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Spectrum Sharing Mechanisms

2025 International Spectrum
Sharing Workshop

May 22, 2025

Different approaches to spectrum sharing

Database driven spectrum sharing in licence exempt bands

- 6 GHz band (very low power, low-power, standard-power with AFC system)
- TVWS (with TVWS database)

Automated spectrum management in licensed bands

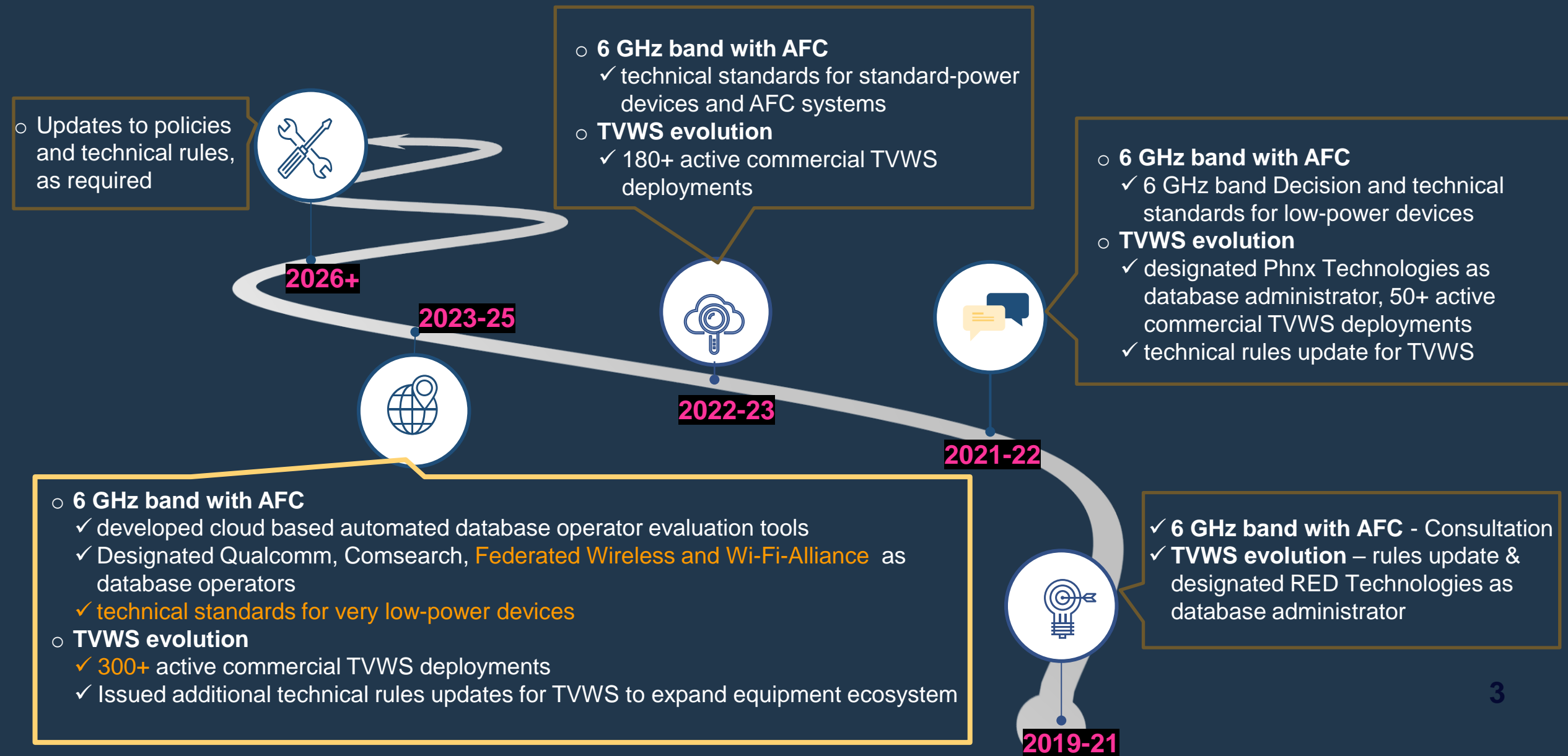
- Non-competitive local licensing framework aimed at private networks and Wireless Broadband Service (WBS) licensees
- Bands include 3900-3980 MHz and 27.5-28.35 GHz



