ArcGIS Pro SDK for .NET:
An Introduction to Add-Ins and Configurations

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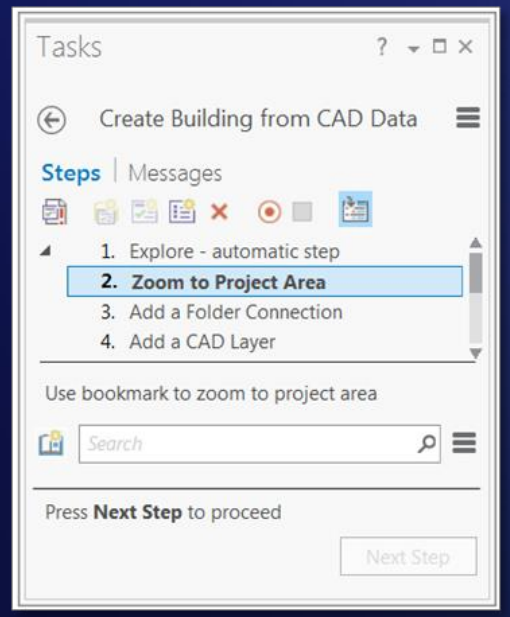
Agenda

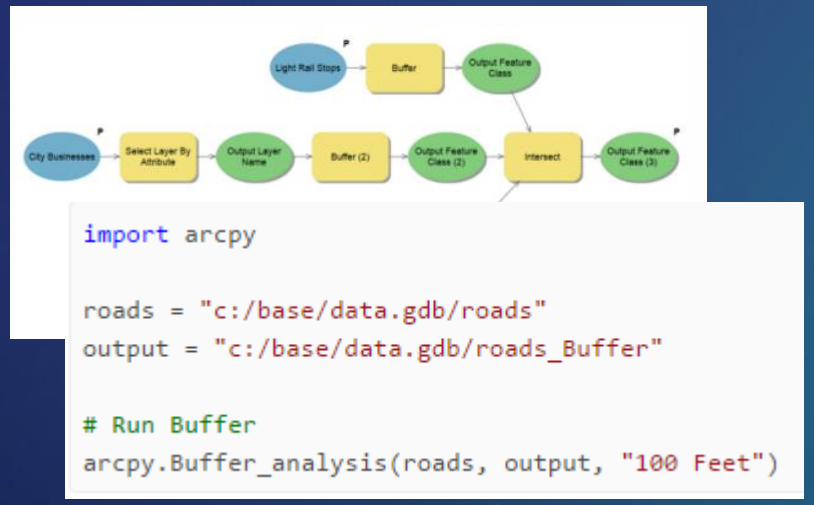
- Introduction – 5 minutes
- Add-In Demos – 10 minutes
- Solution Configurations – 5 minutes
- Configuration Demos – 10 minutes
- Q&A and wrap-up – 15 minutes

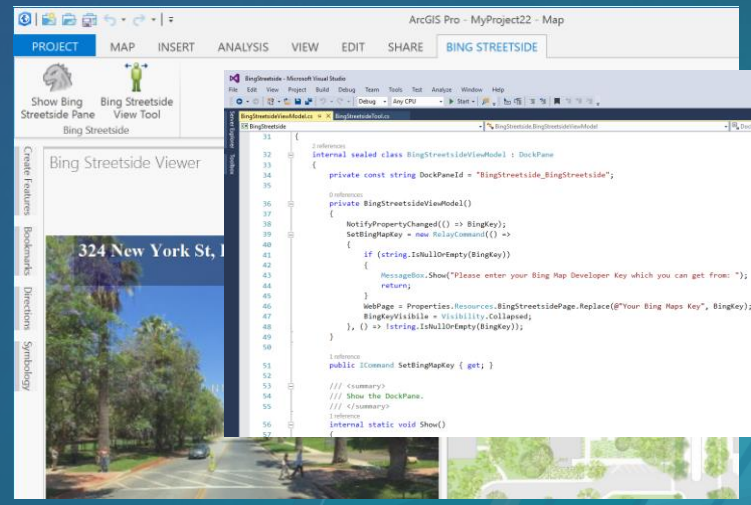
Extending Pro

Ways to extend ArcGIS Pro:

- Configure UI through settings and workflow through tasks
- Automate using geoprocessing and Python
- Extend with your own custom tools and workflows with the Pro SDK





