

5G INITIATIVE SUMMIT

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2 - 3 MAY 2019 HAMBURG, GERMANY





Released under careful scrutiny of speakers and producers, 5G Initiative Summit is ready to welcome and host its participants in Hamburg, Germany on 2-3 May 2019, just in time to join the tangible excitement as latest events on the 5G frontier are bringing fresh challenges and opportunities to a multitude of verticals. It is co-located with Future of eSim Summit. Join us to meet with the leaders of 5G. Initiative and double your benefit from attending.



Learn how European Commission responds to the 5G deployment in Europe



Understand perspectives of 4G in a post 5G deployed world



How to find justification for massive 5G investment in monetization cases



First steps made in various countries: What has been learnt



See how different verticals are responding to 5G







20 SPEAKERS



10 NETWORKING HOURS



150 PARTICIPANTS



1 CO-LOCATED SUMMIT



6 THEME



20 Exhibitors

WHO ATTENDS

Members of board, C-level, Senior Vice Presidents, Vice Presidents, Directors and Heads of departments involved in:

- Network Technology
- Wireless Technology
- **Network Architecture**
- **Network Slicing**
- **Radio Networks**
- Mobile Innovation
- **FMC Transformation**
- 4G and 5G Convergence
- NR Development
- C-RAN, V-RAN
- **5G Network Trials**
- "Small Cell" Technologies































































































Ahmad Sarhan Sales Director HUAWEI



Syed Jawad Mohsin Architect V2X and Security for Connectivity Module TechConnect GmbH Germany



Jean-Pierre Bienaimé Secretary General The 5G Infrastructure Association (5G-IA)



Cristina DataDirector of Spectrum Policy and Analysis
Ofcom



Mayowa Olaiya 5G Transmission Planning Engineer *UK Broadband*



Adrian Pais Senior Telecom Consultant TNO Information and Communication Technology



Burcu Kuzlak Program Manager 5G City of Amsterdam



Thomas Magedanz Professor Fraunhofer Institute for Open Communication Systems



Francesco Saverio Nucci
Director of Application Research at
Engineering SpA
High Level Expert in
Artificial Intelligence Italian
Ministry
of Economic Development



Sergio Pires Sr. Director - Innovation and Advanced Concepts Ampleon



Fourat Haider Network Strategy and Architecture Manager Three UK



Falk Schröder Head of Cluster Networked Infrastructures Member of the Management Board Detecon International GmbH



Maziar Nekovee
Professor of Telecoms and 5G Mobile at
Technology University of Sussex
Vice Chair NetWorld 2020 European
Technology Platform



David Crawford
Manager, Centre for White Space
Communications
University of Strathclyde



Alexandru Rusu Research Director, IoT Swisscom



Marieke Fijnvandraat
Director sustainable & smart urban
development



Colin Willcock Business Partner Manager The 5G infrastructure Association



Registration and Morning Breakfast 8:00

5G: The European Initiative

9:00 Chairman's Welcome Address

9:10 **Future of 5G Research in EU**

Colin Willcock SEPPP Chairman of The Board

Communication Systems

The 5G infrastructure Association

- Europe has been one of the key leaders in 5G technology development with 5G PPP
- As 5G PPP draws to a close what has this program achieved?
- What does Europe need to do beyond 2020 to ensure that we retain a leadership
- What technologies do we need?

9:30 Understanding that 5G will be a long term investment and game chang Thomas Magedanz Fraunhofen

Professor Fraunhofer Institute for Open

- Why and when 5G deployments The chicken egg problem
- What 5G is NOT Broadband everywhere for everyone
- What 5G is a Programmable Edge & Cloud based Service Platform
- Understanding the Role of Verticals for long term 5G Success
- Business Model Choice: Operator Network Slicing vs. Private 5G Networks Berlin as the German 5G Capital
- Getting 5G Ready the Fraunhofer 5G Software Toolkits

transformation

Thomas Magedanz In Fraunhofer Maziar Nekovee us Alexandru Rusu 🔹 swisscom Colin Willcock

striving to the common goal of 5G Europe • Technological, political, economic & social implications of 5G

• Discussion on how European Gigabit Society and 5G Action Plan will facilitate the

