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USING DIFFERENT APPS TO COLLECT PREPLAN INFORMATION



TOPICS

- ✖ Why use GIS for Pre-Incident Planning
- ✖ Apps that can be used to collect preplan data
- ✖ Form up in “companies” to collect data (and treasure)
- ✖ Muster and discuss pros and cons of each app



CHRIS ROGERS

- ✖ Fire Captain
- ✖ BS Cartography (GIS option) from University of Idaho
- ✖ 34 years of fire service experience
- ✖ GIS/Pre-fire coordinator for the Kirkland Fire Department



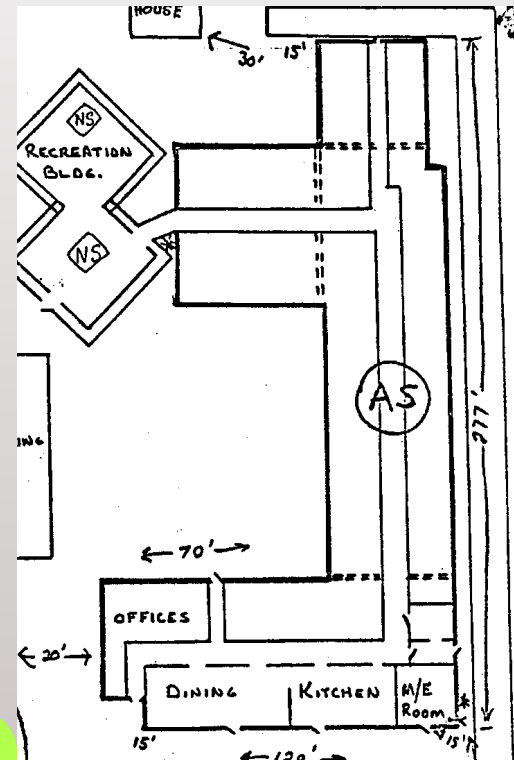
WHY DO PRE-INCIDENT PLANS?

- ✗ Increases firefighter safety
 - + *Many NIOSH firefighter fatality reports cites lack of a pre-fire plan as a major problem*
- ✗ Provides information for first responders on an emergency scene
- ✗ “Firefighter’s map of the hazard”
- ✗ Re-enforce Firefighter Knowledge



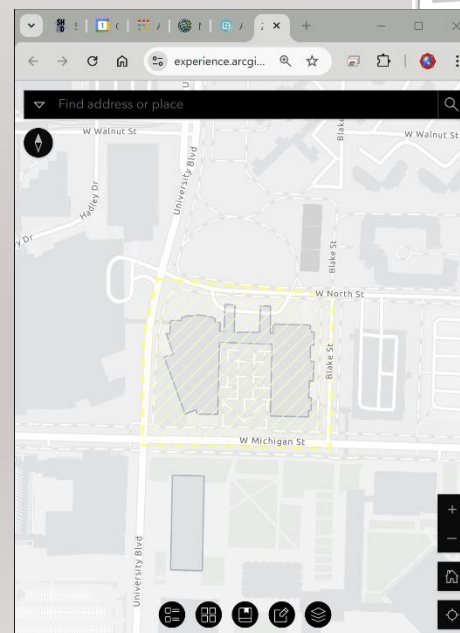
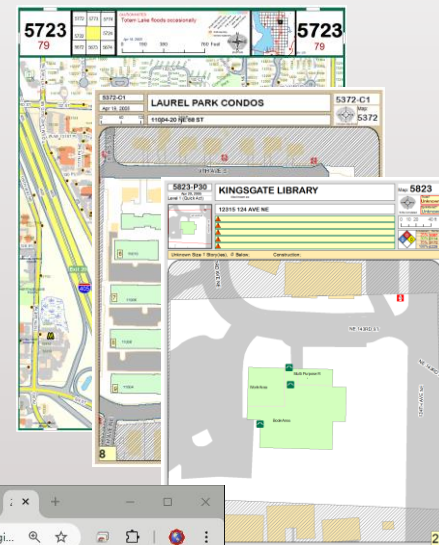
HOW ARE PREPLANS USED TO BE CREATED?

- ✗ Diagrams created using graphics program or hand drawn
 - + Must maintain separate files
- ✗ Database maintained separately
- ✗ Basically, files in a file cabinet
- ✗ Creates duplicate work



