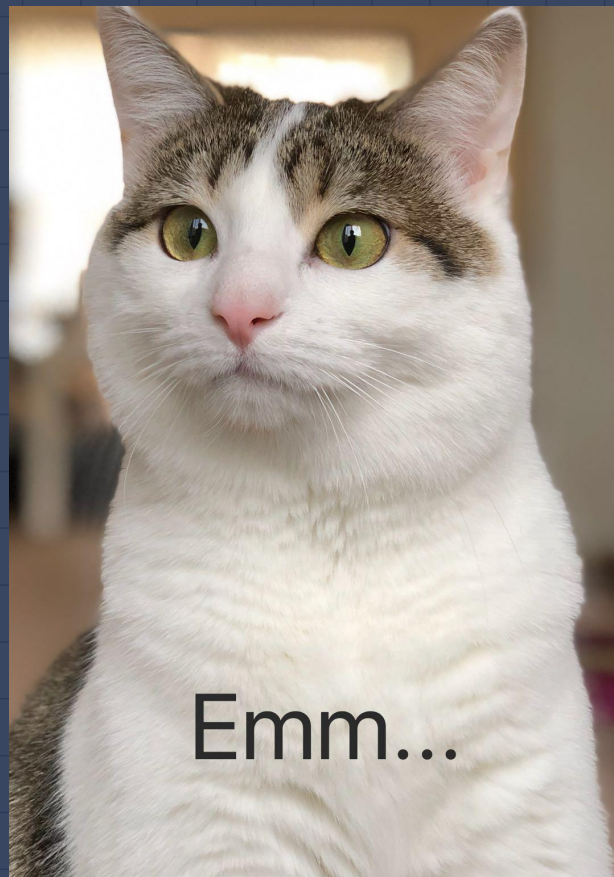


Software Defined Radio

Yuyi Chang
04/07/2018

HELLO!

I am Yuyi Chang



Topic

- ▣ What is SDR?
- ▣ Operating Principle
- ▣ Application
- ▣ Demon: Capture the sound

