

15th EUROPEAN SPECTRUM MANAGEMENT CONFERENCE

23 - 29 June 2020

Virtual debates, networking & discussion ▶

ForumEurope : ForumVision

*All times listed in the agenda below are CEST.

DAY 1 – TUESDAY 23 JUNE

12.45 **Platform opens**

12.45 – 13.30 **Networking opportunities and private meetings**

SESSION 1: Spectrum Strategies and Visions in Europe

13.30 – 13.35 **Welcome and Introduction**
Dan Craft, Managing Director, Forum Europe

Moderator: **Richard Womersley**, Director, Spectrum Consulting, LS telcom

13.35 – 13.40 **Keynote Presentation**
Thierry Breton, Commissioner for Internal Market & Services, European Commission

13.40 – 14.00 **Thinking Point: Will differences in spectrum pricing lead to divergent 5G deployment in EU member states?**
Stefan Zehle, Co-Founder & CEO, Coleago

14.00 – 14.30 **'Make your introductions' discovery and networking session**
'Check in' at all stands + make 5 new connections in the networking area for your chance to win an iPad!

14.30 – 15.30 High-level Policy Panel: Where next for the new Commission?

The European electronic communications code was adopted in late 2018 and included updates rules for the management of spectrum in Europe. Building on this, in February this year, the Commission issued a request to the RSPG for an opinion on a new Radio Spectrum Policy Programme (to update the last one, which was adopted in 2012). Focussing on these key policy packages and more, this session will bring together key policymakers from a member state and EU level to look at the key challenges, opportunities and priorities ahead for spectrum policy in Europe.

- What progress has been made with the implementation of the spectrum aspects of the Communications Code into national legislation in member states across Europe?
- Where are we now at with 5G deployment in Europe, and what are the next steps and the roadmap ahead? What should be the priorities for the new Commission be to build on the Communications Code and other recent legislation to deliver on these key objectives?

- What work has been done by the Commission to streamline the process for the roll-out of small cells and to what extent will this help to speed up the densification of networks and ultimately 5G rollout around Europe?
- Is it time for a new RSPP, and if so then what should the key objectives and priorities be?

Moderator: **Richard Womersley**, Director, Spectrum Consulting, LS telcom

Panellists:

Andreas Geiss, Head of Unit for Spectrum Policy, European Commission

Andreana Atanasova, Vice-Chair, RSPG & Deputy Minister of Transport, Information Technology and Communications, Bulgaria

Gilles Bregant, Director General, ANFR

Jonas Wessel, Head of Spectrum Dept, PTS & Chair of Sub-Group on RSPP, RSPG

15.30 – 16.15 **'HAVE YOUR SAY...'**

Open and interactive discussion – audience members will have the chance to take the floor and give their thoughts on the discussions that have taken place in the previous panel.

16.15 – 17.00 **Showcase Session 1**

Stage 1: **Expanding 5G to Reach its Full Potential** (hosted by Qualcomm)

Stage 2: **Spectrum - the Answer to Europe's Connectivity Questions?** (hosted by ESOA)

Stage 3: **Valuing and Assigning mmWave Spectrum** (hosted by Coleago)

DAY 2 – WEDNESDAY 24 JUNE

12.45 – 13.30 **Platform open – networking opportunities and private meetings**

13.30 – 13.50 **Thinking Point: Unleashing the ‘Killer Apps’ for 5G**
Bruno Cendon Martin, Director of Wireless - AR\VR HW, Facebook

SESSION 2: The future of Spectrum Management: The role of sharing, technology and other innovative tools to increase spectrum efficiency

Recent advances in technology and in the regulatory environment mean that today, increasingly complex and sophisticated models for spectrum management are being put forward, for example Licensed Shared Access (LSA), the three-tiered Citizens Band Radio Service (CBRS) model and a revolutionary localised sharing model recently introduced in the UK. This session will explore these and other innovative approaches and look at the potential that they offer, as well as more broadly exploring the importance of technology to support and enable spectrum management in the digital age. It will also look at the traditional spectrum regulatory regime and discuss whether it is sufficiently flexible to meet the requirements of an innovative and fast-moving sector or whether a rethink on this is required.

