

#### **Defense Solutions**

We support the Defense, Intelligence, and National Security industry



Fully documented and maintained

Fully supported

Open source

Empowering our users with focused workflows that fit their needs



**Our User Community** 



CI/HUMINT Analyst



SIGINT Analyst



Intelligence Analyst



Geospatial Analyst

**Planners** 



Decision Makers



Empowering our users with focused workflows that fit their needs

### **What is Military Tools for ArcGIS?**

Simple, Accessible, and Fully Supported Product

- Essential
- Open Source
- Fully Supported
- Mission Focused
- Easy to Use
- No Implementation Cost



## **Essential tools for Defense and Intelligence**

Core workflows used by Analyst in our Industries

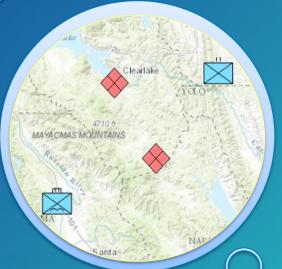
Visibility analysis



**Coordinate Conversion** 

Distance and Direction calculations



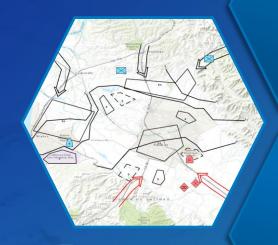


Military Symbol Editor\*

Interactive workflows that support multiple Defense workflows

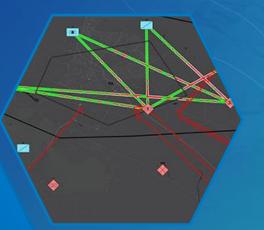
## Military Tools where you need them

Common workflows that work across the platform



ArcMap 10.3.1 – 10.5.1

ArcGIS Pro 2.0



Web AppBuilder (Developer Edition) 2.5



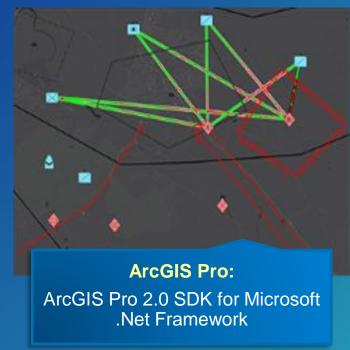
Empowering our users with focused workflows that fit their needs



### What you need

Developers can configure or customize everything we build





#### Widgets:

ArcGIS Web App Builder 2.5
Developer's Edition | JavaScript
3.20

#### **Github**

#### Where you can you find our source code?

Add Ins

**Coordinate Conversion** 

https://github.com/Esri/coordinate-conversion-addin-dotnet

**Distance and Direction** 

https://github.com/Esri/distance-direction-addin-dotnet

Visibility

https://github.com/Esri/visibility-addin-dotnet

Military Symbol Editor

https://github.com/Esri/military-symbol-editor-addin-wpf

#### Widgets

**Coordinate Conversion** 

https://github.com/Esri/solutions-webappbuilder-widgets/tree/dev/CoordinateConversion

**Distance and Direction** 

https://github.com/Esri/solutions-webappbuilder-widgets/tree/dev/DistanceAndDirection

Visibility

https://github.com/Esri/solutions-webappbuilder-widgets/tree/dev/Visibility



## **Add-In Development Experience**

- Use Scrum for development effort
- IDEs used: VS 2015, Sublime Text, Notepad++
- GitHub
  - Main source control
  - Code review
- Testing
  - Unit tests
  - Holistic Tests
  - Jenkins







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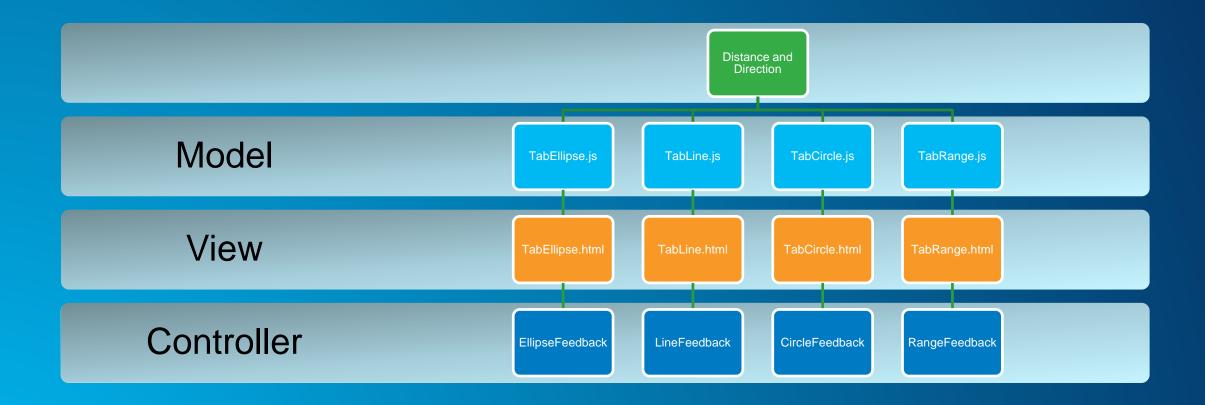
#### **Code Structure**

- MVC widgets
- MVVM Add-Ins
- Single Add-In vs. multiple Component Add-In

## **Code Structure Widgets - MVC**

- Model: Expresses applications behavior independent of the user interface
- View: The output representation of the application GUI
- Controller: accepts input and converts it to commands for model or view

