

# Radiocommunications in "commons" bands (general user licensing)

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# **Quick overview – Principles for "commons" approach**

- Individual licensing is impractical
- Low power ubiquitus use
- Does not receive interference protection
- Must not cause interference
- Shared use of the band parties cannot claim ownership

#### Examples:

Wi-fi Bluetooth Short range devices VSAT dishes





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# The "licensed vs unlicensed" conversation

- Spectrum is a public asset
- Access: economic value, efficency and equity
- Incumbent intersts & newcommer
- Investment certainty, security of tenure
- Ability to reallocate spectrum assets if required
- Flexibility to trade access rights
- Minimise harmful interference





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# **Clear policy objectives**

- Connectivity objectives: targets, programmes, initiatives
- Contending commercial interets
- Make space for high economic value use as well as experimental use
- Long-term planning
- Ongoing spectrum assets review as technology evolves
- International trade, partnerships & economies of scale





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## **Policy outcomes**

- Economic and social benefit
- Efficient use of the resource
- Access to international markets
- Affordable devices, systems and services
- Spectrum harmonised regionally and globally
- Resilient, scalable and reliable communications infrastructure





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#### **Striking the balance – regulatory avenues**

- Licensed services (e.g. land mobile)
- General User Licensing (commons) (e.g. wi-fi)
- Flexible exclusive rights (e.g. cellular, broadcasting, FWA)
- Hybrid: commons/ flexible rights (e.g. local FWA, managed parks)
- Shared licensing (e.g. LSA, secondary users)
- Test & experimentation licenses





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#### **Example – regulatory avenues**

- UHF Band used by broadcasting, cellular, short-range devices
- NZ replanned UHF TV band to accoomodate Digital Dividend
- Emerging shared spectrum applications
- Test licences issued to explore technical capabilities
- Ensuring coherence with long term plans
- Assess economies of scale and scalability





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### THANK YOU

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