- To what extent do traditional models of spectrum management offer the flexibility that is required to maximise the potential of spectrum sharing?
- What examples of flexible, shared spectrum models are already being seen and in which bands?
- Does spectrum licencing on a national basis remains the most efficient way to meet demand for new wireless applications, or are there other cross-border approaches involving spectrum sharing that could also be considered?
- What role can cross-border trials play in helping to advance the development of spectrum sharing systems?
- Alongside spectrum sharing, what other innovative options are available to increase spectrum efficiency?
- What is the right role for technology in future spectrum management?
- Is there an argument that there may be a need more broadly for a reconsideration of current spectrum management guidelines to maximise the potential of spectrum sharing and emerging technologies, and help to fully meet the connectivity requirements of a 5G future?

Moderator: **Chris Adams**, Director, Infrastructure, Access Partnership

13.50 – 13.55 **Introduction from Moderator**
Chris Adams, Director, Infrastructure, Access Partnership

13.55 – 15.05 **Panel Discussion**

Mauro Martino, Head of Office for Spectrum Management, AGCOM

Don Stockdale, Wireless Telecommunications Bureau Chief, FCC

Mohaned Juwad, Global Spectrum & Regulatory Policy, ESOA

Jennifer McCarthy, VP, Legal Advocacy, Federated Wireless

Gösta Lemne, Director of Business Development, Ericsson

15:05 – 15:30 **Virtual Networking Break**

SESSION 3: Meeting the needs of all users in the 6GHz band

The 6GHz band has started to emerge as one of the most sort-after frequency ranges for a number of key stakeholders. It is currently used around the world by satellite and microwave systems, but both unlicensed and licensed users are now staking their claim for access to spectrum in the band. Different approaches and positions are emerging in different regions around the world – in the US for example, FCC has taken a decision to allow access to unlicensed users across the entire 1200MHz of the band; whilst in Africa, there is broad support for consideration of at least part of the band for IMT. With the upper portion (6425-7125 MHz) due to be studied ahead of a possible IMT identification in region 1 at WRC-23, this session will look at current thinking and the likely future of the band across Europe, and at how the needs of all the key users can be balanced.

- Where does the balance lie between licenced and licence-exempt use of the 6Ghz spectrum and what approaches in both the upper and lower portions of the band are being seen around the world?
- What is the current thinking and positions in countries across Europe?
- What work is being done by CEPT and the Commission to develop a harmonised EU approach in the band, and to prepare for the discussions at WRC-23?
- To what extent is sharing between IMT and Wi-Fi users in the band a viable option in both indoor and outdoor conditions?
- How can the protection of incumbent satellite and fixed links) services be protected, and could a database approach provide a solution to this?

Moderator: **Johanne Lemay**, Co-President, LYA

15:30 – 15:35 **Introduction from moderator**

15.35 – 16.45 **Panel Discussion**

Mark Gibson, Senior Director, Business Development, Comsearch – a CommScope company

Chris Woolford, Director of International Spectrum Policy, Ofcom

Reza Karimi, Director, Corporate Strategy, Huawei Technologies

Stefan Zehle, Co-Founder & CEO, Coleago

Scott Blue, Principle Program Manager, Radio Spectrum Policy, Microsoft

16.45 – 17:30 **HAVE YOUR SAY...**

Open and interactive discussion – audience members will have the chance to take the floor and give their thoughts on the discussions that have taken place in today's panels.

17.35 – 17.40 **Ask the audience...setting the scene for the next session**

Ahead of tomorrow's session, audience members will be asked to provide their thoughts by voting on a number of key questions relating to preparation and priorities ahead of WRC-23. The questions that will be asked will be the same questions that were posed to delegates at the MENA Spectrum Management Conference earlier this year, allowing for a comparison on the results to be made.