INTERACTIVE PANEL: Vision 2020: Framing the concept of 5G for positive

- European Electronic Communications Code and its impact on 5G in Europe Conclusions made from latest pre-commercial demonstrations of 5G
- After all, is Europe ready for the rollout of 5G? If not, then when and which actions
- need to be taken to facilitate the progress.
- 10:45 **Networking Break**

11:30

12:00

12:30

14:10

14:50

15:20

16:00

16:30

10:00

Moving from 4G to 5G

11:10 Hardware Front-Ends for 5G mobile Broadband – Challenges and differences from 4G Sergio Pires AMPLEON

Sr. Director - Innovation and Advanced Concepts Ampleon

5G Coverage Enhancementels

Network Strategy and Architecture Manager Three UK The presentation gives an overview on the challenges that the operators will face to



provide a consistent 5G coverage and highlights the technologies that will help to overcome these challenges.

 Rethinking the wireless industry vision 5G technology and service playfield

New Era in Telecommunications Services



Francesco Saverio Nucci

High Level Expert in Artificial

Professor of Telecoms and 5G Mobile Technology University of Sussex





Networking Lunch

Unlocking Commercial Value of 5G Deployment

13:30 **5G and Artificial Intelligence**

Intelligence Italian Ministry of Economic Development • 5G, IoT and IA: how they will shape our technological future

Director of Application Research at Engineering SpA

• What 5G can do for Artifical Intelligence, and, at the opposite, what IA can do for 5G? 5G and Artificial Intelligence: the best promise for our future, but what's about ethics?

- Some practical examples and uses-case within the European Context
- "5G for Verticals: Industrial Automation and Automotive" Maziar Nekovee US

Vice Chair NetWorld 2020 European Technology Platform • What in your opinion is the key business model/ service that drives ROI

David Crawford



First Steps Made: Perspectives from different countries

Networking Break

If New approaches to managing and sharing spectrum and other infrastructure resources

UK government supported project (5G RuralFirst)

VUniversity of Strathclyde The area of spectrum sharing and neutral host models, particularly for areas that

Manager, Centre for White Space Communications

are hard to reach using traditional approaches (e.g. rural areas).

Member of the Management Board.



Adrian Pais TNO INTERIOR

5G early use cases like campus networks or edge computing to gain directly from low latency Falk Schröder DETECON Head of Cluster Networked Infrastructures

Detecon International GmbH Based on 5G announcements we see already a huge discussion around the use of 5G for the industries. Might it be capacity needs, low latency or other communication critical type of connectivity? Beside the fact of new licenses and the need of real time based

communication for various use cases we will see first early implementations within LTE already, which will further develop towards 5G. The combination opportunities of various services will allow for further ideas and finally may drive a new Eco system 5G Developments in the Netherlands, including both Amsterdam (urban trials) and Groningen (rural trials)

TNO Information and Communication Technology • Use cases for enterprises – learnings from 5G testbeds and trials in the Netherlands

Senior Telecom Consultant

• How enterprises can shape the 5G ecosystem

17:15 **Cocktail Reception**

Chairman Closing Remarks and end of day 1

5G trends of relevance to enterprises

ve-5g-congress/

https://annolucisevents.com/initiati

ANNO LUCIS

17:00



8:00

Registration opens

How Different Verticals React to 5G

9:30 Vehicle-to-Vehicle Communication using 5G

Syed Jawad Mohsin TechConnect In

Architect V2X and Security for Connectivity Module

TechConnect GmbH Germany

- Purpose of incorporating 5G in Vehicle-to-Vehicle Communication.
- •Advantages offered by 5G for Vechile-to-Vechile Communication over conventional communication protocols like WLAN.
- Shift towards Fully Autonomous modes of transportation.
- Preference for use cases: Starting from safer commute to ultimate goal of fully autonomous transportation.

