Near-real time web enabled monitoring

Mapping bottlenecks on the road network

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a localized disruption/constraint of vehicular traffic on a street, road, or highway
- Low lying areas
- Swamps
- River/Stream crossings
- Rock fall/Landslide areas
Bridge washed away...Palabek-Atiak at R. Onyama.
**modus operandi,** then

- Visit of site
- Collection of data – Pictures, pertinent information, coordinates
- Compiling of report
- Submission, Review, Site revisits, more reports
- More reports, Action.
as a result, problems

- Duplication
- “Unsharable” experiences
- Data storage - what data storage?
- Spatial analysis element lost
- Delay in response
- Poor communication
solution, make data “gis-able”

• Make data collection electronic – we went mobile
• Data collected via mobile phone
  • Pertinent information, pictures, videos
• Via Internet connection | sent to server
• Data stored | quick analysis | sharing
  • NRT information
products - maps, statistics, spatial analysis

- Viewing attribute information
- Viewing and downloading reports
- Viewing and downloading pictures
- Viewing and downloading videos
- Accessing websites/alternative data locations
products – maps, statistics, spatial analysis
seeing, believing

Let's see
benefits, now

Communication – Cut-offs, diversions
Quick response
Improved data storage and retrieval
Data sharing - Search by attribute, Re-use
Planning and decision support
Spatial analysis – cause or related
possibilities, today-tomorrow

- Crowd-source???
- Training needs???
- Publicly viewable???
- Part of a smarter road network??
- Many more roles??
interested, let’s talk