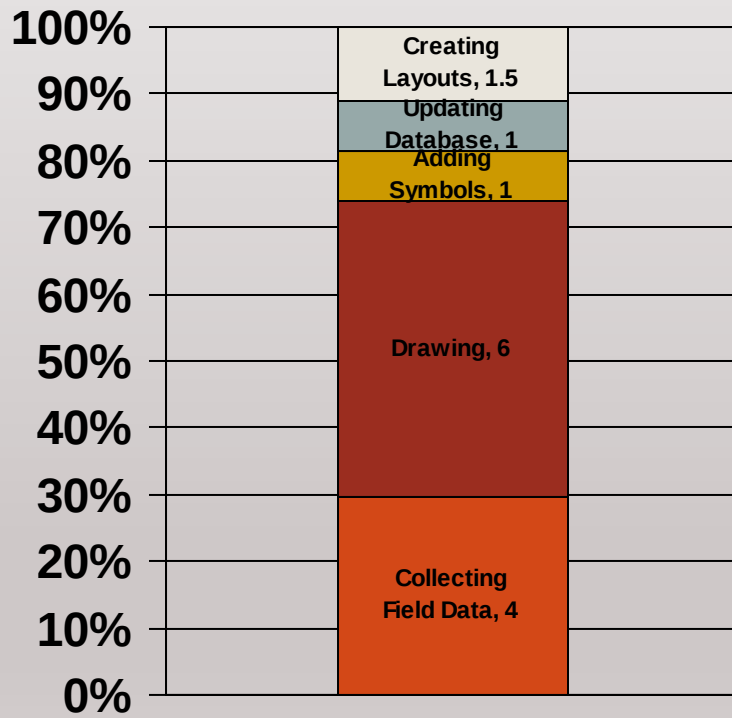
WHY USE GIS FOR PRE-INCIDENT PLANNING ?

- ✗ Reduces duplicate work program
- ✗ Flexibility in creating views of information
- ✗ Symbols can be changed globally
- ✗ Combines the diagram (map) with the database
- ✗ Increases interoperability between departments
- ✗ Reduces field work
- ✗ Use with third party applications (First Due, Intterra, CAD, Tablet Command, etc...)

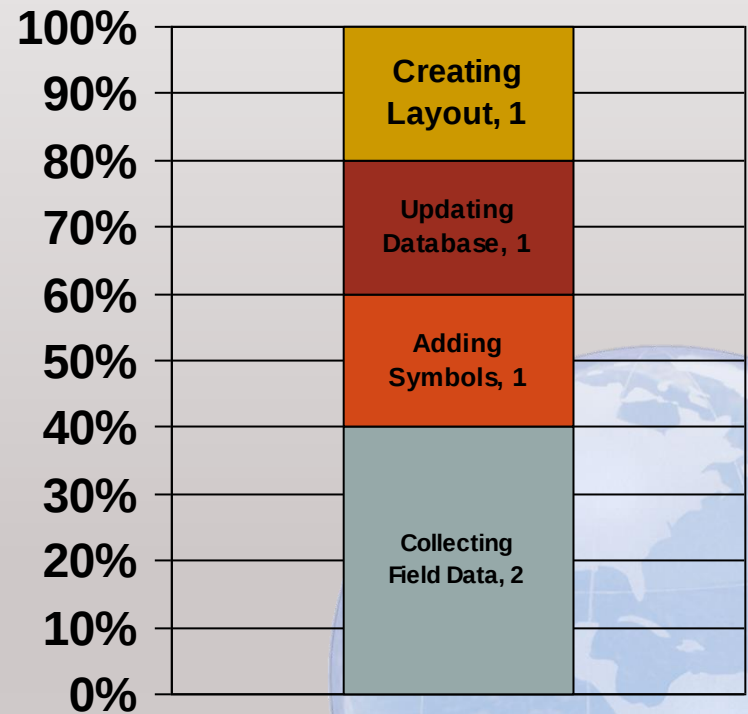


OLD VS. NEW

Old Way



Using ArcMap





THE “APPS”



APPLICATIONS USE IN DEMO

- ✗ Survey123
 - + A form-based tool to collect a single feature layer
- ✗ QuickCapture
 - + A simple “Push Button” data collection for “new” information
- ✗ Experience Builder
 - + A no code development environment to view data in a flexibly designed format
- ✗ Field Maps
 - + Map-based collect
- ✗ Paper
- ✗ You already have these apps!!

I Axis Building Footprint

Select Building Shape
Click on existing building footprint to edit

Building Name
No formal name of building. Use the building letter.

Level of Sprinkler Protection
Is the building fully protected, or not protected?

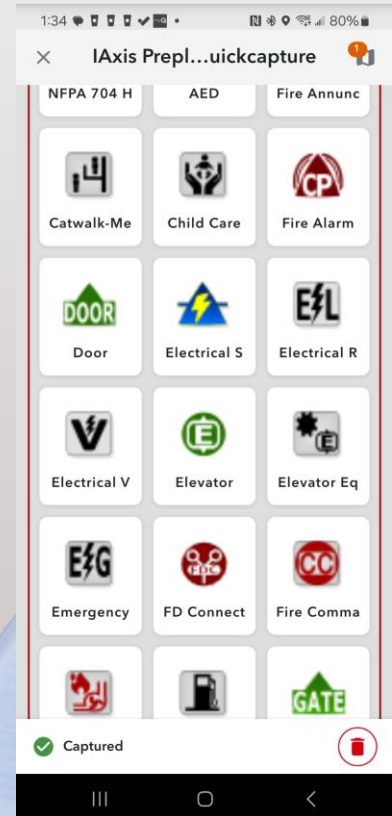
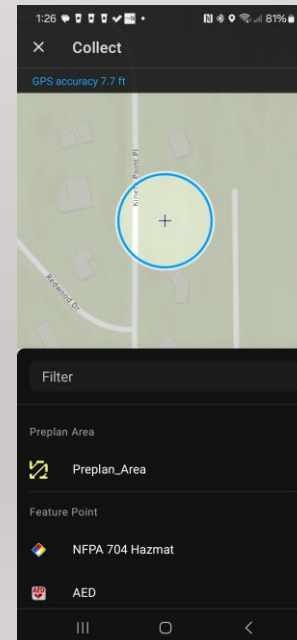
Construction Type

