

A person wearing a red jacket, light blue pants, and yellow rain boots is drawing blue lines on a dark asphalt surface with a piece of blue chalk. The person is captured from the waist down, and their hand is visible as they draw. The background is dark and out of focus.

# Innovating future networks

24th October 2017, Singapore

NOKIA

## About the event

The world of technology is rapidly changing and the networks of our customers are constantly evolving. Internet of Things, 5G, Cloud, Digitization, Virtualization and Cybersecurity – is the future of our industry. Nokia is constantly innovating to shape the future of technology, and meet the rapidly evolving needs of consumers, enterprises, and governments.

**Innovating future networks** is a one-day forum that brings communication service providers (CSP), enterprises, governments, and industry thought leaders together to have open discussions on the next generation in telecom technology.

## Why should you attend?

You will benefit from industry speakers and Nokia executives sharing best practices and exchanging insights on trending technology themes. You will get to learn about successful case studies of digital transformation stories, delve into industry challenges like cybersecurity, and generating new revenue from virtualized services. With the opportunity to network with other industry leaders, you can experience deep-dive roundtable conversations and co-creation workshops to generate new ideas on topics such as safer cities or B2B partnerships. There will also be demo showcases to bring Nokia's state-of-the-art technology to life.

## Who should attend?

Executives from CSPs, enterprises, governments, and industry partners that are involved with network technology and IT, as well as strategy, innovation, marketing, and digitization are welcome to join Innovating future networks.

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# Agenda – Plenary AM

Reimagine Asia:  
Accelerating a digital  
future

1

09:00-09:20

Innovation case study

2

09:20-09:40

Innovation case study

3

09:40-10:00

Panel 1:  
Framing the digital  
challenge  
Transformation

In the world of digital transformation, customer expectations on touchpoints and experience have evolved. How has your company's operations and business model adapted to the digital world?

What is the most challenging aspect of this evolution, and what would be the most valuable learning on thriving in the digital world?

4

10:00-10:40

Panel 2:  
Cybersecurity – A non-  
negotiable to  
protect your digital assets

Cybersecurity and privacy are a top concern for people and companies. What are the tools available to secure your company or country's digital assets? Is this an emerging monetization opportunity for service providers to manage enterprises' network threats?

5

11:10-11:50

# Agenda – Workshops AM

11:50-13:00

## Workshop 1A: Reimagine cybersecurity

With the proliferation of IoT, digital assets face the risk of being compromised. Ensuring cybersecurity is now part of delivering an optimal user experience. What can governments, CSPs and enterprises do to protect end-users from these threats?

## Workshop 1B: Reimagine network & operations

The future network has to be adaptable to manage complexity and constantly evolving needs, yet at the same time be scalable and efficient enough to ensure network and service quality. What should CSPs consider as they modernize their network for tomorrow's needs?

## Workshop 1C: Reimagine partnerships

In the digital world, companies rely on focusing on their core competence and leveraging on external partnerships to deliver innovative products and services. How can companies ensure successful partnerships and avoid pitfalls when forming partnerships?

# Agenda – Plenary PM

## Nokia: Four practices to shape future networks

14:00-14:20

6



## Panel 3: Powering virtualized services

Successful and secure transformation to cloud is a complex but pertinent task for any operator. Virtualized services will not only enable new services, but also new delivery models (e.g. Everything-as-a-Service). How do service providers select the right transformation strategy to build their revenue drivers and business case for cloud-based solutions using new technology skills and processes?

14:20-15:00

7

## Panel 4: The reality of frontier technologies

Frontier technologies such as AR/VR, AI and robotics are expected to shape the world of tomorrow. In reality, what types of use cases can frontier technologies be applied in future world? When will technologies become mainstream? How will industries and business sectors evolve with the emergence of these technologies?

15:00-15:40

8

# Agenda – Workshops PM

16:00-17:15

## Workshop 2A: Reimagine Transportation

Modern transportation systems demand intelligent communication network. Which use cases would you see emerge in the next 3-5 years? How will the future of network evolve to support the challenges in the transportation sector?

