FCC Broadband Workshop on Cyber Security

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- Understand the threat
  - Not techniques, but intentions and capabilities
- Our adversaries are people
  - They are smart
  - They learn and adapt
  - They can focus more time, energy and resources when and where they choose

- ## State Agencies
  - Espionage – diplomatic, military, commercial
  - Destruction – government, military, critical infrastructure
- ## Criminals
  - Money
- ## Terrorists
  - Espionage
  - Destruction/Publicity
- ## Pseudo State Agencies
  - Harassment
- ## Hobbyists
  - Notoriety
  - Petty cash

Security
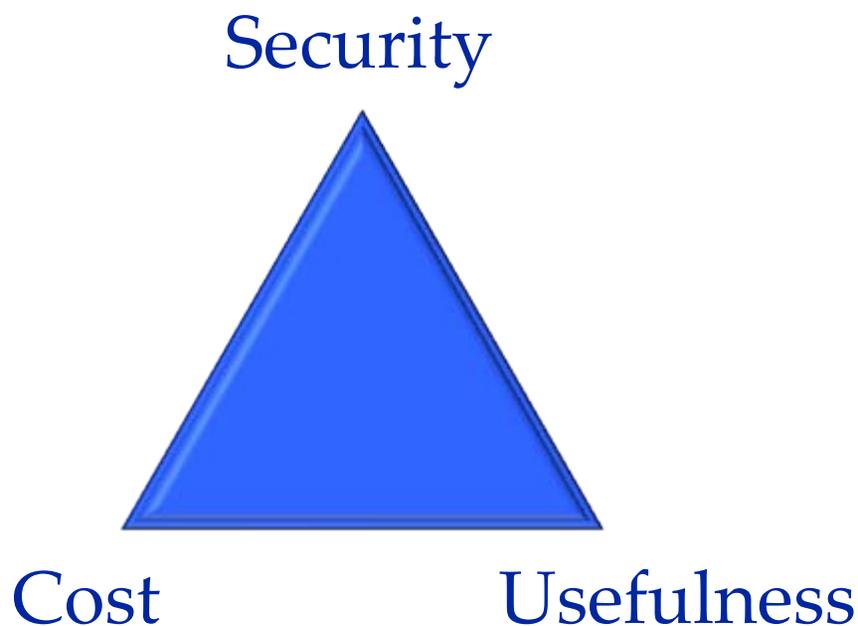
Cost   Usefulness

- ROI is "negative" on security investments
  - Return is things that didn't happen
- It is hard to build support for loss of usefulness
- We can't stop everything

- Technology
  - Security products
  - Non-security products
- Policy
- People
  - Our adversaries are people
- Physical
  - A backhoe can be more effective than a "sploit"
- Virtual
  - Broadband is used by the attackers and the defenders

- Don't mandate how
  - Too hard/Doesn't work in practice
- Mandate results
  - Not easy, but leverages our strengths