



Bundesnetzagentur

Global perspectives on Sharing

- Vision or Reality -

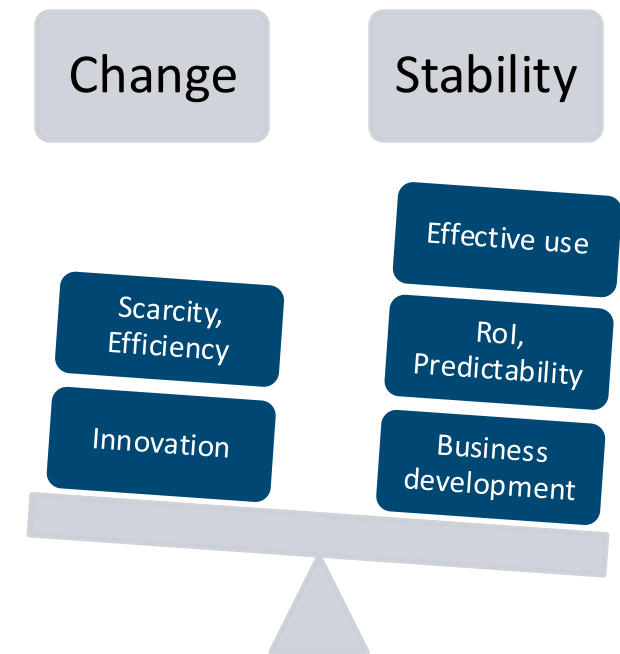
Alexander Kühn, BNetzA

31. Oktober 2024

Sharing – Necessity or Burden

- Spectrum is (still) scarce resource –
Sharing spectrum is everywhere!
- **High dynamic** of the development of communication technologies requires **constant adjustment**.
- Spectrum users demand **stability, certainty and predictability**.

Efficient use of spectrum !!!



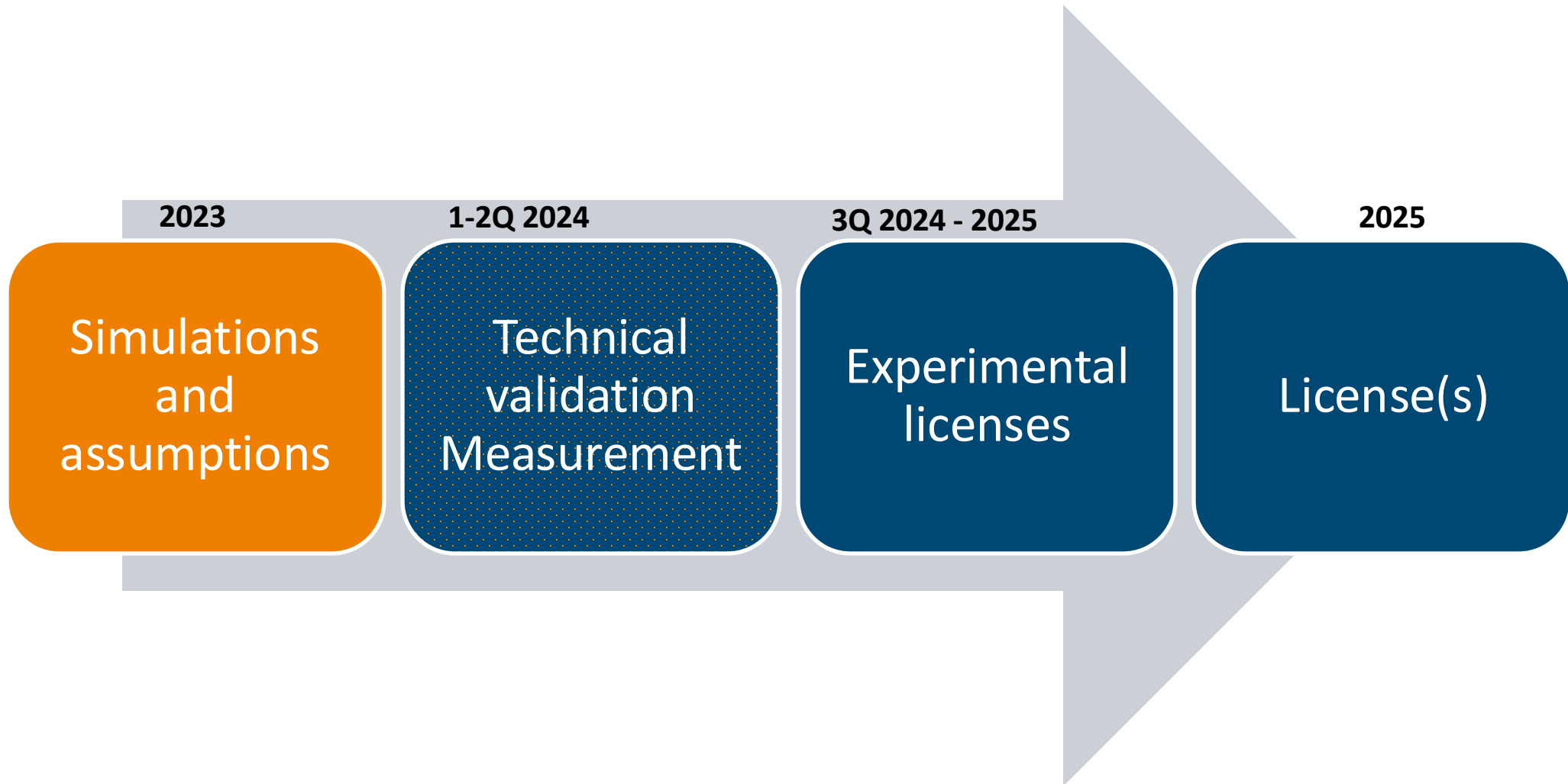
Sharing – how?

- **Easy** in planned bands with required spaces
- **Easy** in bands with declining usage
- **Medium complexity** in bands with similar technology but different applications
- **High complexity** in bands with different technology and different applications

Harmonisation enables sharing!

- Experiments and Trails are proportionate to the complexity
- Fact finding and realistic characteristics needed
- Trustworthy process: Protection of the incumbents is key objective

Example: Additional White Space use



Next#1 3800 - 4200 MHz

- Low and Medium Power limit
- Additional to 3700 - 3800 MHz for private networks / local networks
- Sharing with Satellite is a requirement
- Protection of adjacent band use: Aeronautical mobile
- Study: Initiative towards automated assignments

Next #2: 6425 – 7125 MHz

- Technology mix: WRC-23 decision allows both IMT and Wi-Fi
- Clear usage cases and conditions needed
- CEPT work with mandate of the EC on harmonised usage conditions and the sharing approach.

Kontakt

Alexander Kühn
alexander.kuehn@bnetza.de
www.bundesnetzagentur.de
Tel. +49 228 14-1250
Mob. +49 173 30 40 281



Bundesnetzagentur