THE SOUTHERN AFRICA ESRI USER CONFERENCE 2023

CONNECTING COMMUNITIES

Supporting Field Operations With ArcGIS Apps

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THE SOUTHERN AFRICA ESRI USER CONFERENCE 2023

Agenda

- Overview of ArcGIS Apps
- Apps in support of Field Operations
- Hands-on exercise
- Q & A

ArcGIS Includes many out of the box Apps

- Focused, powerful, ready to use
- Ready for every environment, occasion or level
- There are Apps for
  - Desktop Users
  - GIS Super Users
  - Wannabe Super Users
  - Administrators
  - Field Crews
  - Scripters
  - and …
  - Developers

Which Apps can Support your Field Operations?

Focused, powerful, ready to use

Office Staff

ArcGIS Pro

ArcGIS Earth

Esri City Engine

ArcGIS Microsoft 365

ArcGIS Maps for SharePoint

ArcGIS Insights

ArcGIS for Teams

ArcGIS GeoBim

ArcGIS Dashboard

Field Crew

ArcGIS Workforce

ArcGIS Navigator

ArcGIS Survey123

ArcGIS Survey123 Connect

ArcGIS Field Maps

ArcGIS Drone2Map

ArcGIS Quick Capture

Apps for the Field

Improve operational efficiency

- Replace redundant inefficient field processes
- Reduce costs and overhead
- Improve accuracy and currency of data
- Modernize workflows
- Use individually or together, depends on your business workflows