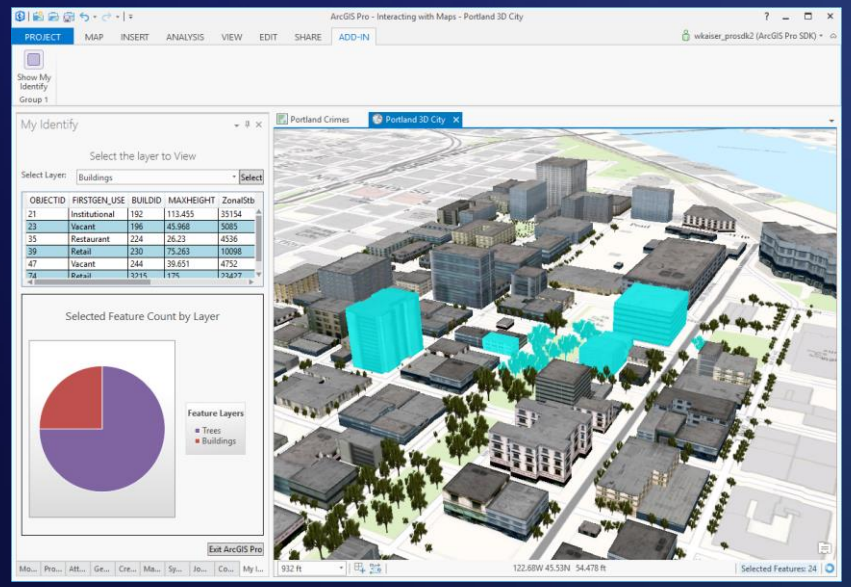


python™

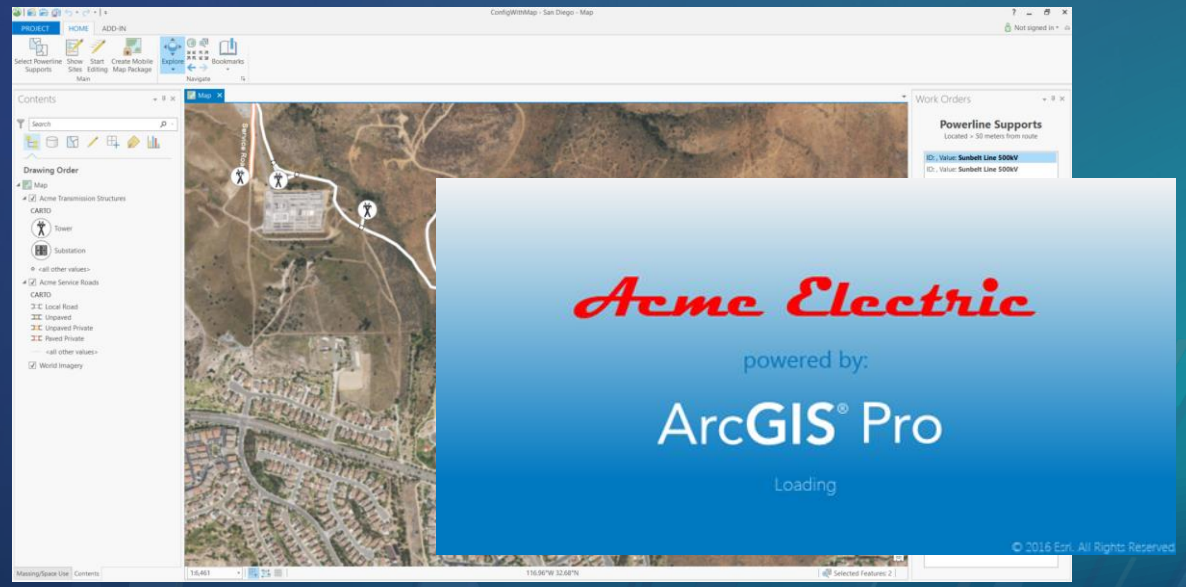
Microsoft .NET

ArcGIS Pro SDK for Microsoft .NET

- Two main customization patterns
  - Add-Ins – Develop new tools and functionality, and customize UI
  - Configurations – Deeper customization, branding, start-up experience, streamline UI
- Microsoft .NET – Visual Studio development



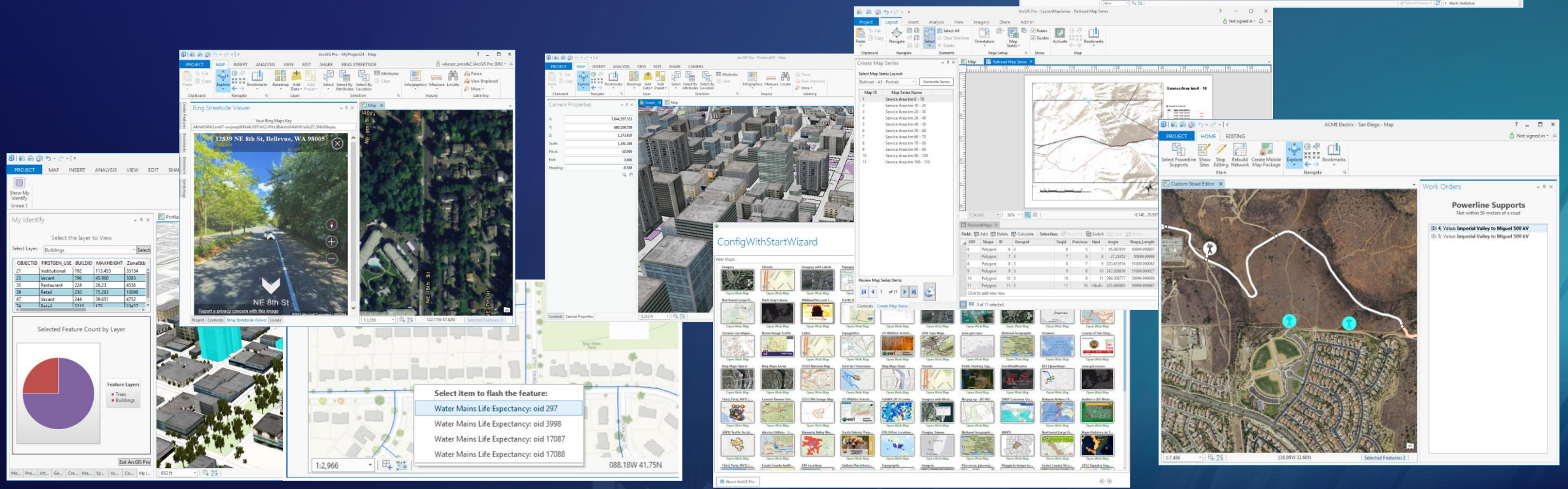
Sample Add-In



Sample Configuration, with custom splash screen

ArcGIS Pro SDK for Microsoft .NET

- Templates and tools in Visual Studio, and Pro API access
- Desktop Standards – WPF, XAML, MVVM, LINQ, etc.
- Modern, asynchronous development framework
- Online guides, code samples and other resources



