

UK SPF Plenary

22 October 2020

Please submit questions via the Q&A function

13:00-15:00 UK Time

Welcome address

David Meyer, UK SPF

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A dive into the Shared Rural Network

Ben Roome, CEO, Digital Mobile Spectrum Ltd (DMSL)

Cost-benefit analysis on full 5G – UK market summary

Gabriel Solomon, Ericsson and Luigi Ardito, Qualcomm

Summary of the recent UK SPF Steering Board

Tony Lavender, UK SPF and Plum Consulting

Update from the UK SPF Clusters

- Saul Friedner, UK SPF Cluster 1 and LS Telcom
- Stephen Temple, UK SPF Cluster 2 and University of Surrey 5G IC
- Tony Lavender, UK SPF Cluster 3 and Plum Consulting
- Kumar Singarajah, UK SPF Cluster 4 and Euroma

Summary and close

David Meyer, UK SPF

A dive into the Shared Rural Network

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Summary of the recent UK SPF Steering Board

Tony Lavender, **UK SPF** and **Plum Consulting**

Steering Board meeting

- Two Steering Board meetings have taken place since the last plenary on 9th July and 8th October 2020
- Strategy statement on the website has been updated
- Research study – agreement on scope of 26 GHz study, tendering and selection process carried out – Real Wireless are the selected tenderer
- The SB is considering proposals for further research studies and likely candidates will be selected at the next SB meeting to be held in January 2021
- Good progress with establishing cluster meetings – details to be covered by the cluster chairs

uk spectrum policy forum

Board members

DCMS | MOD | Ofcom | BT | Digital UK | Huawei | Nokia |
Plum Consulting | QinetiQ | Qualcomm | Real Wireless |
Telefonica | Vodafone |

SPF strategy

1. Providing a positive influence on the UK position in international spectrum forums:
 - Working with Government and Ofcom to promote UK positions to secure international agreements that enable the UK to capitalise on the value of spectrum.
 - Exploring ideas for improving the WRC process and starting work with Ofcom and industry on WRC23 issues.
2. Being an effective advocate for spectrum users with Government to ensure that spectrum remains high on their agenda:
 - Advocating the role of spectrum in addressing the big challenges facing society in the next 10-15 years, including examining the implications for vertical policy interests such as transport and telemedicine
 - Advising on the consequences for spectrum users of adopting specific policies, for example with respect to the future of different mobile technologies
3. Progressing our other longer-term goals:
 - Exploring the opportunities for using the millimetre wave bands for IMT and other applications
 - Developing 'protocols' for transmission and receiver equipment which support more efficient use of spectrum
 - Promoting flexible spectrum access methods, including considering when authorisation mechanisms should provide for exclusive use

Chair of the Steering Board

- Tony Lavender standing down as chair of the Steering Board but remains Cluster 3 chair and a Steering Board Member
- The deputy chair, Dr Abhaya Sumanasena will take over the as Steering Board chair at the next meeting

Update from the UK SPF Clusters

- Saul Friedner, **UK SPF Cluster 1** and **LS Telcom**
- Stephen Temple, **UK SPF Cluster 2** and **University of Surrey 5G IC**
- Tony Lavender, **UK SPF Cluster 3** and **Plum Consulting**
- Kumar Singarajah, **UK SPF Cluster 4** and **Euroma**

Cluster meetings – Q3/Q4

Satellite event
- Q4

Cluster 1 - Future Spectrum Demand *Chair: Saul Friedner*

Industry verticals and spectrum demand

1. Three workshops held this year (Transport, COVID-19 related, Space)
2. Summarise this years' workshops in progress
3. Start to look at next year's programme including focus on specific areas of demand e.g. mmWave band
4. Decision on final Cluster 1 workshop this year on Space – Positioning and navigation

Cluster 2 – Spectrum Access & Sharing *Chair: Prof Stephen Temple*

1. Focus on spectrum sharing issues that are DCMS priorities and where they seek our advice
2. Turn these into projects with deliverables

