



Strategic Command
Defence Digital

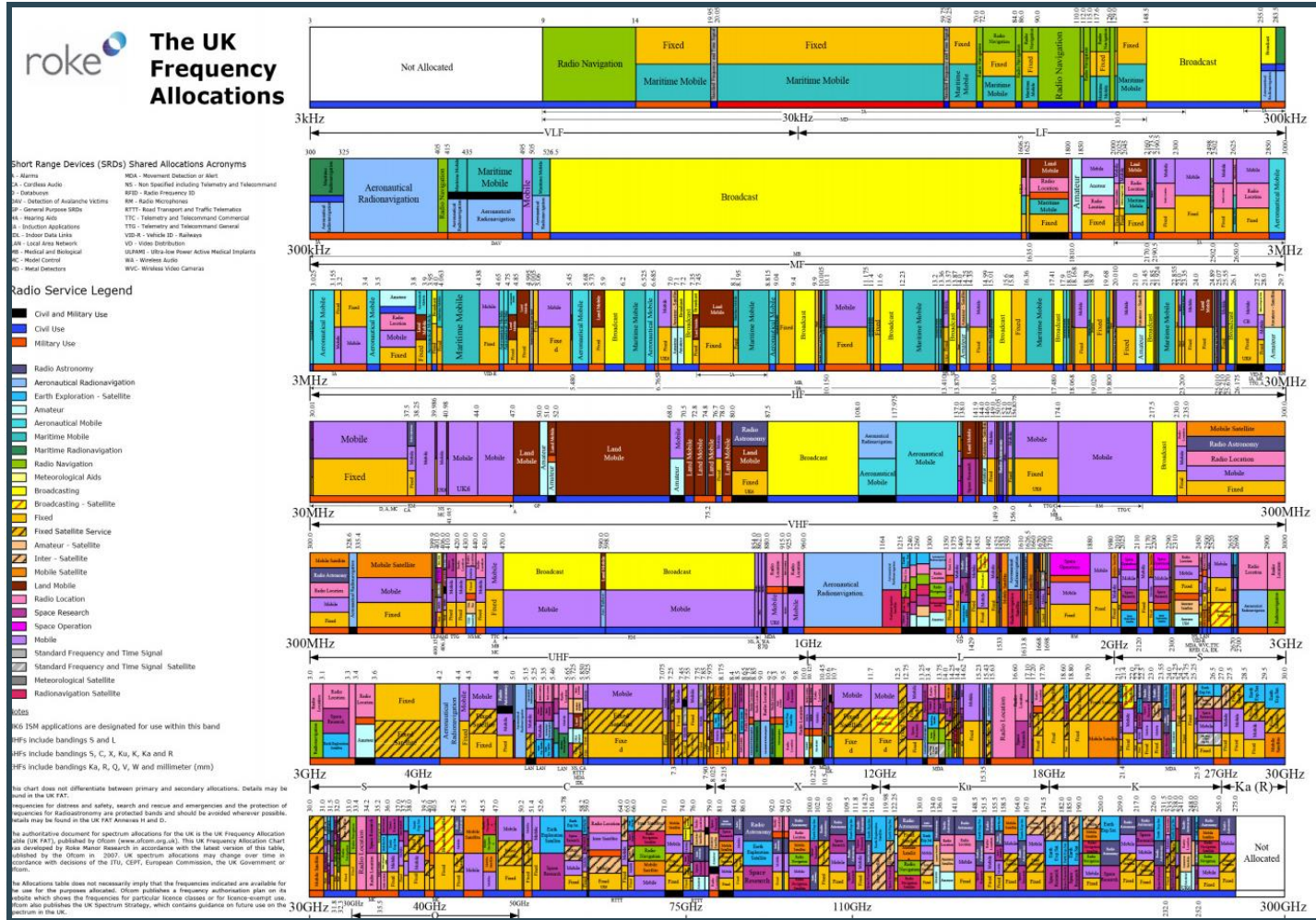
Global Perspectives on Spectrum Sharing

The Defence View.....

The Electromagnetic Environment is.....



Electromagnetic Spectrum - Challenge



UK frequency allocations table is very complicated, most frequency bands are shared.