Number of Stories Above
1

Number of Stories Below

Common Building Type

Occupancy Use

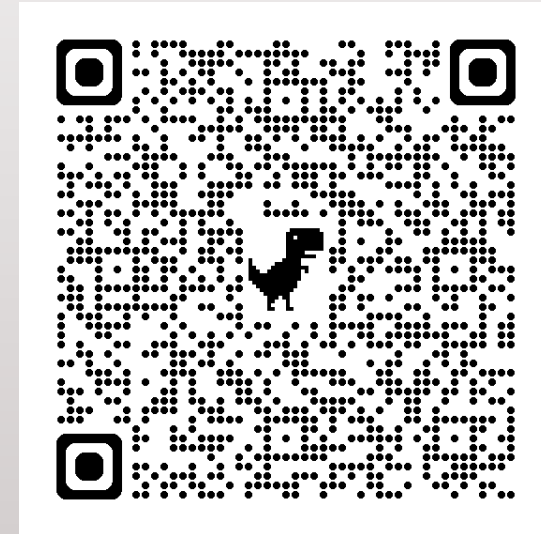
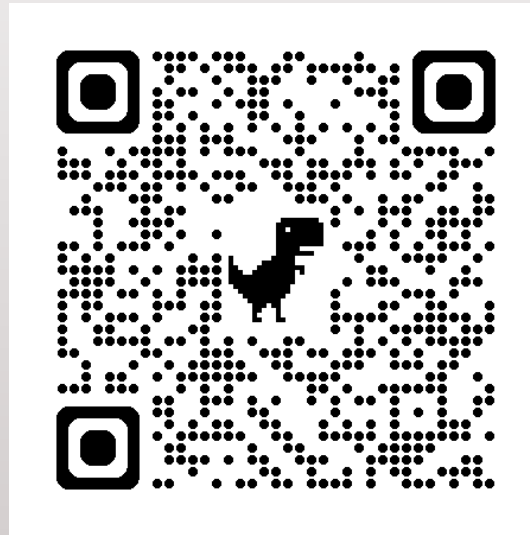
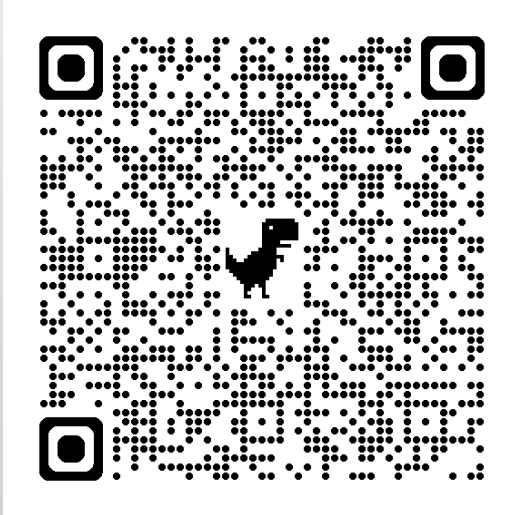




