RAPID Facility Cyberinfrastructure Elements

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RAPID software

RAPID software and technology supports field reconnaissance missions and data management through the following capabilities:

- Mission Planning
- Team Communication
- Geographic Survey Tools
- Social Science Survey Tools
- Data Tagging
- Data Transfer to Repository
Data Collection Process

Field Reconnaissance
- Plan Reconnaissance Effort
- Collect Data

RAPID Facility
- Analyze Data and Create New Products
- Tag and Upload Data

DesignSafe-CI
- Cyberinfrastructure
- Upload, Tag, Explore, Share, and Publish Data

Data Workflow

![Diagram of data workflow process]
Data Processing

- Included for all NSF users at no cost:
  - Registration of lidar data
  - Upload of raw (and registered) data to DesignSafe
- RAPID HQ at UW has:
  - High speed processing computers
  - 3D CAVE for visualization and analysis of data sets
- Additional processing options (point cloud development from lidar and/or images):
  - You or your students and associates come to RAPID HQ, or borrow a high-power laptop computer and work at your location
  - Work within the DesignSafe cloud environment
  - Ask us to process