CATTARAUGUS COUNTY

R.E.D.

GIS SYSTEM







Who we are:

Paul Frey

- Cattaraugus County GIS Coordinator
 - **2010 2012**

Daniel Martonis

- Cattaraugus CountyGIS Coordinator
 - **2002-2009**
- Real Property & GIS Director
 - 2009-Present

What we have:

- GIS Coordinator
- ESRI ELA
 - \$50,000 (based on population)
 - Unlimited installs of GIS software
- Small County
 - Intimate working relationship throughout all Departments
 - No toe-stepping

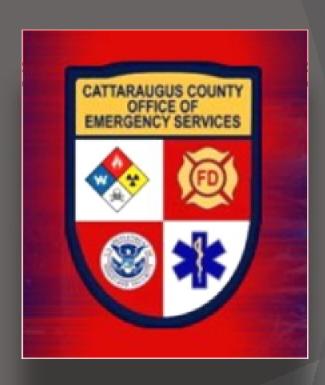
What you need:

- Centralized GIS Database
 - Example
 - Emergency
 - Ambulance and Fire Districts
 - Fire Station locations
 - Helicopter Landing locations within ASP
 - Flood data
- RED GIS can be achieved using existing infrastructure
- If none exists, not hard to obtain

RED GIS

- R Real-time
- E Emergency
- D Deployment

