TV White Spaces: Overview Presentation



Broadband access and digital inclusion





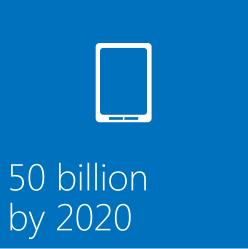


Broadband is the oxygen of a digital economy

More connected objects than people ...



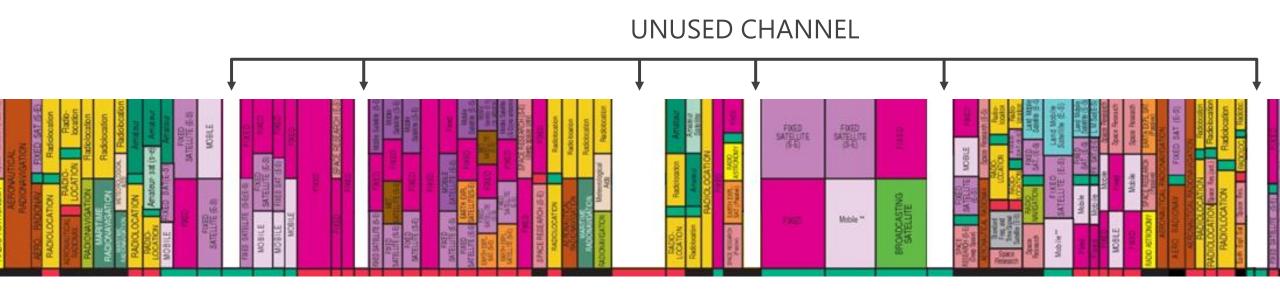




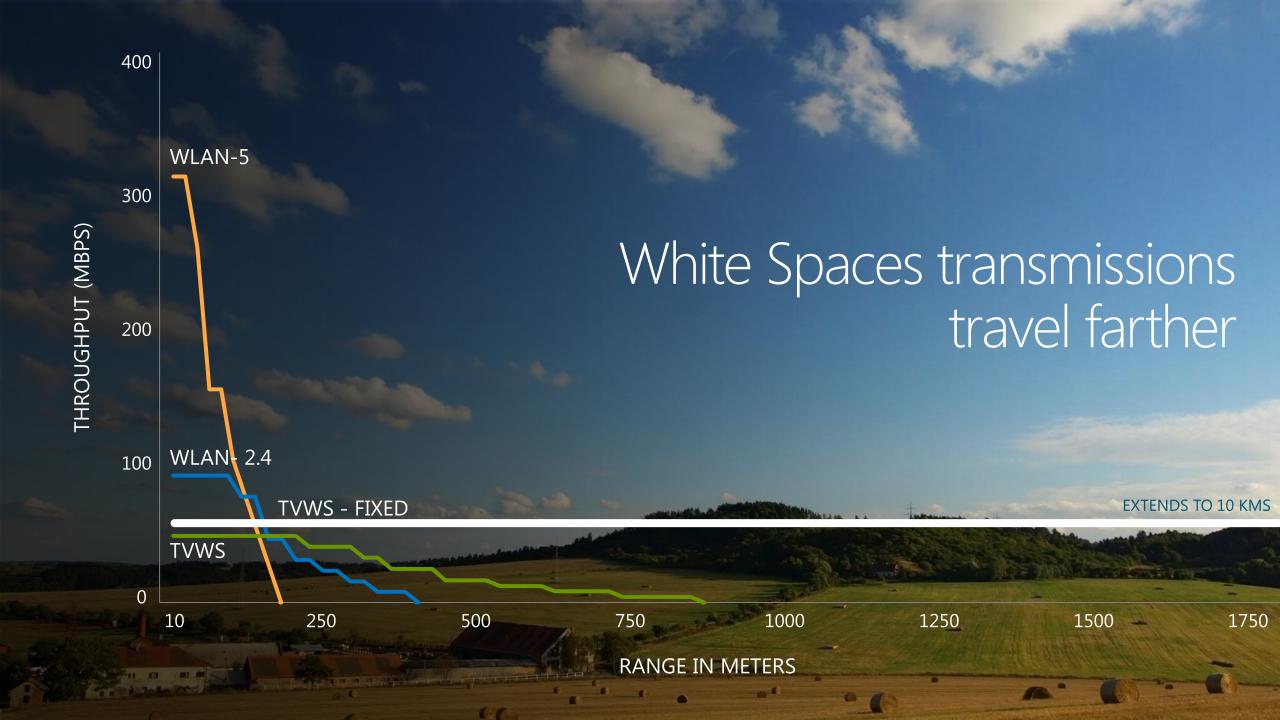




What are TV White Spaces?



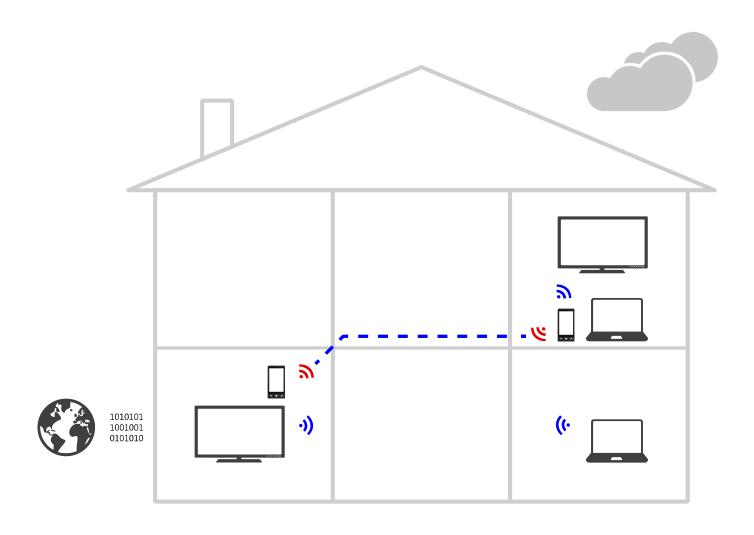
TV band white spaces are gaps left between broadcast channels. They occur in different places on different channels.







