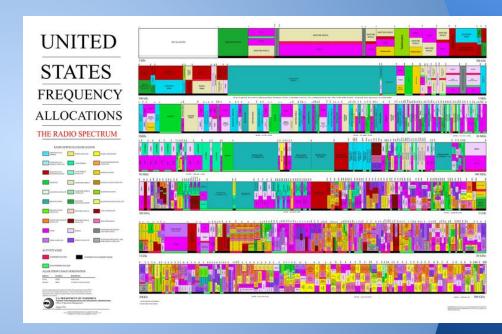
SDR in ORBIT: LTE-U

Demetrios Lambropoulos, Cat Le, Steven Cheng June 11, 2015

Spectrum Allocation

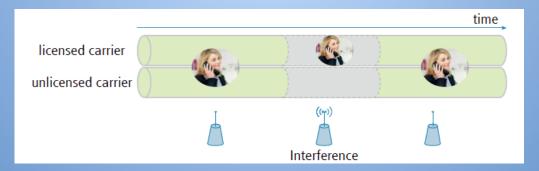
- Use of radio frequency bands are regulated
- 3 general types of allocation:
 - Closed spectrum
 - Open spectrum (unlicensed)

icensed



LTE vs LTE-U (Unlicensed)

- LTE-U: Primary carrier packets are sent through LTE and secondary carrier packets are sent through unlicensed spectrum.
- Increased throughout over LTE
- Utilize listen before transmit technique



This week

- Practiced WiMAX Tutorials
- Tried Implementing the LTE-U Tutorial
- Read research papers on LTE and LTE-U

Next Week

- Continue testing the LTE-U tutorial
- Further reading on LTE and unlicensed spectrum properties