
A Workshop on Cognitive Radios



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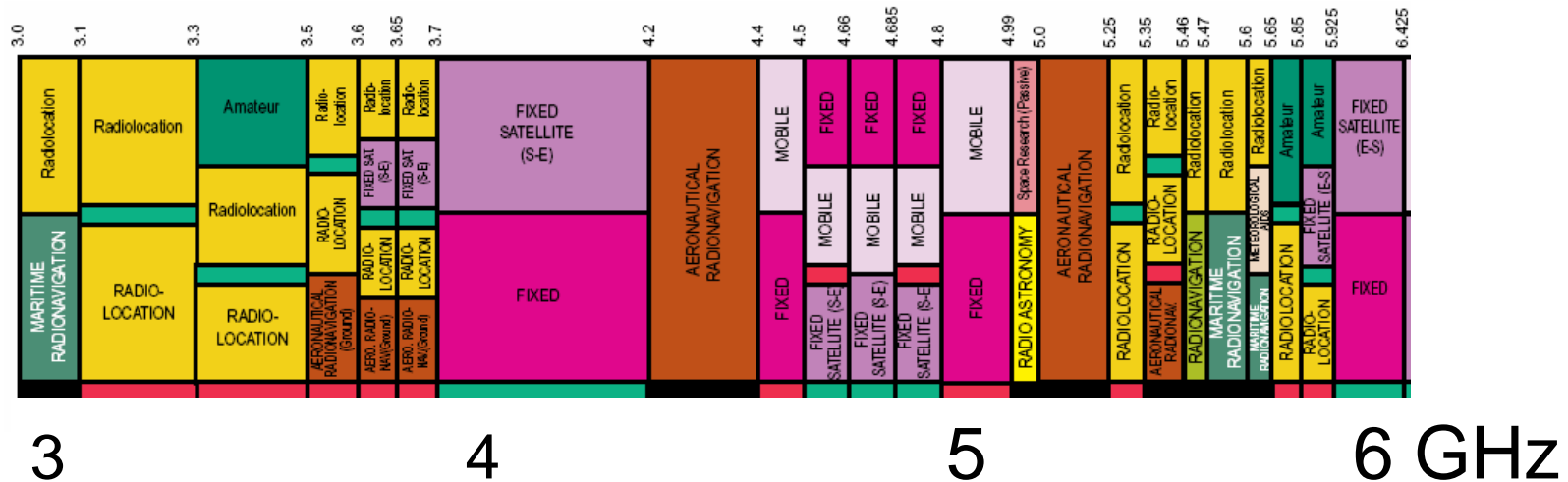
Cognitive Radios

According to the FCC:

“We recognize the importance of new cognitive radio technologies, which are likely to become more prevalent over the next few years and which hold tremendous promise in helping to facilitate more effective and efficient access to spectrum”

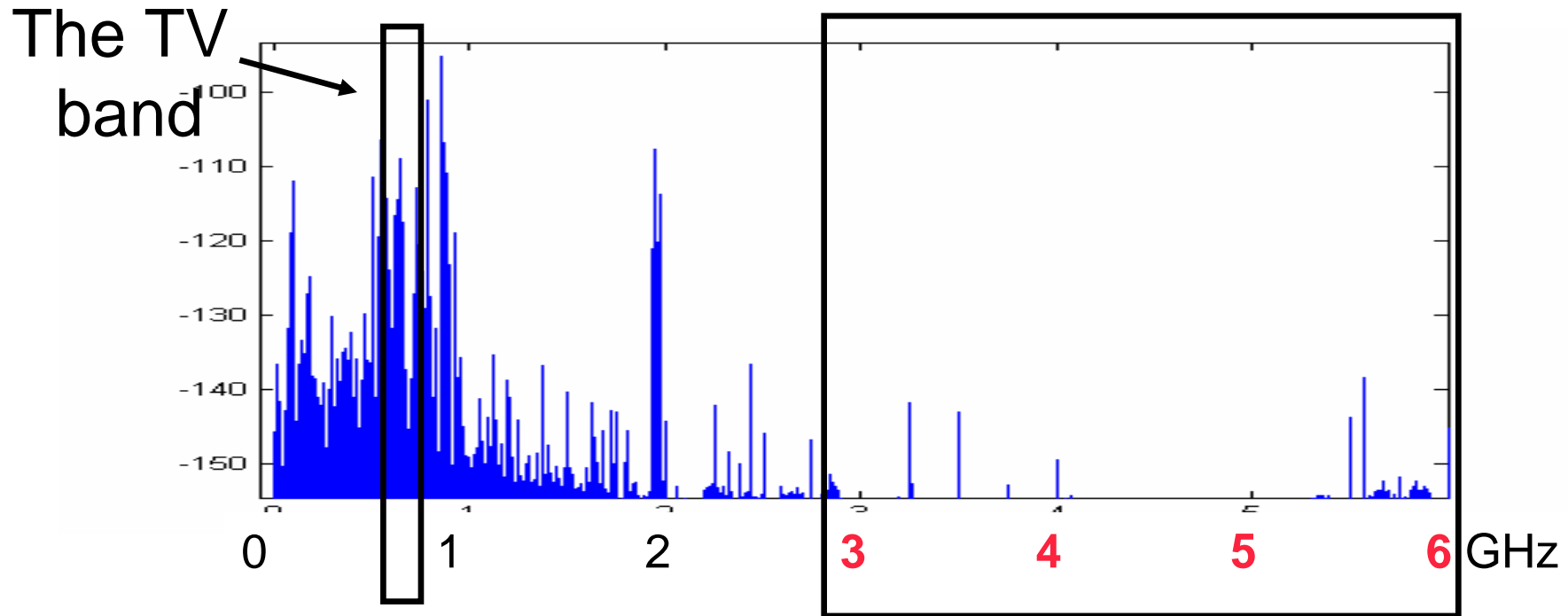
- Federal Communications Commission,
ET Docket No. 03-108, Dec 30th 2003

The spectrum shortage....



- All frequency bands up to 60 GHz (and beyond) have FCC allocations for multiple users
- The allocation from 3-6 GHz is typical - seems very crowded....

The reality...



- Even though the spectra is allocated it is almost unused
- Cognitive radios would allow unlicensed users to share the spectrum with primary users
- The TV band is interesting, but higher frequencies are even more attractive

What we hope today...

- Define the status of understanding of Cognitive radio functionality, applications and implementation
- Meet others working in the same area
- Discover areas of joint investigation and sharing of infrastructure