DAY 3 – THURSDAY 25 JUNE

10.30 – 11.00 **Platform open – networking opportunities and private meetings**

11.00 – 11.15 **Keynote Presentation: The post WRC landscape – implementation and next steps**
Mario Maniewicz, Director, BR, ITU

SESSION 4: Looking Forward – key agenda items and prominent issues for WRC-23

With the dust still settling on WRC-19, attention has already moved on to starting to plan for WRC-23. The agenda for this was set by delegates in Sharm-el-Sheikh, and with WRC-19 having now settled a lot of the discussions around mmWave bands, focus is expected to switch to low and mid-band frequencies. In addition, there will likely be a number of key agenda items relating to other sectors and technologies such as satellite, aeronautical and HIBS. This highly interactive session will hear the opinions from key industry stakeholders and the audience in the room more broadly on what they now see as their main priorities, opportunities and challenges ahead of WRC-23; and look ahead at the next steps and timetable ahead as the build up to WRC-23 already begins.

- Following the outcomes of WRC-19, what are now the key priorities, opportunities and challenges for different stakeholder groups?
- What are set to be the most important (and most contentious) issues or agenda items at WRC-23 both for region 1 and globally?
- Will we still be talking about 'spectrum for 5G' when we reach 2023, or will the focus have switched to B5G or 6G?

11.15 – 11.20 **Ask the Audience (Votes asked in previous session)**

A final opportunity for audience members to vote on a number of key questions relating to preparation and priorities ahead of WRC-23; and presentation of results

Moderator: **Andreas Geiss**, Head of Unit for Spectrum Policy, European Commission

11.20 – 12.10 **Fireside Chat**

Alexandre Kholod, Chairman, CPG23, CEPT

Tariq Al Awadhi, Chairman, ASMG

Dante Ibarra, WRC Director, FCC

12.10 – 13.15 **Quick-fire panel discussion**

Representatives from key industry stakeholders will discuss what they see as the key issues for WRC-23.

Moderator: **Mario Maniewicz**, Director, BR, ITU

Jean-Pierre Faisan, Communications Group Chairman, BNE

Jayne Stancavage, Executive Director, Communications Policy, Intel

Patrick van Niftrik, Global Spectrum & Regulatory Policy, GSC

Mats Öhman, Spectrum Manager, TeliaSonera

14.00 – 14.30 **Platform open – networking opportunities and private meetings**

14.30 – 15.15 **Showcase Session 2**

Stage 1: **The Future of 2G & 3G Networks in Europe – a panel discussion with the GSMA, Telenor Norway and the European Commission** (hosted by Huawei)

Stage 2: **Multi-Orbit, Multi-Frequency Satellite Solutions for a Modern Digital World** (hosted by SES)

Stage 3: **Bringing Spectrum Sharing to the 6GHz band** (hosted by Federated Wireless)

SESSION 5: The emerging mmWave ecosystem - A focus on the post-WRC landscape

Around the world, mmWave licences are being awarded for IMT, and services are beginning to be rolled out. And with one of the key focusses at WRC-19 being the identification of additional spectrum for IMT in the mmWave bands, the shape of the future mmWave landscape is starting to emerge. This session will look at this in a little more detail, examining the early results that are being seen where mobile services have already been launched in mmWave bands, and at the future shape of services in these bands more broadly.

- Where have mmWave bands now started to be used for 5G in regions around the world and what results are being seen? What mmWave ecosystem is developing?
- Have early results (particularly, for example, from Verizon in the US) started to change any opinions on the potential of these key bands?
- What is the true demand for mmWave spectrum? Will the increasing availability of mid-band spectrum (and with more in the pipeline for the near future) take the pressure off and mean there is less of a focus on mmWave for IMT?
- How much mmWave spectrum was allocated for IMT at WRC-19 and what will this do to the future mmWave landscape? To what extent has this changed plans within mmWave bands both in Europe and elsewhere around the world?
- What will the new '2-phase approach' for the emission limits in the 26GHz band mean for incumbent and future users of the band and does it strike the right balance between protecting satellite users and enabling the quick and efficient roll-out of 5G? What impact could the decision in Europe to move the transition date forward to 2024 (instead of 2027) have?
- What are likely to now be the key mmWave frequencies in the short and longer term, both in Europe and the rest of the world?

Moderator: **Graham Louth**, Partner, Aetha Consulting

15.15 – 15.35 **Presentation**

Patrick Welsh, Director, Federal Government Affairs, Verizon

15.35 – 16.45 **Panel Discussion**

Branimir Stantchev, Head of Sector, "Spectrum for Wireless Broadband", European Commission

Luigi Ardito, Senior Director of Government Affairs, Qualcomm

Ethan Lavan, Director of Orbital Resources, Eutelsat

Philip Marnick, Group Director, Spectrum, Ofcom

Eric Fournier, Director for Spectrum Planning and International Affairs, ANFR

16.45 – 17.30 **'HAVE YOUR SAY...'**

Open and interactive discussion – audience members will have the chance to take the floor and give their thoughts on the discussions that have taken place in today's panels.