Pro Add-in Files

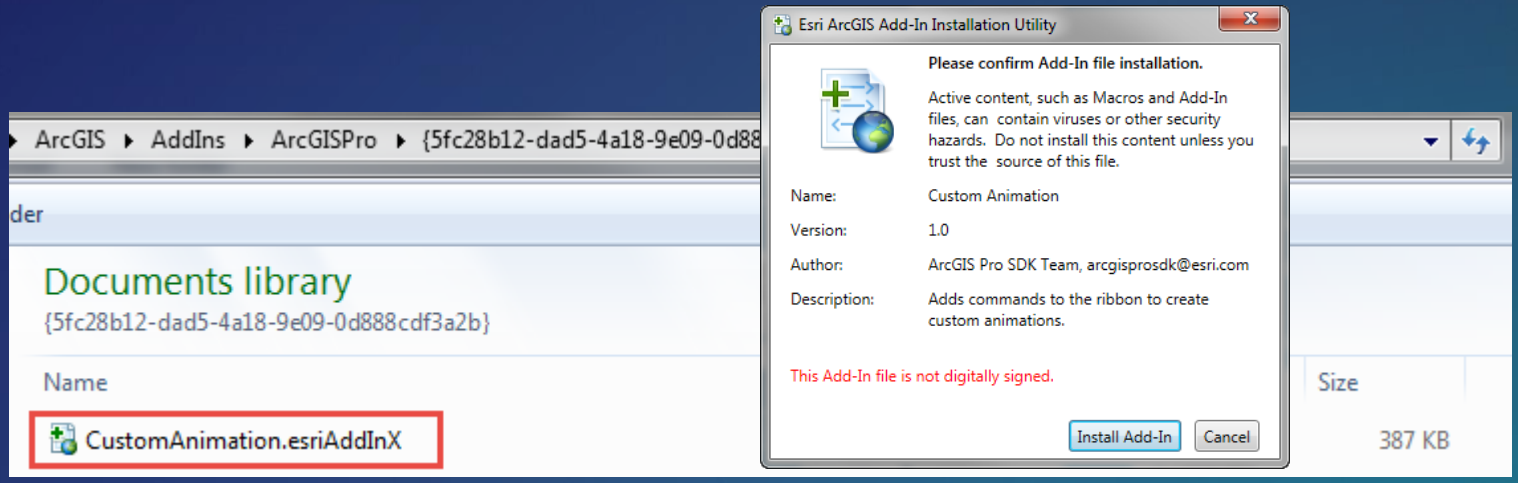
- Zip-compressed package files
- Easy to share and distribute
- Can be secured

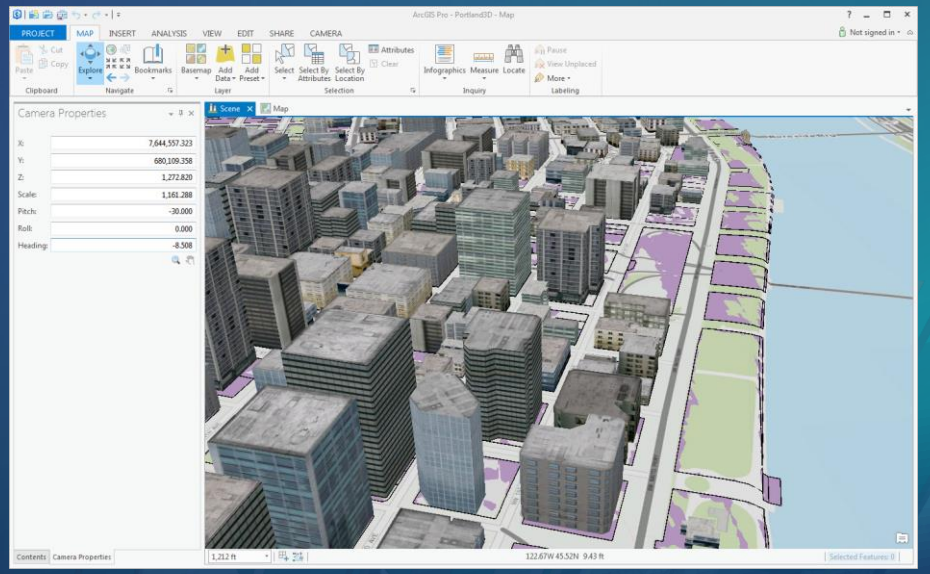
Sample add-in file contents

Name	Type
Images	File folder
Install	File folder
Config.daml	DAML File

Sample contents of an install folder

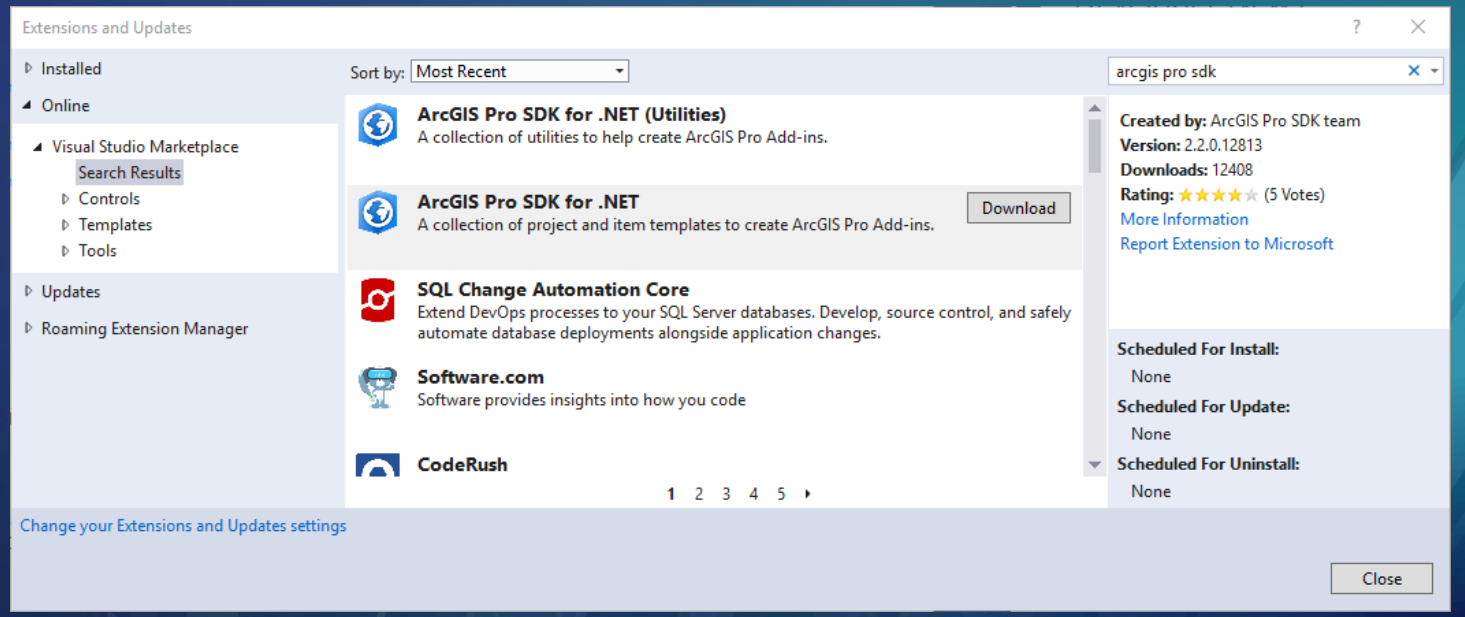
Name	Type
CustomAnimation.dll	Application extension
CustomAnimation.dll.config	XML Configuration File
CustomAnimation.pdb	VisualStudio.pdb.12.0
CustomAnimation.xml	XML Document

