February 10–11, 2014 | Washington DC



ArcGIS for the Military – Land Operations

Ben Conklin

Gary Sheppard

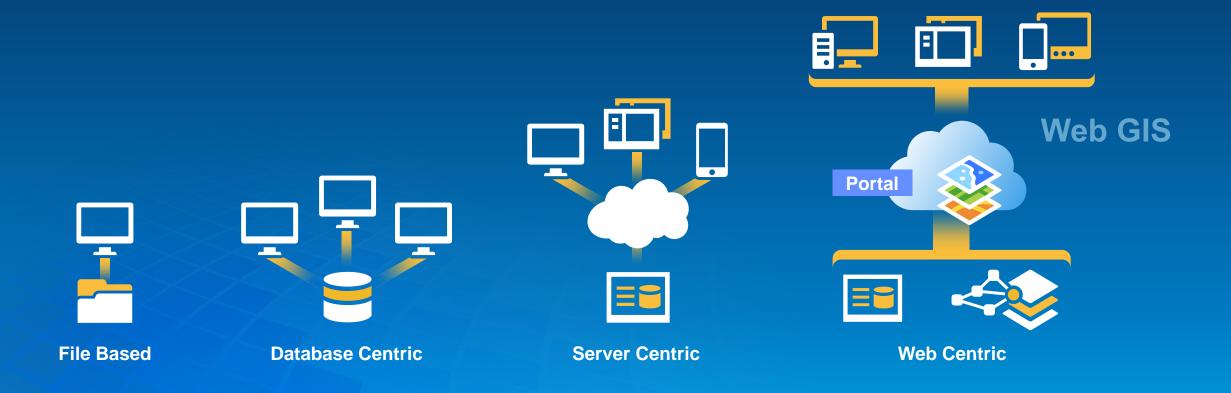
Scott Cecilio



GIS Changes How We Think and Act Integrating Geographic Science in Support of Military Operations Decide Evaluate Plan Design Prepare Act **Predict** Manage Analyze Measure **Enabling Warfighting Functions**

ArcGIS Supports Multiple Implementation Patterns

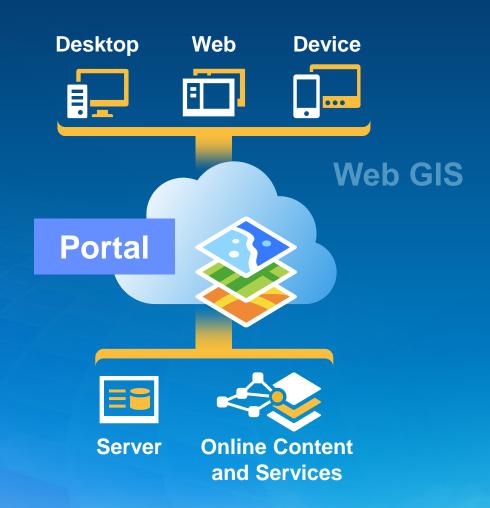
Leveraging Common Computing Architecture



ArcGIS Is a Platform

Enabling Web GIS Everywhere

Simple
Integrated
Open



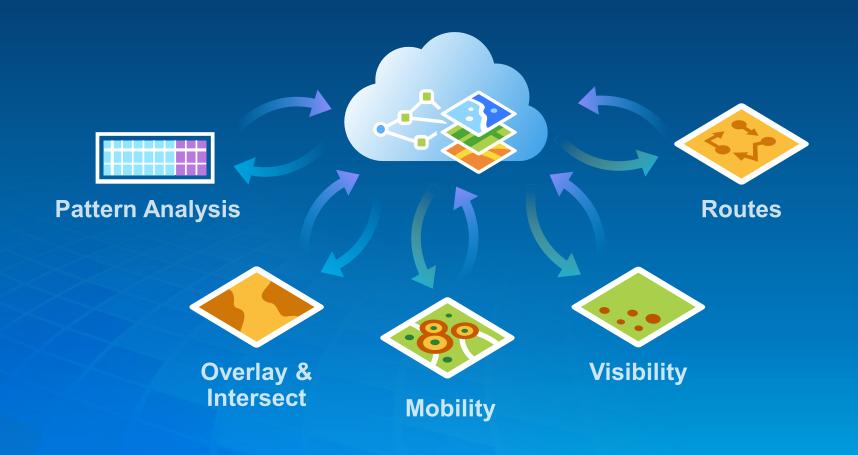
Available in the Cloud . . . and On-Premises

Web GIS Can Represent All Data Types

As Web Maps and Web Services



Web GIS Includes Analytic Services



The Platform Geo-enrichs Enterprise Systems

Providing Mapping, Spatial Analysis, and Reporting



Esri Maps for . . .