Other sharing mechanisms in licensed bands

- Policy, licensing and technical framework for Supplemental Mobile Coverage by Satellite, Feb 2025
- Various commercial mobile bands - Access Licensing Framework to license unused spectrum in rural and remote locations, Jan 2024
- Sharing through coexistence/co-ordination mechanisms (common)

Database driven spectrum sharing timeline

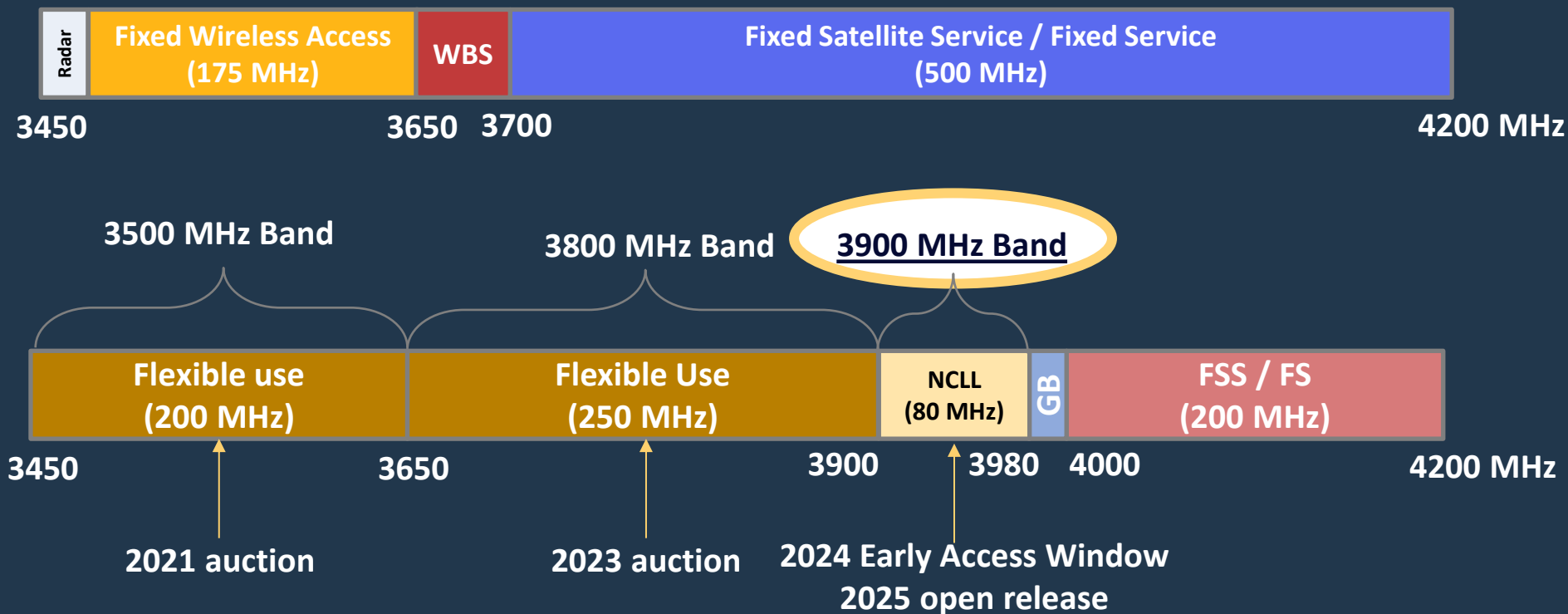


Automated spectrum management for local licensing

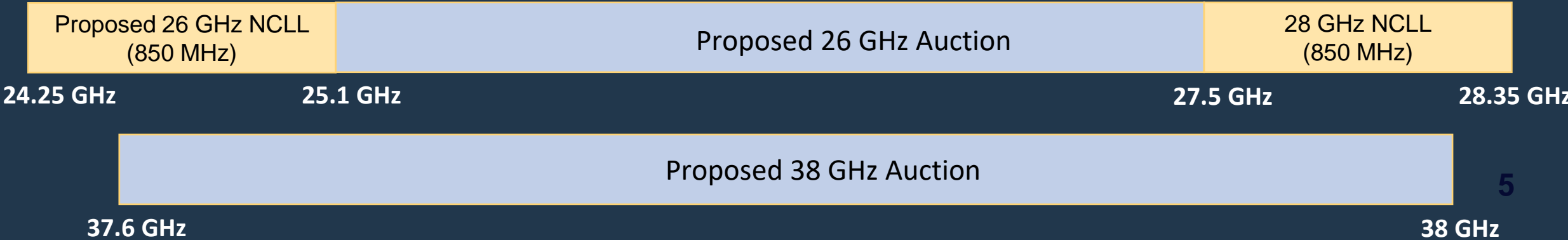
New first-come, first-served area-based automated spectrum licensing process: Non-competitive local licensing (NCLL)