ArcGIS Workforce

ArcGIS Navigator

ArcGIS Survey123

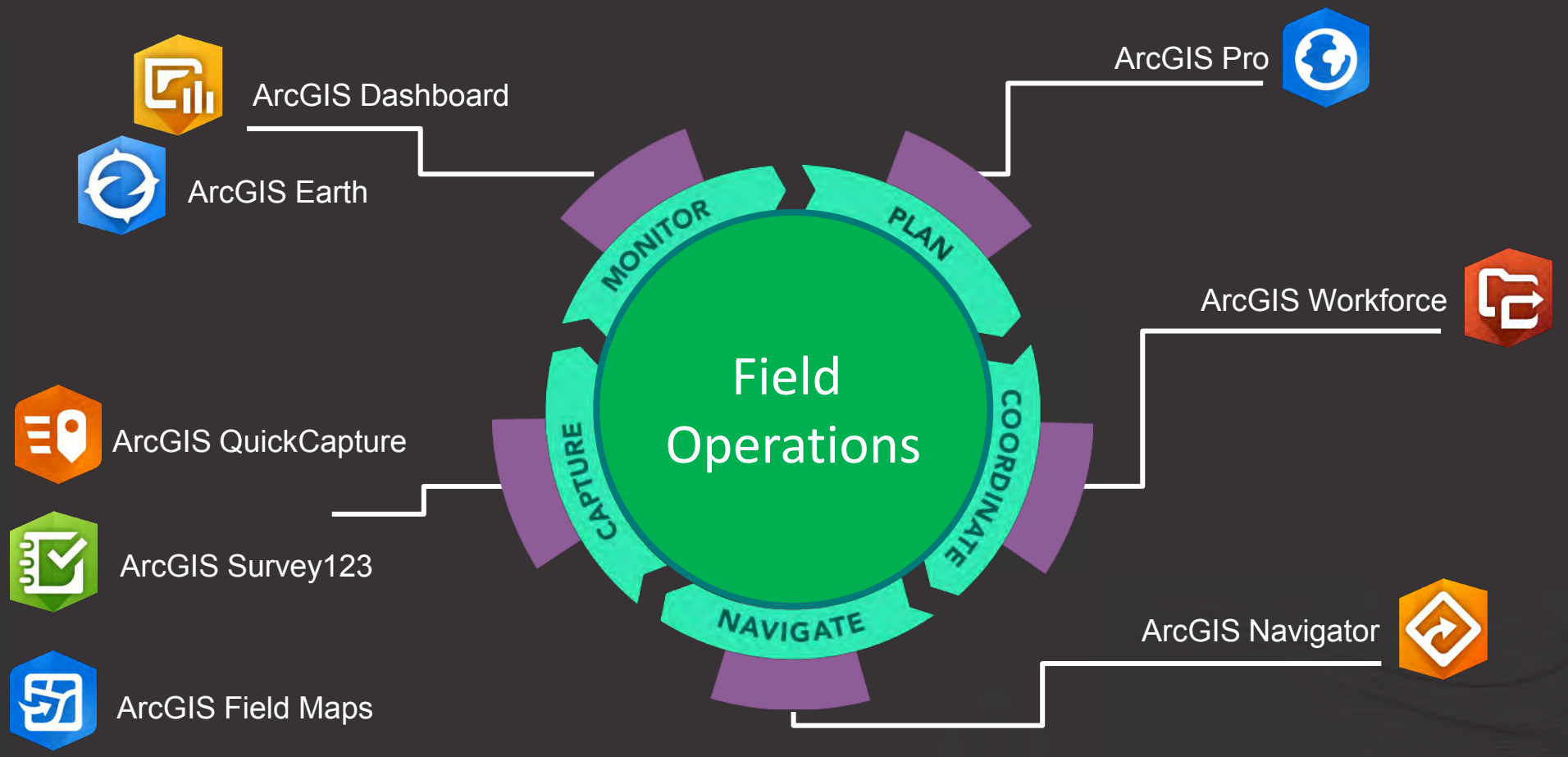
ArcGIS Survey123 Connect

ArcGIS Field Maps

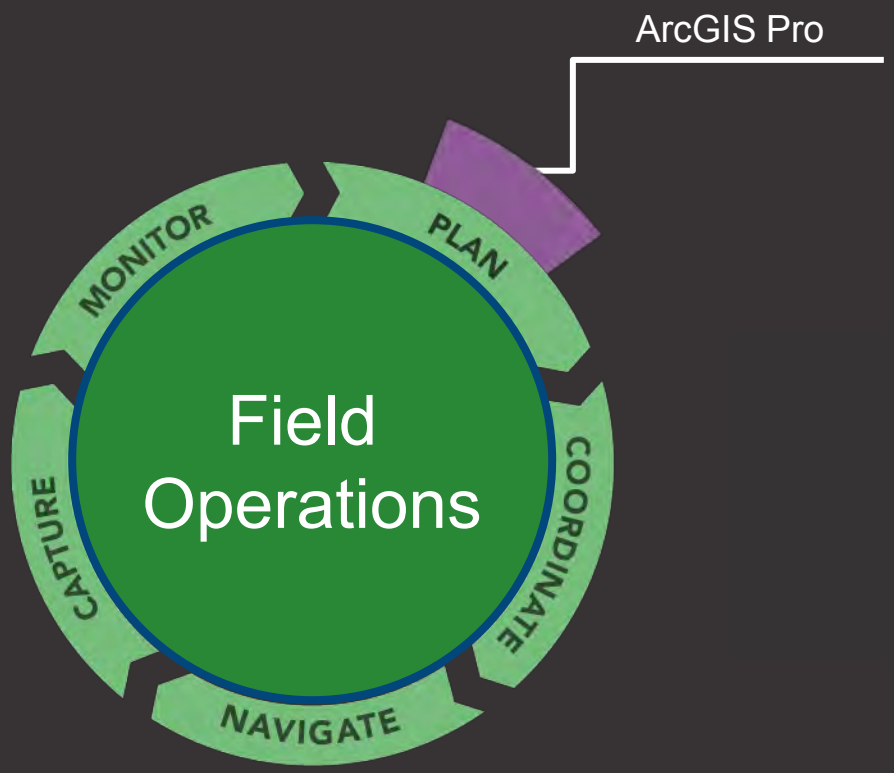
ArcGIS Drone2Map

ArcGIS Quick Capture

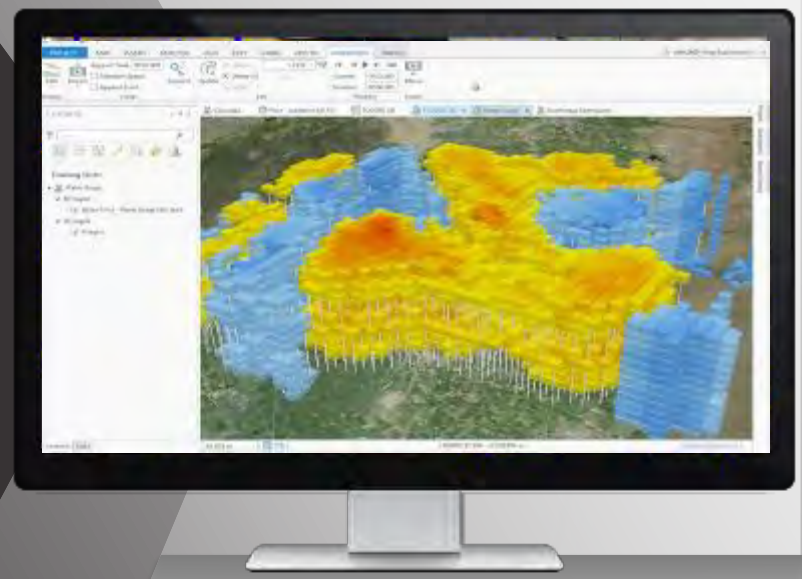
Field Operations with ArcGIS



Optimizing Field Operations With ArcGIS



ArcGIS Pro