## Workshop 2B: Reimagine smarter & safer cities

Technology is empowering cities to respond quickly and flexibly to demographic shifts, economic demands, and security threats. Intelligent infrastructure and applications will be designed for such challenges. How can future technology enable smarter and safer cities?

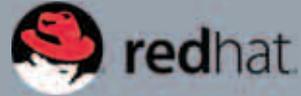
17:30-18:30

Demos & Cocktails

# Demo Showcase - description

Path to 5G	1 Demo		This demo provides a virtual journey into 5G. It showcases how key 5G technologies work together to support the extreme requirements of new applications for ultra-high data rates and almost infinite capacity. Use cases include ultra-reliable, low latency communications to enable self-driving vehicles and connectivity for a huge number of sensors. The simulation runs through a detailed study using Manhattan as an example and looking into how the network deployment evolve as capacity demand increases over time.
OZO Virtual Reality	2 Demo		OZO Live is a unique broadcast solution that combines the world's first purpose-built Virtual Reality (VR) camera with a best-in-class live streaming platform to deliver proven, broadcast-quality VR experiences at scale. In the OZO Live server demonstration, we connect the camera to the server and show the real time processing of the OZO live video feed to the user wearing the VR headset.
Mission Critical Communications	3 Demo		Nokia Group Communications is a service with Push-to-Talk and Push-to-Video support used by first responders, public safety agencies and even enterprises for mission and business critical communications. This application facilitates increased collaboration among team members and better situational awareness at the command center / mission control for an effective operation.
IoT connectivity and use cases	4 Demo		The IoT connectivity options arena is crowded and one option does not fit for all operators as well as enterprises' needs. This demo shows the requirements (e.g., multinational coverage, number of devices per node, high throughput, long battery life, etc) of various use cases and which IoT networks could possibly be the best match. We will also demonstrate various IoT use case for transportation including cold chain logistics, connected rental car and V2X car platooning.
Cybersecurity	5 Demo		IoT security provides a new level of protection by timely and accurate detection and mitigation of cyber attacks. This demo highlights the detection of attacks and automated response to keep the quality of network and services high, as well as the proactive solution to secure IoT devices. Cloud security orchestration showcases how distributed denial of service (DDoS) attacks against mission-critical cloud services are detected and responded to with analytics-driven, automated end-to-end security policies.
Cloud Automation	6 Demo		After years of telco cloud hype, operators want to see real products working and want to see automation and agility gains happen in real life. In our demo, we are showing the deployment of a VoWiFi service on a telco cloud in real-time, with commercially available products (VNFs, AirFrame, CloudBand, Nuage). Live VoWiFi connected mobile phones will prove operational reality. The technical solution will make use of slicing technology, which is one of the most discussed cloud technologies in the context of 5G.
Integrated Operations Center	7 Demo		Centralized situation management solution for smart and safe cities. The demo shows how public safety agencies is provided with a consolidated view across different areas of an entire city, with data feeds and alerts from various public safety systems and applications. This helps enhance situational awareness and improving decision making through aggregation of multiple application and system data sources, and streamlines operational processes to improve first responder response time through automated workflows.
Smart City	8 Demo		Cities become 'smarter' when sensors are digitized and become hyperconnected. Nokia's "Sensing as a service" solution collects environmental data from sensors inside and outside of the telecom site on a real-time basis. This brings operators new data monetization opportunities enabling them to offer real-time processed and visualized environmental data.

# Key speakers



eden strategy institute



Sandeep Girotra  
Senior Vice President  
Asia Pacific & Japan



Zoltan Losteiner  
Head of Market  
E2E Solution, Asia Pacific &  
Japan



Kent Wong  
Vice President, IP Optical  
Network, Asia Pacific & Japan



Vishal Singh  
Head of Application & Analytics,  
Asia Pacific & Japan



Thomas Schneider  
Head of Services,  
Asia Pacific & Japan



Danial Mausoo  
Head of Marketing &  
Corporate Affairs,  
Asia Pacific & Japan



Gerald Reddig  
Product Marketing Manager

...and more



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