

Navigator for ArcGIS: An Introduction

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Mark Bockenhauer

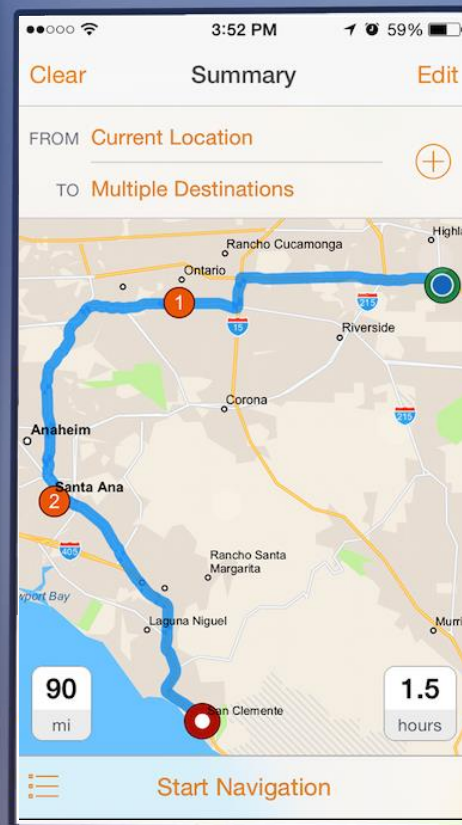
Scott Sandusky



Navigator for ArcGIS

Get your field workforce where it needs to be

- **Custom data** (search, route, display)
- **Fully integrated** with other apps
- **Work disconnected**
- **Model your vehicle with travel modes**



What's New?

- Android is final
- Easier to create custom maps within ArcGIS Pro
- Global map coverage



