

GIS in the EOC/ICP

David Runneals

- Student, Northwest Missouri State University
 - GIS Intern, Iowa Department of Transportation
 - GIS & Market Analyst, iEmergent
 - Member, Northwest C-CERT Team
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Covering:

- **Pre-Disaster**
 - **Designing your Geographic Information Services**
 - **Building Datasets**
 - **Leveraging Existing Authoritative Datasets**
 - **Apps**
 - **UAV's**
- **Post-Disaster**
 - **Utilizing GIS in the ICP**

Pre-Disaster

Pre-Disaster: GIS Architecture

- **How are you going to view/maintain your data?**
 - **Application-Centric GIS System**
 - “Silo of Excellence”
 - Lack Enterprise Geospatial Architecture
 - One GIS Software Product
 - **Database Central Software Neutral**
 - Stores Geometry & Data in Enterprise Databases
 - Allows Collaboration between IT, GIS, EM, and others
 - Multiple ways to Consume & Maintain Data
 - GeoMedia
 - ArcGIS Family
 - Google Earth
 - Allows Everyone to Leverage Data
 - Provides Redundancy & Live Map Collaboration

Pre-Disaster: Building Datasets

- **Remote Sensing Products**
 - Imagery
 - Pictometry
 - LiDAR
 - Analysis of Products
 - Flood Inundation Maps
- **County Parcels**
 - Query Property Owners
- **County E-911 Address Points**
 - Query Address Labels

Pre-Disaster: Leveraging Existing Authoritative Datasets

- **Cities**
 - Medical and Elderly Care Facilities
 - Schools and Daycares
 - City Utilities
- **Counties**
 - Parcels
 - E-911 addresses
- **FCC**
 - Wireless Communication Towers
- **US DOT**
 - Main Pipelines
- **FEMA**
 - Hazus
- **Private Organizations**

Pre-Disaster: Building/Configuring Apps

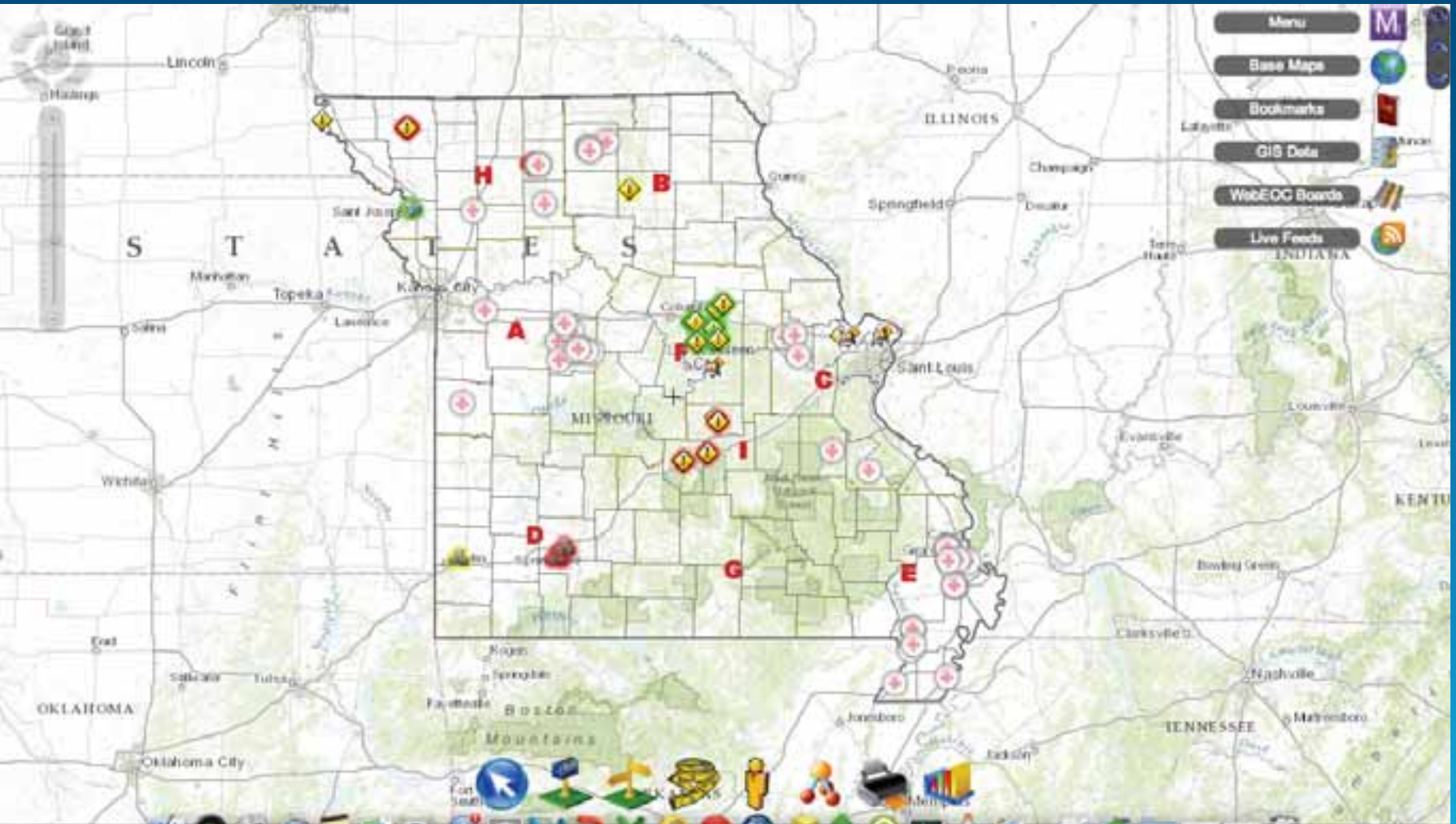
- **EOC**
 - COP
 - WebEOC
- **ICP**
 - COP
 - WebEOC
- **Field**
 - Damage Assessments
- **Tracking/Communication (AVL/MACH)**
 - Assets
 - Personnel
 - SAR Teams
 - Damage Assessment Teams