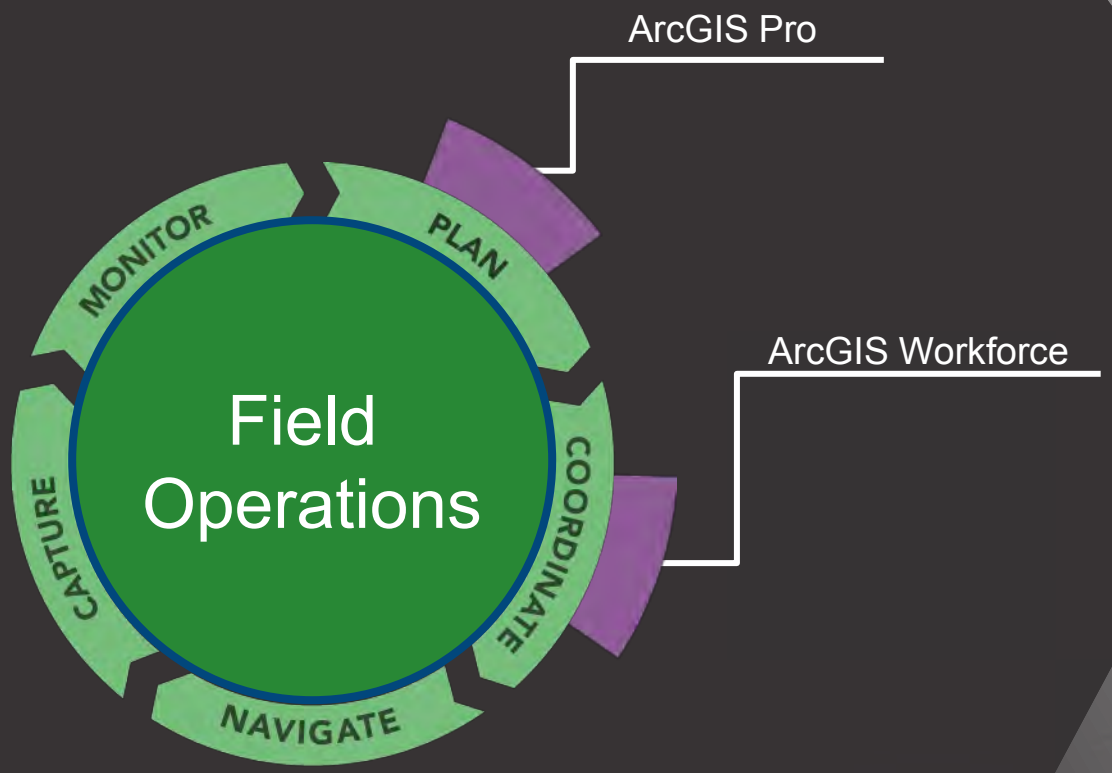


Plan

Publish

Analyses

Workforce for ArcGIS



Dispatcher
Assigns Work

Field Workers
Receive Assignments

Work as a Team

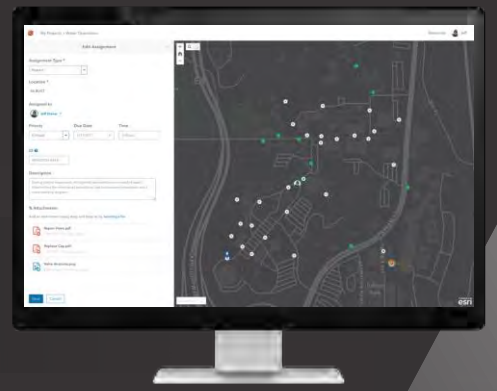
Workforce for ArcGIS

Optimize field operations

Plan, coordinate field work

Location awareness

Two basic components:
- Back-office: Dispatcher
- Field app: Mobile worker



