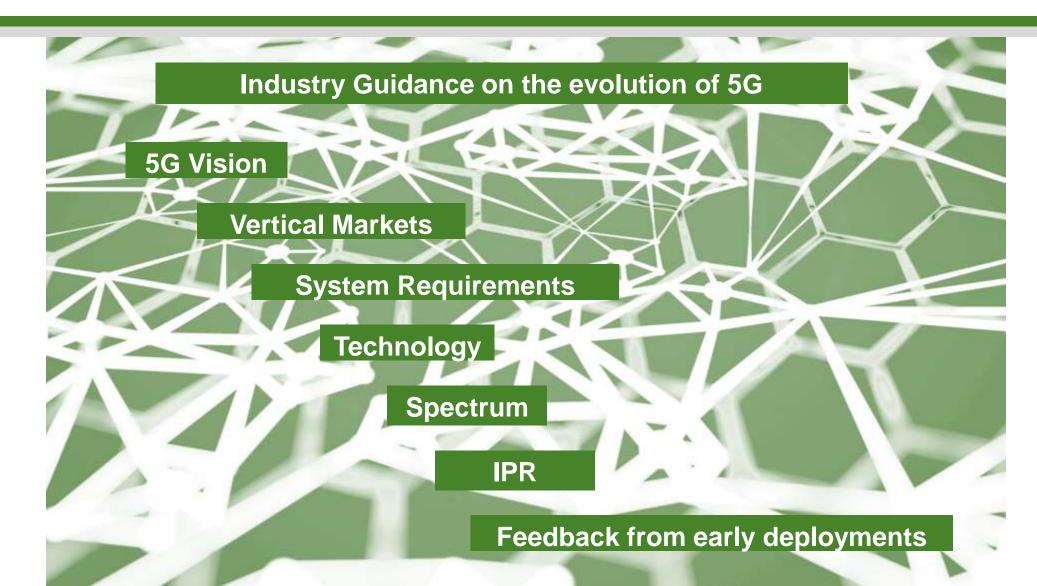




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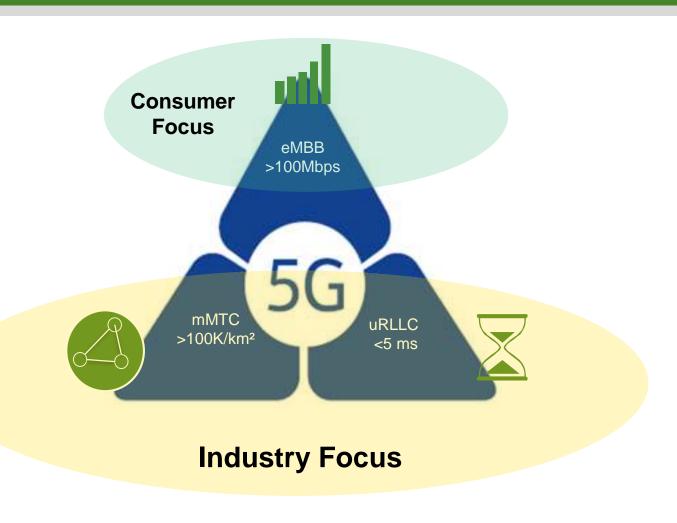
5G White Paper 2.0





5G for Industries – the NGMN Perspective



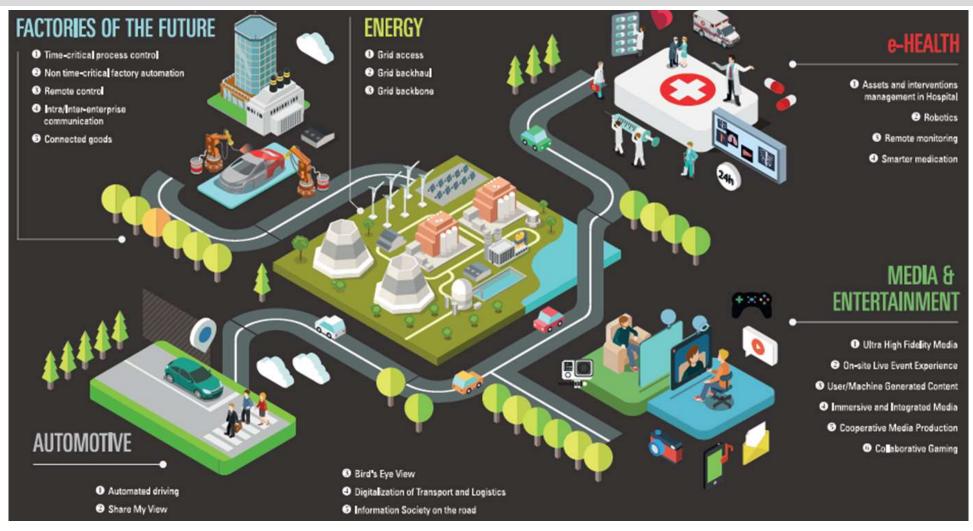


5G Industry Focus

- Opening new markets with diverse requirements
- Highly dynamic core
 - Slicing
 - Virtualisation
 - Automation