Who is using Navigator?

- Natural Resources
- Utilities
- Government
- Commercial



- Custom Data
- Offline
- Back-office integration

Building Inspections

"We are saving \$197,000 per year on mileage and inspectors' time by using ArcGIS." Rich Franz-Under



- Fewer calls
- Offline
- Back-office integration

Home Delivery Meals Program

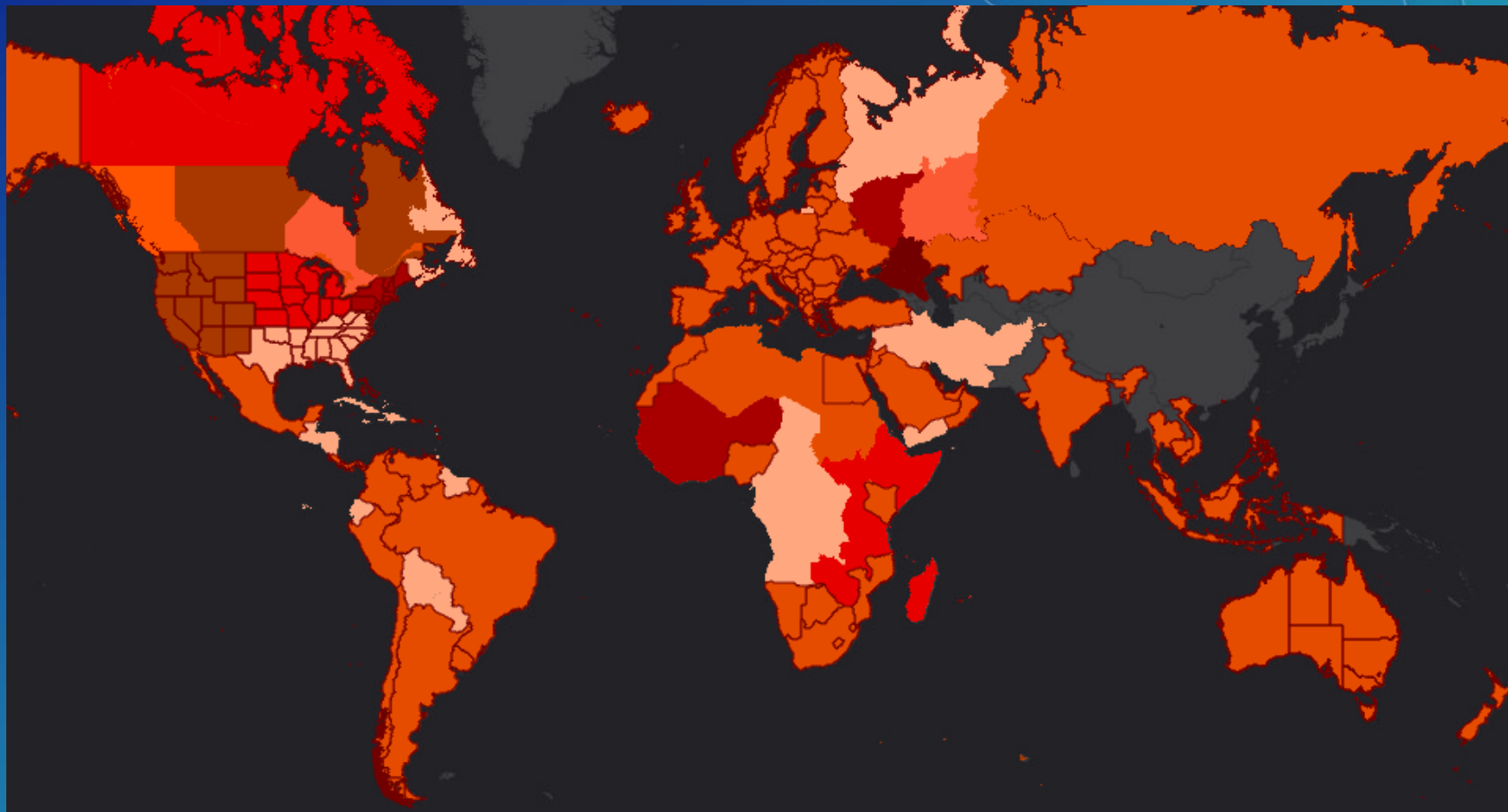
"Navigator has given us a lot more flexibility. Any driver can deliver any route." Alan Knudsen