80 - 90% of military bands are shared.

Release or sharing projects are difficult, costly and take a long time to complete.

All future projects are likely only to consider sharing.

Defence Spectrum Policy



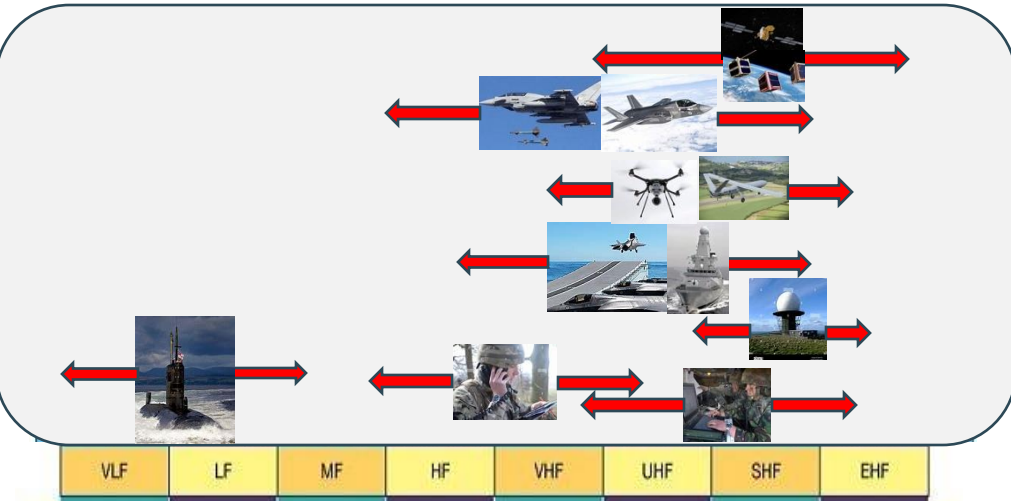
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Department for
Science, Innovation
& Technology



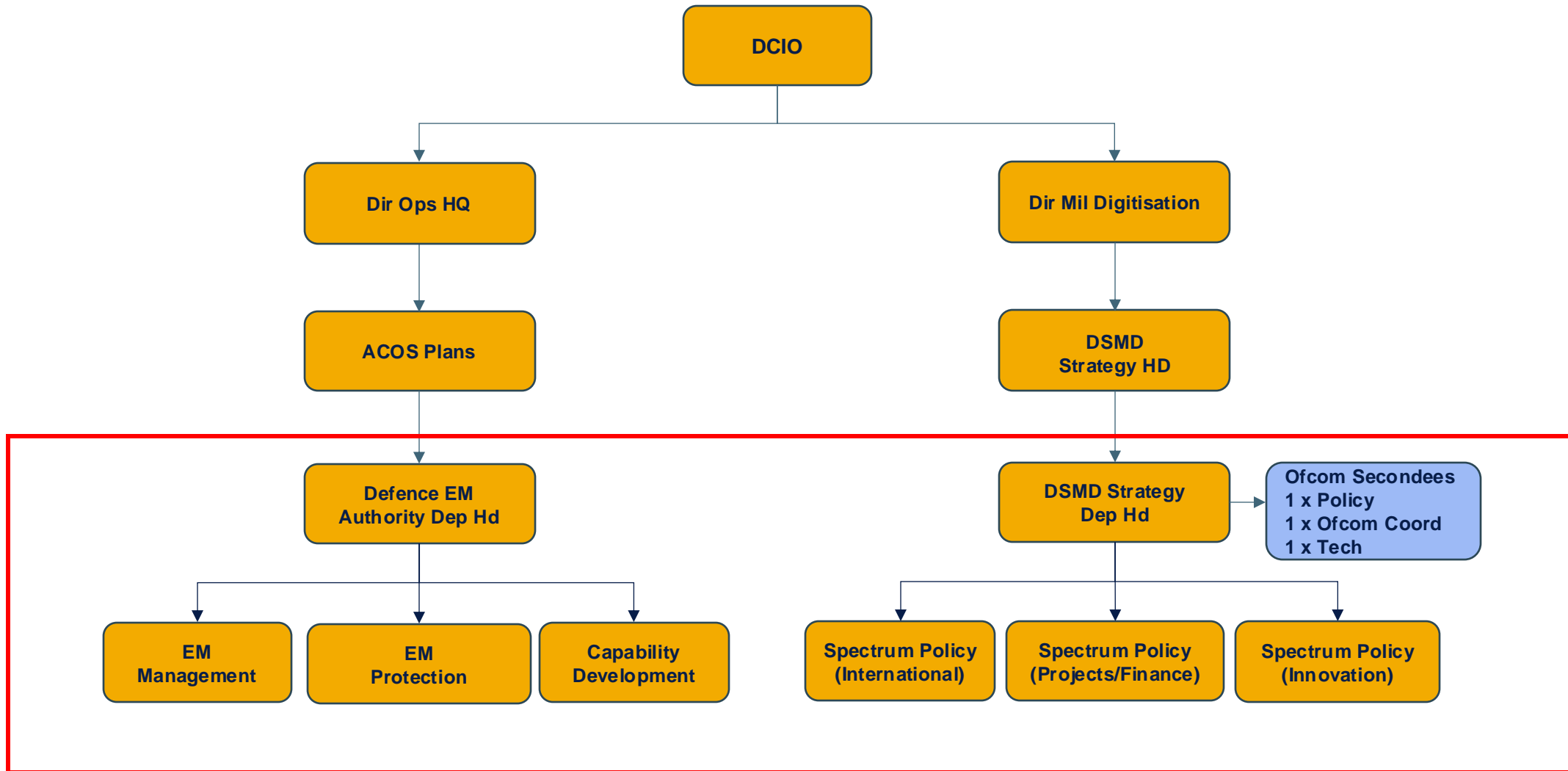
Public Sector Spectrum Release Programme
Closed in December 2023
Had set targets and timescales
Made 687 MHz available to civil users

