



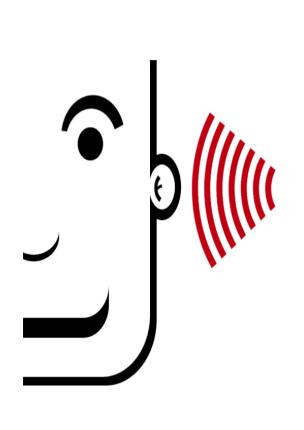
Cognitive Radio Experimentation World

Device sensitivity and environment measurements



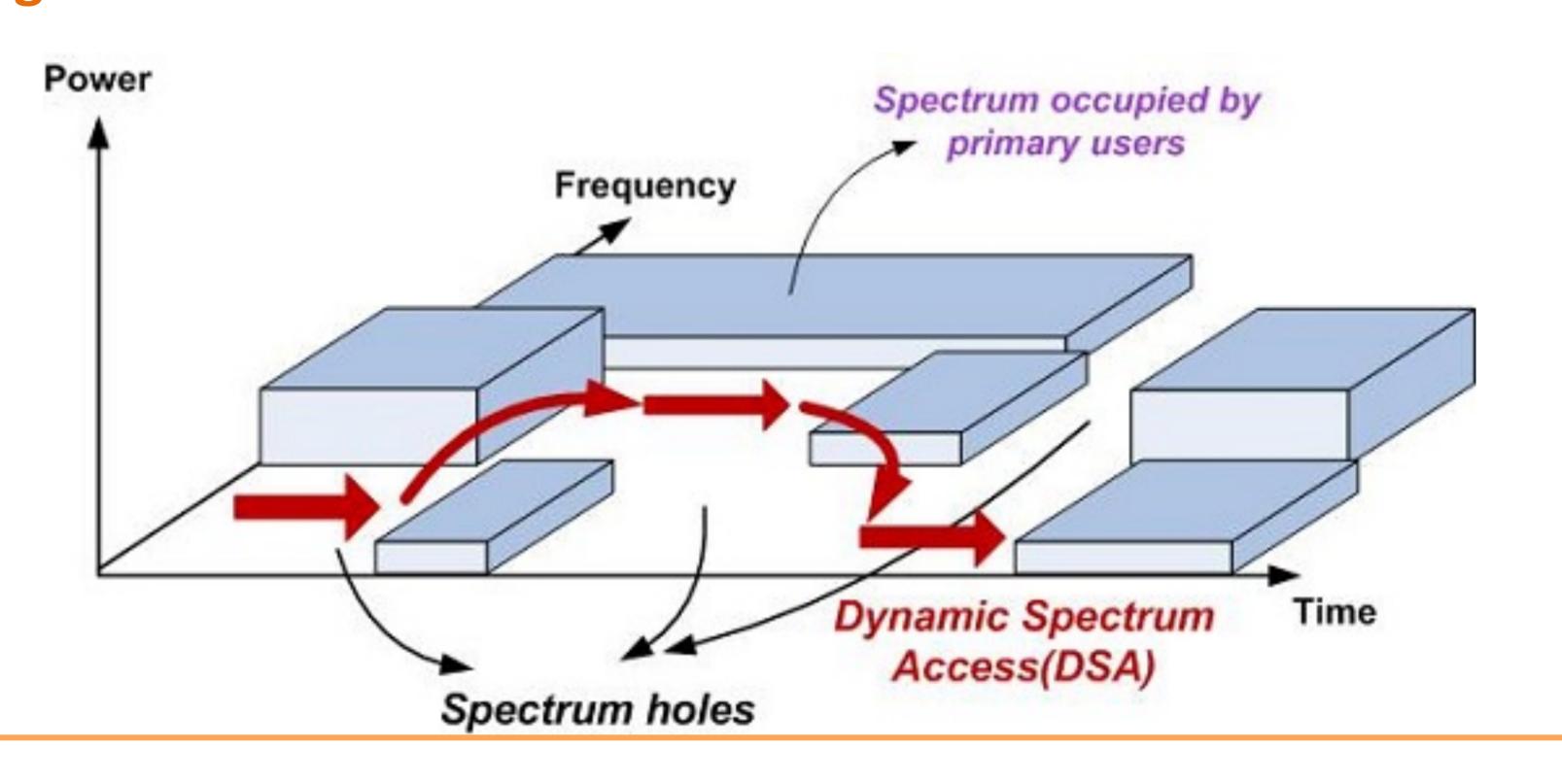
- Final result of one out of three experiments of 'Open Call 1' -

Cognitive radio (CR) devices 'listen' to identify spectrum holes. This requires a strong signal and sensitive CR device.









Experiment

- 1. Several CR devices with Wi-Fi and Bluetooth signals. 2. Signal strength in three environments: Main finding: only high end devices accurately detected primary user.
- - office in TUB
 - air cabin in EADS
 - semi-shielded environment at iMinds.

Main finding: signal level drops when device height in room increases.

Test set up and some tested devices

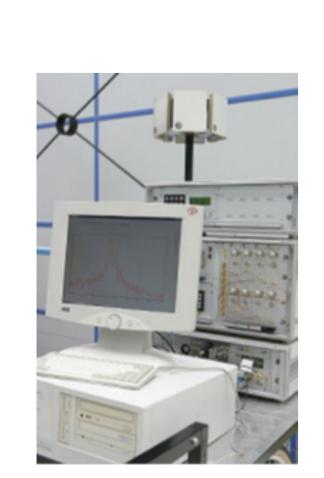


receiving end





transmitting end



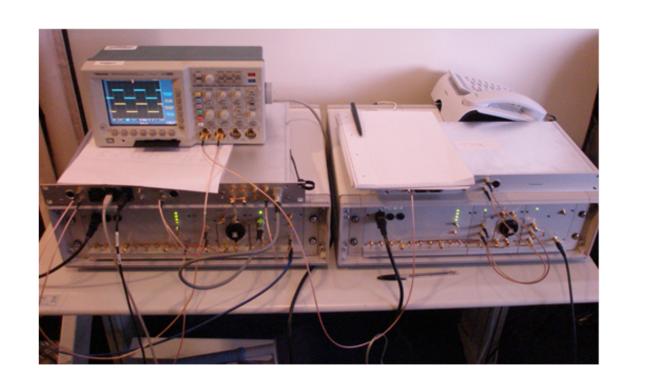




Measurement equipment and tested environments













NICTA

















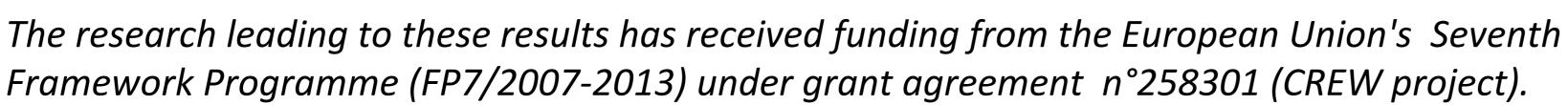
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