SURVEY123

QUICKCAPTURE

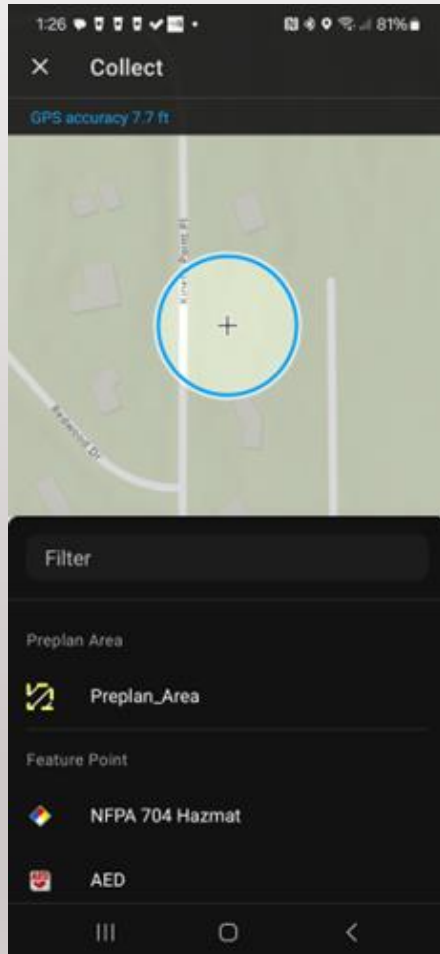
FIELD MAPS



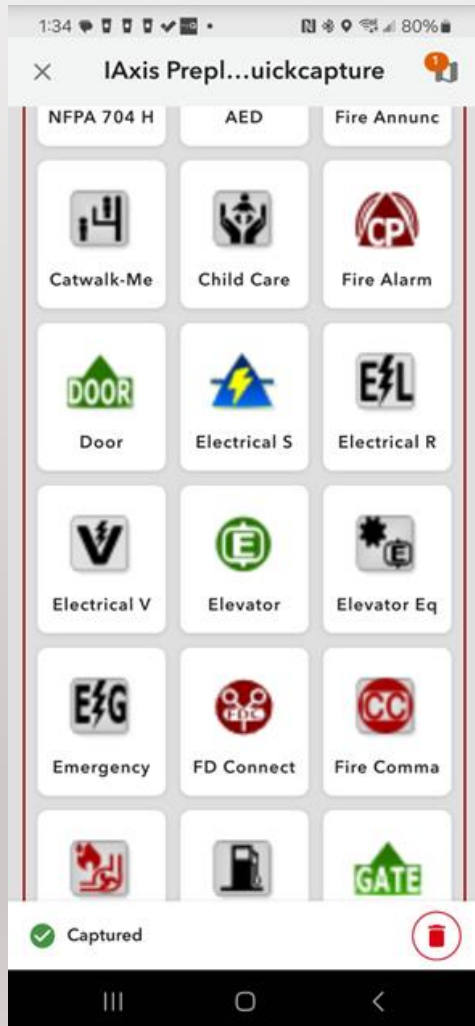
DOWNLOAD APPS



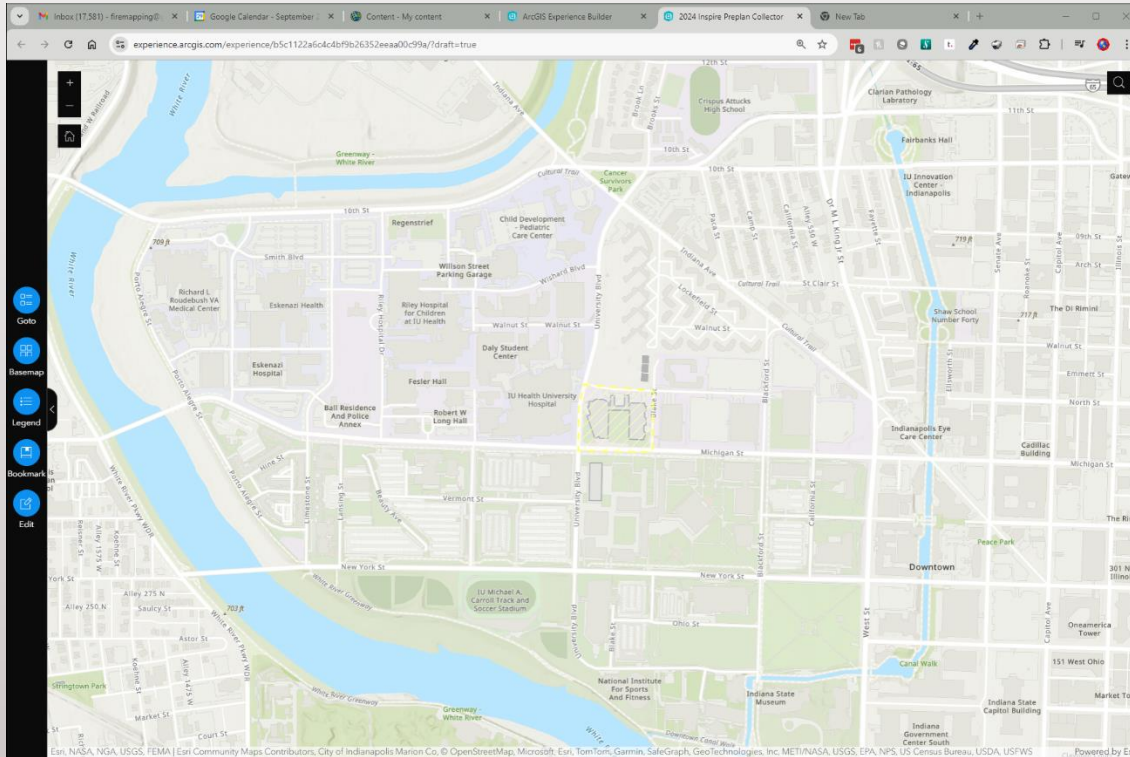
FIELD MAPS



QUICKCAPTURE



EXPERIENCE BUILDER





EXERCISE

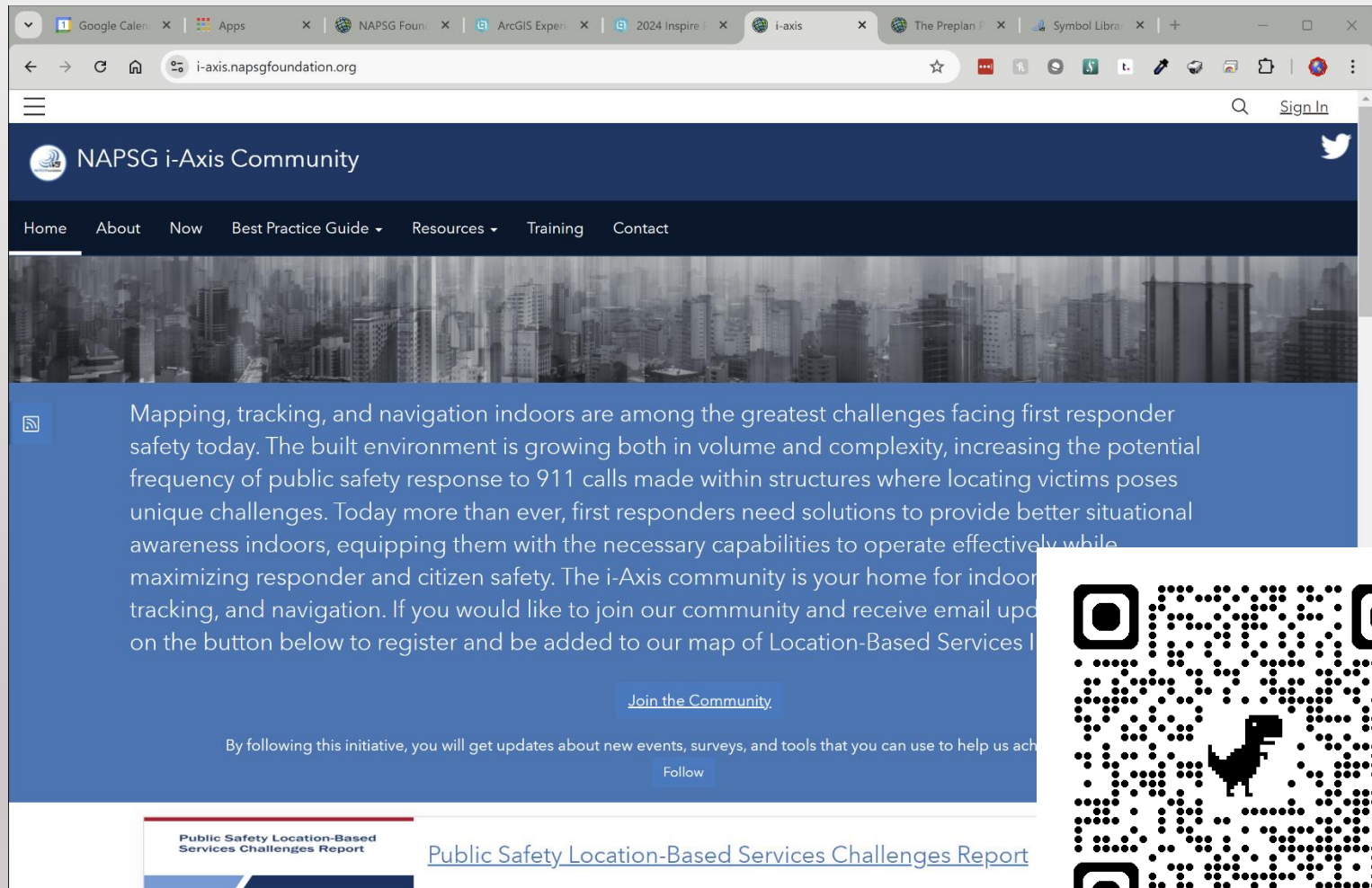


COMPARISON

Field Maps	Survey123	QuickCapture	Experience Builder
Map Based Editing	Form Based Editing	Quick Collection Editng	Map based editing and viewing
Works disconnected	Works disconnected	Works disconnected	Needs Internet
Moderately Customizable Forms	Very Form Based	Very little attribute editing	Moderately Customizable Forms
Can edit multiple features	Can edit a single feature class	Can add but not edit	Can edit multiple features
UI not customizable	Forms are very customizable	Can customize	Very customizable



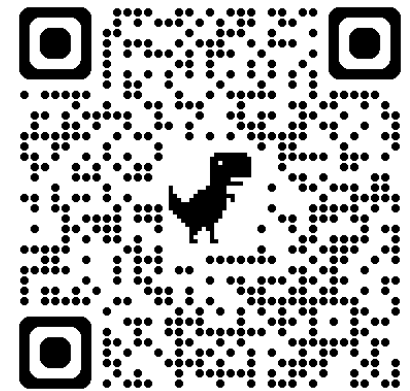
RESOURCES



The screenshot shows the NAPS i-Axis Community website. The browser's address bar displays `i-axis.napsgfoundation.org`. The website header includes the NAPS i-Axis Community logo and a navigation menu with links: Home, About, Now, Best Practice Guide, Resources, Training, and Contact. A large banner image of a city skyline is visible. Below the banner, a blue section contains the following text:

