



Radiocommunication Agency
Netherlands

post switch over in Northsea Region

Aljo van Dijken
Senior Advisor
International
Spectrum Affairs

6 May 2015



contents

- ❖ *post switch-over phase*
- ❖ *a regional approach*
- ❖ **WEDDIP**
- ❖ *Netherlands post-switch-over situation*



regional approach

- ✓ Chester '97 (CEPT): technical criteria, coordination principals and procedures
- ✓ RRC-2004 (ITU):
 - Preparatory Conference:
 - "Intersessional Planning Group" (IPG):
develop draft plans;
 - "Planning eXercise Team" (PXT):
planning exercises;
 - "Regulatory / Procedural Group" (RPG):
regulatory and procedural issues.
- ✓ RRC-2006 (ITU): Regional Radio Conference on the Revision of the Stockholm agreement



regional approach

- ❑ freeing up process is:
 - very time consuming
 - very complex

- ❑ in stead of 'overall' approach:
 - (sub-)regional approach:
 - WEDDIP (*Western European Digital Dividend Implementation Platform*)

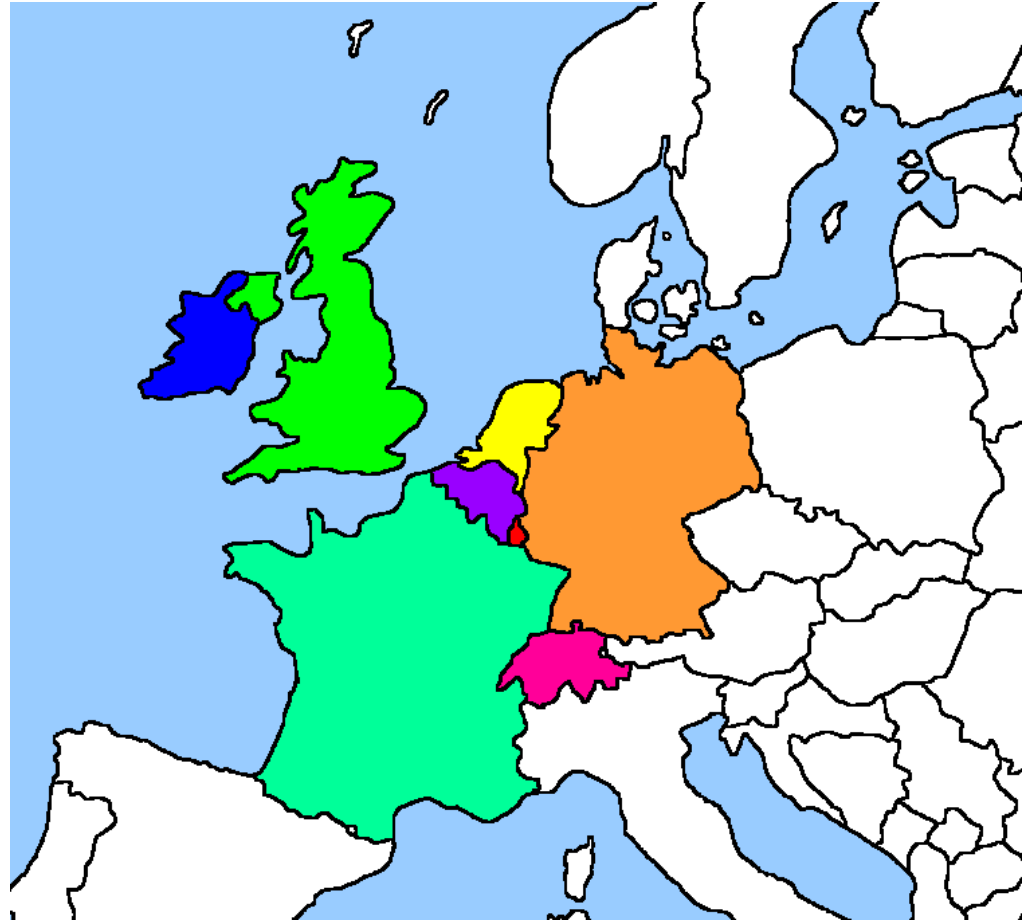
WEDDIP

**freeing up 800 MHz
process (*in Northsea
region: WEDDIP*):**

- difficult, different implementations situations
- time consuming
- resulting in temporary agreements

**freeing up 700 MHz
process:**

- as under 800 MHz, but much more efficient!