- G Geographic
- I Information
- S Systems

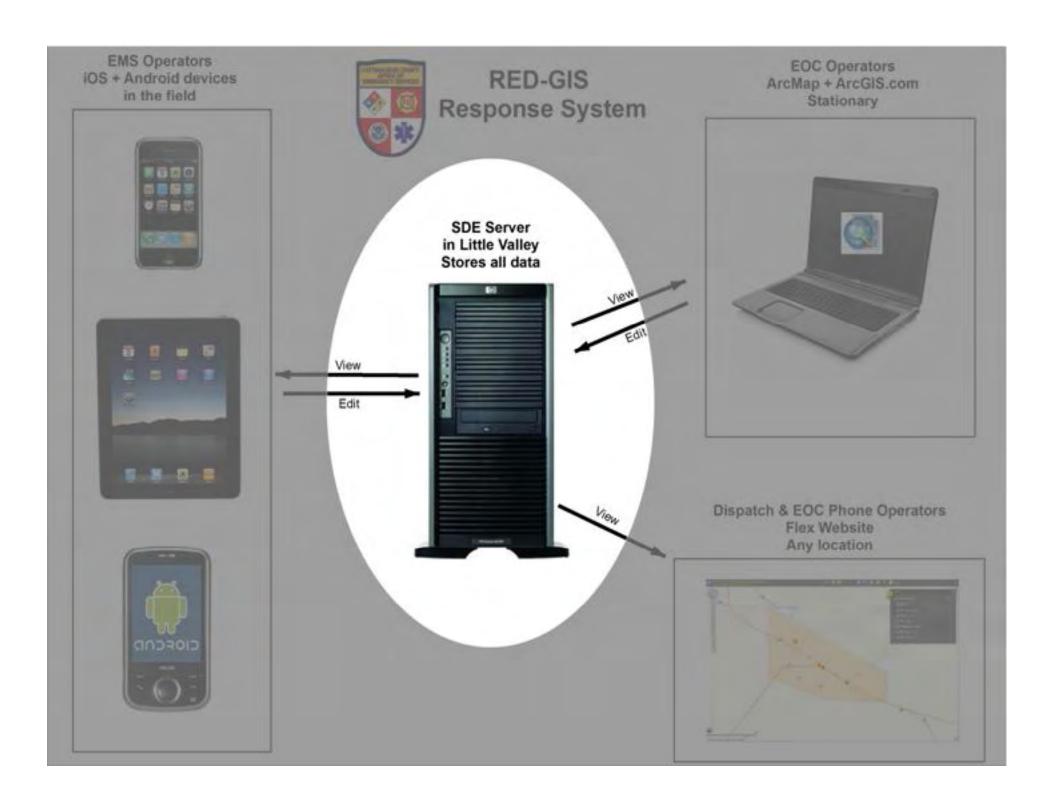


Advantages

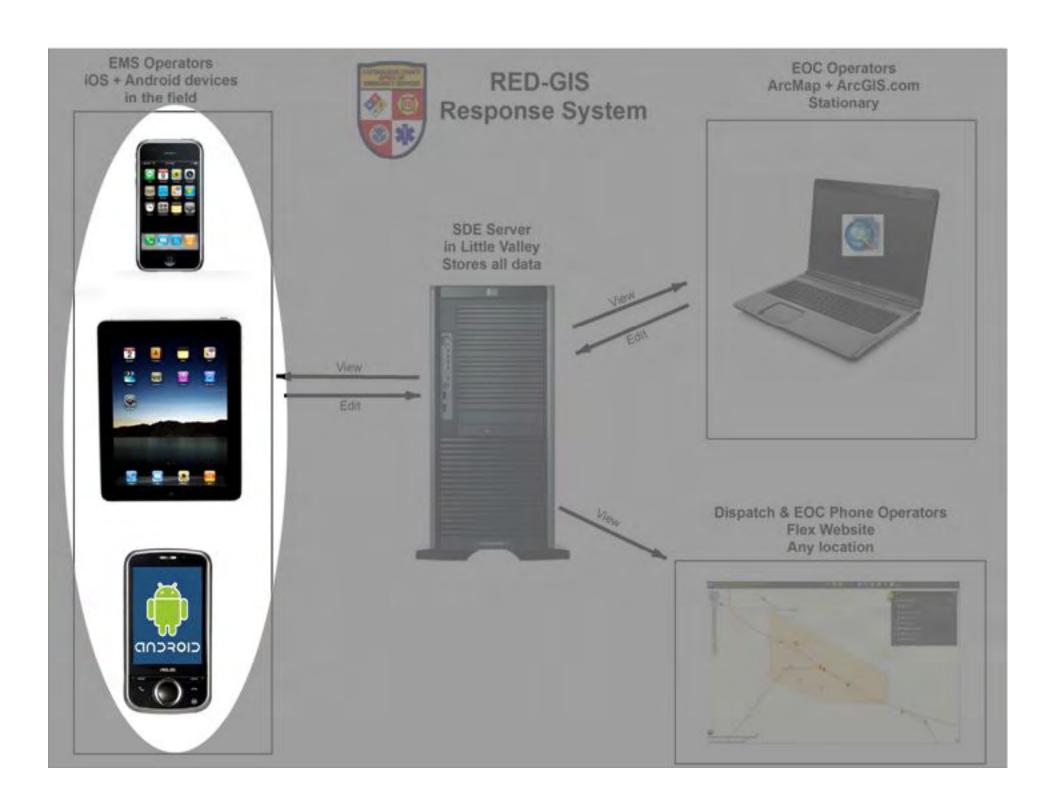
- Functional, yet never done adapting
- Forced organization
- Forced communication
- Simple: pick up and go
- Secure
- Made with existing GIS/IT infrastructure
 - Eliminating many private company costs

EMS Operators EOC Operators RED-GIS iOS + Android devices ArcMap + ArcGIS.com in the field Stationary **Response System** SDE Server in Little Valley Stores all data View Edit Dispatch & EOC Phone Operators Flex Website Any location CIOSCUD

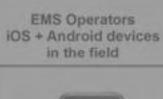
HEADIN "THE CLOUD"



UNITS IN THE FIELD



GIS ANALYSTS IN EOC





RED-GIS Response System

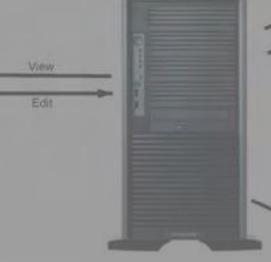
EOC Operators ArcMap + ArcGIS.com Stationary







