ArcGIS Online as a Flood Recovery Application

Lisa Shertz
City of Longmont, Colorado
ArcGIS Online for Infrastructure Assessment

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City of Longmont, Colorado
A Bit of Rain...
Critical Infrastructure Damaged

- Streets
- Bridges
- Water system
- Sewer system
- Storm drainage system
- Parks
- Greenways
- Irrigation ditches
Infrastructure Assessment

Engineers and inspectors collecting data
Hundreds of handwritten notes
  Entered and located manually
  Photos too

Resulted in this map...
44”x 86” (111 x 218 cm)  
Dozens of labels and callouts 
An hour to print
A Web Map

Solution to size and complexity
Photos and documents attached
Web Map Advantages

Portable
    Meetings
Shareable
    Everyone’s desktop and mobile device
Zoom-able
    See the details
Up to date
Not All Problems Solved

Hand collected data = hand entered data
Geolocation
Photos
  All named ECO7889.jpg
Duplicates
More work
  New data
  Updating
  Corrections
Field Collection Assessment

Local Power Company
Later in the game
More time to plan data structure
Want to collect data in the field
Collector Application

Tablets and phones
Data immediately available
Restrictions on data collected
  Fields and domains
Web map in AGO
After the Flood

Spring runoff planning
Templates
Other departments
Outcomes

Do plan for web maps
Do plan for field collection
Culture of collectors
  Tech savvy
  Buddy system