ArcGIS Online or Portal 10.5.x

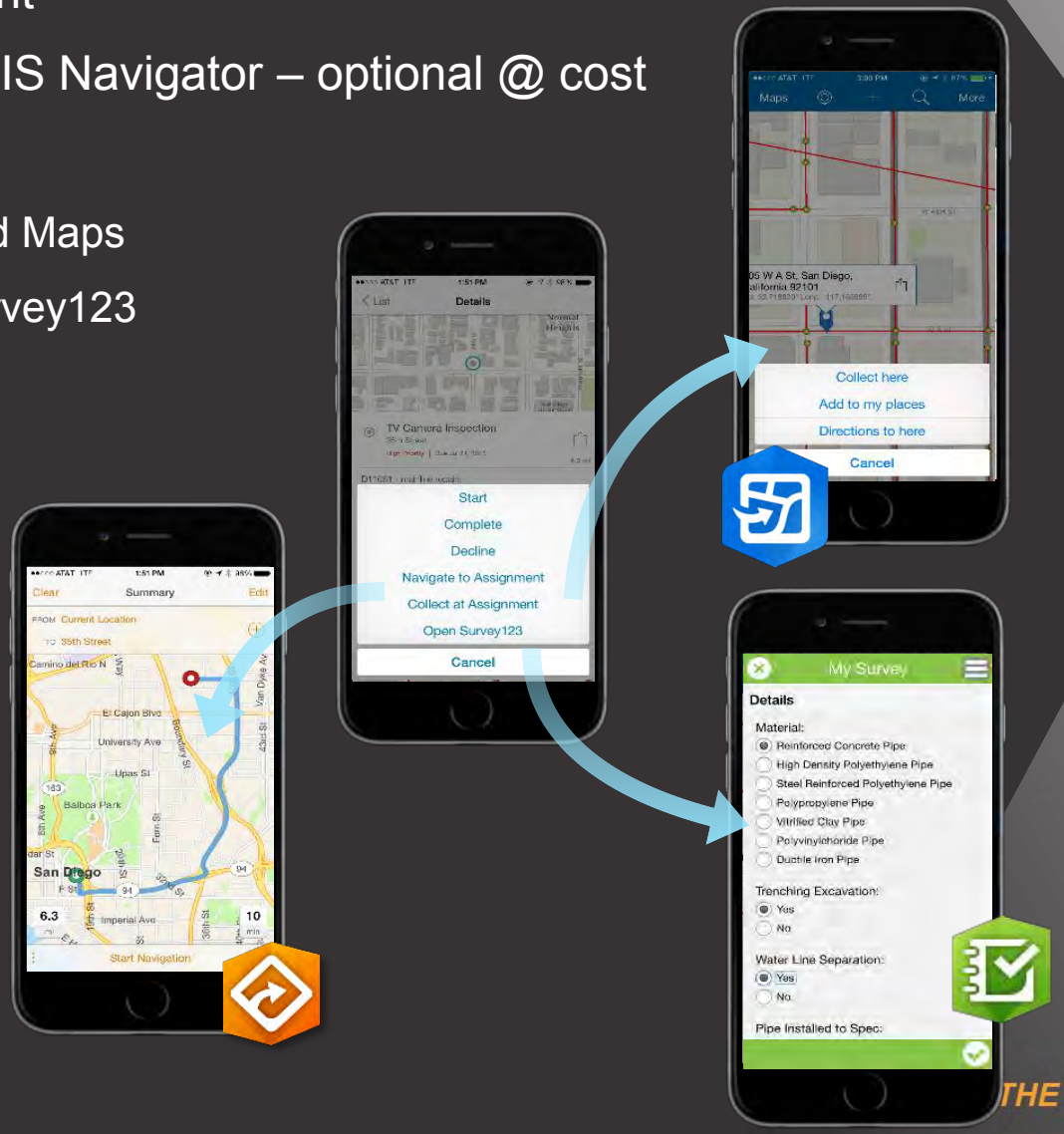
Dispatcher
Assigns Work

Field Workers
Receive Assignments

Work as a Team

Workforce for ArcGIS

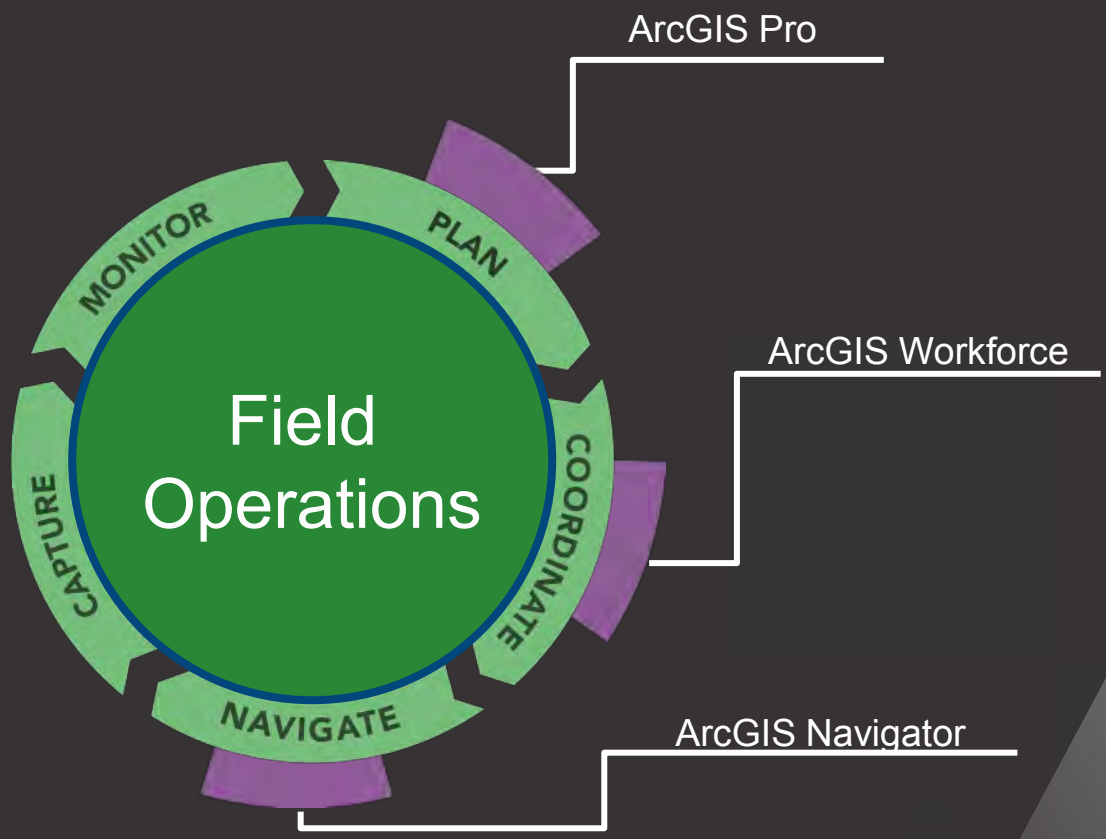
- Open an assignment
- Navigate with ArcGIS Navigator – optional @ cost
- Capture data:
  - Map: ArcGIS Field Maps
  - Form: ArcGIS Survey123
- Flag as completed