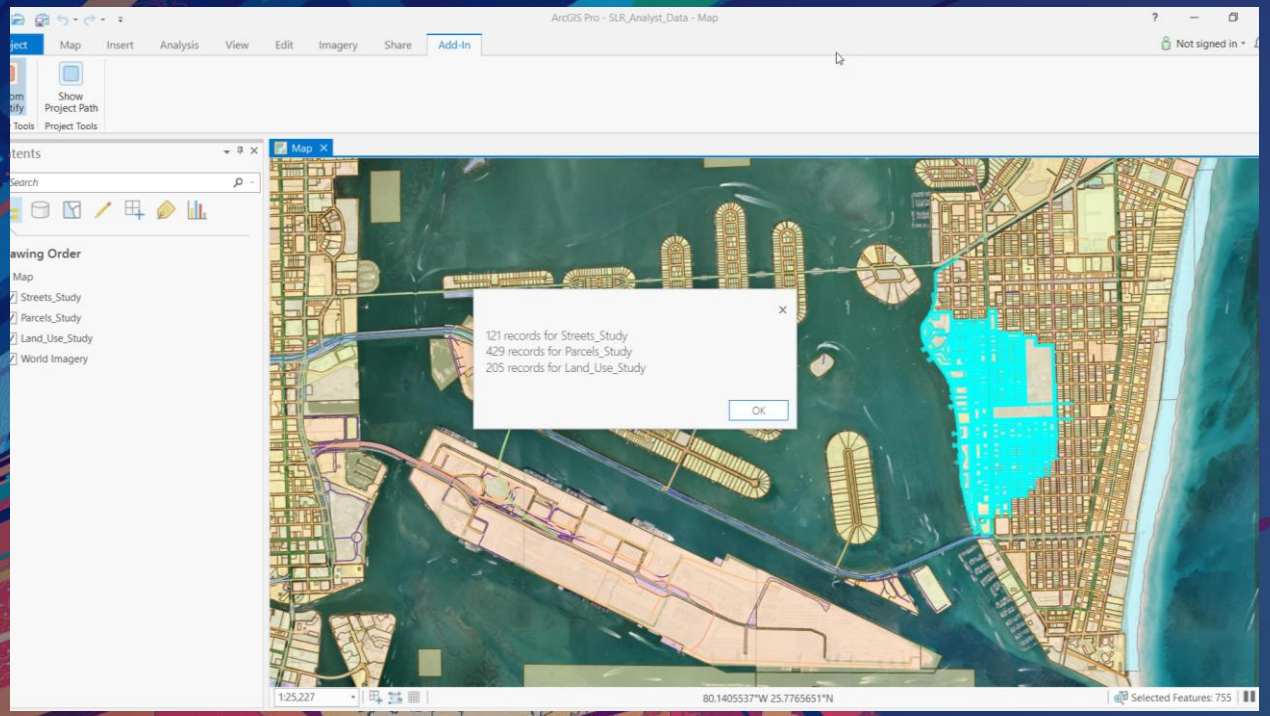




.NET Development Environment

- Visual Studio 2015 and 2017
  - All editions supported – including free Community Edition
- VSIX packages for installation
- Download and install from the Visual Studio Marketplace





Add-In Demos

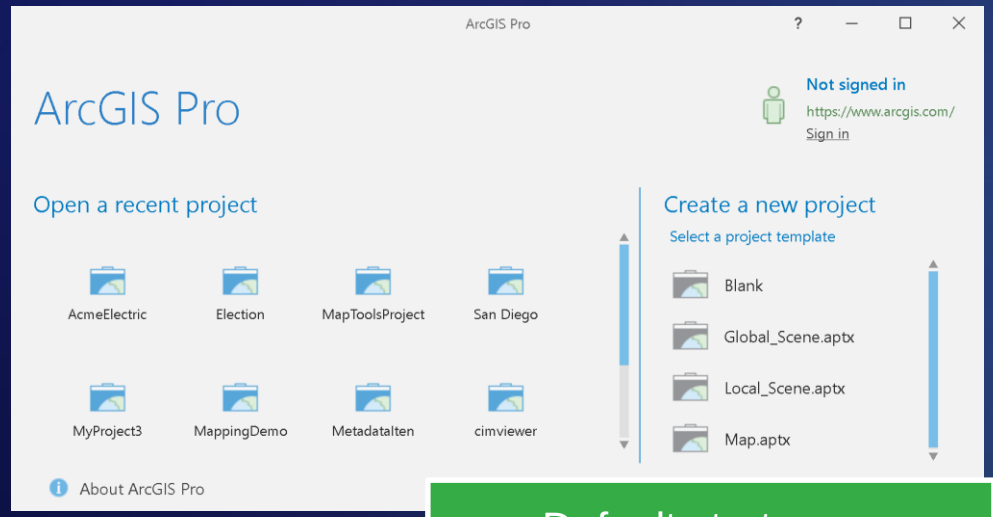
- Pro SDK DevLabs
- Build your first add-in
- Create a map identification tool