- SharePoint
- Office
- IBM Cognos
- MicroStrategy
- SAP
- Dynamics

Web GIS Integrates Organizations and People

Breaking Down the Barriers

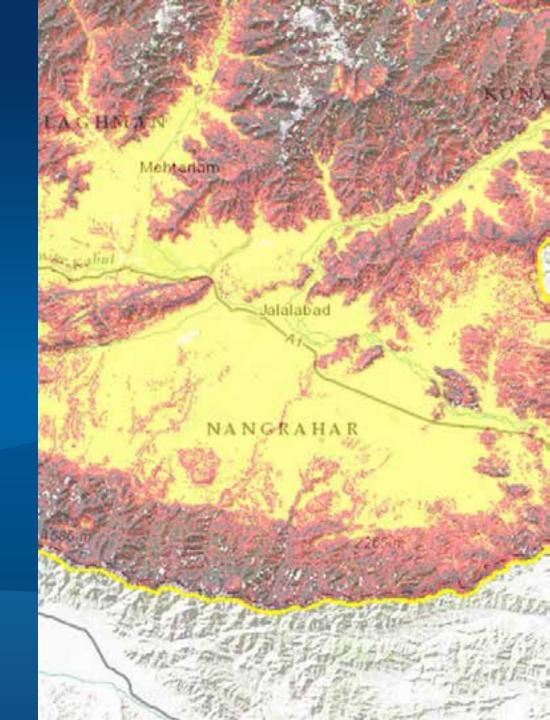




Creating New Relationships

ArcGIS for the Military Land Operations

- **1** Overview of Platform
- Supporting Analysis and Planning
- Supporting Operations



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Information Sharing enables Decisive Action



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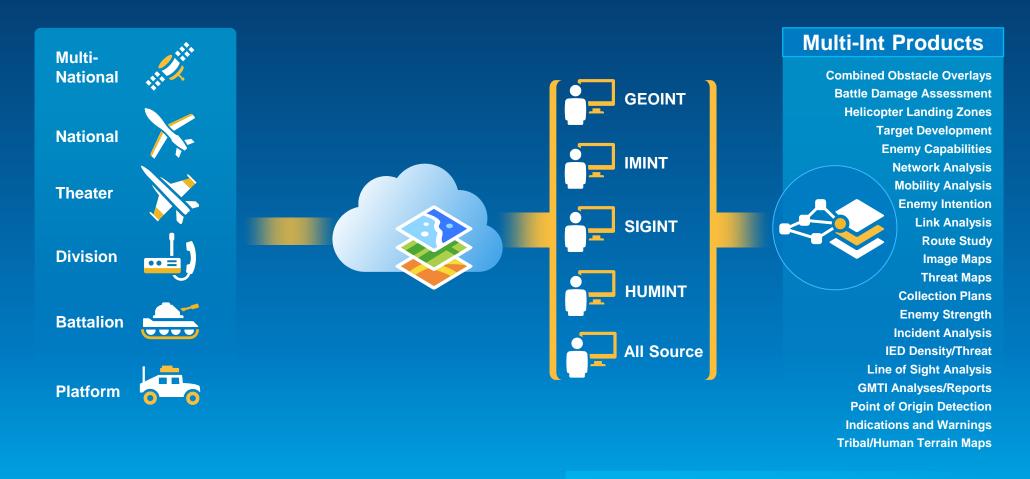