Working conditions

coordination:

- economic aspects
- target objectives
- a full disclosure of the updated national plans within the coordination zone, if available

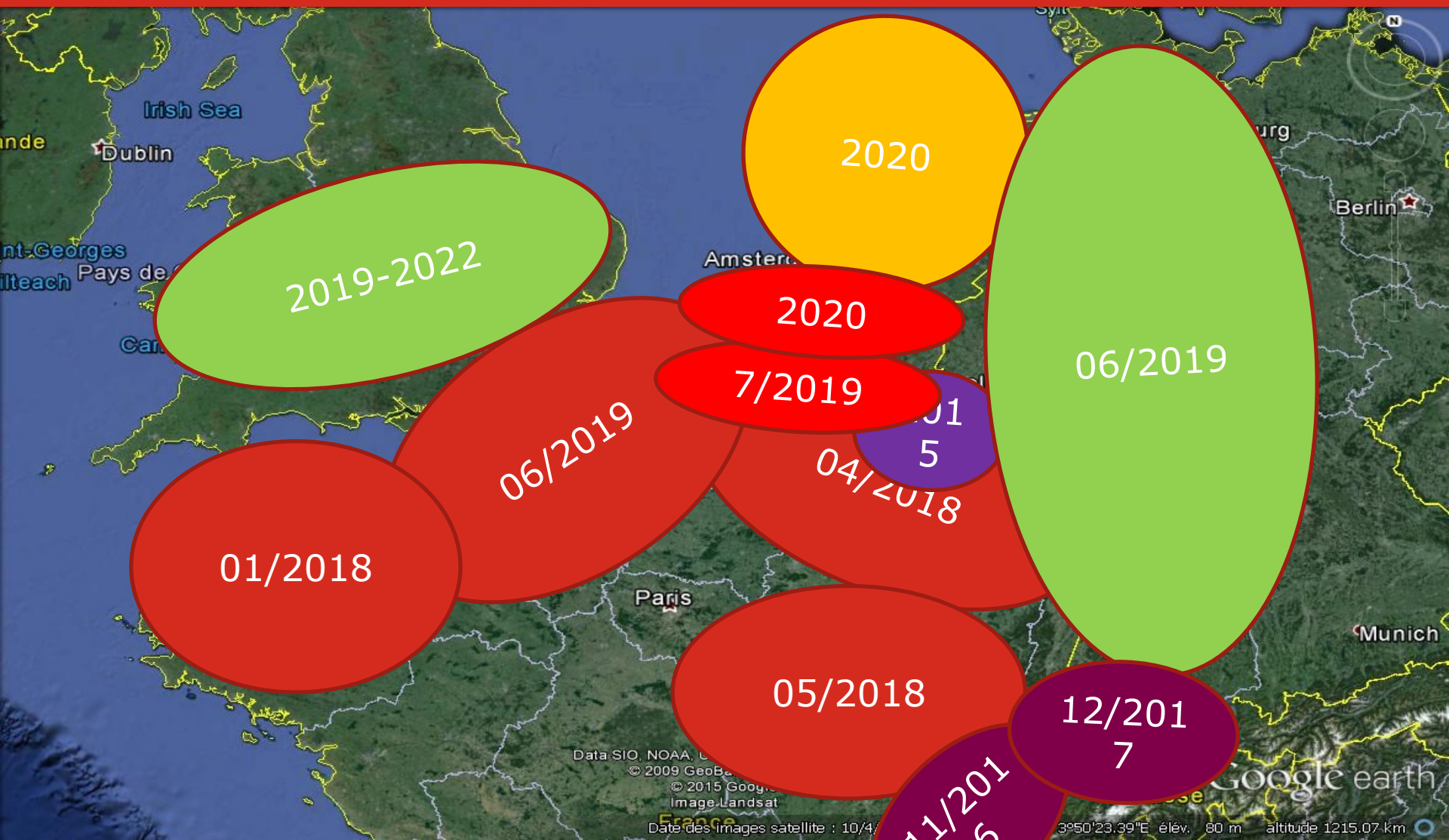
sharing principles:

- based on equitable access to the spectrum
- on the basis of national needs / requirements