5G empowering Vertical industries: Verticals 5G use cases 9:30

Jean-Pierre Bienaimé 💆 🗪

Secretary General

The 5G Infrastructure Association (5G-IA)

10:00 **Panel discussion**: what are the top 5g use cases - from autonomous vehicles to smart cities, to remote industrial machine operation and moree

> Alexandru Rusu 🐧 swisscom Syed Jawad Mohsin TechCornect In Jean-Pierre Bienaimé 💆 🗪



5G will deliver a unifying connectivity fabric that will bring huge enhancements to today's mobile broadband services, expand mobile networks to support a vast diversity of devices and services, and revolutionise the Internet of Things (IoT) enabling a vast number of 5G use cases.

- Which use cases should be pursued first?
- What enabling technology is needed for those use cases?

10:40 Policy and challenges in verticals deployments and business models

Cristina Data 2522222

Director of Spectrum Policy and Analysis Ofcom



11:20

Networking Break

Moving from 4G to 5G

5G Use Cases for Safety Critical Systems 11:35

Alexandru Rusu 🐧 swisscom Research Director, IoT Swisscom

12:25 The role of technology partners in ecosystems to realize sustainable and smart cities

Marieke Fijnvandraat Director sustainable & smart urban development

- Telecommunication networks (IoT, 4G,5G) are an essential element in current and near future city design (small cells, smart management traffic systems, security systems, smart mobility, smart lighting, etc)
- City design is becoming more complex, which urges companies to work more closely together ecosystems between a.o Building & construction, technology, energy, capital investment and citizens.
- This transformation and complexity causes challenges and uncertainties for current players in the market
- An enabling fundament in infrastructure in area development projects is needed, starting with a use case driven approach.
- A innovative method of cohesion of smart city services and urban development plans truly realize sustainable & smart cities at a large scale
- Integrated area development safeguards the embedding of 5G and other infrastructure networks in the city designs, needed to scale sustainable energy and mobility systems.

13:00

Networking Lunch

waves)

SPECTRUM, INFRASTRUCTURE & ARCHITECTURE

TRANSMISSION. 80GHZ MICROWAVE RADIO 14:00

Mayowa Olaiya 5G Transmission Planning Engineer

(CBroadband)

UK Broadband

- International standards development for 5G test networks and early deployments
- How international standards will evolve by 2020 for the main commercial release of 5G

Health and safety considerations for 5G involving radio frequencies (including millimetre

Electromagnetic Field exposure levels from 5G test networks

14:40 Roundtables: HOW WILL 5G CHANGE THE WORLD? FROM TRIALS TO BROADER **ADOPTION**

- Multi-gigabit millimetre wave cellular networks
- **Jean-Pierre Bienaimé** Secretary General The 5G Infrastructure Association (5G-IA)

5G Ultra-high reliability and ultra-low-latency for wireless communications

3D beamforming design for wireless cellular networks



15:40

Networking Break

Closing Remarks from the conference chair End of the Conference 16:00



55 PPP





Maziar Nekovee



Maziar Nekovee is Professor of Telecommunication, 5G Mobile Technologies and Head of Department of Engineering and Product Design at The University of Sussex, UK. His current research focuses on how the latest advances in 5gmobile communications, Al and IoT can result in disruptive breakthroughs in the manufacturing, robotics and automotive sectors and also what comes after 5G. Prior to joining The University of Sussex he was Head of Samsung's European 5G Research and Collaborations and prior to that he was with BT Research and Innovation. Maziar is an elected Vice Chair of Networld 2020 European Technology Platform and an academic member of 5G Infrastructure Public Private Partnership where he advises the European Commission in shaping the EU's next Strategic R&D Framework Program, the 100 BN Euro Horizon Europe which starts in 2021.



Jean-Pierre Bienaimé



Jean-Pierre Bienaimé has been Secretary General of the 5G Infrastructure Association (5G-IA), representing the digital & telecommunications industry (operators, manufacturers, research and academic institutes, verticals, SMEs) in the Public-Private Partnership (5G PPP) with the European Commission, since 2016. He is also Chairman of the 5G PPP Steering Board. Jean-Pierre has been Chairman of mobile industry association The UMTS Forum from 2003 until 2016, with a mission to promote a common vision of the development of 3G UMTS and 4G LTE and evolutions, and to ensure their worldwide commercial success. Jean-Pierre is the chairman of IREST (Economic and Social Research Institute on

Telecommunications), a think tank of influence based in Paris. Jean-Pierre is graduated from ESSEC Business School, from Institut d'Etudes Politiques de Paris, from Ecole Nationale Supérieure des Postes & Télécommunications – Paris, and from INSEAD.



