Committed to Connecting the World



Discussion paper: TV White Spaces – Managing the spaces or better managing inefficiencies?

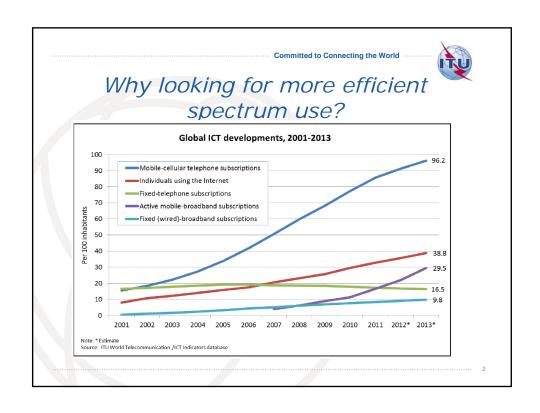
Cristian Gomez Radiocommunication Bureau, ITU



13th Global Symposium for Regulators "4th Generation regulation: driving digital communications ahead"

Warsaw, Poland, 3-5 July 2013

The views expressed in this presentation are those of the author and do not necessarily reflect the opinions of the ITU or its Membership.

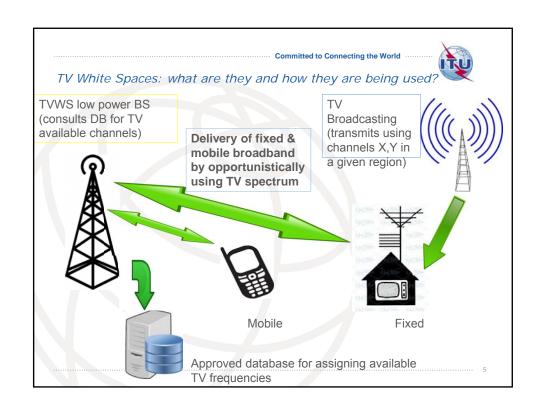




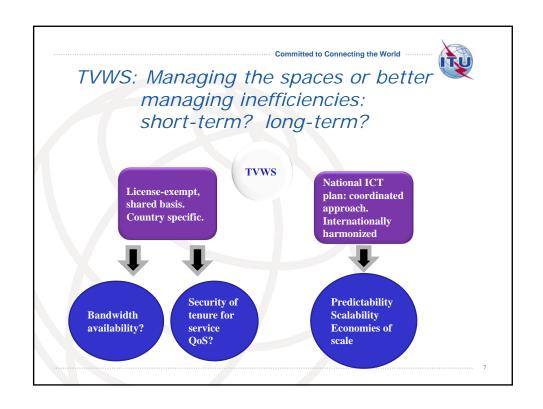
Committed to Connecting the World

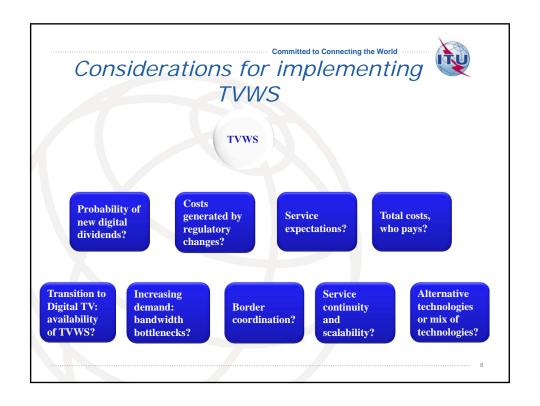
TV White Spaces: what are they and how they are being used?

- In TV frequency bands, currently idle frequency channels: "white spaces" used in an opportunistic manner & low power
- UHF spectrum is highly valued limited resource: more coverage, cost effective (the "sweet spot of spectrum")
- Useful for wireless technologies other than broadcasting: opportunity for wireless broadband
- Currently, there are on-going trials and some commercial deployments are emerging.
- Proposed as a *license-exempt* application: low power non-interference/non protected basis (like Wi-Fi). Must not interfere with the primary service (broadcasting)











Conclusions from the paper

- Spectrum sharing as an alternative to address efficiency.
- Long-term strategy is needed to benefit from spectrum sharing without incurring in future increased costs.
- Potential for expansion of Digital TV and future changes in the nature of the current primary service can limit and/or exclude opportunistic TVWS services in UHF TV spectrum bands.
- There is a need to consider aspects of security of tenure and market harmonization in order to achieve long-term benefits from TVWS in the UHF TV spectrum bands.
- The paper provides a regulatory checklist as a set of questions for regulators to consider when assessing TVWS.

9