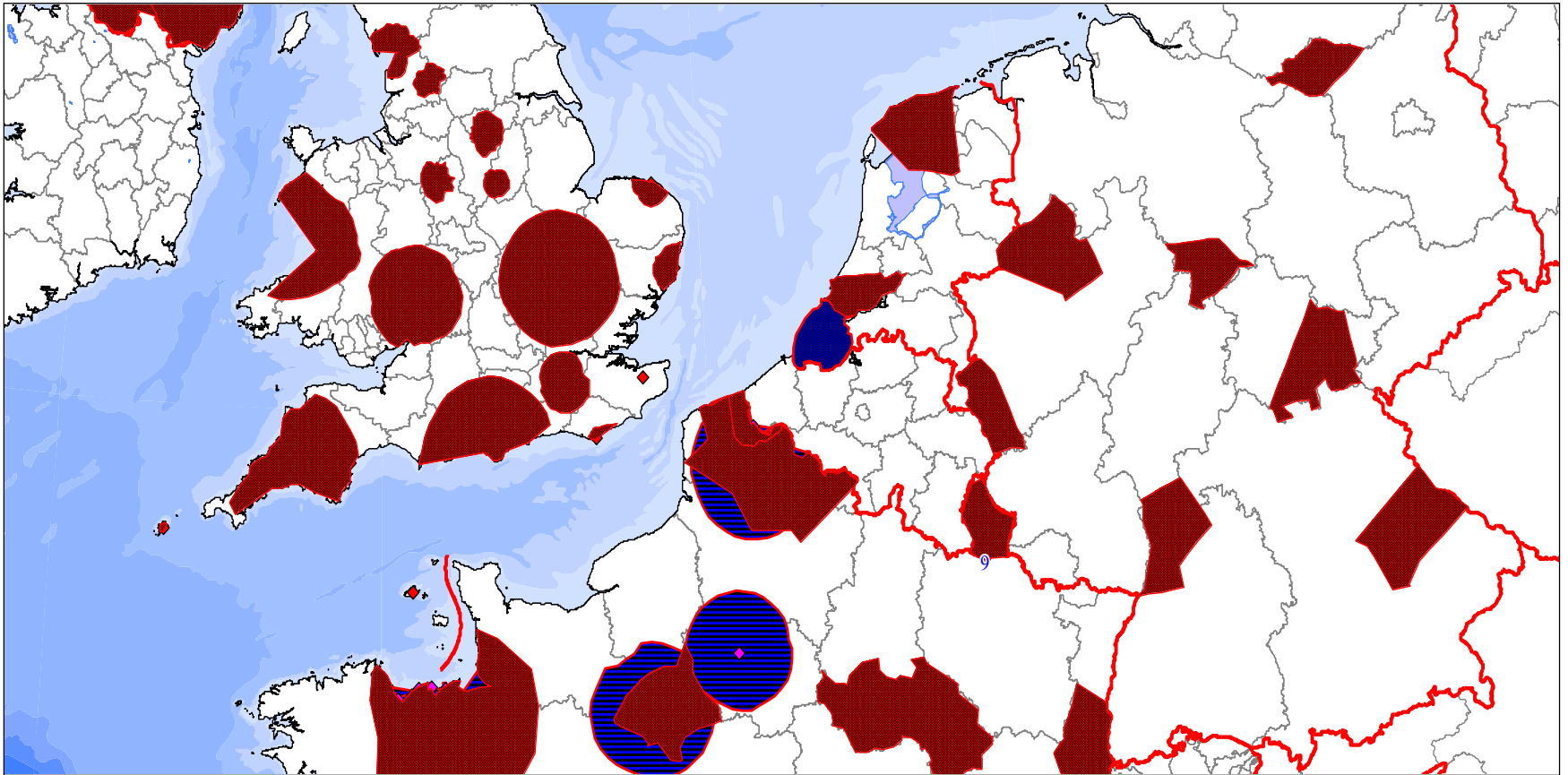
'mapping' coordination progress

- the principles are based on coordination zones;
- a timeline/roadmap providing non binding guidelines;
- taking into consideration a number of milestones necessary to come to a final frequency plan;
- using an agreed time table:





example of mapping a channel





Netherlands post switch over situation

- positive start: 2006 – 2010 -> 1,2 million subscribers;
- dramatic increase of subscriber fees (March 2013)
- operator gives priority to interactive TV (IPTV)
- substantial loss of subscribers (since 2013 down to less than 500.000)



Netherlands post switch over situation

- operator chooses to invest in 4G instead of upgrading DTT network to DVB-T2 / HEVC (High Efficiency Video Coding)
- upgrading DTT network very expensive
- license period ends 31 January 2017
- possibility to continue till January 2020



Netherlands post switch over situation

- release 700 MHz to broadband IMT under consideration
- after release 700 MHz to IMT, NL 5 layer plan is under construction
- national Public Consultation demand for spectrum
- long term demand for DTT-distribution??



***Thank you very much
for
your attentions***

Q & A