Pre-Disaster: Ordering/Preparing UAVs

- **Near real-time visualization**
- **Identify Hazards**
 - **Flooding**
 - **HazMat Zones**
 - **Damaged Buildings**
- **SAR Efforts**
- **Many available sensors (visible, thermal, IR, etc)**

Post-Disaster

Post-Disaster: Apps in Action – WebEOC Mapper



Post-Disaster: Apps in Action – Damage Assessments

Damage Assessment

Incident: Train the Trainer - NWMSU 4-2014

Details

Jurisdiction:

County:

Region:

Prepared By:

Primary Phone:

Secondary Phone:

Fax Number:

Email Address:

Area: Unincorporated Entire County

Included Cities:

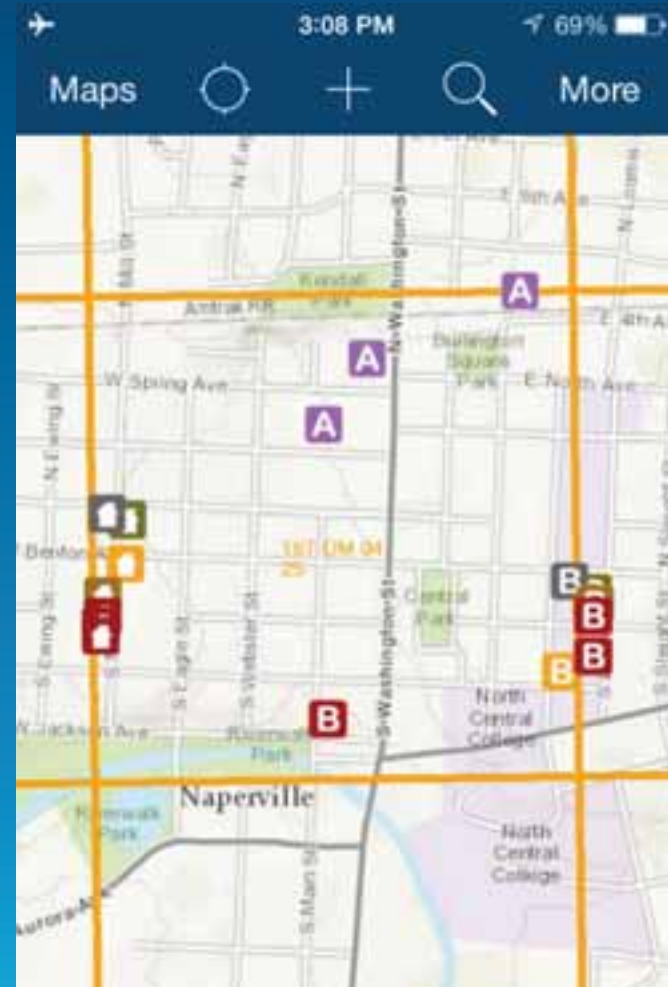
Part I: Private Property (Cumulative Damages)

| Property Type | # Destroyed | # Minor Damage | # Major Damage | # Affected | Estimated Minor Loss | Estimated Insurance P/L |
|------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Permanent Homes | | | | | | |
| Single Family Homes | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Multi-Family Homes | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Mobile Homes | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Businesses | | | | | | |
| Business / Industry | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Non-Profit Orgs | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |

