



Please note: this is a draft program and speakers are to be confirmed unless otherwise stated

May 31 2017
DAY ONE

08:45 – 09:30 **Registration & Welcome Coffee**

09:30 – 09:50 **Welcome remarks**
Nigel Jefferies, Chairman, WWRF (**confirmed**)
David Farnes, General Manager, RABC (**confirmed**)

Session 1 Keynote Presentations

09:50 – 10:10 **Keynote Presentation**
The Honourable Navdeep Bains, Minister of Innovation, Science and Economic Development, Canada (tbc)

10:10 – 10:30 **Keynote Presentation**
Representative, FCC (tbc)

10:30 – 10:50 **Keynote Presentation**
George Cope, CEO, Bell Canada (tbc)

10:50 – 11:15 **Morning Coffee**

Session 2 Preparing for lift-off – realizing the 5G innovation opportunities

5G will bring about fundamental changes in the way society and businesses function and how citizens live. It will drive innovation in vertical markets everywhere. But even the most innovative carriers are not expected to use 5G commercially before 2020, and large-scale 5G rollout will most probably take even longer. With this in mind, this session will set the scene and look at what needs to be done now by all stakeholders to set the groundwork and ensure that we are prepared to capitalise on the opportunities and benefits ahead.

- *How can it be ensured that 5G is achieving its potential on delivering innovation and creating an intelligent society?*
- *How will the requirements from 5G networks vary across vertical industries, and how can operators and providers ensure that they are prepared to meet these and deliver a top-level customer experience every time?*
- *What work needs to be done over the next few years as we move towards the launch of the first commercial 5G networks, and further forward towards the wide-scale uptake of 5G technologies?*
- *What are the key challenges that policymakers and stakeholders need to overcome?*
- *What is the best path from 4G to 5G and what role do stepping-stone technologies such as 4.5G and 4.9G have in establishing a smooth path for operators?*

11:15 – 12:30 **Panel Discussion**

Pearse O'Donohue, Acting Director, Directorate E – Future Networks, DG Connect, European Commission (tbc)

Oscar León, Executive Secretary, CITELE (tbc)

Marcus Weldon, President, Bell Labs; and CTO, Nokia (tbc)

Representative, Car Manufacturer (tbc)

Representative, Vertical Industry (tbc)

12:30 – 13:40 **Lunch**

Session 3 The global picture: Reaping the benefits of 5G for all

All around the world, countries and regions are working to prepare for 5G, but there is a huge diversity in the stage that different countries are at and the progress that has been made. Countries in the developed world are pushing forward at great speed with the preparation for launch (with many such as the US, Japan and South Korea battling to be first-mover), whilst in the developing world, countries are balancing preparation for the arrival of 5G with the roll-out of 4G networks and other related tasks. 5G needs to be a technology for all however, and this afternoon's sessions will look at how the benefits can be maximised by all citizens and businesses, wherever they are located.

13:40 – 14:00 **Introductory keynote presentation: The need to work together to avoid another LTE patchwork**

Representative, Huawei (tbc)

Session 3.i The race for the 'first-mover' advantage

The race to 5G deployment is intensifying and companies and countries around the world are jockeying for "first mover advantage" to establish themselves as leaders. But with 5G standards still not finalised, there are risks as well as benefits involved in being the first mover. This session will look at this in more detail, and at the value of winning the 5G 'race', and the possible implications for both those who do and those who don't.

- *Who are likely to be the first adopters of 5G technology?*
- *What will be the benefits of being the first mover and having operators get vendors to manufacture to their specifications, what will the consequences be for those who are not?*
- *To what extent is this likely to influence discussions at WRC-19?*
- *How much of a gamble is it for operators to invest heavily in 'pre-standard' 5G and to what degree can those pushing to be 'first-mover' accurately predict at this early stage the elements that will be required to achieve the always on, always connected 5G world?*
- *Is it a risk worth taking, or are there actually advantages to those who are not first, enabling them to be the 'best'-mover instead of the 'first'-mover?*

14:00 – 15:30 **Panel Discussion**

Representative, Verizon (tbc)

Ibrahim Gedeon, Chief Technical Officer, Telus (tbc)

Alex Jin-Sung Choi, Chief Technology Officer and Head of Corporate R&D Center, SK Telecom (tbc)

Representative, Policymaker (tbc)

15:30 – 16:00 **Afternoon Coffee**

Session 3.ii Maximizing the benefits of 5G in developing countries

Whilst in many developing countries the priority for stakeholders is often currently on the roll-out and delivery of 4G services, there is also the need for regulators and stakeholders to start thinking about 5G. Without this, they risk being left behind as others push ahead in 5G preparation. This session will look at the potential that 5G offers developing regions, and at what work needs to be put in now to ensure that this is maximised.

