

Deployment of Advanced XGP in Japan

- WCP's Omni-mini cell deployment -

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Goal of WCP's AXGP

WCP: Wireless City Planning, a SoftBank group company

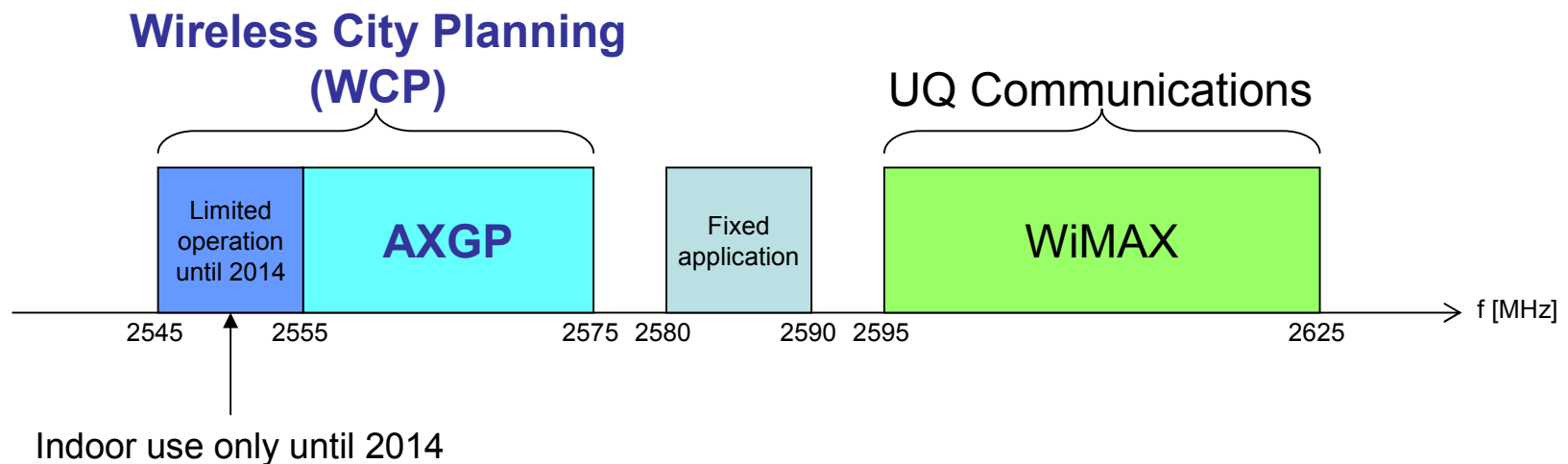
Goal of WCP's Advanced XGP

- to provide Broadband Wireless Access
- to users in Indoor Ground Floor (e.g. café)
- with the Minimum Bit Cost



Spectrum

- Spectrum for Broadband Wireless Access in Japan



WCP's omni-mini cell deployment reusing PHS sites



Typical dense urban PHS site (Ginza)



Reuse of existing PHS sites is mandatory to WCP

WCP's omni-mini cell deployment reusing PHS sites

- Huge number of PHS sites in dense urban is precious asset of WCP for Advanced XGP deployment
 - No new site acquisition is necessary



WCP's omni-mini cell deployment

- Only RRU is installed under antennas on site
- Uniform circular array antenna
- MIMO



Real commercial network performance: Indoor ground floor coverage



Real commercial network performance: Indoor ground floor coverage

Indoor measurement in a typical casual restaurant



Real commercial network performance: Indoor ground floor coverage

Service Availability:

At all points in tested Cafés AXGP is available

Perfect indoor ground floor coverage is confirmed from Day 1.

Further enhancements

- Inter-cell interference control
 - ICIC
 - CoMP
 - UE Advanced receiver and more

Conclusion

- Advanced XGP commercial network with omni-mini cell deployment is working in dense urban in Tokyo
 - Covering indoor ground floor
 - Providing higher data rate than HSDPA
- Further enhancements are promising

Thank you very much.

And, enjoy Advanced XGP
live demo in Tokyo!