Download on the App Store

ANDROID APP ON Google play

ArcGIS Navigator



ArcGIS Navigator

Turn by turn directions

Includes network data, use with your own maps

Works offline and offers pre-planned routes

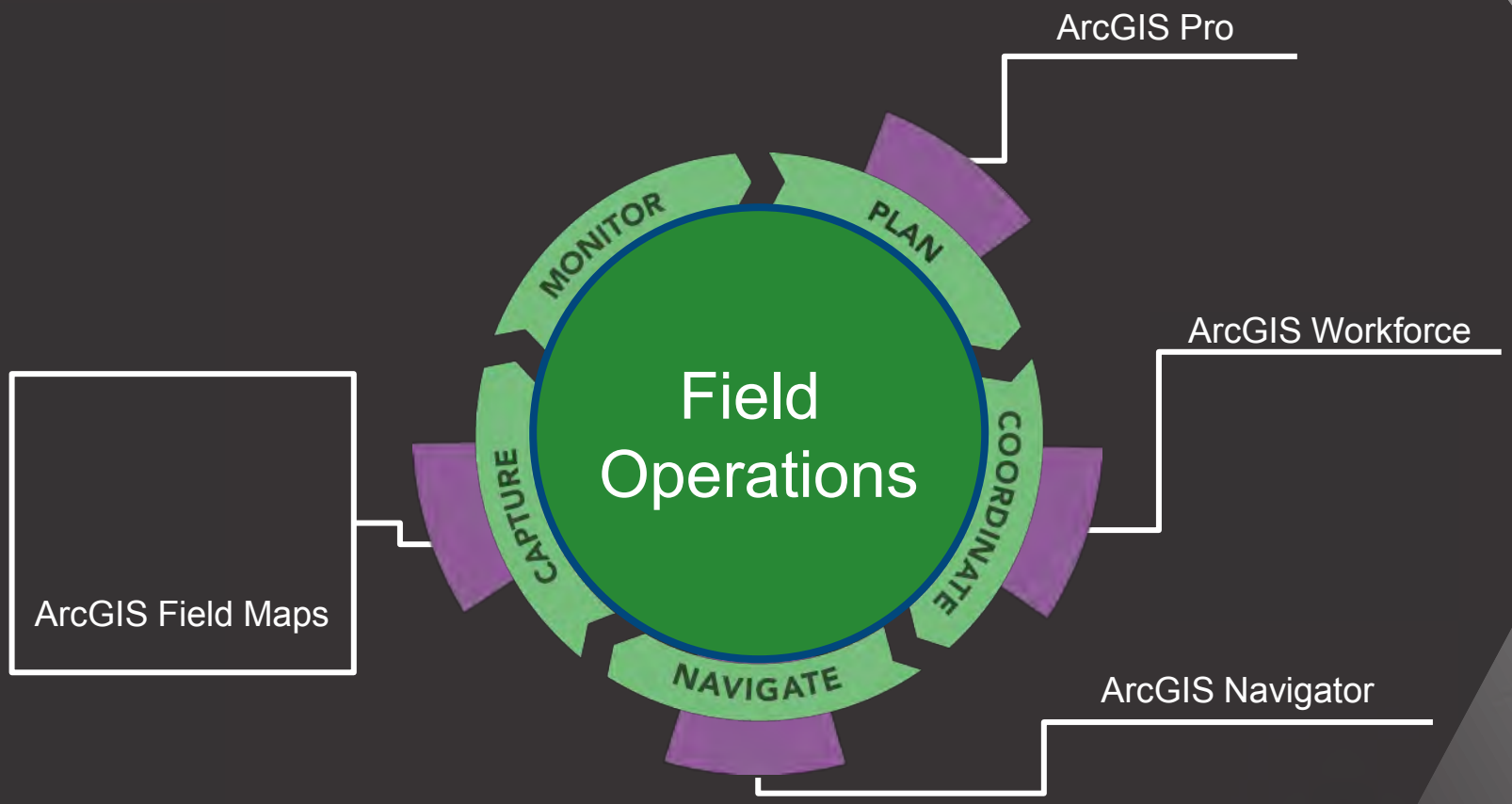
API integration with other Apps

Premium App – additional costing

ANDROID APP ON Google play

Available on the App Store

ArcGIS Field Maps



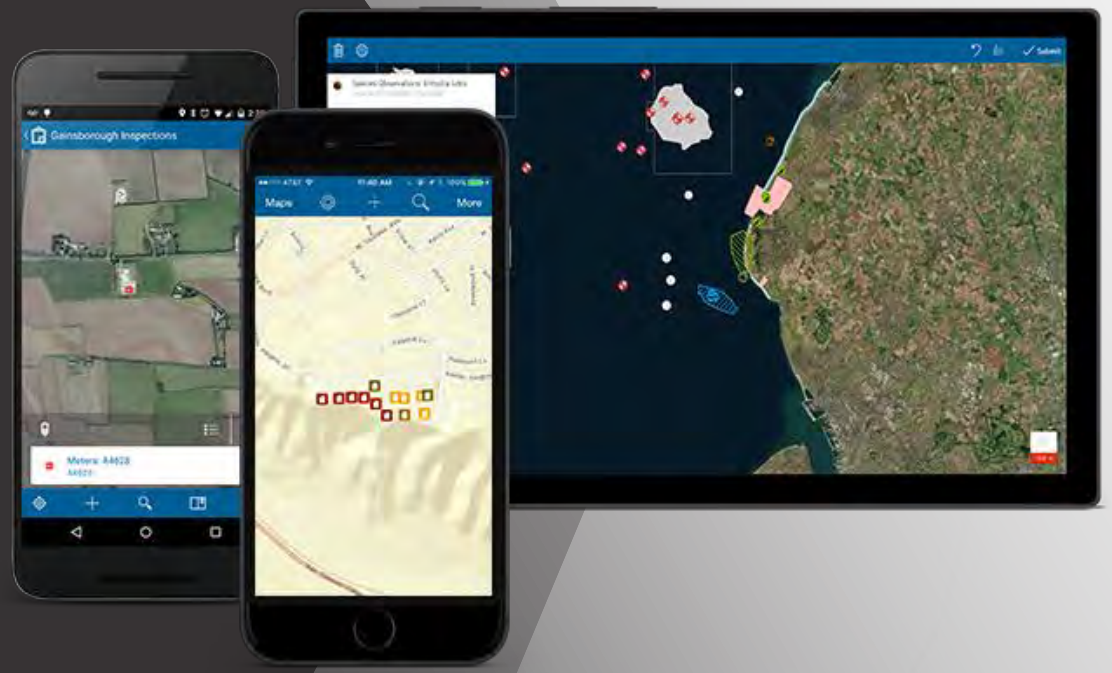
Map Centric Data Collection

Windows Support

High Accuracy

ArcGIS Field Maps

- Web maps
- High accuracy GPS
- Works offline
- Related Tables & Attachments
- Smart forms for data capture