26 GHz event
to follow on
from the 26
GHz study –
Q4

Cluster 3 – Spectrum Value and Efficiency *Chair: Tony Lavender*

1. If there is a DCMS study in this area respond to it
2. Upfront fees and tax

Social value
event – Q3

Public sector
spectrum
release –
sharing
defence
spectrum – 29
October

Cluster 4 – International *Chair: Kumar*

The main international events effecting spectrum

1. WRC-19
2. Dynamic Spectrum Access and Sharing

July/August session on WRC 23 AI 1.5

September session on WRC 23 A1 1.2/13

Update from Cluster 1

Saul Friedner, UK SPF Cluster 1 and LS Telcom

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Update from Cluster 2

Stephen Temple, UK SPF Cluster 2 and University of Surrey 5G IC

Report to the Plenary Meeting from Cluster 2 Chairman

Prof Stephen Temple CBE, University of Surrey, 5GIC

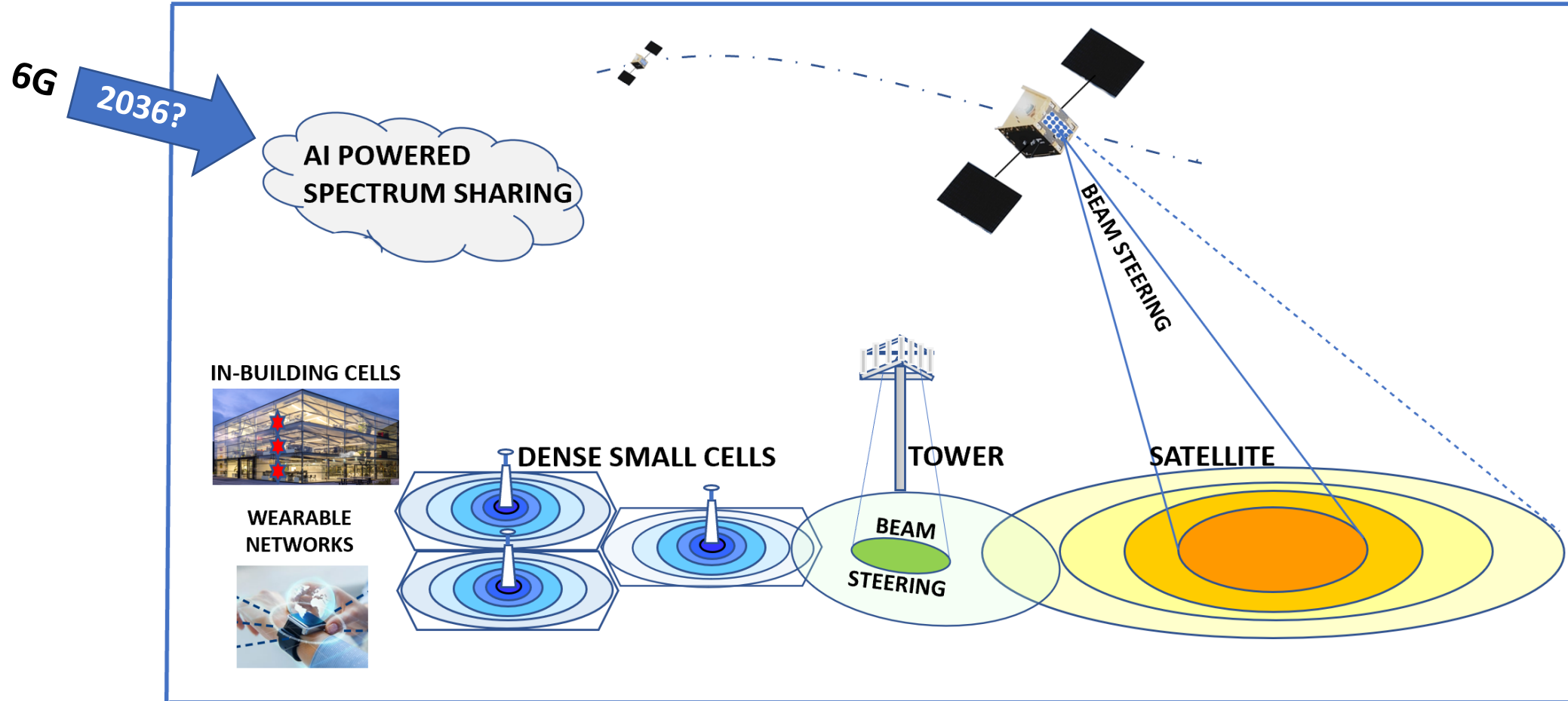
<u>Past</u>	3 from 4 projects completed (Addressing questions from DCMS)	26 GHz sharing study Use it or lose it DSA functional spec Indoor/outdoor sharing	Ground breaking Competent Controversial Stalled (Covid lockdown)
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Present Treading water until the Ofcom 5G spectrum auction is over
Providing support to the 26 GHz sharing follow-up study

Future Some great successes have come from spectrum managers thinking 10-20 years ahead. Eg, the *first mention of spectrum for GSM was in 1975...GSM (2G) was launched in 1991 (16 years later) and transformed the world for the better.*

If we believe *spectrum sharing* can change the world for the better, what do we think it should look like in a 6G era (say 16 years from now) ?

6G Network of Networks in 2035



The UK's first important conversation on "6G" is taking place at a 5GIC/ETSI Conference* on 12th November and may give us some ideas to think about for the New Year...

* On-line conference is free

Update from Cluster 3

Tony Lavender, **UK SPF Cluster 3** and **Plum Consulting**

Cluster 3

- Meeting on 29th October on public sector spectrum release and sharing of defence spectrum
 - This event will explore a possible method for how public sector and in particular Defence spectrum could be accessed by users on a shared basis and the mechanisms required to enable this
- Taking account of social value in spectrum allocation decisions
 - To revisit the work done by the DCMS Expert Panel on social value and to review current ideas and practice in this area 5 years after the study report

Update from Cluster 4

Kumar Singarajah, **UK SPF Cluster 4** and **Euroma**

Update from Cluster 4 (K.Singarajah / Euroma)

Two events held –

- September 8 - WRC-2023 AI 1.5 / Below 1 GHz (Mobile, Broadcast, PMSE etc)
- September 16 – WRC-2023 / AI 1.2 & 1.3 / 3 GHz Topics (Mobile, IMT, FSS etc)

Conduit Role to techUK Licence Exempt / Sharing Working Group

Next planned event (late November – TBD date):

- WRC-2023 Satellite Topics [Mobility – ESIMs in Ka and Ku bands]

2021 Initial Work Plan

- Two Workshops on H1 2021
- Questionnaire (issued early Jan 21) on WRC-2027 agenda items.

Summary and close

David Meyer, UK SPF

Next event

Public sector spectrum release – sharing defence spectrum

Thursday 29 October | 10:00-12:00 BST | Online

Contacts

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