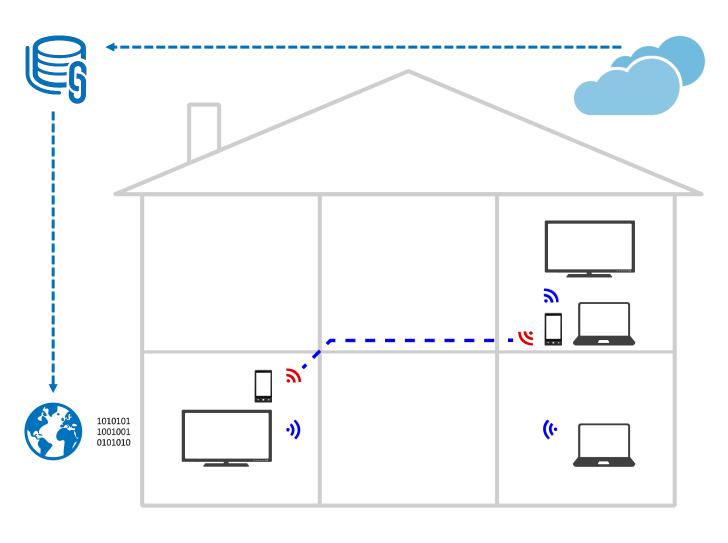
TV White Spaces signals penetrate more walls



In a typical home, a Wi-Fi signal can penetrate up to two walls. At the same power, a TV white spaces signal can penetrate more walls and obstacles, enabling whole home media distribution.

This will simplify and enrich in-home/in-building networking opportunities.

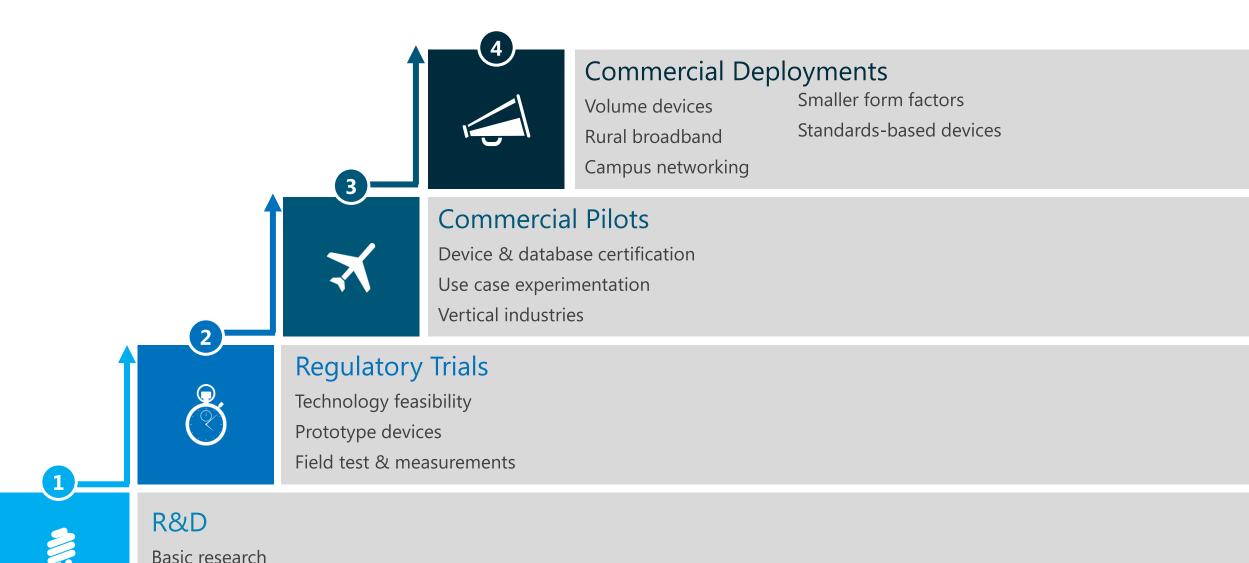
Database Access Safeguards Incumbents from Interference – This is No Free-For-All!



- 1. Devices only use the TV white spaces channels specified by the database.
- 2. Devices are required to re-check the database for the list of available channels.
- 3. Databases are prohibited from providing devices access to the channels occupied by incumbent operators (e.g., broadcasters).
- 4. Databases are required to maintain up-to-date lists of protected operators.
- 5. Databases can block newly occupied channels to prevent further white spaces device access.

Where we are going. . .

Lab trials



TV band white spaces trials and demonstrations



NZ

- **Completed or Ongoing**
- **Planned**
- **Expressions of Interest**

Summary

The technology is real and works

The ecosystem is ramping up quickly

Policymakers should think differently about spectrum allocation and regulation

Results are only limited by imagination



For more information contact spectrumpolicy@microsoft.com

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