ANDROID APP ON Google play

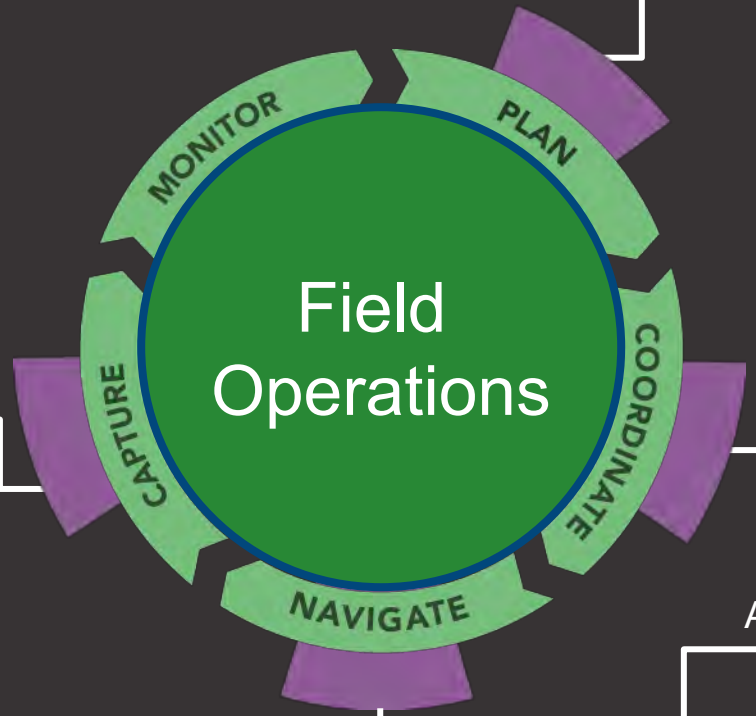
Available on the App Store

Download on the Windows Store

ArcGIS Survey123

ArcGIS Survey123

ArcGIS Field Maps



ArcGIS Pro

ArcGIS Workforce

ArcGIS Navigator

Quickly create forms

Smart Forms

Visualize results

ArcGIS Survey123

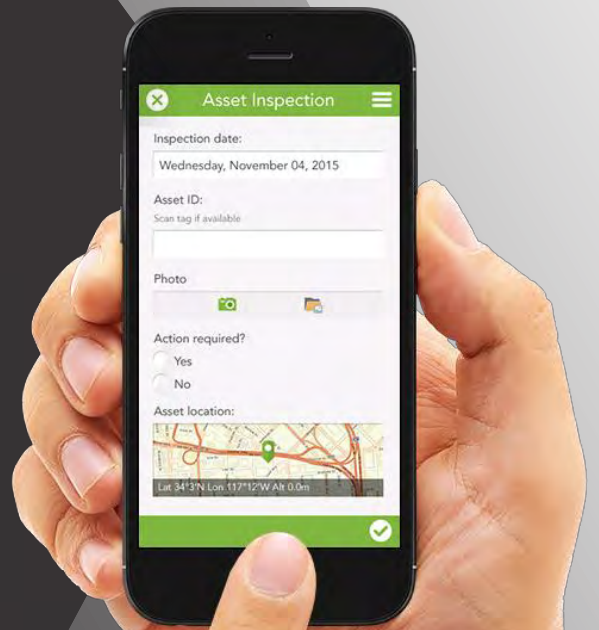
Form-centric field data collection

Leverages Smart forms

Analyze results immediately

Related Tables & Attachments

ArcGIS Online & Portal 10.5.x



Download on the App Store

ANDROID APP ON Google play

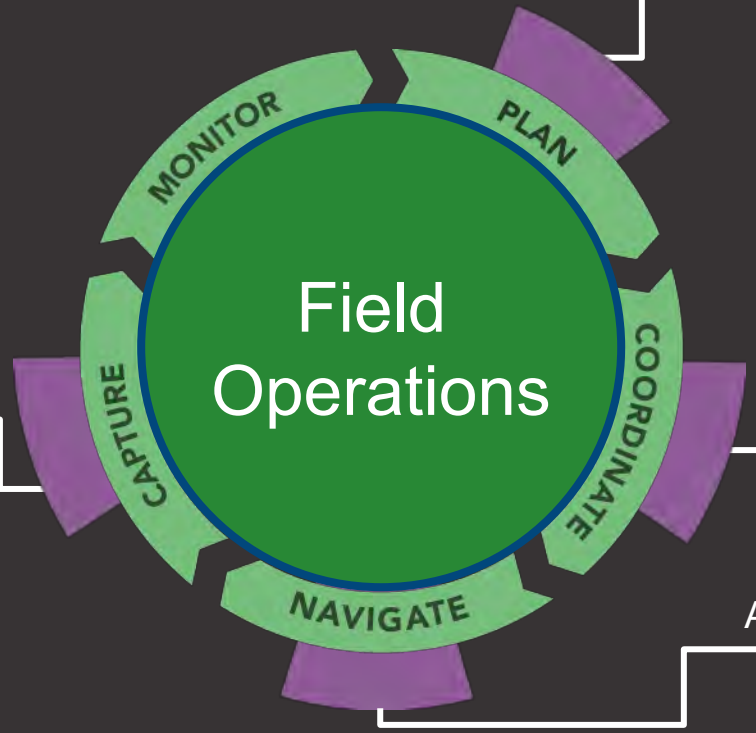
Drone2Map for ArcGIS

ArcGIS Pro