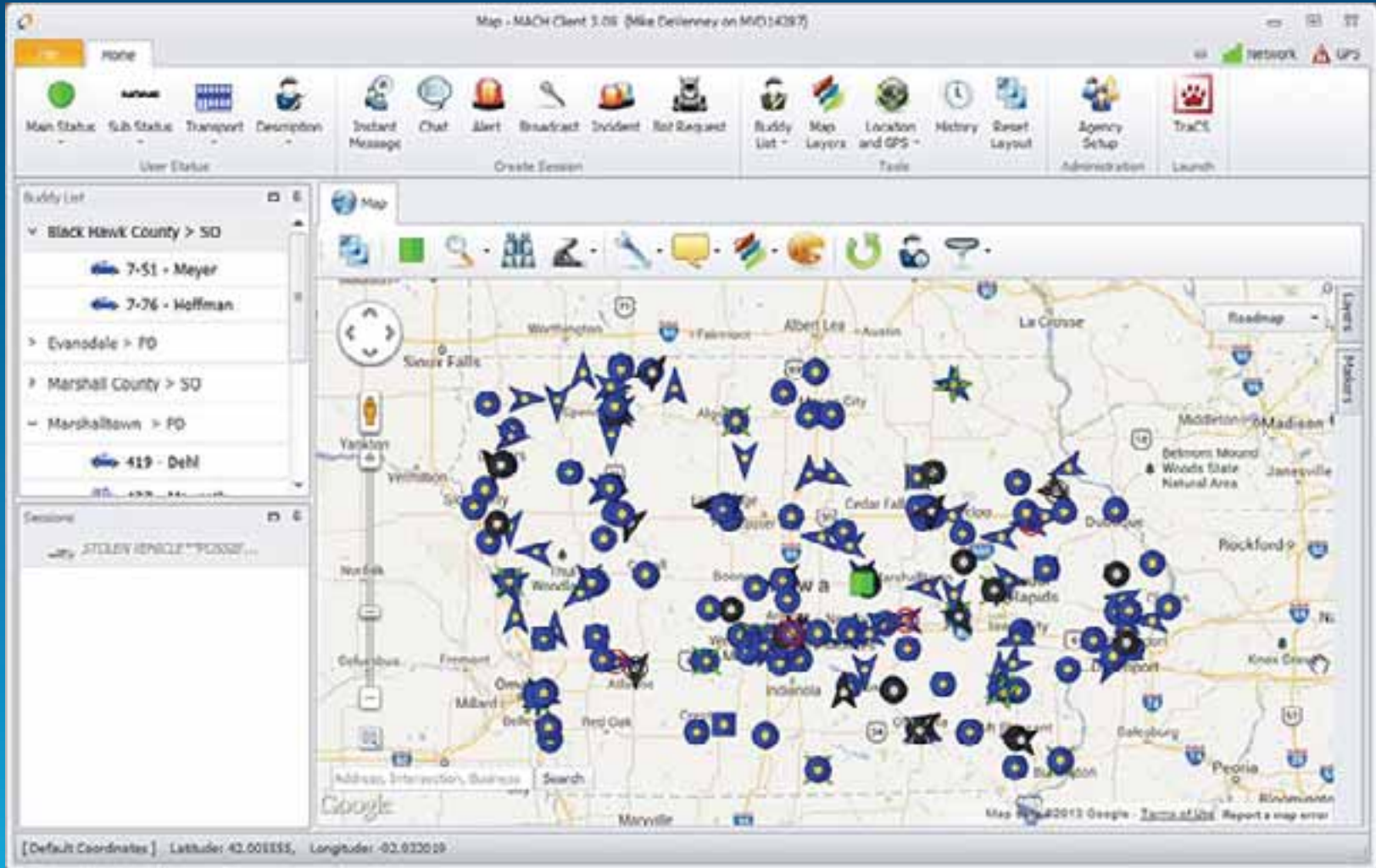
**Do not enter commas in the number fields.

Part II: Public Property (Includes eligible non-profit facilities) (Cumulative Damages)

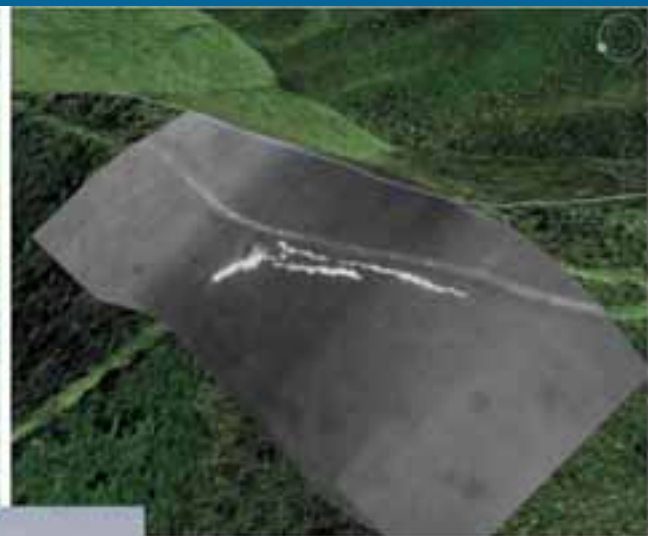
| Type of Property | # of Sites | Estimated Dollar Loss | Injured (%) |
|--|--------------------------------|--------------------------------|--------------------------------|
| Category A (Debris Removal) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Category B (Emergency Protective Measures) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Category C (Roads and Bridges) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Category D (Water Control Facilities) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Category E (Public Buildings and Equipment) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Category F (Public Utilities) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Category G (Parks and Recreation Facilities) | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |



Post-Disaster: Apps in Action – AVL/MACH



Post-Disaster: Field UAVs



Questions?

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