Mapping, tracking, and navigation indoors are among the greatest challenges facing first responder safety today. The built environment is growing both in volume and complexity, increasing the potential frequency of public safety response to 911 calls made within structures where locating victims poses unique challenges. Today more than ever, first responders need solutions to provide better situational awareness indoors, equipping them with the necessary capabilities to operate effectively while maximizing responder and citizen safety. The i-Axis community is your home for indoor mapping, tracking, and navigation. If you would like to join our community and receive email updates, click on the button below to register and be added to our map of Location-Based Services I

Below the text, there is a blue button labeled [Join the Community](#). Further down, a smaller blue button labeled [Follow](#) is visible. At the bottom of the page, there is a footer section with the text [Public Safety Location-Based Services Challenges Report](#).



RESOURCES

the-preplan-project-napsghub.arcgis.com

The Preplan Project Examples Guides and Practices Download and Use Putting Pieces Together More

Guides and Practices
This section contains best practices on how to conduct...
[Explore](#)

Download and Use
Download and Use Page for the Preplan Project
[Explore](#)

Examples
This section contains web examples such as a simple...
[Explore](#)

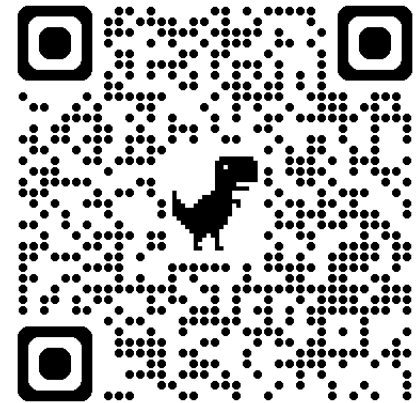
Putting Pieces Together
This page is dedicated to taking a use case example and...
[Explore](#)

A Lost Firefighter is either Dumb or Dead

Hello, my name is Chris Rogers. For over 30 years I have been using GIS in many ways to increase the ability to manage information for fire departments. I have experimented with several ways to manage information leveraging both ESRI and other technologies to create maps and applications for pre-incident information. This includes

- "Map Book" or in vehicle mapping viewing and maintenance
- Pre-incident planning

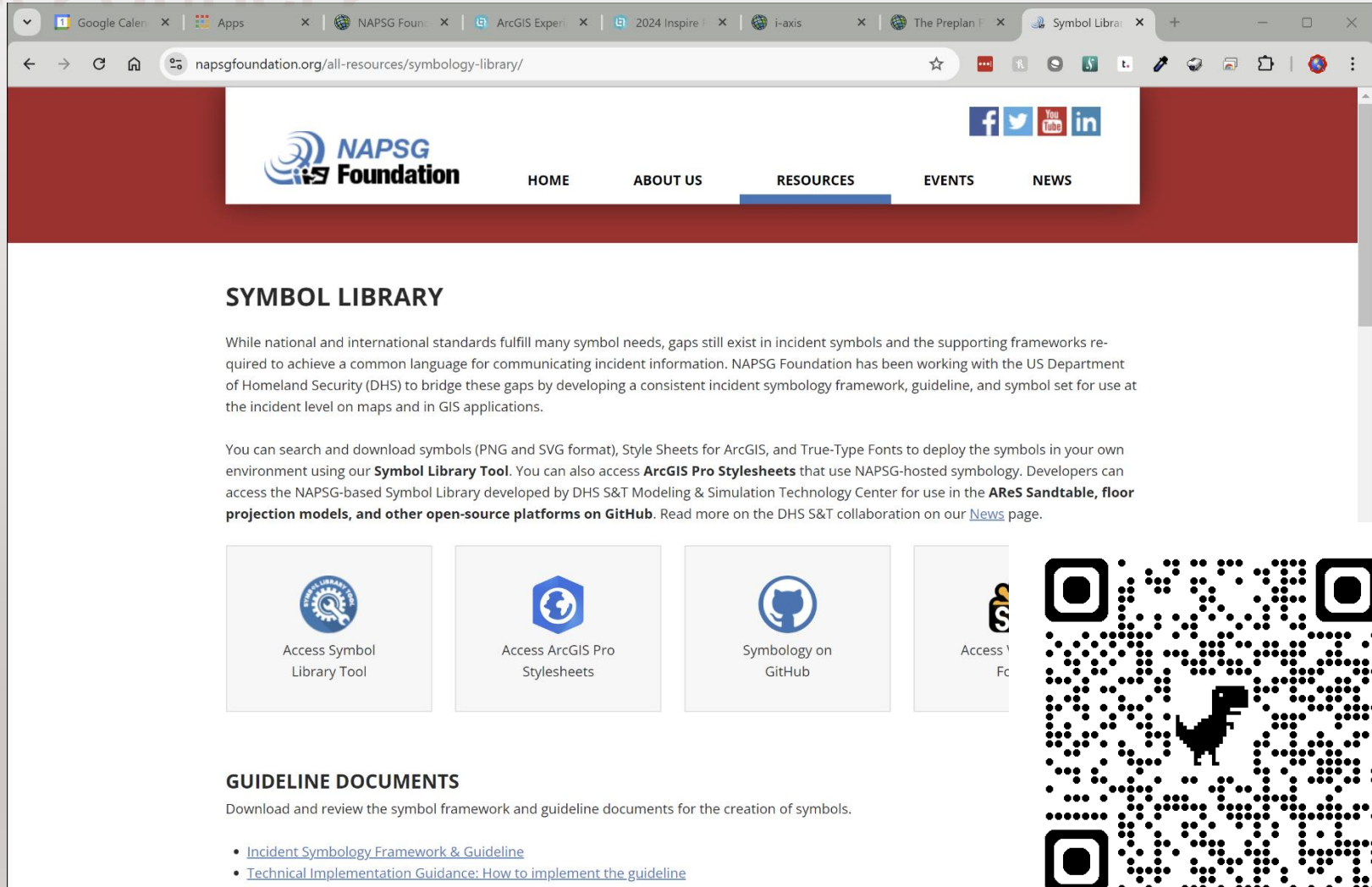
The Preplan Project
Follow Page 2 followers
Timeline



