

# Engineering and Public Policy (EPP)

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# What is Engineering and Public Policy (EPP)?

- We work on **policy problems where the technical details matter**
- We work on **science and technology innovation**
- We are highly interdisciplinary ... **technical details are not the only things that matter**

# We Have Expertise In...

- **Energy**: decarbonization, deregulation, grid stability and security
- **Environment**: climate change, air pollution, water
- **Privacy and security**: usable security, online crime
- **Risk**: risk perception and communication, behavioral psychology
- **Technological change**: innovation, advanced manufacturing, science policy
- **Telecoms**: internet and cellular, spectrum regulation
- **Developing world**: all of above, connections to CMU Africa

# Who We Are

- Faculty
  - Primarily engineers and computer scientists
  - ...but also expertise in economics, business, political science, psychology, decision science, organizational behavior
  - Many joint appointments across campus
- Students
  - Primarily engineers and computer scientists
  - ...but also other technical fields (e.g. physics, applied math)
  - ...and a few others (economics, statistics)
- Emphasis is on merging substantive engineering analysis in broader policy or business context

# Our Department Is Unique

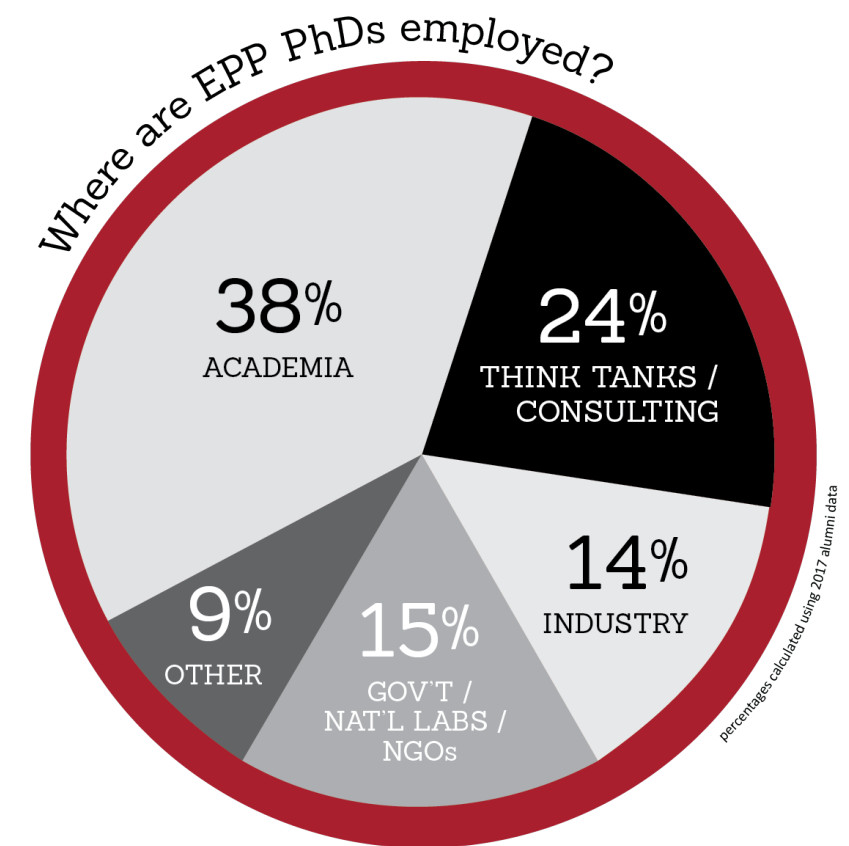
- More and more interdisciplinary programs have started in recent years
- We are a full academic department in CMU's College of Engineering
- Vibrant intellectual community
  - about 65 PhD and 40 MS students
  - 21 professors regularly appointed, many courtesy and affiliated
- We have a 40+ year history of doing interdisciplinary work

# Degree Programs

- Master's in EPP
  - For technical students seeking advanced technical training and wanting to add broader policy, decision, and social analysis skills to their skill set
- PhD in EPP
  - For technical students seeking to become independent researchers doing analysis at the technical-policy interface
- Master's in Engineering & Technology Innovation Management (ETIM)
  - For technical students to develop specialized business skills to manage innovation and create value
  - “Innovation is about taking good technology and wrapping it in a great business model” (Prof. Jimmy Williams, ETIM Director)

# Do I have to work in government? No...

- EPP may be for you if you...
- Work in a highly regulated industry
- Work in an industry that's in the public eye
- Manage innovation
- Value quantitative policy and decision analysis skills
- Care about how science and engineering interact with rest of society



# Thanks

- I hope to see many of you in EPP's breakout session
- <https://cmu.zoom.us/j/95162181881?pwd=SVlSZjdpcVZ1K0pUK2xtb1MrUEdmdz09>
- (in case trouble accessing, Meeting ID: 951 6218 1881 and Passcode: 577111)