Demo

Navigator Basics

Global Coverage

Navigator Maps



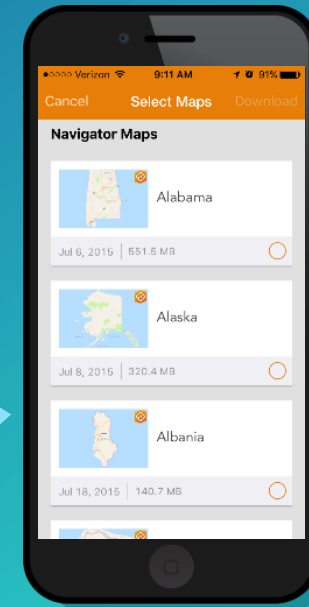
Country, Region, and State Maps

[See the Coverage Map online](#)

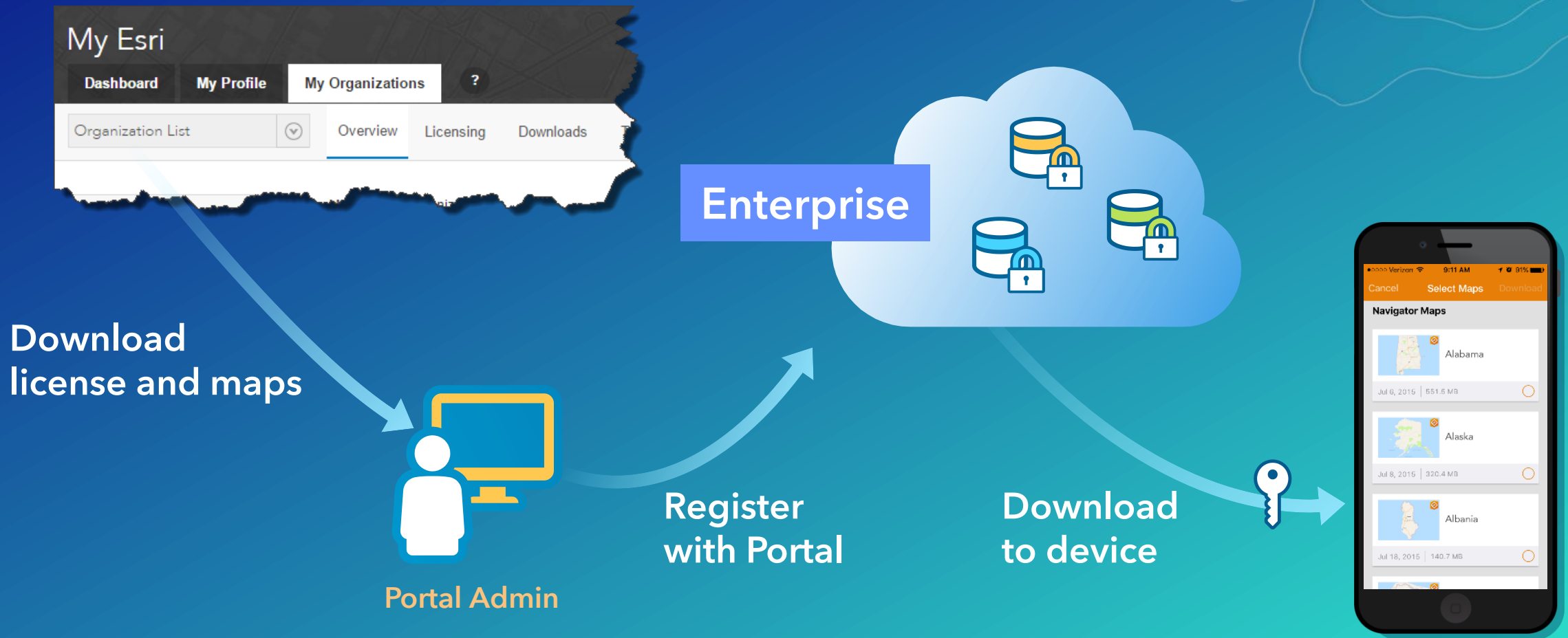
Navigator Maps with ArcGIS Online

ArcGIS Online

Download
to device

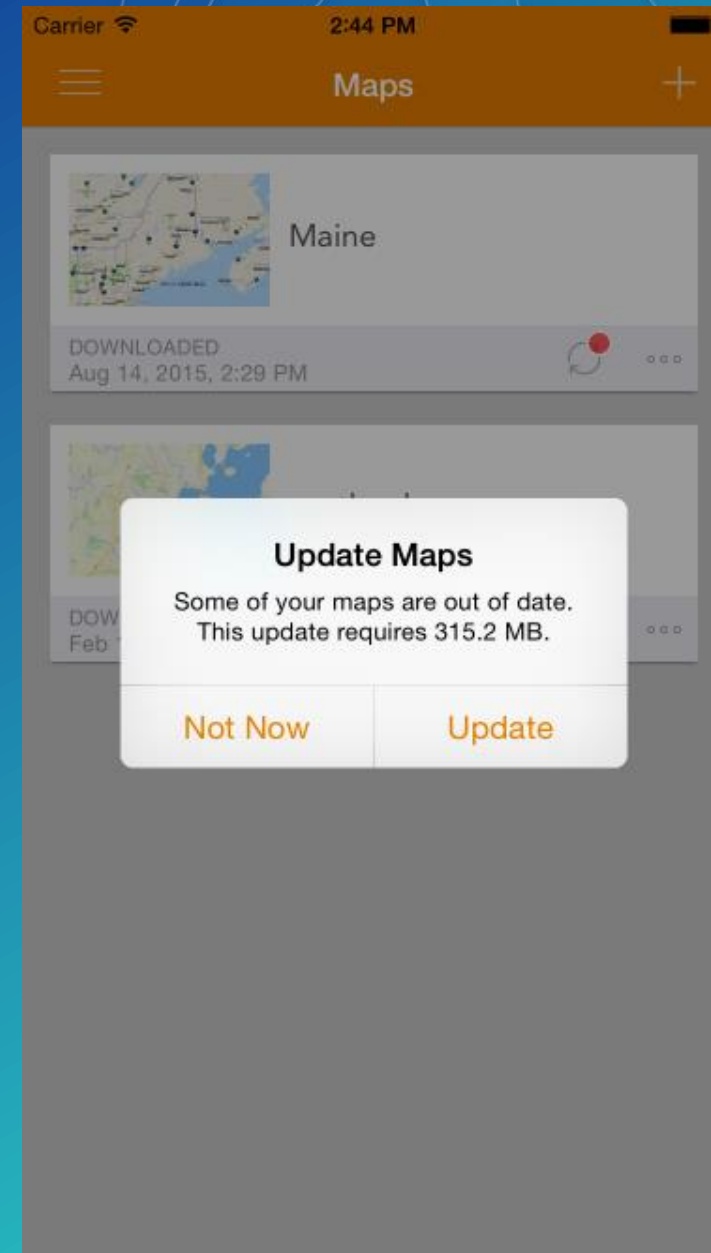


Navigator Maps with ArcGIS Enterprise

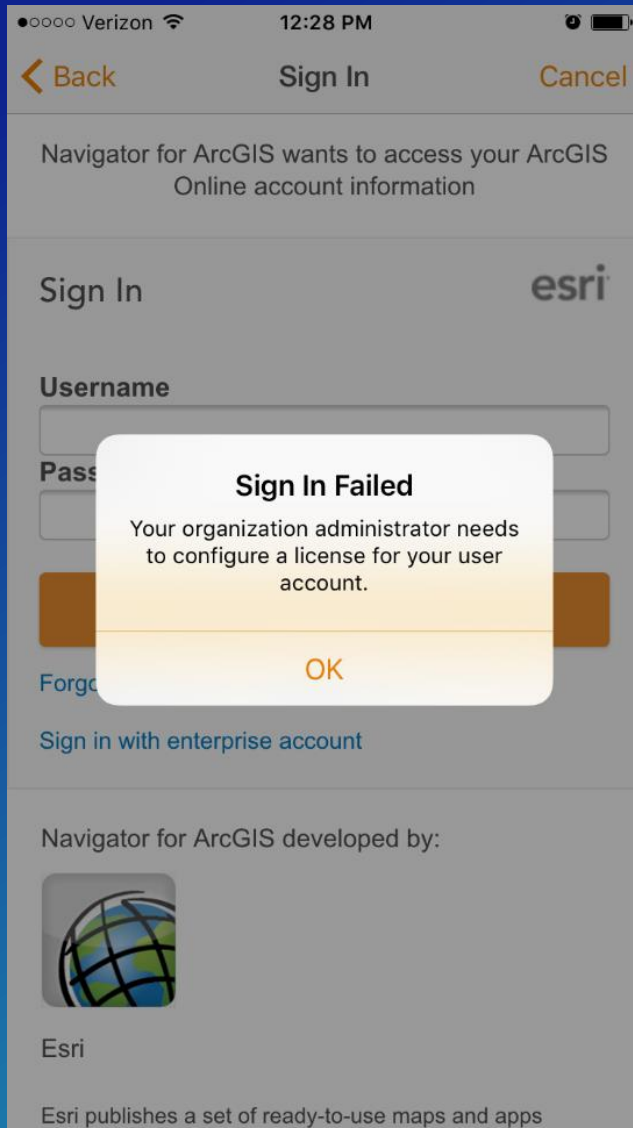


Automatic map updates

- **North America:** three times a year
- **Europe:** two times a year
- **All other regions:** annually



Troubleshooting & Licensing



Administrator

Home Gallery Map Scene Groups My Content My Organization Scott ▼

Manage Product Licenses for Esri Directions and Routing

MY ORGANIZATION ArcGIS Pro Additional Products

Product	Drone2Map for ArcGIS	GeoPlanner for ArcGIS	AppStudio for ArcGIS Standard	Esri Community Analyst	Navigator for ArcGIS	Esri Business Analyst web app
Licenses	50	50	50	50	50	50
Available	50	50	49	50	43	50