Solution Configurations

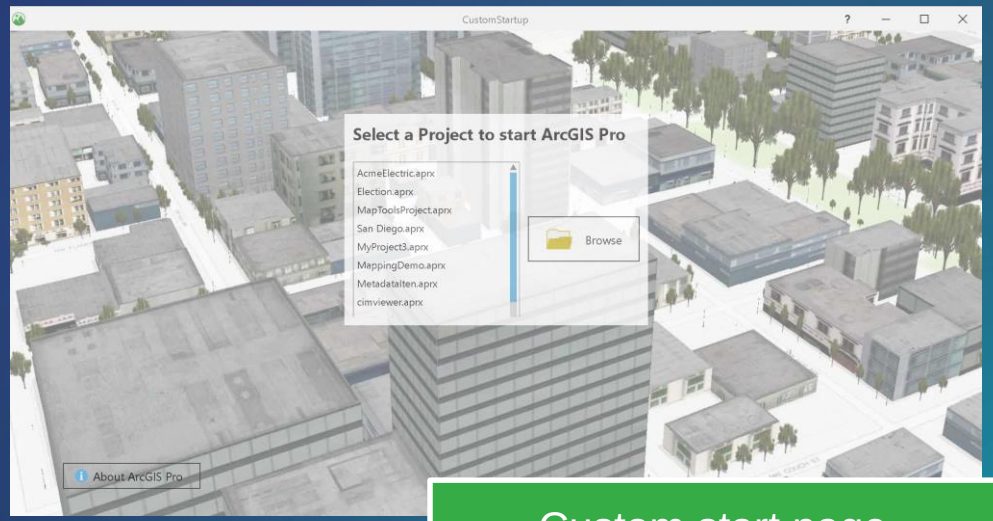
Create a custom, branded UI / UX with ArcGIS Pro

Configurations

- Includes all functionality of an add-in plus
  - Change the application title and icon
  - Change the application splash screen, start page, and about page
  - Conditional customization of the UI



Default start page



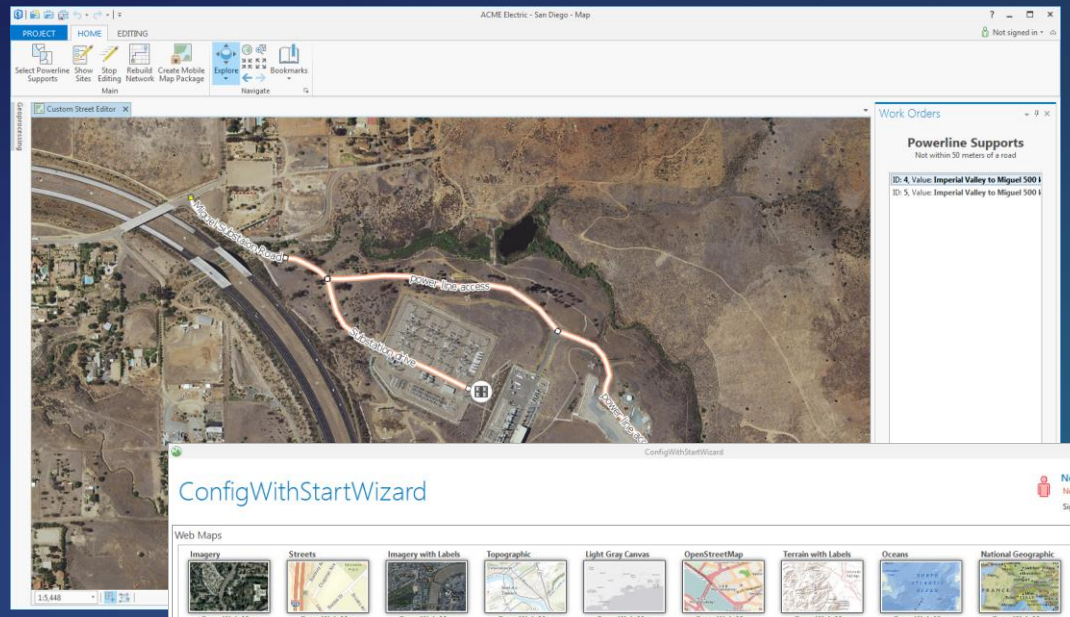
Custom start page

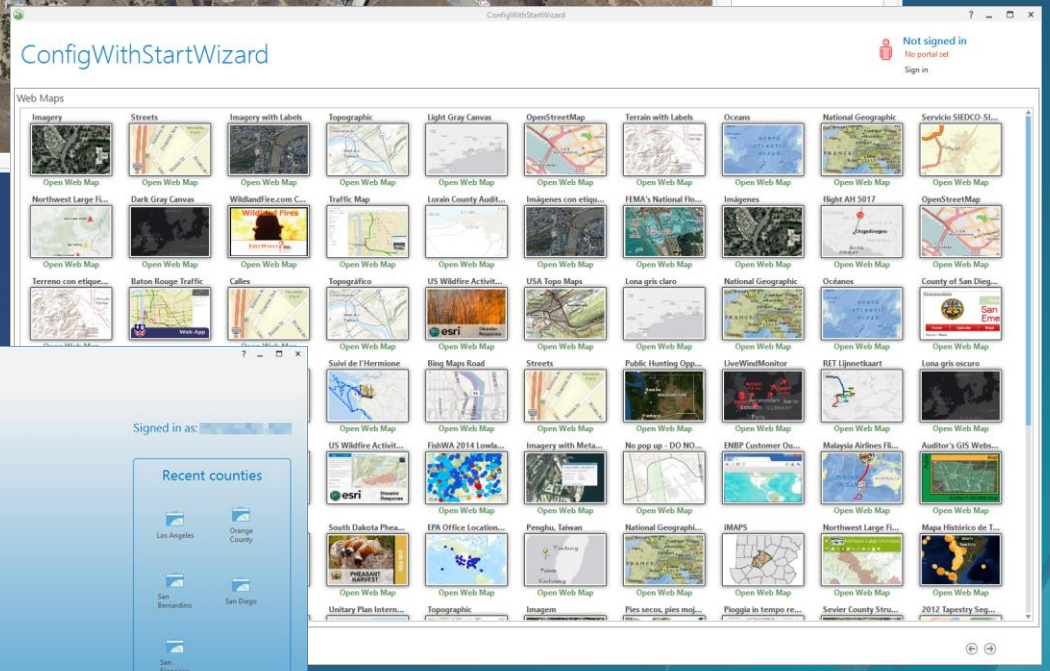
- Packaged within a single, compressed file with a .ProConfigX file extension
  - Available to all logged-on users.
  - By default, placed in C:\Users\<*user name*>\Documents\ArcGIS\AddIns\ArcGISPro\Configurations