Adrian Pais



Dr. Adrian Pais is a Senior Telecom Consultant at TNO. In this role he leads or contributes to research and consultancy in 5G for mobile operators, vendors, vertical enterprises, and government. Adrian serves as technical lead in 5Groningen, a multi-stakeholder partnership that aims to create new opportunities in rural areas in the north of the Netherlands using 5G applications. For several years Adrian has

contributed to 3GPP standardisation in areas such as small cells, energy saving and self-organising networks (SON). As an active IEEE member, Adrian led the young professionals arm of the organization and served as a Director on the IEEE Foundation Board. He has a Bachelor of Engineering (BE) with First Class Honours and PhD, both from The University of Auckland, New Zealand.



Dr. Fourat Haider



Dr. Fourat Haider is responsible for establishing the Radio technology strategy for the 3UK business. His prime focus is RAN, spectrum and mobile performance strategy. His role also includes investigating innovative radio technologies that will be part of the next-generation 3UK's network. After completing his PhD in Edinburgh, he joined 3UK as a RAN Strategy and Architecture Manager in 2014.



Falk Schröder



Managing Partner at Detecon and Head of the Cluster Networked Infrastructures with international experience in various technology driven projects, focusing on most relevant technology strategies in the context of digitization and 5G. Falk has more than 24 years of professional experience in the area of telecommunications technology. After working on edge computing solutions and establishing mobiledgeX with Deutsche Telekom he was more focusing on getting 5G and tengable telco Cloud solutions in place. 5G yet focusing on needs and real benefits, telco cloud more on required changes and needs at the operators to fulfill industry needs.



Alexandru Rusu



Alexandru Rusu is currently leading the Swisscom IoT/5G Research Laboratory. He is the point of contact between the industry and the academia in the IoT and 5G field, where he runs industrial research projects together with the main faculties in Switzerland. He is developing new products and improving the existing services of Swisscom by researching the latest technologies and finding use-cases where those can be applied. His experience consists in more than 15 years in research and development in both academia and industry. Completing two PhDs in nano-technology, his work was published in numerous high-impact factor journals and papers. Alexandru's industrial experience covers a wide range of technical domains, from semiconductor physics to complete IoT system design, applied in multiple domains, such as Wearable Electronics, Medical Devices, Automotive Sensors and and Optoelectronic Systems.



Cristina Data



Cristina is the Director of Spectrum information and analysis, Spectrum Group at Ofcom. Cristina currently leads the Spectrum Mobile Data Strategy programme with a particular focus on assessing the implications of growing demand. Prior to working on 5G, Cristina led the development of a new spectrum sharing framework, and launched Ofcom open data policy. In particular Cristina was responsible for the release of the UK Interactive spectrum map and the release of information on spectrum use in open format. Prior to joining Ofcom Cristina held various marketing and strategy roles at Telefonica O2, EE (then Orange), and Ericsson (then Red Bee Media). Cristina holds a Master Degree in Management Engineering from the Politecnico di Torino university in Italy.



Marieke Fijnvandraat is a Director in Smart and sustainable area development, focusing on

Marieke Fijnvandraat



business & innovation strategy and Smart City development, defining new business models in ecosystems, helping public and private partners to realize smart cities, from strategy to successful execution. She focuses on integrated area development for smart, sustainable cities and the impact of digital infrastructure on various sectors within smart city environments. Marieke has over 15 years of experience in

telecom strategy with a varying focus and far-reaching practical experience. After her PhD in broadband rollou strategy, she had several strategic and managerial positions at large Telcos. She joined PwC in 2015, where she is now Smart Cities lead in The Netherlands. In this role, she works closely together with both private companies and municipalities. Marieke is actively participating in international networks and communities around Smart Cities.



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issuance of such credit. An administration fee of 10% of the contract fee will be retained by ANNO LUCIS sor for all permitted cancellations. No credit will be issued for any cancellations occurring within seven (7) days (inclusive) of the conference.

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