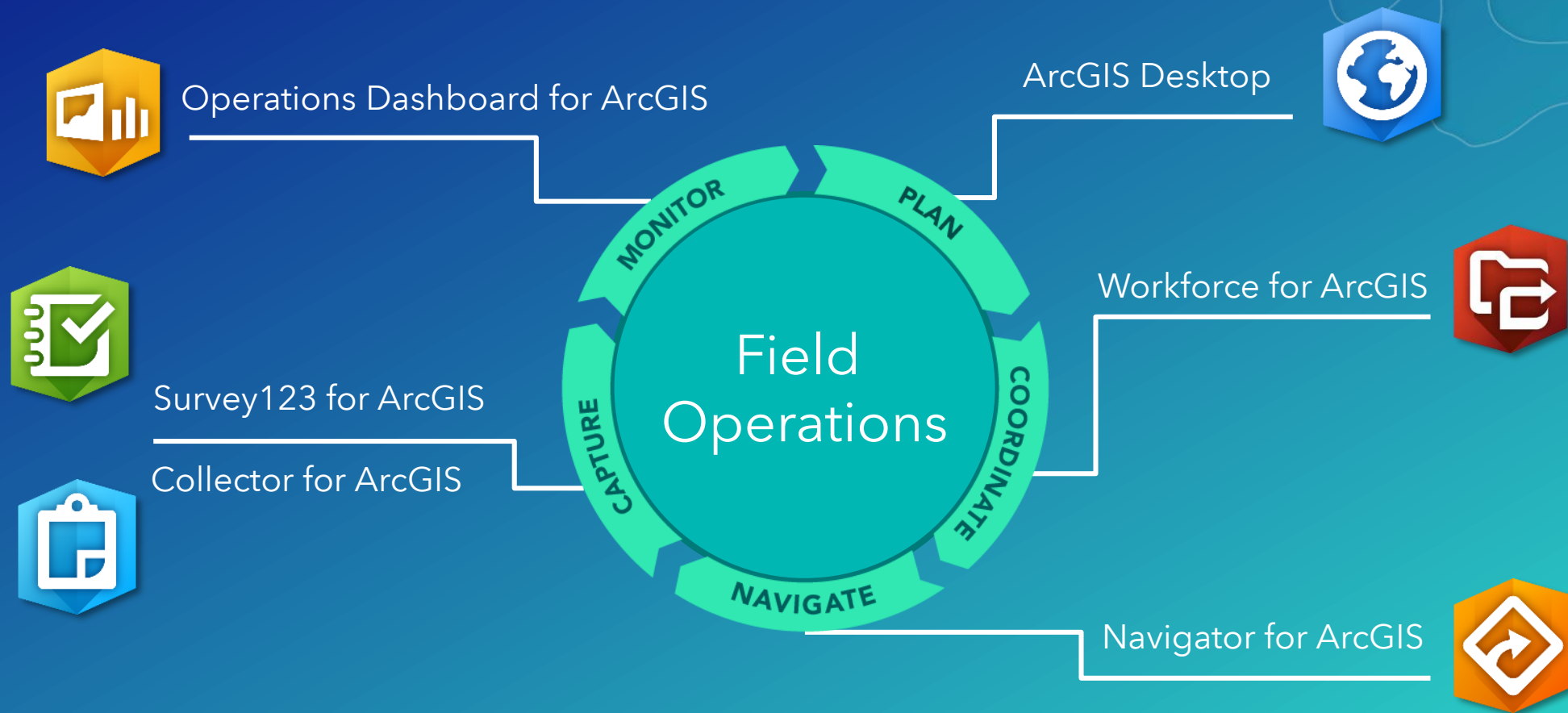
Licensed Products for Scott Sandusky (ssandusky)

[-] Esri Applications

- ☐ Drone2Map for ArcGIS
- ☐ GeoPlanner for ArcGIS
- ☐ AppStudio for ArcGIS Standard
- ☐ Esri Community Analyst
- ☒ Navigator for ArcGIS
- ☐ Esri Business Analyst web app

UPDATE REVOKE ALL CANCEL

ArcGIS in the Field



Field Apps Work Together as One



ArcGIS
Explorer



Navigator
for ArcGIS



ArcGIS
Explorer

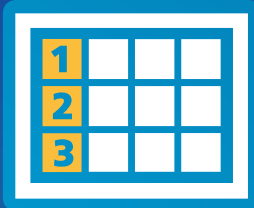
Demo

Working with ArcGIS Field Apps

Sending Stops to Navigator

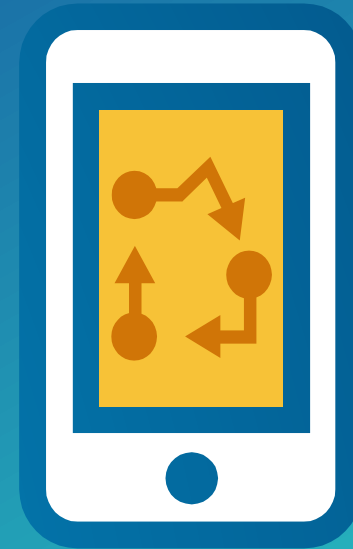
URL Scheme

Stop list



- Location or address
- Stop name
- Stop sequence

Navigator for ArcGIS





Navigator URL Scheme

Supported Arguments:

- **start** - Start location
- **stop** - Location of a stop
- **stopName** - Name of stop
- **callback** - Callback URL scheme
- **callbackPrompt** - Prompt displayed in the app
- **optimize** - Boolean to determine if route is optimized
- **travelmode** - Travel mode used when calculating the route

GitHub Repository: <https://github.com/Esri/navigator-integration>

Implementation Patterns

URL Scheme



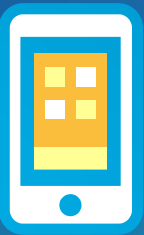
- Host a **web page** with links



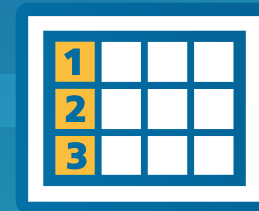
- Email or text **message**



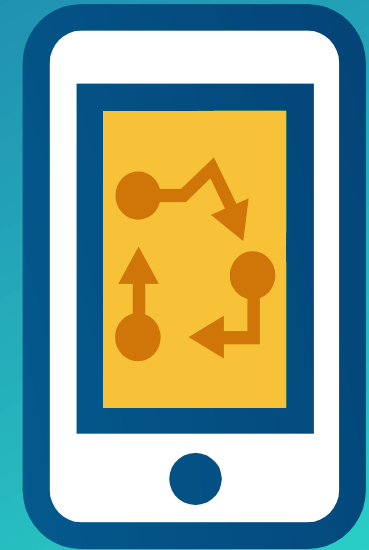
- Email or text **attachment**



- Custom **app**



Navigator for ArcGIS



Demo

URL Scheme & App Links

What is a Navigator map?

- **Create in ArcGIS Pro**
 - Search (geocoding locator)
 - Route (network dataset with travel mode)
 - Display (basemap and operational layers)
- **Mobile map package (.mmpk)**

Custom Navigator Maps

ArcGIS Pro



ArcGIS Online
or
ArcGIS Enterprise

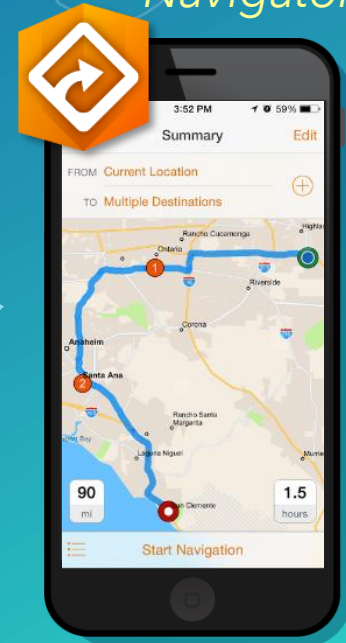
Share

Download

Package*

Copy

Navigator



**Requires Network Analyst extension*

Data Options

- Use all your own data

Or

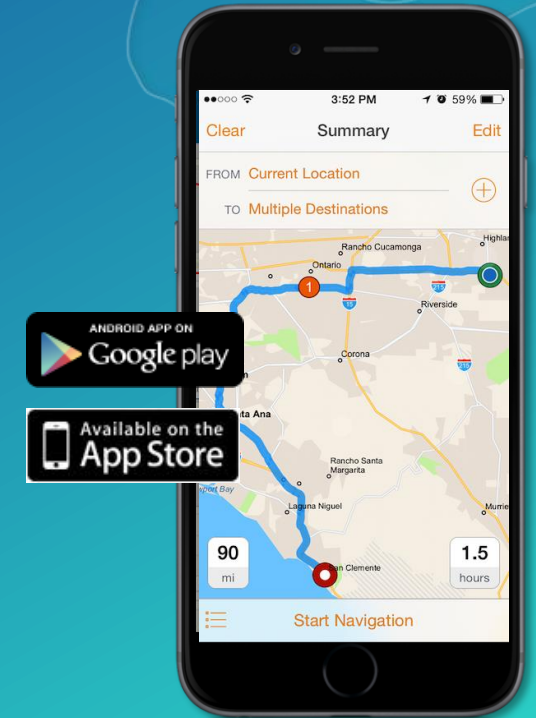
- Customize the Esri Navigator map
 - Requires StreetMap Premium for ArcGIS Pro
- ...with Custom Roads
 - Requires StreetMap Premium Custom Roads