The Preplan Project



RESOURCES



SYMBOL LIBRARY

While national and international standards fulfill many symbol needs, gaps still exist in incident symbols and the supporting frameworks required to achieve a common language for communicating incident information. NAPS Foundation has been working with the US Department of Homeland Security (DHS) to bridge these gaps by developing a consistent incident symbology framework, guideline, and symbol set for use at the incident level on maps and in GIS applications.

You can search and download symbols (PNG and SVG format), Style Sheets for ArcGIS, and True-Type Fonts to deploy the symbols in your own environment using our **Symbol Library Tool**. You can also access **ArcGIS Pro Stylesheets** that use NAPS-hosted symbology. Developers can access the NAPS-based Symbol Library developed by DHS S&T Modeling & Simulation Technology Center for use in the **ARes Sandtable, floor projection models, and other open-source platforms on GitHub**. Read more on the DHS S&T collaboration on our [News](#) page.

Access Symbol Library Tool

Access ArcGIS Pro Stylesheets

Symbology on GitHub

Access NAPS Foundation

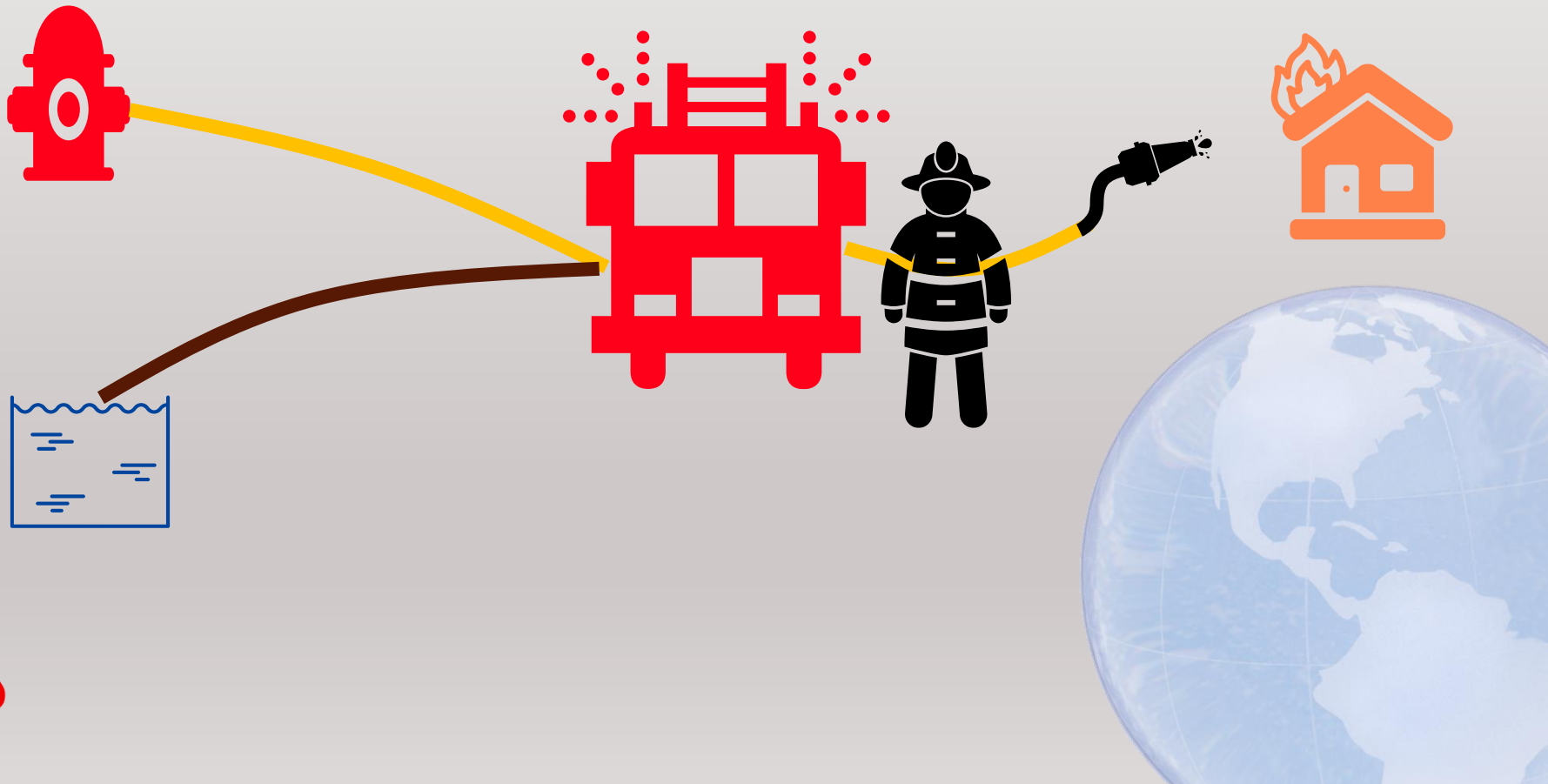
GUIDELINE DOCUMENTS

Download and review the symbol framework and guideline documents for the creation of symbols.

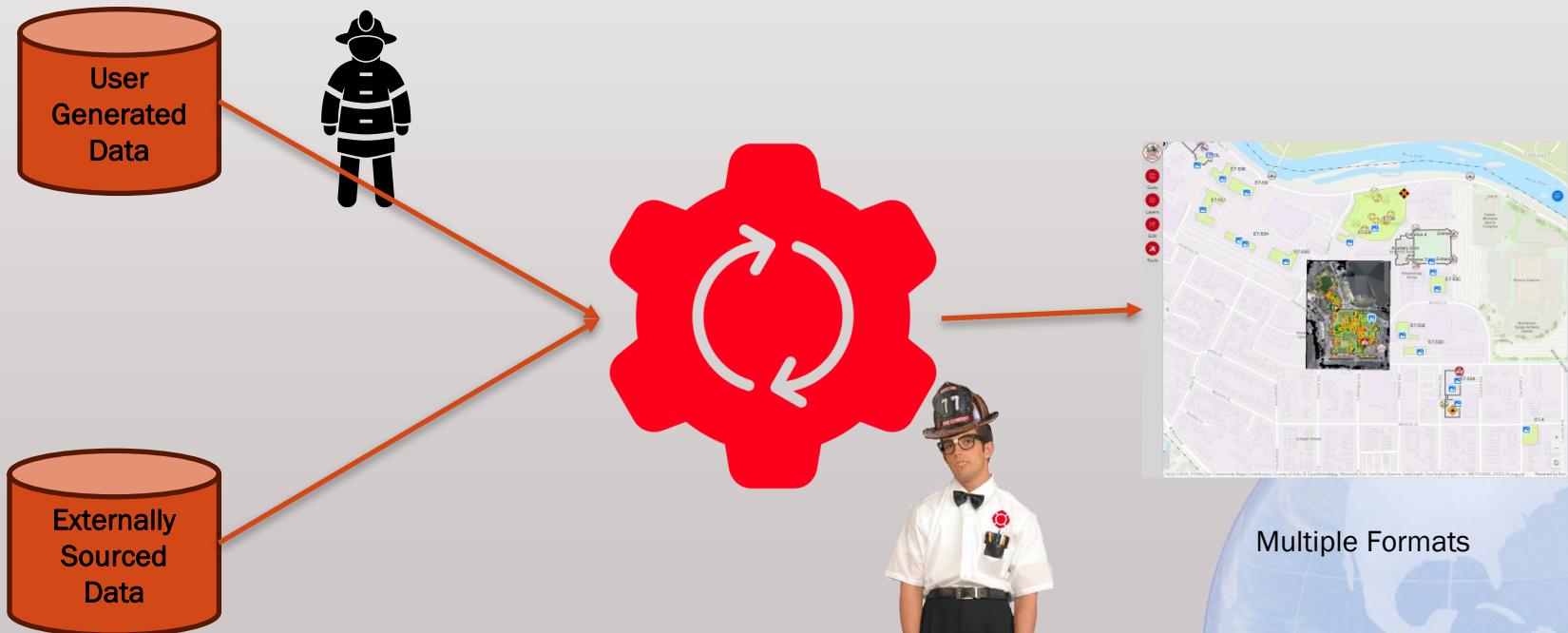
- [Incident Symbology Framework & Guideline](#)
- [Technical Implementation Guidance: How to implement the guideline](#)



THE HOSE STREAM



THE “DATA” STREAM





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QUESTIONS?

