



Breakout Session 2

Group 2

Data Delivery

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Question 1: How are current products distributed?



- ✧ This is currently in transition, some computer, some paper maps
- ✧ CA Earthquake Clearinghouse is working on getting consensus from many stakeholders
- ✧ There are many infrastructures, but a middleware is being developed to provide a common operational software (free) standardization – UICDS
- ✧ Also, open source GIS project:
<http://www.beegis.org>

Question 2: What are resources in the field for using these products?

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- ✧ Handheld devices, but a crowdsourcing app would be nice
- ✧ A common issue in coordination is multiple agencies responding and how to transmit data in the field
- ✧ Paper maps still most reliable
- ✧ For geologists, laptops/tablets better than pdas and phones
- ✧ Satellite phones are most fail safe
- ✧ Systems do exist for taking video, photo, metadata and annotations into cell phone and upload; GPS data required, works on android
- ✧ Need a way to filter relevant data; vetting data for reliability

Question 3: What are the challenges for the use of computer or network based information products?

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- ✧ The state has response plans for this, divided into regions to set up command posts
- ✧ Capacity is a problem
- ✧ Bandwidth
- ✧ Facilities
- ✧ Pre-event preparation
- ✧ GIS challenges (information can be difficult to transmit, needs to be web-based)
- ✧ Web mapping systems have the advantage of accepting communications from any online source, flexible, open architecture, avoiding proprietary solutions, though GIS has made great strides
- ✧ Rapid data delivery

Question 4: How can these challenges be addressed?

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- ❖ Open source, open system, thought-out workflows, compatible data formats.
- ❖ Find ways to get humans out of the loop
- ❖ Keep systems up to date, use the system all the time, not just during emergencies, manage technology that is rapidly evolving
- ❖ Leverage NASA's global scope to exercise the infrastructure to look at earthquakes daily
- ❖ Coordination across projects... work with Clearinghouse

Question 5: How can we get updated products into use?

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- ✧ How do we push out updated data without overwhelming users during an emergency?
- ✧ RSS feeds
- ✧ Other subscription options... text updates?
- ✧ Federated system, synching and multicasting