- Attractive licensed spectrum option for private networks
- Automation of licensing to support large numbers of licences over small areas and for shorter periods
- Flexible licence area catered to needs - self-defined licence areas with min/max area size limits
- Simple deployment requirements - yes/no deployment per licensed area
- No limit on the number of licences an entity can hold

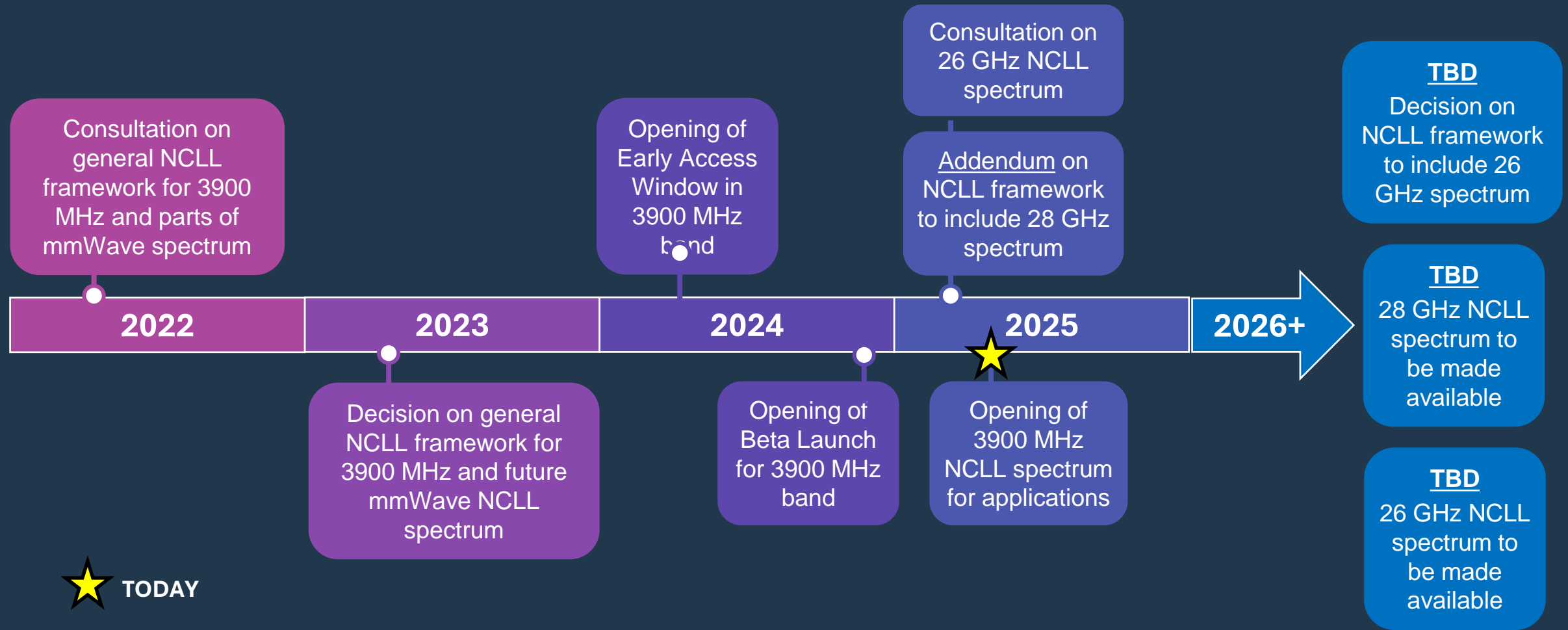
Non-competitive local licensing (NCLL) bands



Proposed mm wave bands



Non-competitive local licensing timeline





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Thank You!