Demo

Custom Navigator Maps

Summary

- Works **disconnected**
- Comes with **global maps** for download
- Supports **custom GIS maps** (search, route, display)
- Model your vehicle with **travel modes**
- Creates **multi-stop optimized** routes
- Works with other ArcGIS **field apps**
- Send **customized stop lists**



The Road Ahead

PrePlanned Routes support workflows across ArcGIS

Connect to a **pre-planned route** and follow route geometry

- Share **easily** with drivers
- **Update** when things change
- **Consistent** across the organization



Resources

Joel: jwhitney@esri.com

Mark: mbockenhauer@esri.com

Scott: ssandusky@esri.com

- **Free trial**
<http://go.esri.com/navigatortrial>
- **Overview (including case studies)**
www.esri.com/products/navigator
- **Help**
<http://doc.arcgis.com/en/navigator>
- **Map Coverage**
- <http://www.arcgis.com/home/group.html?id=5f430cab7f2b4cb5926bb9fe4e054ecc>
- **Community**
<https://geonet.esri.com/groups/navigator>
- **GitHub repo**
<https://github.com/esri/navigator-integration>

Other Sessions this week

- **Navigator for ArcGIS: Creating Custom Nav Maps**
 - Thurs 1:30 - SDCC Room 07A
- **Optimizing Field Operations with ArcGIS Apps**
 - Fri 9:00 - SDCC Room 05A
- **ArcGIS Field Apps Working Together**
 - Tues 4:30 - SDCC Demo Theater 12
- **Sharing Routes for Field Use**
 - Wed 4:00 - Tech Theater 19 Exhibit Hall A
- **Many others - Apps for the Field**
 - Explorer
 - Workforce
 - Collector
 - Survey123...

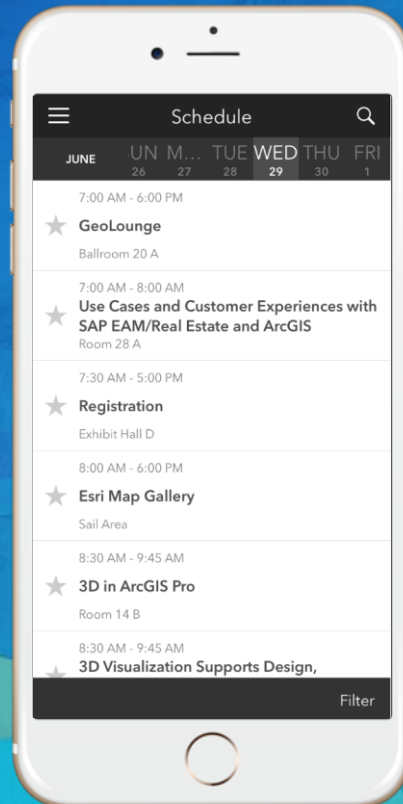
Please take our Survey

Your feedback allows us to help maintain high standards and to help presenters

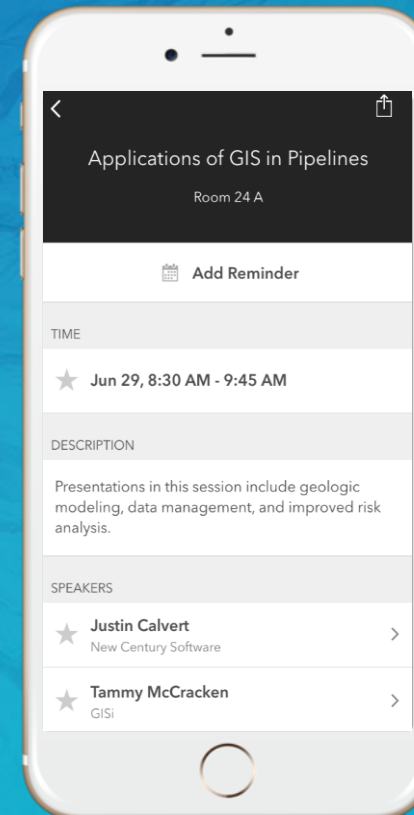
Find your event in the
Esri Events App



Find the session
you want to review



Scroll down to the
bottom of the session



Answer survey
questions and submit