- *What should countries in the developing world be doing now to ensure that they are not left behind in the roll-out of 5G technologies?*
- *What potential does 5G offer to drive forward economic growth and deliver social benefits in developing regions?*
- *How can it be ensured that the benefits are felt in outlying areas as well as in cities, and what can 5G do to help narrow the digital divide?*

16:00 – 16:15 Keynote Presentation

Malcolm Johnson, Deputy Secretary General, ITU (tbc)

16:15 – 16:30 Presentation

Galiem Ouedraogo, Head of Radio Spectrum Planning and Coordination Service, ARCEP (tbc)

16:30 – 16:45 Presentation

Antonio Garcia-Zaballos, Telecommunications Lead Specialist – Leader of the Broadband Program, Inter-American Development Bank (tbc)

16:45 – 17:00 Presentation

Representative, Latin America (tbc)

17:00 - 17:30 Panel Discussion with all speakers

18:00 – 20:00 Evening reception

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DAY TWO**

Session 4 Maximizing the potential of 5G for Canada

On the occasion of Canada's 150th birthday, this session will explore the current state of play for 5G in Canada, as well as what needs to be done going forward to maximise its potential for Canadian citizens.

09:00 – 09:05 Introductory Video - a Canadian history of achievements in communication

09:05 – 09:45 Fireside Chat

Corinne Charette, Spectrum, Information Technologies and Telecommunications, Senior Assistant Deputy Minister, Innovation, Science and Economic Development, Canada (tbc)

Sir Terry Matthews, Chairman, Wesley Clover (tbc)

Session 5 Built-in not bolted on – ensuring secure 5G networks

Large amounts of information will be sent over the 5G network and that data must be secured and protected both in transit and at its destination. Given that 5G standards have not yet been set, there is an opportunity now to design 5G networks with security already built into them. Patches will always be needed, but a network with security built in will be more secure than one where security is a patched-on afterthought. This session will look at how best 5G networks can be secured, and at how to ensure that security is an intrinsic part of the 5G eco-system, and not simply an afterthought.

- *How best can a future-proof secure 5G network be ensured, and what work needs to be done now to prepare for this?*
- *Can 5G security be a carbon copy of 4G security or will fundamentally new security requirements be needed?*
- *If the latter, how should they be identified?*
- *How is the threat-landscape evolving and what can industry and policymakers do to keep up with this?*
- *How can a secure 5G environment help to increase consumer confidence in 5G technologies and speed up its widespread adoption?*

09:45 – 09:55 **Opening Presentation**

Ann Cakouvia, Executive Director of the Privacy and Big Data Institute, Ryerson University and Former Commissioner of Information and Privacy, Ontario (tbc)

09:55 - 11:00 **Panel Discussion**

Anand R. Prasad, Chairman of 3GPP SA3; Chief Advanced Technologist, Executive Specialist, NEC Corporation (**confirmed**)
Representative, Symantec (tbc)
Representative, CISCO (tbc)
Representative, Policymaker (tbc)

11:00 – 11:20 **Morning Coffee**

Session 6 **Developing a spectrum 5G strategy: Preparing the network and promoting innovation**

Spectrum remains one of the most complex yet essential components of the 5G puzzle. A coherent spectrum policy is crucial in order for the potential of 5G in boosting the next generation of mobile innovation to be realised. This leaves regulators around the world facing some vital decisions on band plans and the timing of release. This session will look at these questions and more, and at the best way forward.

- *To what extent is there a need for carriers to redefine network capabilities in preparation for 5G roll-out, and where do the priorities lie in aspects such as the establishment of software-defined architecture and the development of Big Data operation capabilities?*
- *How can it be ensured that the required connectivity is available?*
- *What mix of spectrum below 6GHz, in the millimeter bands and in other frequencies will be required to achieve this?*
- *Which bands are likely to see 5G deployment first?*
- *Should regulators be holding back spectrum in anticipation for 5G technologies to arrive, or should they be looking to release additional capacity as soon as possible to promote innovation and ensure that organisations are ready to exploit it?*

11:20 – 12:40 **Panel discussion**

Philip Marnick, Chairman, RSPG; and Director of Spectrum, Ofcom (tbc)
Cindy Cook, Chair, ITU TG 5/1, Government of Canada (tbc)
Representative, GSMA (tbc)
Representative, ESOA (tbc)

12:40 – 14:00 **Lunch**

Session 7 **Measuring the success of 5G**

5G promises exponentially faster speeds, higher capacity, lower latency and more throughput than today's networks. It will support billions more devices and connections per cell than current networks. But with so many promises and predictions being made about 5G, which of these will actually come true? This session will look at this question and at what 5G needs to deliver in order to be considered a success in terms of network performance and customer experience.

- *What are the most important innovations we can expect with 5G?*
- *How will the success of 5G be assessed?*
- *What will be the key performance indicators that are likely to be the yardstick for measuring 5G services?*
- *And what are the factors that need to be in place to ensure that these expectations are realised?*
- *What will 5G mean for the consumer and what groundwork needs to be put in now to ensure acceptance and education on how to best realise the benefits?*

14:00 – 15:30 **Panel Discussion**

Bruce Cran, President and Director, Consumers' Association of Canada (tbc)

Professor Rahim Tafazolli, Director of 5GIC, University of Surrey (tbc)

Brian O'Shaughnessy, SVP Technology Services, Freedom Mobile (**confirmed**)

15:30 – 15:45 **The Last Word – Conclusions and Summary**

Nigel Jefferies, Chairman, WWRF