Spectrum anarchy

Martin Weiss
Ilia Murtazashvili
Ali Palida
Pedro Bustamante
Definition

- Spectrum (spek-trəm)
- Anarchy (ˈa-nər-kē):
  1. Radically decentralized spectrum use regime
  2. A spectrum management approach biased toward highly local governance
  3. A project of the Center for Governance and Markets
Why?

- Supply and demand for spectrum is highly uneven in time, space and frequency
- "Think local, act global" spectrum policy posture
  - Tendency to make global (i.e., national) policies to solve a particular problem in a small set of localities
  - Other localities may have other priorities (and problems)
  - How about a “Think global, act local” posture instead?
- Advances in technology (especially data processing and storage) make (semi) intelligent responsiveness to local conditions feasible
- Especially in mid band and higher frequency bands
- Learn from practices in “unassigned” spectrum
Why not?

• How to quantify investment risks under a different spectrum use regime?
• How to deal with non-cooperative spectrum users?
• How to deal with a potentially large number of differing local communication regimes/parameters?
• How could government get (auction) revenues?
• We’ve never done it that way before …
#occupyspectrum

About CGM: [https://www.cgm.pitt.edu](https://www.cgm.pitt.edu)
About SpectrumX: [https://spectrumx.org](https://spectrumx.org)