DAY 4 – FRIDAY 26 JUNE

11.00 – 11.35 **Platform open – networking opportunities and private meetings**

SESSION 6: Spectrum for verticals - meeting the connectivity requirements of industries and business users everywhere

A major focus area for regulators all around the world at present is on the best way to provide vertical industry users with access to 5G spectrum. A number of different licencing models are being explored by regulators around the world in order to deliver this, including the option to offer vertical users the opportunity to acquire spectrum directly, through localised 5G licences. This session will explore the pros and cons of the various approaches that are being seen and discuss the best way forward to ensure an sw

- What approaches have been seen in different member states and how do these compare?
- What approaches are being taken in countries outside the EU, and are there any lessons that can be taken from any of these?
- What fee structures are being seen for access, and do these strike the balance between encouraging innovation and ensuring a fair and non-discriminatory approach?
- Taking things a step further, is there an argument for city councils to become spectrum holders?
- Is there an argument that dedicated spectrum should be allocated for IoT?
- Could the approach of reserving spectrum for industry be extended to other bands, for example mmWave spectrum?
- Which spectrum bands would be most appropriate for local licencing to ensure a balance of meeting demand, and how much should be reserved?

Moderator: **Tony Lavender**, Partner and CEO, Plum

11.35 – 11.40 **Introduction from Moderator**
Tony Lavender, Partner and CEO, Plum

11.40 – 12.50 **Panel Discussion**
Heidi Himmamen, Chief Specialist, Traficom
Alexander Kuehn, Head of International Spectrum Affairs, BNetzA
Jan-Hendrik Jochum, Head of Spectrum Policy & Projects, Deutsche Telekom
Daniel Mah, VP Legal & Regulatory Affairs for Asia & EMEA, SES
Final speaker to be confirmed

12.50 – 13.45 **Virtual lunch break and networking session**

13.45 – 14.30 **Showcase Session 3**

Stage 1: **5G Private Networks: Real Life Experiences** (hosted by access partnership)
Stage 2: **How to Kickstart your Auction Preparation: A Demo of LYA Auction Tools** (hosted by LYA)
Stage 3: **Broadband Policy for the 21st Century: A conversation with US FCC Commissioners O’Rielly and Rosenworcel** (hosted by Intel)

SESSION 7: Not just for the 'digital-haves'! To what extent can 5G help to tackle connectivity 'not spots'?

Around Europe, regulators are looking to work with mobile operators and other connectivity providers to help eliminate rural 'not spots' and continue the path towards the ultimate goal of universal coverage. Both directly and indirectly, 5G can play a part in achieving this. Directly, through initiatives to fund the roll-out of additional base stations and provide 5G in currently under-served areas; and indirectly, through the inclusion of 'coverage obligations' (or other agreements) as part of 5G auctions to ensure that winning bidders increase the coverage of 2G, 3G or 4G connectivity in rural areas. This session will look at the different approaches that are being seen in countries across Europe, and at how 5G can ultimately help to close rather than widen the digital divide.

- When can rural areas expect to start benefiting from 5G, and how can it be ensured that 5G does not widen the digital divide?
- What will 5G connectivity in rural areas look like, and how may it differ from that in cities?
- What approaches to tackling rural 'not spots' are being seen in different countries around Europe?
- What role should policymakers be playing in helping to deliver a solution, and what tools are available to them to do this?
- What work is being done to deliver connectivity along roads? By increasing the overall reach of infrastructure, could these then be used as 'branches' to make it easier to then extend connectivity to nearby rural areas?
- What are pros / cons of using coverage obligations as part of 5G auctions to increase rural connectivity, and what other approaches (for example infrastructure sharing) can also be part of the solution?
- How can mobile operators work alongside other public or private actors to improve rural coverage?
- What are the key spectrum bands that can be used and are necessary spectrum requirements in place?