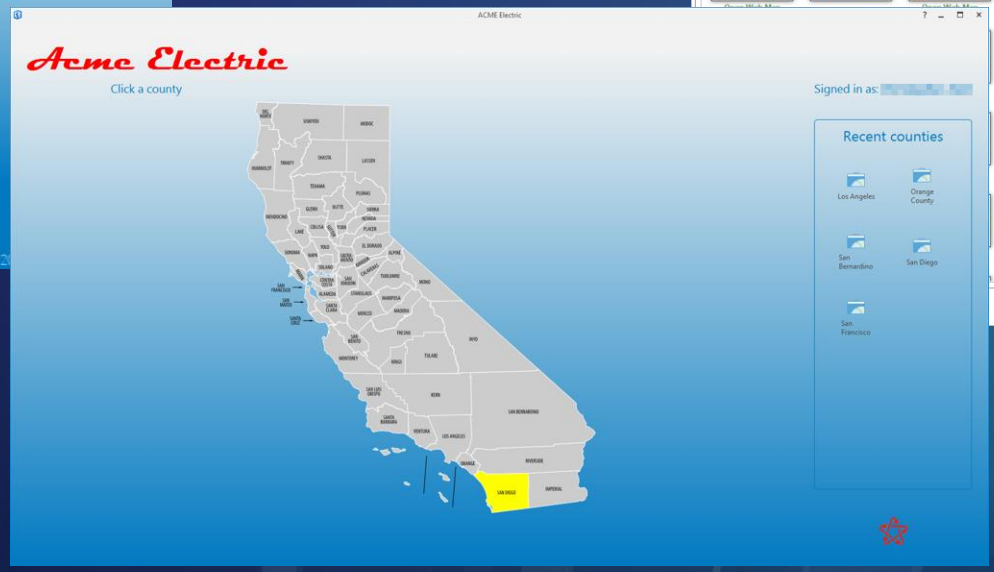
Sample Configurations

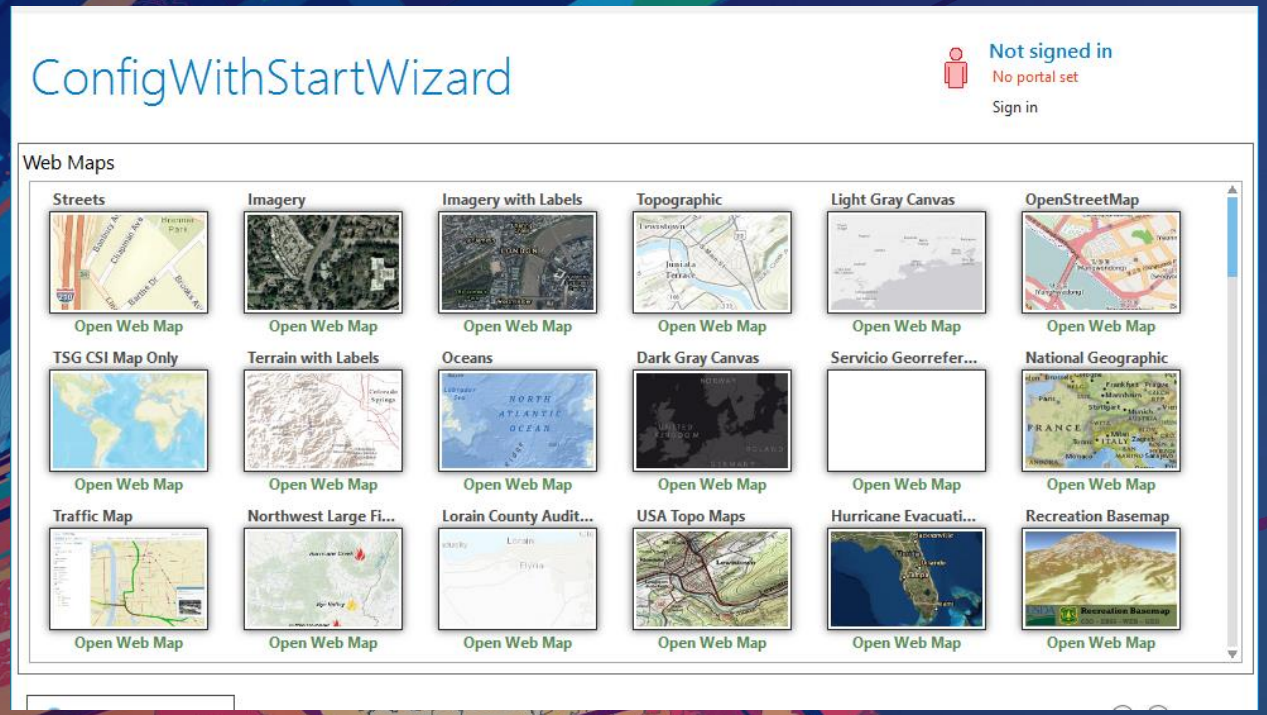
Customized:

- Splash screen
- Start up page view
- UI based on a user role / workflow







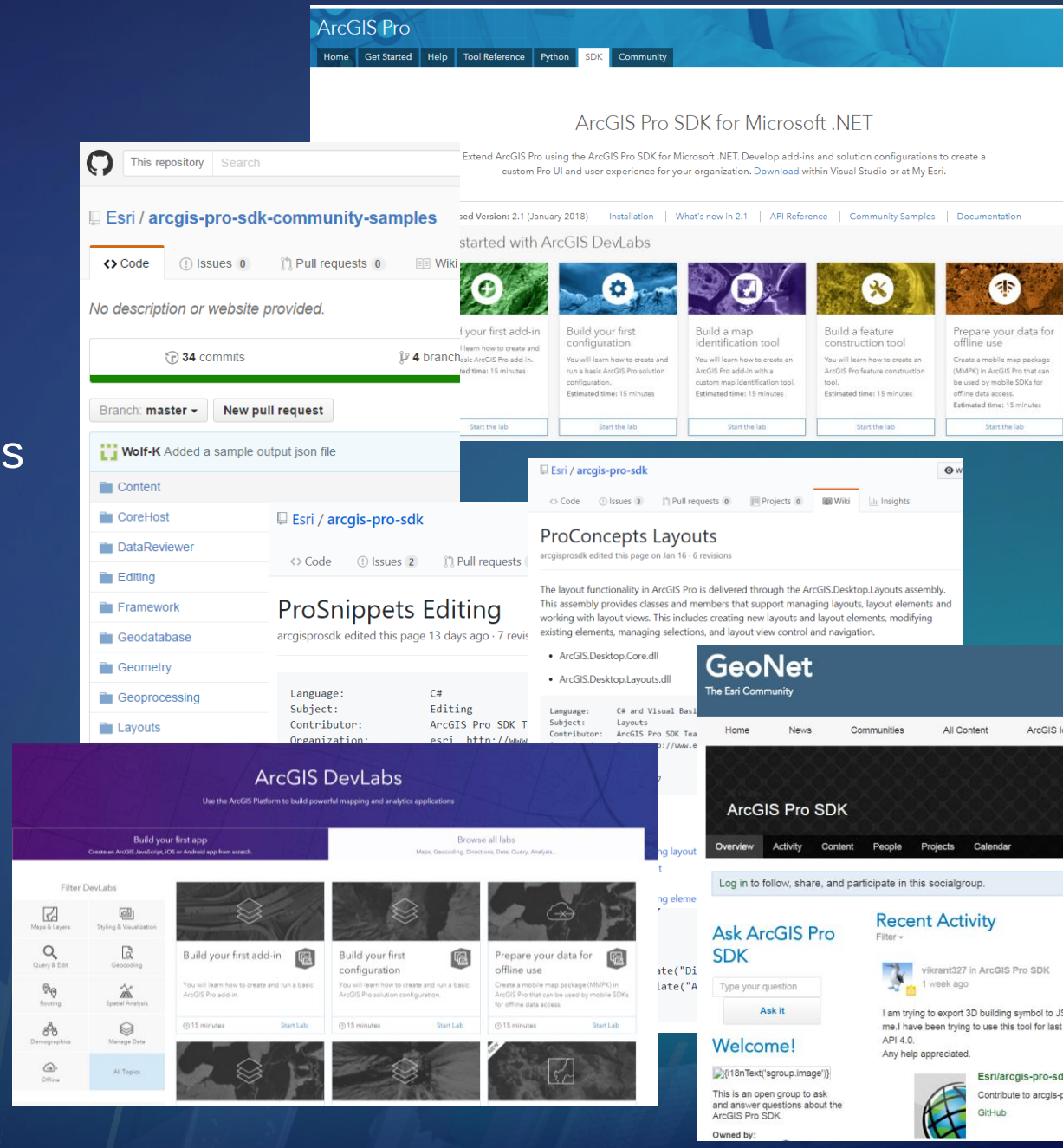


Configuration Demos

- Configuration project template
- ConfigWithMap sample
- ConfigWithStartWizard sample

Resources

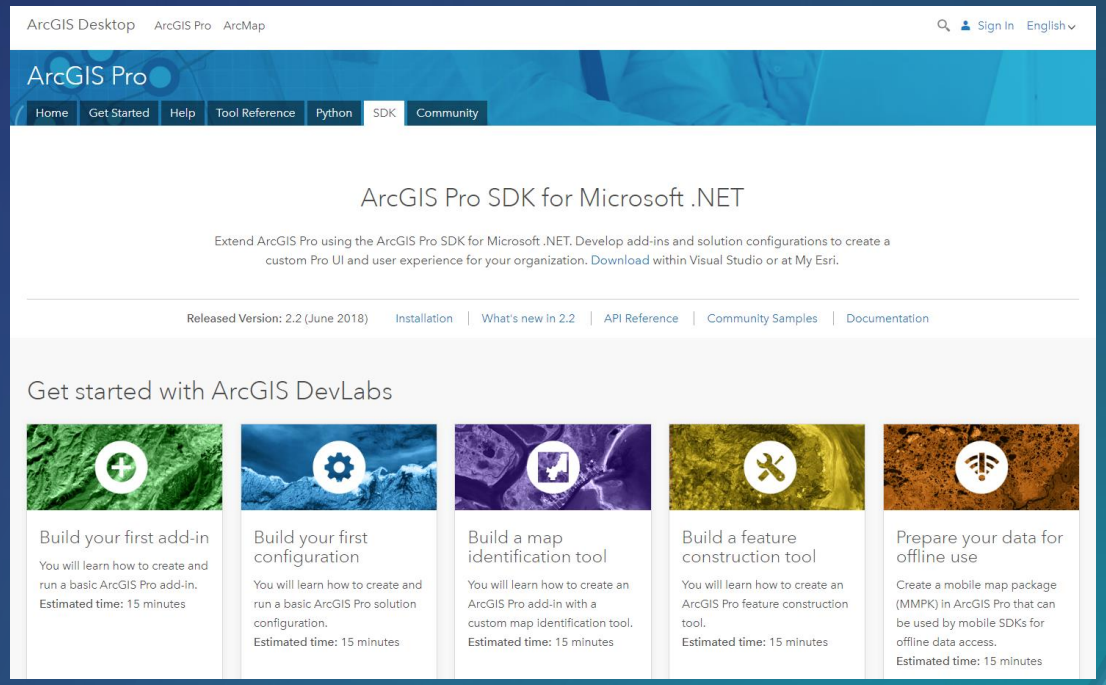
- SDK landing page – main resource page
- GitHub Wiki – primary documentation site with concept and guide docs, and much more
- Community Samples – ready to use code solutions categorized by functional area
- GeoNet Pro SDK Group – developer community
- DevLabs – easy coding tutorials
- Training – instructor-led Esri training course