ArcGIS Drone2Map

ArcGIS Survey123

ArcGIS Field Maps



ArcGIS Workforce

ArcGIS Navigator

Reality Capture

2D and 3D

Seamless integration with Enterprise

Drone2Map for ArcGIS

Process raw drone imagery

Create GIS ready products

Share and analyze in ArcGIS

ArcGIS Pro Integration

GCP Workflow in Collector

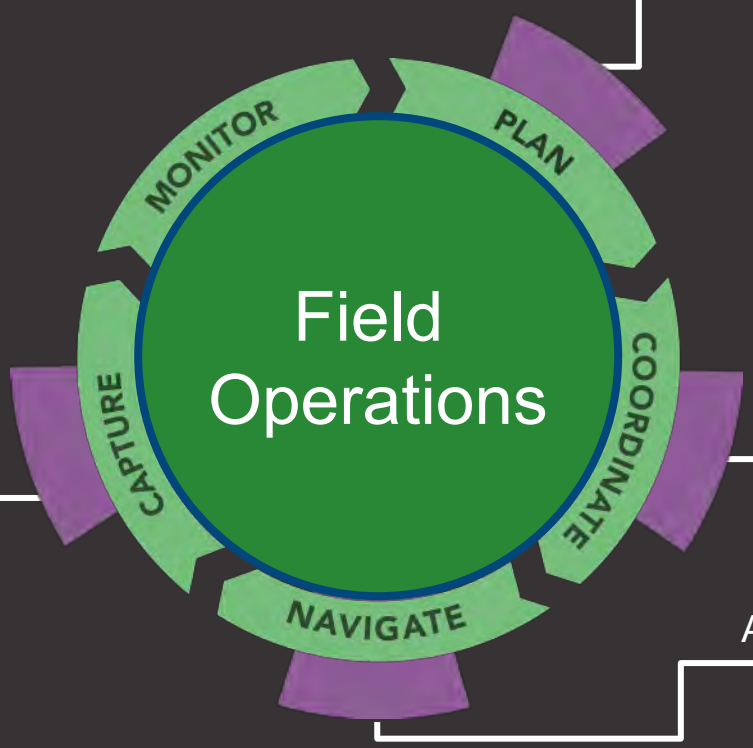
ArcGIS QuickCapture

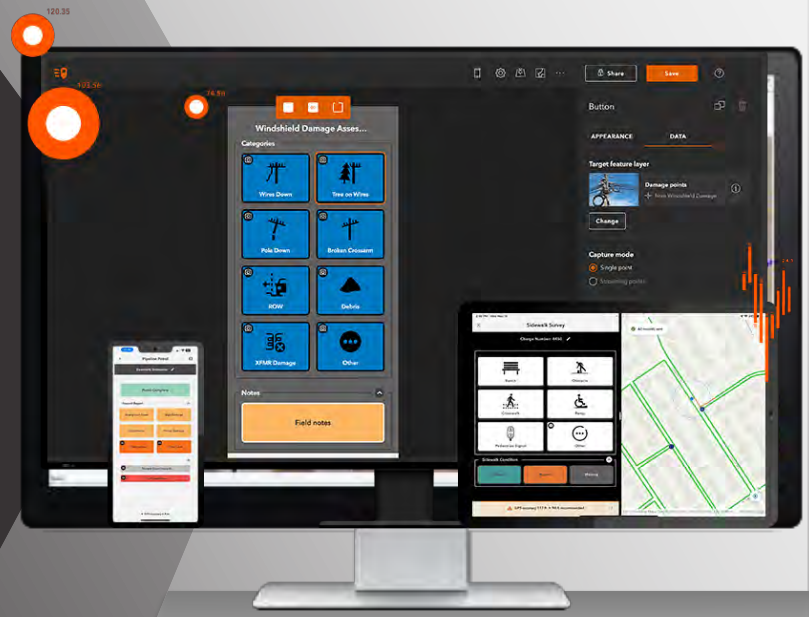
ArcGIS Pro

ArcGIS Workforce

ArcGIS Navigator

- ArcGIS QuickCapture
- ArcGIS Drone2Map
- ArcGIS Survey123
- ArcGIS Field Maps





User Friendly

Easy Customisation

Increased Productivity

ArcGIS Dashboard