SDE Server in Little Valley Stores all data



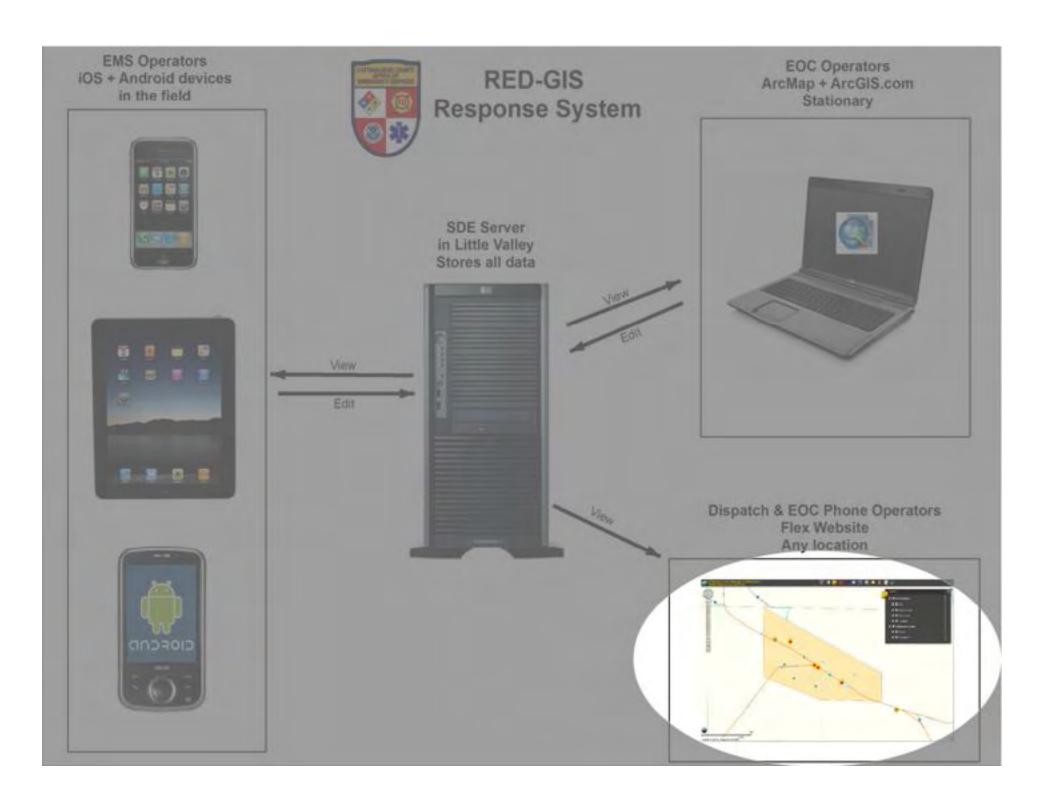




Dispatch & EOC Phone Operators Flex Website Any location



DISPATCHERS & PHONE OPERATOR "VIEWER"



Primary Role

- In Cattaraugus County:
 - Damage Assessments

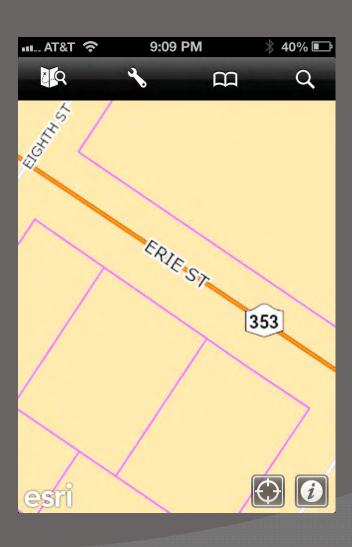
- In Your Jurisdiction:
 - ?????

To Serve Damage Assessments:

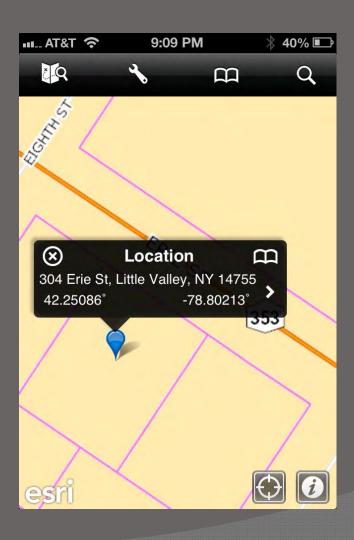
- "Cloud" Services:
 - Damage Assessments
 - Mild
 - Moderate
 - Severe
 - Road Status
 - Clear
 - Caution
 - Closed