5G for Verticals





5G can enhance each phase of the industrial cycle

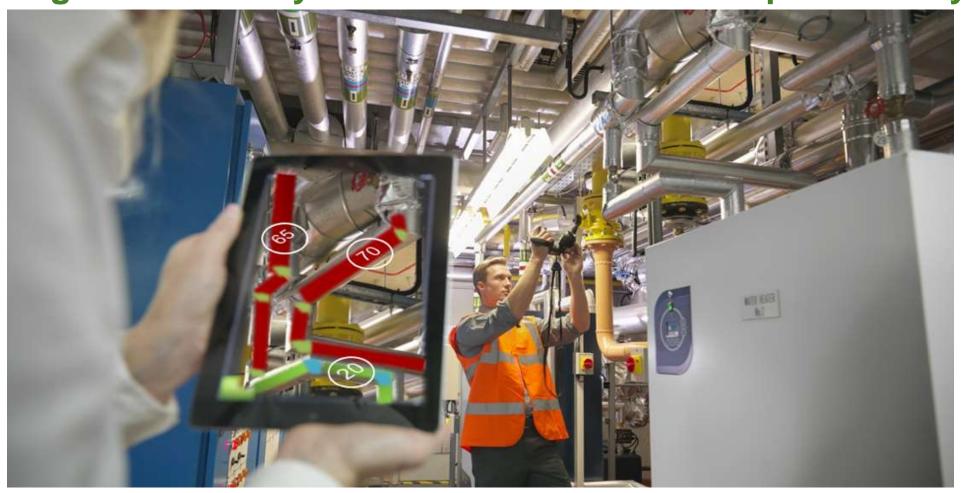




Immersive experience for Industry 4.0: 5G-powered maintenance



Augmented reality: increased site technician productivity



Transport – beyond connected cars



Infrastructure maintenance



Ports



Truck platooning



Railways



eHealth and Telemedicine



- Remote healthcare
 - Reliable and secure connectivity
- Wearable sensors
 - Low complexity, high battery life
- Medical vehicle support
 - Reliable and secure connectivity

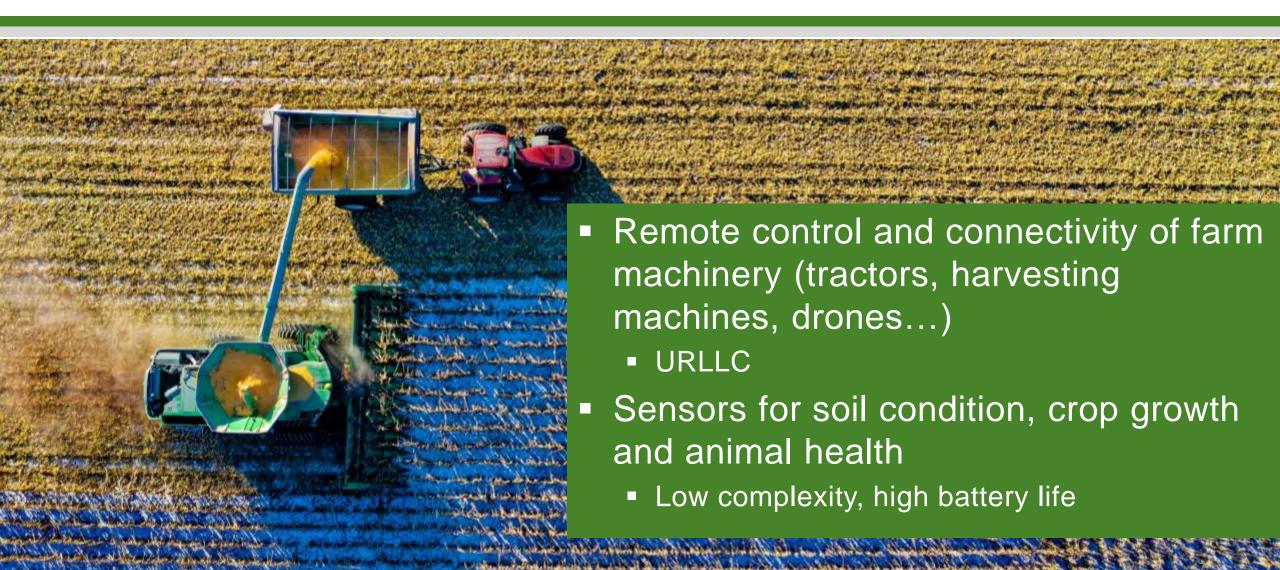






Smart Farming





Smart Cities





5G for Industries - the NGMN Perspective



Delivering revolutionary applications

- Close partnership between operators and industry will deliver new and innovative solutions and business models, offering a revenue boost for the overall economy
- The strong and continuous engagement between operators and vertical Industries in tests, trials and prototype solutions is key to make these use cases and prototypes a reality



NGMN Industry Conference & Exhibition 2020

ngmn the engine of wireless innovation

Kindly supported by Orange

- → Gathering world's top-operator CTOs to gain a perspective on the future of mobile communication
- Viewpoints, insights and an outlook from Telco, IT and vertical industry executives and thought-leaders
- → Latest updates, presentation and discussion of NGMN Work Programme deliverables
- Exhibition: Leading international partners with demonstrations of 5G solutions and concepts
- Networking opportunities and entertainment



Contact the NGMN Office office one of the sponsoring opportunities!

Unique Journey to 5G Commercial Success

NGMN Newsletter



Subscribe to the NGMN Newsletter to learn more about 5G and the Mobile Operator Viewpoints:

http://eepurl.com/gvNa6n