Public Sector Spectrum Access Programme
Opened in Jan 2024
Business as usual activity
No timescales and no targeted bands



Defence Electromagnetic Authority
DEMA

Defence Spectrum Structure





Defence/Ofcom Relationship



Ofcom and MOD working in close partnership



**Have vetted members of Ofcom who interface with the MOD
Spectrum Policy team**



Sharing of information including classified details



Talking the same language



3 Ofcom secondees work part-time on spectrum issues



The Public Sector Spectrum Access Programme is a BAU activity

Future sharing with MOD

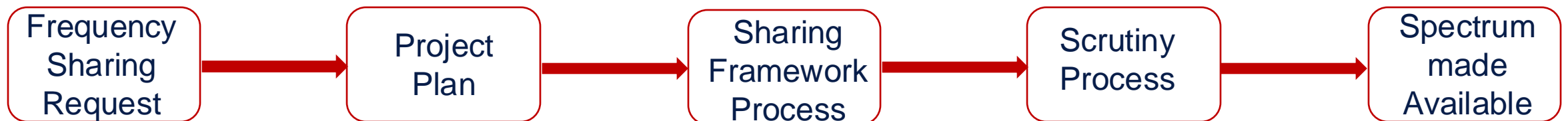
Innovation – New ways to share spectrum, through technical innovation and/or through policy.



Investigate - We should consider DSA but recognise surety of access is also important, Cognitive radio techniques and maybe leverage on the CBRS system implemented in the USA.

The Department for Science, Innovation and Technology (DSIT) - In the Autumn Statement 2023, it announced funding for a series of regulatory sandboxes, including three spectrum sandbox projects to explore enhanced spectrum sharing in the UK.

Revised Sharing framework - This joint agreement brings together the lessons learnt from previous projects and formalises them into one document. This agreement will allow sharing both ways because the MOD needs access to more spectrum too.





National Spectrum Centre

The NSC is struggling to attract students to attend their MSc in Radio Spectrum Engineering [F935].

Experts in the field are mainly middle-aged men; this needs to change!

The NSC are considering developing continuing professional development (CPD) modules to help fill that gap.

Young people are looking for Degree Apprenticeships instead of incurring debt attending university.

Industry could leverage on the NSC course to develop their own degree apprentices.

<https://www.aber.ac.uk/en/study-schemes/deptfuture/F935-MSC/>

