Ushahidi
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Crisis Mapping

- **Real time mapping for times of crisis**
- **Document political turmoil, natural disasters, protests, infectious disease outbreaks, etc.**

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History: Growth of Ushahidi Platform

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Demonstration - Different Platforms

Ushahidi
- Crowdmap: simplified, reusable Ushahidi platform

Digital Humanitarian Network
- Amalgamation of past response GIS and other information networks
- Standby Task Force, International Network of Crisis Mappers, etc.
- Uses GIS tech, collaborates with disaster response

ArcGIS Jeffers
- GISt Disaster Response

Ushahidi + OSM in Haiti

Use of Remote Volunteers

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Ushahidi Software

- **Ushahidi Platform** - process, categorize, display data from many sources
- **CrowdMap** - Hosted mapping service
- **SwiftRiver** - Filters and organizes collected data
- **CrisisNet** - Provides formatted crowdsourced data
- **Mobile Apps** - ie SMS Sync
- **BRCK** - Hardware: rugged modem/router

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Crisis Mapping Challenges

- Resources required to file reports
- Lack of internet and mobile phone infrastructure
- Security concerns and political considerations

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Links
http://dhnetwork.maps.arcgis.com/home/

http://opendhn.dhnetwork.opendata.arcgis.com/

http://www.arcgis.com/home/webmap/viewer.html?webmap=21d7daa5f6a56e67b6a6f50ea46f2bec

https://z100demo.crowdmap.com/

http://alerte.md/

http://skfloods.ca/

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ArcGIS Online
- ESRI Disaster Response

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Creation of Ushahidi

- Kenya: 2008 Post-Election Violence
- Activists create Google Mashup
- Allow violence reporting:
    - SMS or online
- Documents human rights abuses

Ushahidi expands

- Grows into non-profit organization
- Provides free, open-source software for custom projects
- Works internationally
- Integrates new technology
- By 2012: 20,000 maps deployed in 130 countries

Ushahidi in Haiti

- Map launched within hours of 2010 earthquake
- SMS shortcode established
- Creole translated by volunteers
- Becomes comprehensive
- Used extensively to provide aid

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Use of Remote Volunteers

Crisis Mapping Volunteers

· Much work cannot be automated
· Thousands of volunteers translate, georeference, trace roads, verify reports

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Humanitarian OSM Team

· Volunteers trace points, lines and polygons based on satellite imagery
· Used where existing basemaps are insufficient

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Impact

· Crowdsourced maps are used extensively by aid organizations
· Many individuals work together on repetitive tasks
· Maps are often most comprehensive available

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