MOBILE

european မ 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





Cooperation Partners





NGMN to Reach out and Cooperate with all Ecosystem Stakeholders





Orchestrated Effort for Global and Aligned Development of "5G"

5G Work Programme



Technology evolution	 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	Vertical Industries
	 5G Spectrum recommendations Spectrum Defragmentation (SDE) IPR Forum 	 Verticals' URLLC Requirements
Information Exchange	• 5GAA Rapporteur Team •3GPP alignment •NFVI Defragmentation	

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





Most Recent Highlights

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





source: 5G PPP white paper «5G empowering vertical industries»

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



ngmn the engine of wireless innovation

- Remote control and connectivity of farm machinery (tractors, harvesting machines, drones...)
 - URLLC
 - Sensors for soil condition, crop growth and animal health
 - Low complexity, high battery life

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



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



INDUSTRY CONFERENCE & EXHIBITION 2020

21-23 April 2020 - Paris, France

Contact the NGMN Office <u>office@ngmn.org</u> to book your exhibition booth and reserve 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