For Questions and Follow-up

- Come by the **ArcGIS Pro Area** in the Showcase for more demos
- SDK tab on the ArcGIS Pro main page:
  - pro.arcgis.com
- Pro SDK Questions and Feedback:

  ArcGIS Pro SDK Group on GeoNet



Pro SDK Sessions

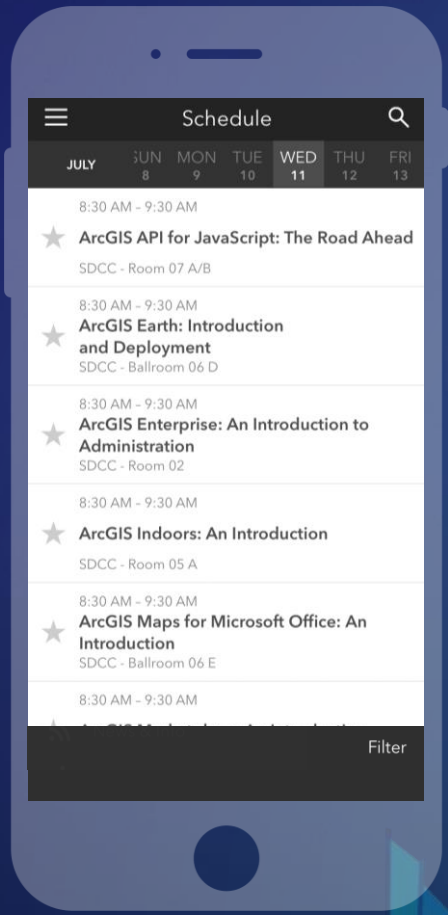
Date	Time	Technical Session	Location
Tue, July 10	10:00 am – 11:00 am	ArcGIS Pro SDK for .NET: An Introduction	Room 14 B, SDCC
	4:00 am – 5:00 pm	ArcGIS Pro SDK for .NET: An Introduction	Room 17 B, SDCC
Wed, July 11	11:15 am - 12:00 pm	ArcGIS Pro SDK for .NET: Introduction to Add-Ins and Configurations	Demo Theater 07 - Expo
	12:15 pm - 1:00 pm	ArcGIS Pro SDK for .NET: Solution Configurations	Demo Theater 08 - Expo
Thu, July 12	8:30 am – 9:30 am	ArcGIS Pro: Q&A with the Development Team	Ballroom 20 D, SDCC
	12:15 pm - 1:00 pm	Beginning ArcGIS Pro SDK Project Development: Tips and Tricks for Troubleshooting	Demo Theater 08 - Expo

Also – the ArcGIS Pro Area in the UC Expo – Pro SDK staff available each day, Tuesday – Thursday

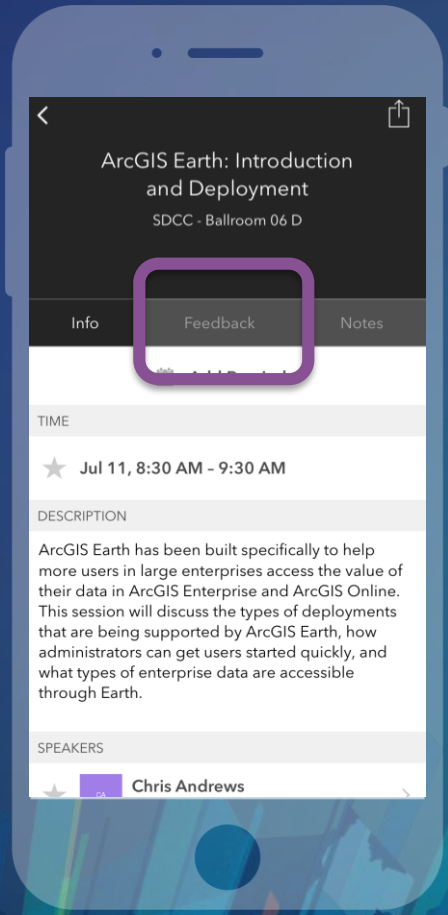
Please Take Our Survey on the App

Download the Esri Events app and find your event

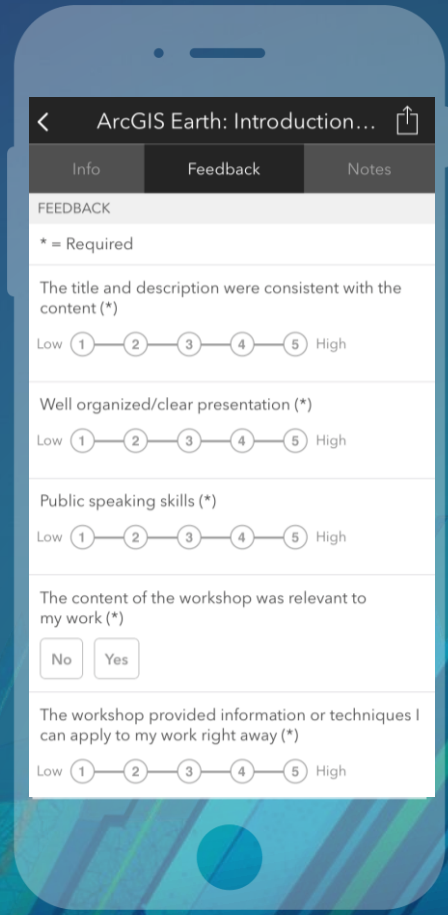
Select the session you attended



Scroll down to find the feedback section



Complete answers and select “Submit”



Thank you!

Questions?

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