DAMAGEASSESSMENTS

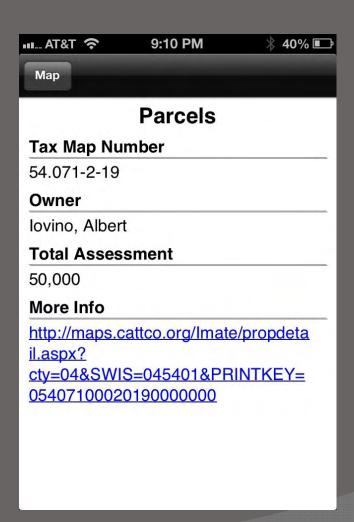
Locate Yourself in Field



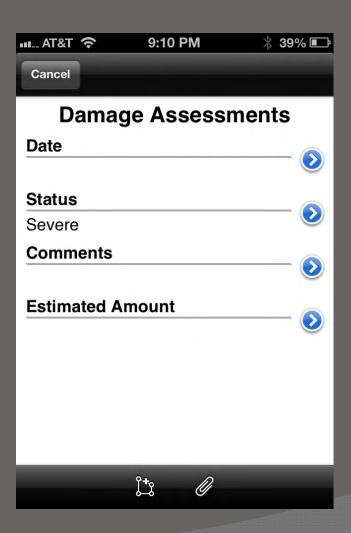
Tap Parcel



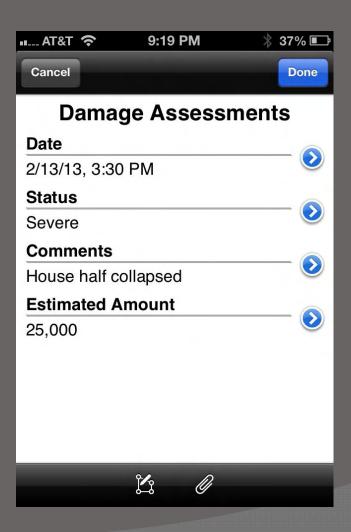
Parcel Information



Collect Damage Assessment



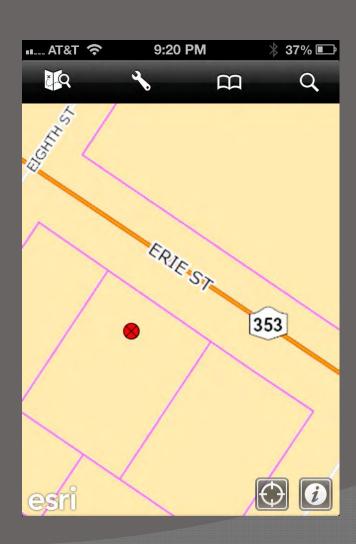
Enter Attributes



Place the Point



Done.

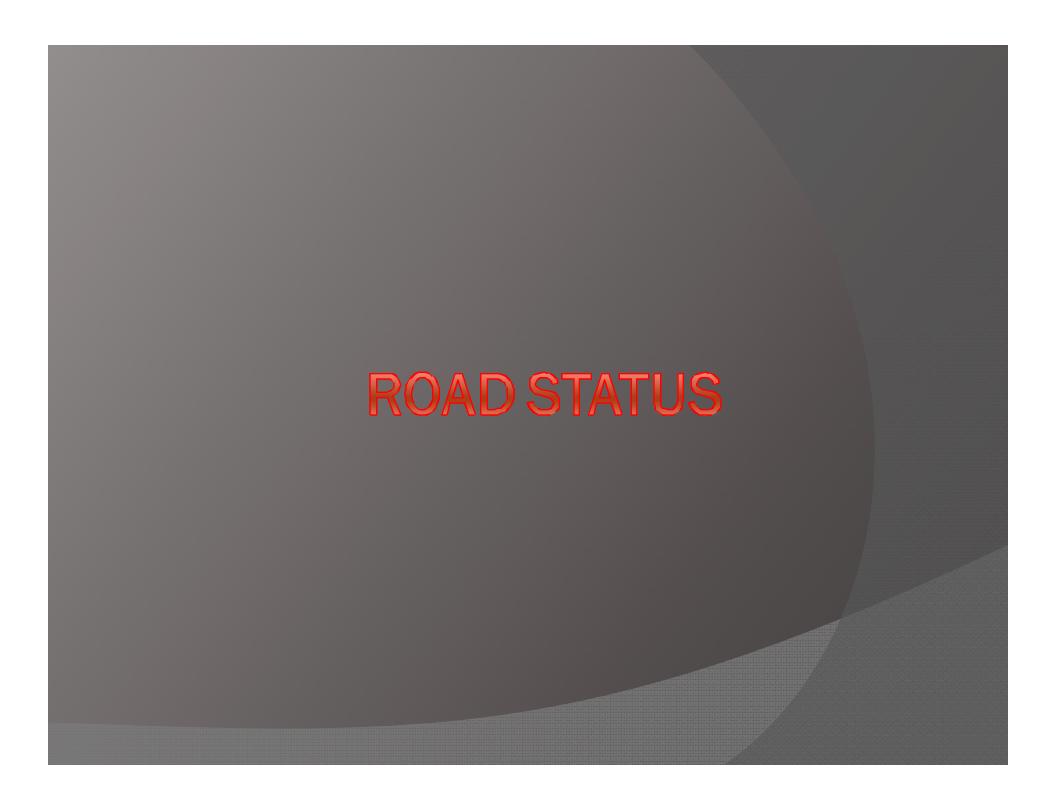


Damage Assessments Cont.

	Α	В	С	D
1	Date	Status	Comments	Est. Amount
2	2/4/12 8:31 AM	Severe	House half gone	40,000.00
3	2/4/12 8:33 AM	Mild	Roof shingles blown off	1,000.00
4	2/4/12 8:40 AM	Moderate	Porch detached from house	2,000.00
5	2/4/12 8:43 AM	Moderate	Barn in back has collapsed roof	4,500.00
6	2/4/12 8:46 AM	Severe	House burned down, total loss	132,000.00
7				

Damage Assessments Cont.