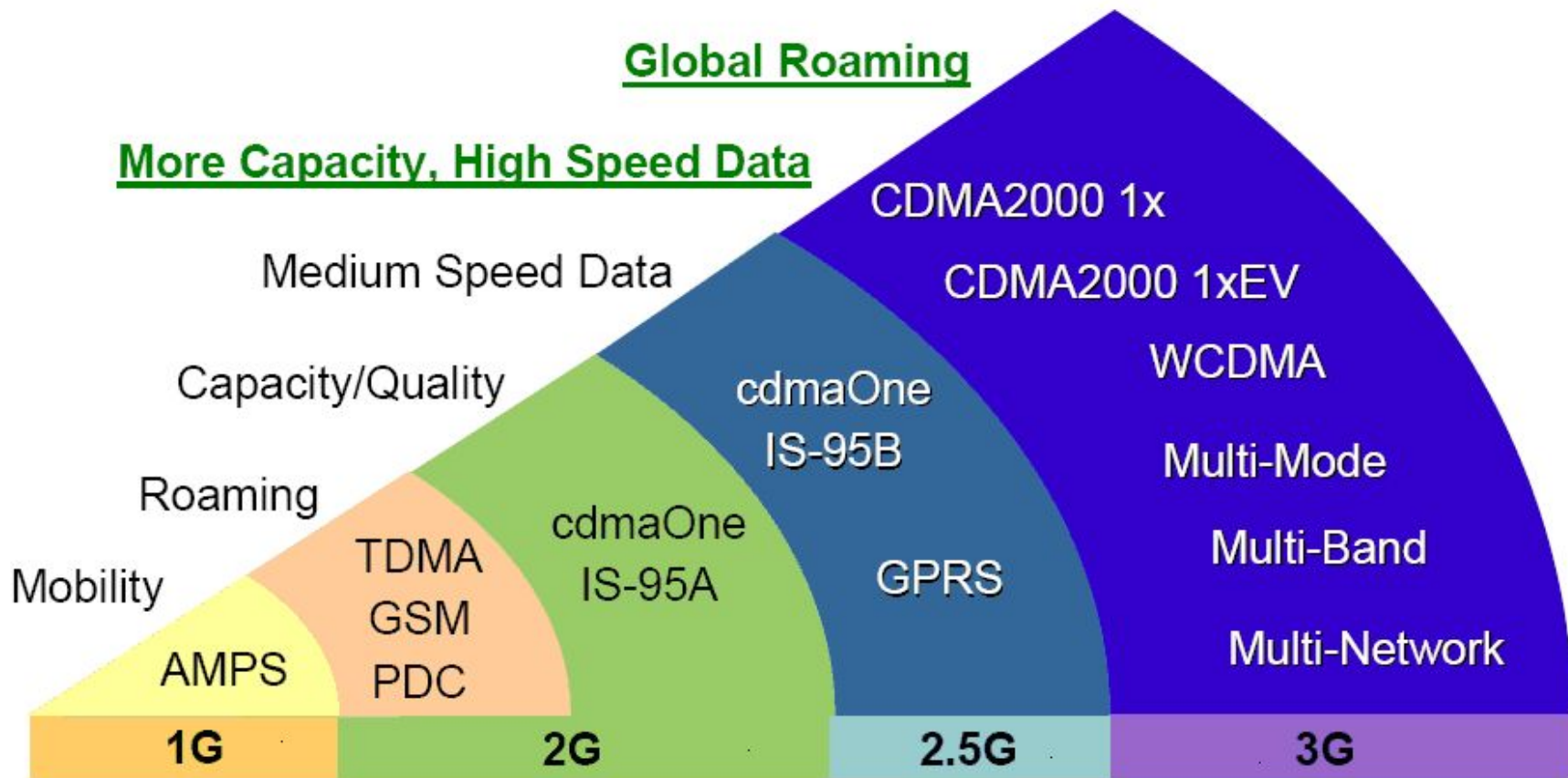
THE RADIO SPECTRUM



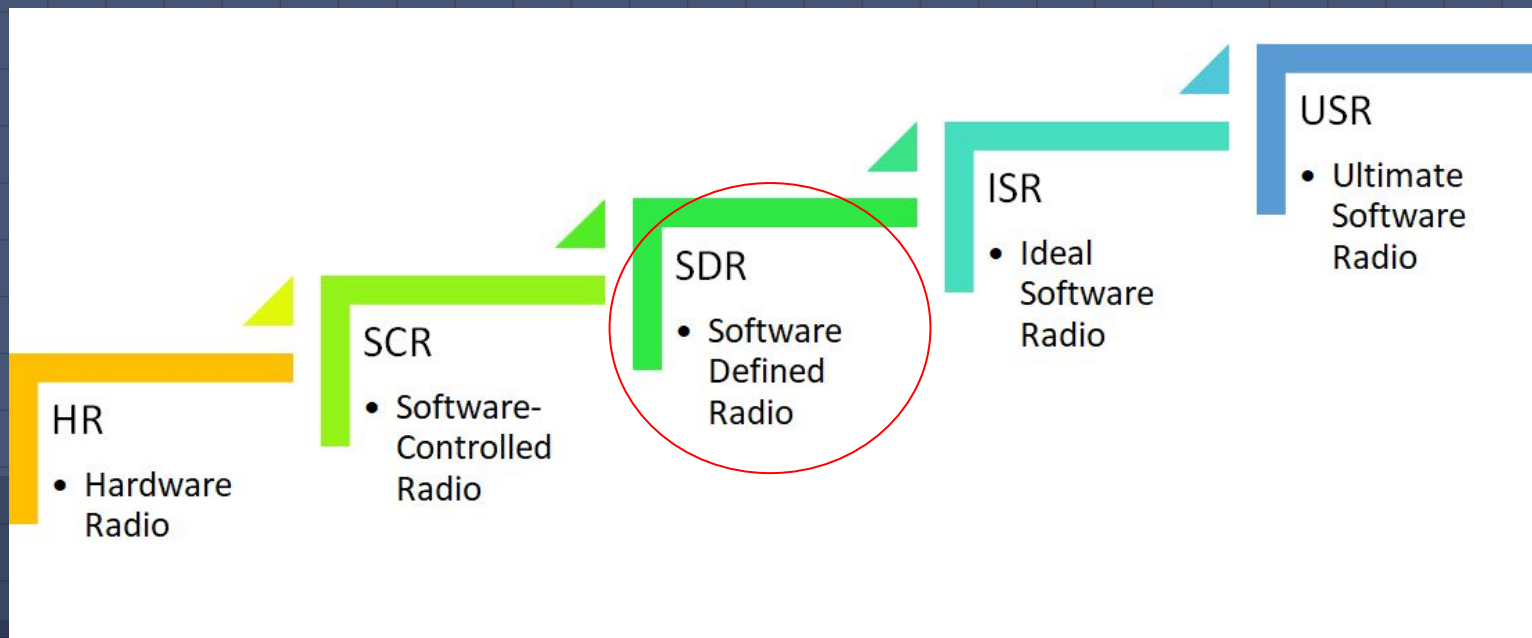
United States radio spectrum frequency allocations chart as of January 2016, from https://www.ntia.doc.gov/files/ntia/publications/january_2016_spectrum_wall_chart.pdf