#### **CodeStructure - MVC**



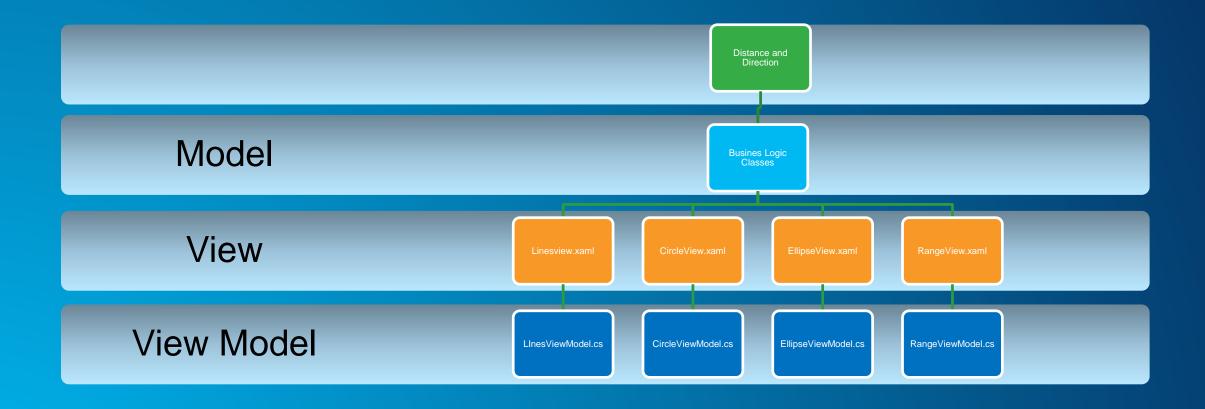
#### **Code Structure Add-Ins - Esri Add-In Framework**

- Makes customizations easy
- Simplifies deployment and sharing
- Can be localized

## **Code Structure Add-Ins - MVVM**

- Model
- View
- View Model

#### **Code Structure Add-Ins - MVVM**



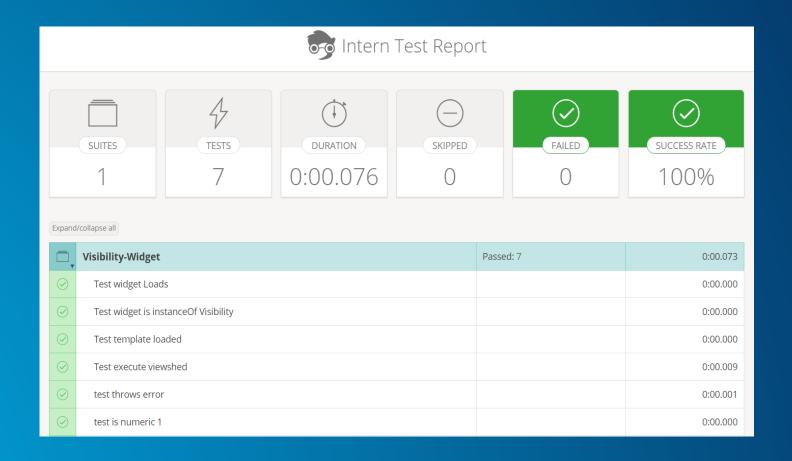
**Code Structure Add-Ins – Single Add-In vs Multiple Component Add-In** 

## **Demo tips and tricks**

- Debugging in Edit Mode
- Debugging in a deployed Application
- Loading jQuery library

#### Demo

- Testing Framework
- Unit tests



## The Road Ahead for Military Tools

**Simple , Accessible, and Supported Product** 

# Military Tools for ArcGIS 1.0

- ArcGIS Pro Add-in
- ArcMap Add-in
- Web AppBuilder Widgets

#### **Additional Tools**

- GRG Widget
- Grid Overlay Widget

2017 Q1









#### Enhancements

- Batch coordinate conversion
- Increased notation format support
- Improved dark theme experience

Interactive workflows that support multiple Defense workflows

#### How to access the work we do

Solutions.arcgis.com





Apps



Platform Configurations



Supporting Materials



https://solutions.arcgis.com



#### Defense

ArcGIS for Defense provides maps and apps to deliver timely insights, make strategic decisions and conduct tactical operations.

Documentation | What's New | Join Community



#### Intelligence

Synthesize information from multiple sources; turn raw data into relevant information; collaborate and share

inthesize information from multiple sources; turn raw

#### Operations



#### Operations

Capture information in the field; connect to streaming feeds; enhance the operational picture for situational

Capture information in the field; connect to streaming leader ashapes the operational picture for situational



#### Sustainment

Geospatially manage facilities; conduct training and strategic planning; sustain and protect the force.

strategic planning: sustain and protect the force.

ustainment



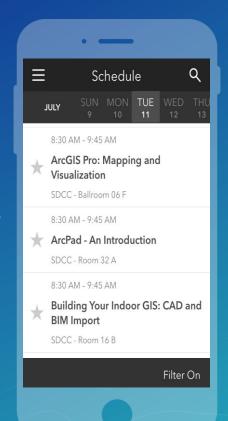
# Questions

## Please Take Our Survey on the Esri Events App!

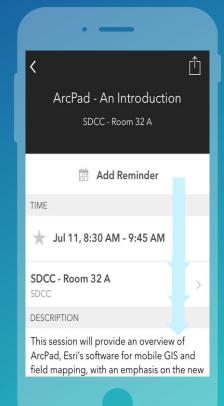
#### Download the Esri Events app and find your event



# Select the session you attended



# Scroll down to find the survey



## Complete Answers and Select "Submit"

