Facilitating Free and Open Access to Information on the Internet

Pls: Nick Feamster, Mike Freedman, Roger Dingledine Princeton University and The Tor Project





Problem: Measuring and Mitigating Internet Censorship

Citizens have the right to know when their access to information has been obstructed, restricted, or tampered with. Unfortunately, current information about censorship begins and ends with anecdotes. This project develops technologies to gather comprehensive, continuous measurements of Internet censorship and mechanisms to defeat it.

Two facets:

- **Monitoring** attempts to block or manipulate Internet content communications
- Developing and evaluating new censorship circumvention technologies

Monitoring

Scalable monitoring

Approach

Circumvention

• Covert channels (web, wireless, powerline)

- Automated detection
- Measurement with side channels
- Ethical considerations for measurement
- Certificate consistency, transparency
- Focus on ease of deployment
- Routing around surveillance