Moderator: **Janette Stewart**, Principal, Analysys Mason

14.30 – 14.35 Introduction from Moderator

Janette Stewart, Principal, Analysys Mason

14:35 – 15:45 Panel Discussion

Philipp Riederer Von Paar, CEO, American Tower Germany - representing EWIA

Emilia Ulelay, Director, Radio Communications Projects, National Media and Infocommunications Authority, Hungary

Ann Vandenbroucke, Global Spectrum & Regulatory Policy, ESOA

Carlos Soto, Senior Manager, Group Market Structure and Network Policy Group, Vodafone

Richard Marsden, Managing Director, NERA Economic Consulting

15:45 – 16:30 HAVE YOUR SAY...

Open and interactive discussion – audience members will have the chance to take the floor and give their thoughts on the discussions that have taken place in today's panels.

DAY 5 – MONDAY 29 JUNE

13.00 – 13.45 **Platform open – networking opportunities and private meetings**

13:45 – 14:30 **Showcase Session 4**

Stage 1: **Considering both economic and social values of spectrum** (hosted by Plum Consulting)

Stage 2: **Ericsson Unboxed: Demonstrations of 5G Technologies** (hosted by Ericsson)

Stage 3: **Discovering the potential of unlicensed spectrum** (hosted by Microsoft)

SESSION 8: Mapping the long-term future of the UHF band in Europe and elsewhere

In Europe, the long-term future of the UHF band is relatively stable, with 700, 800 & 900 MHz bands available for IMT, and an agreement in place providing terrestrial broadcasters with access to UHF spectrum below 700 MHz until at least 2030. Elsewhere around the world however this is not always the case. At WRC-19, there was a proposal from Arab states for a change in the WRC-23 UHF agenda item to propose a harmonised band at 470—694 MHz with a co-primary allocation to IMT. Both Europe and Africa opposed this position and the proposal was rejected, but it is expected to again be one of the key topics for conversation both in the build-up to WRC-23 and at the conference itself. This session will examine the future shape of the UHF band in Europe, in region 1 and globally, and explore what this means for the future development of the terrestrial broadcasting sector and other incumbent users.

- What is the current thinking regarding the short-term and long-term future use of UHF spectrum in Europe, across region 1 and beyond?
- How much UHF spectrum is actually required by mobile operators to meet the coverage requirements of 4G and 5G? How can this be balanced with also meeting the requirements of broadcasters and other incumbent users?
- Given that the sub-700 MHz is available for broadcasting in Europe until at least 2030, are there any actions that can be taken by member states (for example those in which the band is not heavily used by broadcasters) ahead of that date that will allow access to mobile services without disrupting the use of the band for terrestrial broadcasters?
- With a review of the usage and needs within 470-960 MHz UHF band in Region 1 on the agenda for WRC-23, what work needs to be done in study groups in order to prepare for this?
- To what extent should approaches in other regions (for example the Americas, where US and other countries have allocated 600MHz for IMT) have any impact thinking in region 1?
- To what extent are there possibilities for sharing between IMT and incumbent users of the UHF band, and what challenges are there to this? Would making the frequencies available on a paired (FDD) or an unpaired (TDD) basis make any changes to this?

Moderator: **Mark Colville**, Principal, Analysys Mason

14.30 – 14.35 **Introduction from Moderator**

Mark Colville, Principal, Analysys Mason

14.35 – 15.45 **Panel Discussion**

Jeremy Godfrey, Commissioner, ComReg, & Vice Chairman, BEREC

Mohammed Alabdulqader, General Manager, Radio Spectrum Monitoring, CITC Saudi Arabia

Ulrich Rehfuess, Head of Spectrum Policy, Nokia - Representing GSA

Jaume Pujol, Chair, Policy Working Group, BNE

Andreas Wilzeck, Head of Spectrum & Innovation, Sennheiser

15.45 – 16.15 'HAVE YOUR SAY...'

Open and interactive discussion – audience members will have the chance to take the floor and give their thoughts on the discussions that have taken place in today's panels.

16:15 – 17.15 It's a Wrap...!

Key stakeholders to provide conclusions and takeaways from the event, followed by a closing reception, with live music (hosted by BNE) & the draw to find who wins an iPad!

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