Global Roaming

More Capacity, High Speed Data



What is SDR?

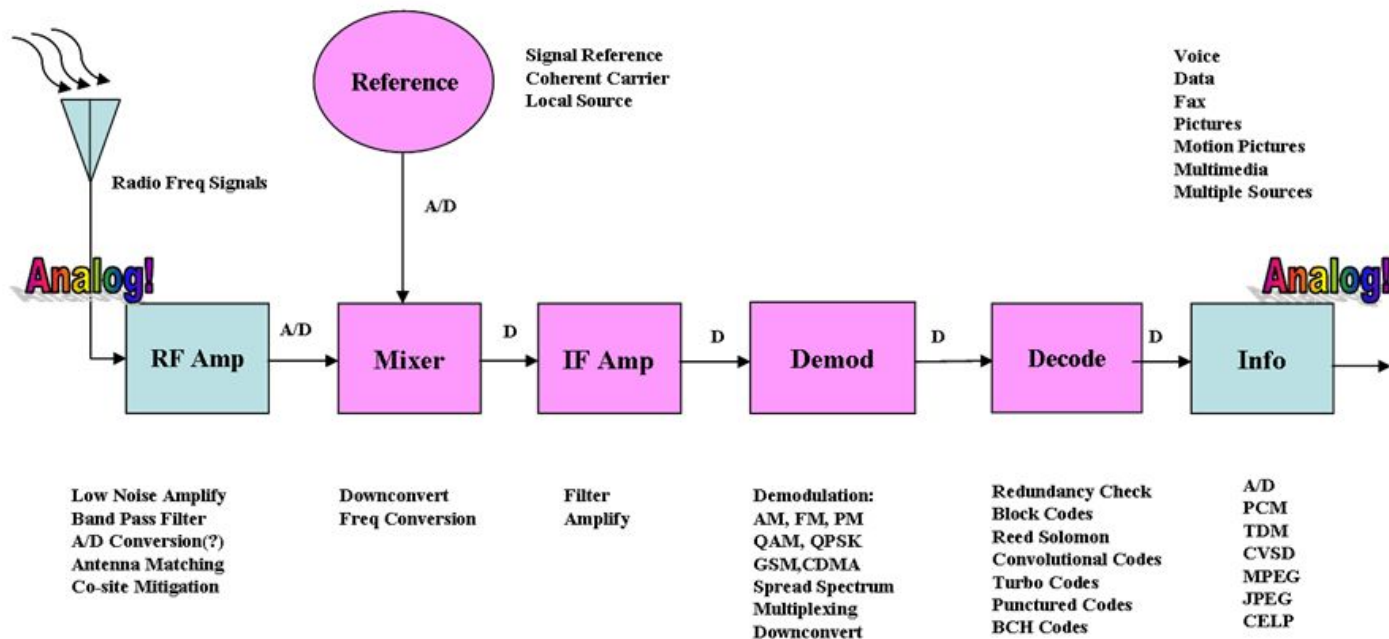


Dumb Radio



Cognitive Radio

How does SDR works?



Demo: Catch the sound!

Any question?

Using RTL-SDR with CubicSDR



A RTL-SDR Receiver, from <http://blog.marxy.org/2017/04/rtl-sdr-direct-sampling-on-linux.html>

THANKS!

Any questions?