ArcGIS Dashboard
ArcGIS Earth

ArcGIS Pro

ArcGIS QuickCapture

ArcGIS Drone2Map

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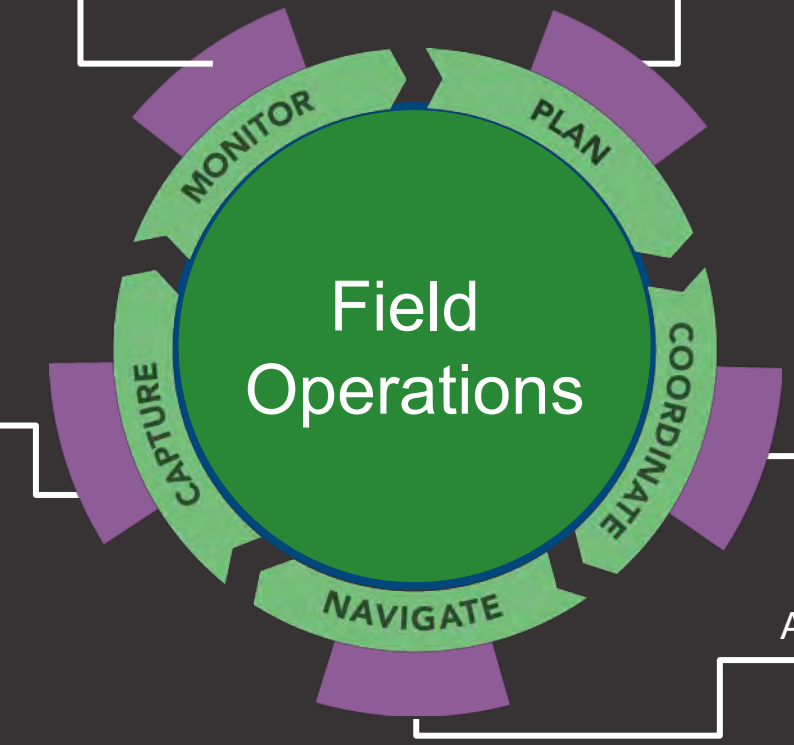
ArcGIS Field Maps



ArcGIS Workforce

ArcGIS Navigator

Real-Time Monitoring

Key Performance Indicators

Next Generation

Let’s get to work….

Q & A?

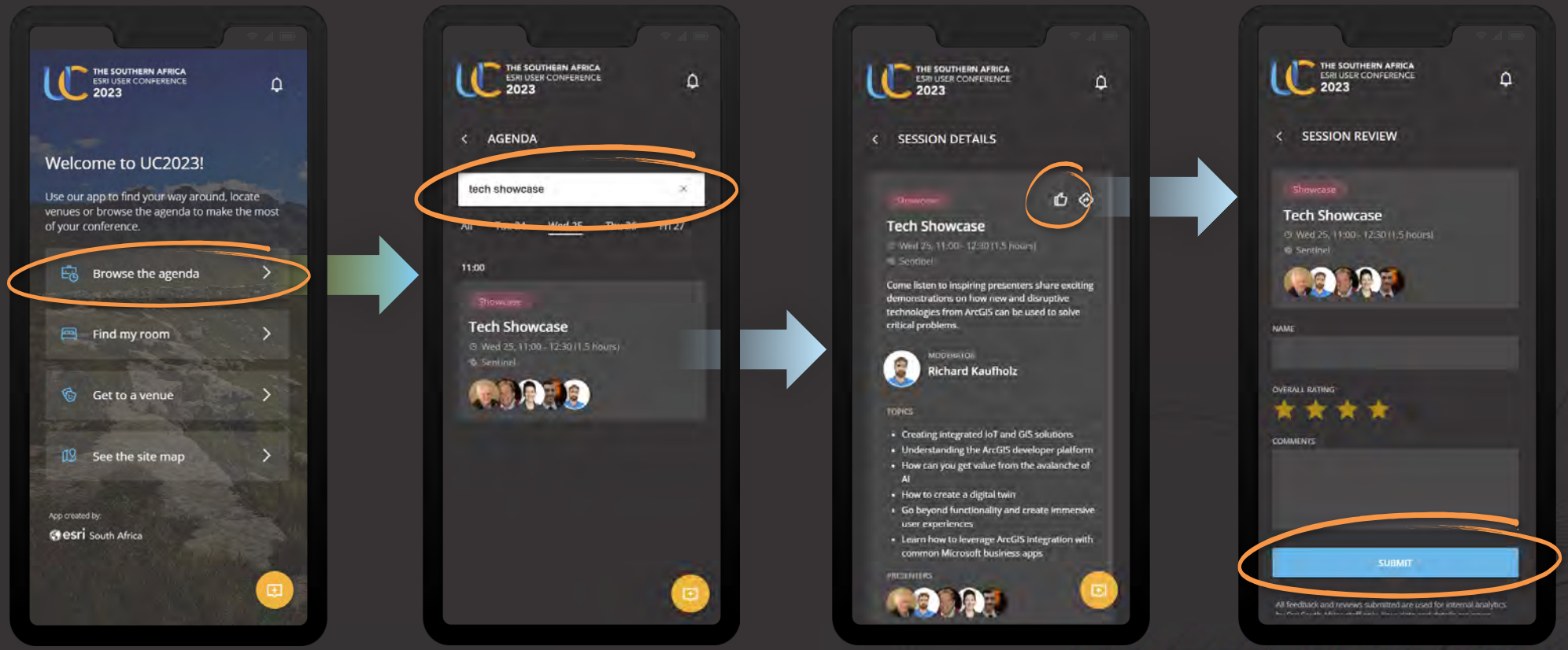
Please share your feedback in the UC2023 app

Open
uc2023.esri-southafrica.com
and browse the agenda

Search and select the session you attended

Click the “thumbs up” icon

Complete and submit your review



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