

Fire Tactical Response Guide Solution using ArcGIS Online Web Apps

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Tactical Response Guides

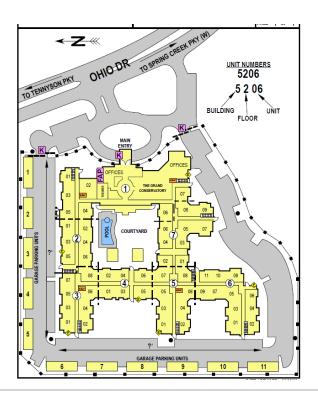
- TRGs for short or Pre Fire Plans
- Not built for every building
- Target Hazard Analysis to identify TRGs
- Plans and guidance information for building and equipment access during emergency
- Seconds matter in an emergency





Original Tactical Response Guide Format

- Paper maps generated in GIS but fire information created in Adobe
- Updates tracked on paper
- Assignment process manually setup each month
- Fire Marshalls would update dispatch with contact information







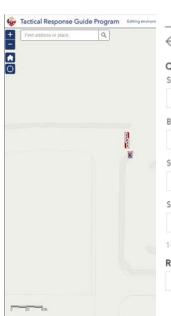
Updating to the Digital Age

- Creating the digital data and how to update them
 - ESRI Web Map Applications adapted from an original ESRI Solution
- Automating monthly assignments per station and shift using Python
- Communicating assignments to the chain of command
- Tracking progress throughout the month
 - ESRI Dashboards
- Creating Central locations to access everything
 - ESRI Hubs

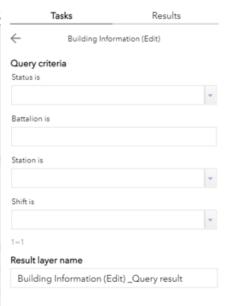


ESRI Web Mapping Applications for editing

- Web map used in field or office for editing data
- Create new features
- Edit existing features
- Hides features marked for deletion
- Editor Tracking
- Filters for finding monthly assignments
- Layer Control





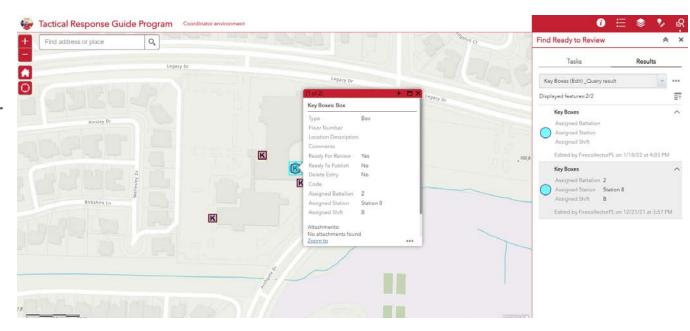






ESRI Web Mapping Applications for <u>review</u>

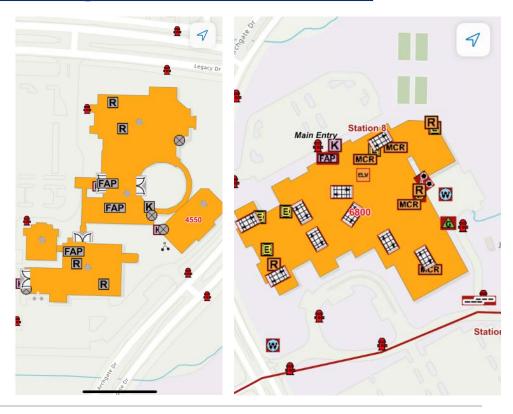
- Assigned personnel reviewing data
- Filters for finding features ready for review
- Smart editor for editing the data
- Hides features approved for deletion
- Nightly Python script to update approval state





ESRI Field Maps for utilizing data in the field

- Greyed out unreviewed data
- Hides approved data marked for deletion
- All data shown for field personnel
- Utilized for navigation and in field operations, no editing
- Replaces paper maps
- Maintaining paper versions
- Access to attribute information



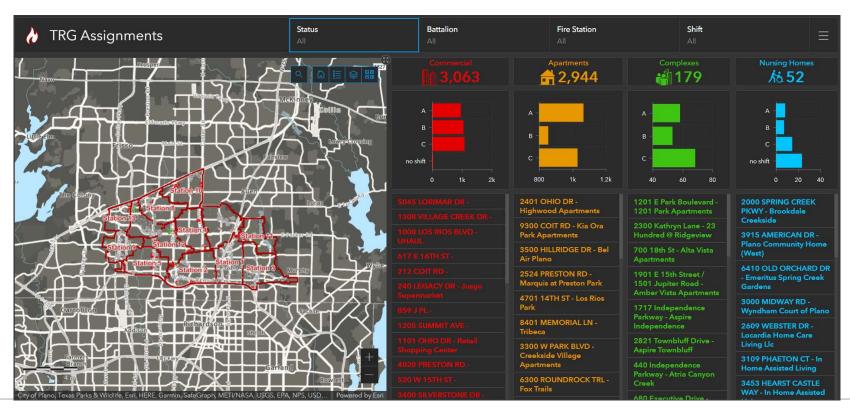


Monthly Python Script

- Creates monthly building assignments per station and shift
- Prioritizes by Max/High/Standard risk level buildings
- Prioritizes oldest data
- Ability to update number of assignments as needed
- Tracks Assignments and Delinquencies

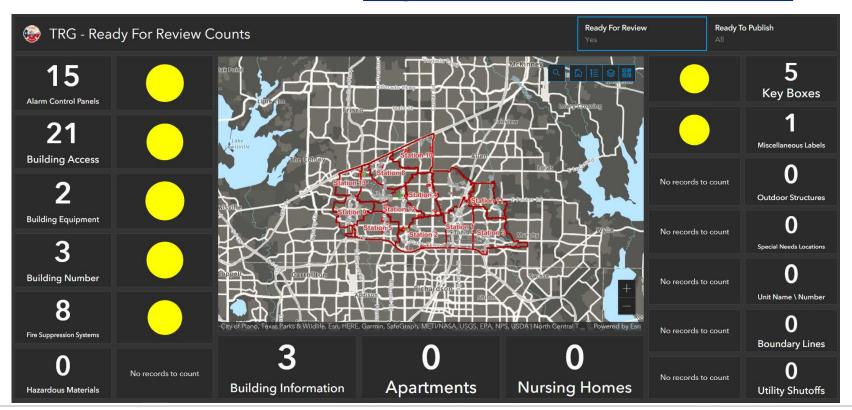


ESRI Dashboards for <u>tracking progress</u>



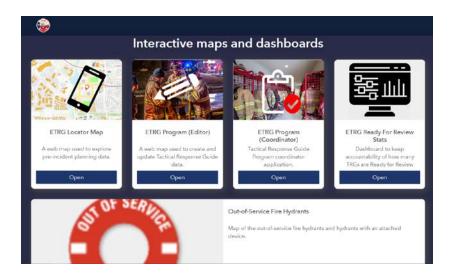


ESRI Dashboards for high level status updates





ESRI Hubs for accessing information





Contact Information

FD Technology



Challenges

- Getting original data into a GIS format
- Project changing GIS Analyst hands
- Many hands in the honey pot
- Reconciling everyone's vision for the overall goal



Future Work

- Fire Department is preparing training materials
- GIS Staff to assist in training session on using the products
- Testing it in the field for a few months
- Continuous evaluation and upgrades





Thank you

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