Data Collection Tools for Earthquake Reconnaissance

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Short presentation

- Introduce some of the thoughts of the IT Committee
- Introduce some existing tools (Maggie Ortiz)
- Open discussion on the role of EERI
Data collection tools

- **Hardware**
  - Phones, tablets, laptops, GPS, digital cameras, video
- **Software**
  - OS (fleeting), GIS, custom form or browser based solutions
- **Data**
  - Taxonomy, GIS, before and after satellite data
- **Review and Web Dissemination**
  - Upload, logistics planning, archive
Potential Benefits

- Rigorous data collection
- Deploy pre and post event satellite data, mapping and other GIS data to the field
- Navigate to earthquake damage
- Georeferenced photos
- Permanent spatial catalog of data

Main challenges

- Simple to use, not disruptive
  - Stressful conditions
  - GPS, digital camera, mobile or laptop connectivity
  - Some tools designed for constant GPS and internet connectivity
  - Complex entry requirements can slow speed to a crawl
  - Protocols compete with precious recon time
- Pen and paper offer a tempting alternative