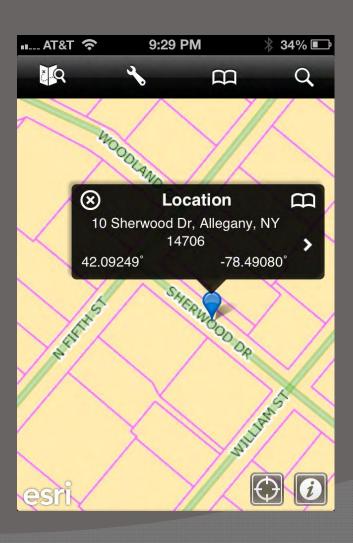
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6	2/4/12 8:46 AM	Severe	House burned down, total loss	132,000.00
7				
8				
9			Total	179,500.00
10				



Locate Yourself in Field



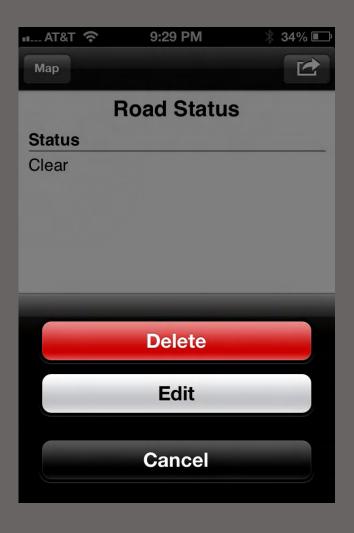
Tap Road

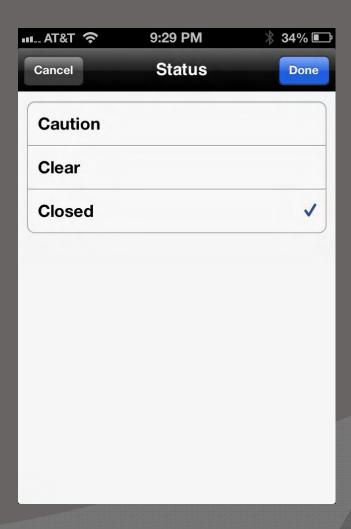


Status of the Road



Edit to Change Status





Done.



Deployable Services:

- Health Department Patient Points (Local)
 - Level 1 Critical: cannot miss services
 - Level 2 Moderate: Can miss a day of services
 - Level 3 Missing services not life threatening
- NOAA
 - Live Radar Feeds
- AHPS River Gauges Forecasted/Observed
 - Normal Stage
 - Action Stage
 - Flood Stage

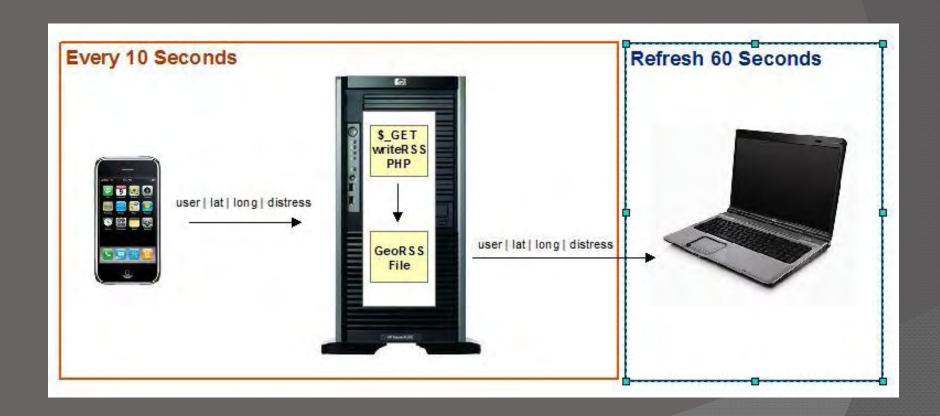
Health Department Patient Points

- Ask department for data
 - "Not a priority"
 - "It's private information"
- Danger Imminent
 - Hurricane Sandy 2012
 - Gave us data....

...hours before landfall



GeoRSS Unit Tracking



GeoRSS Unit Tracking

ıııl AT&T 奈

Tracking Send Distress Signal OFF Longitude: -78.80107697900822 Latitude: 42.2522709373755 Accuracy: 213.2 feet Map Satellite Cattaraugus County Sheriff's Office

9:00 AM

1 99% ■

ON

m

*False Accuracy

Back in the EOC



Contact Information

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