Integrating Information

Enabling true collaboration

Intelligence Platform

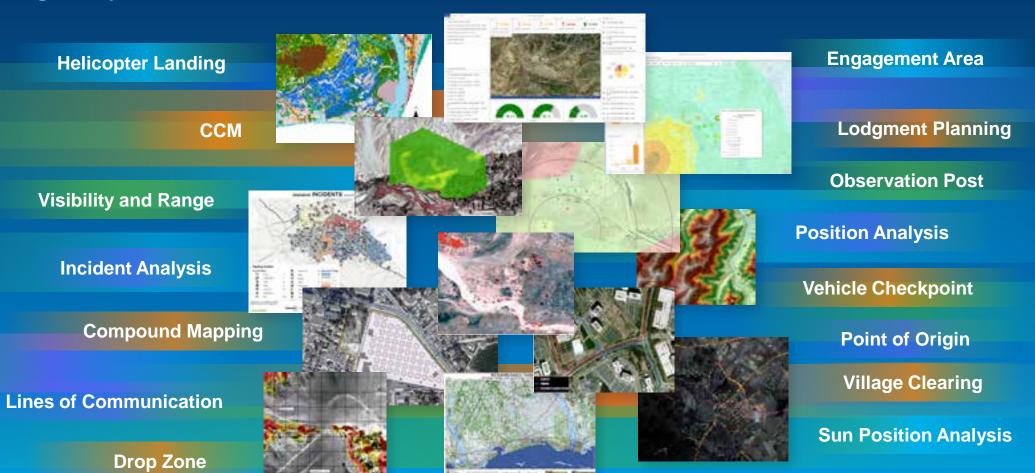
ArcGIS Can Provide the Intelligence Platform



From Raw Data to Finished Intelligence

Recent Template Development related to Land Operations

Making Geospatial Easier to Use



What is a Template?

Fully documented and open source

Maps

- Useful examples of standard information products
- MPK, Web Maps etc..
- Tools
 - Standalone Tools or scripts
- Services
 - Map, Image, Geoprocessing, Event Processing
- Application Configurations

Templates are not new technology!
They build on what you already have and use.



Helicopter Landing Zones



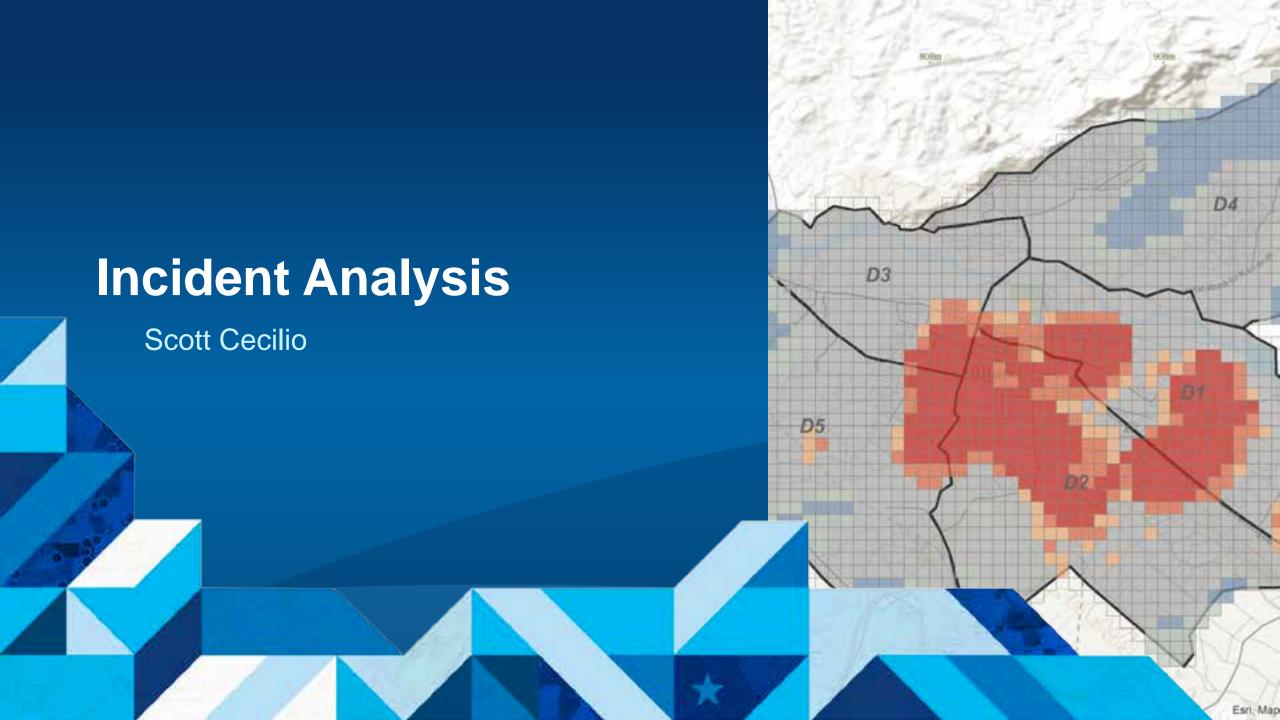
Based on readily available terrain data

Models eliminate non-suitable areas

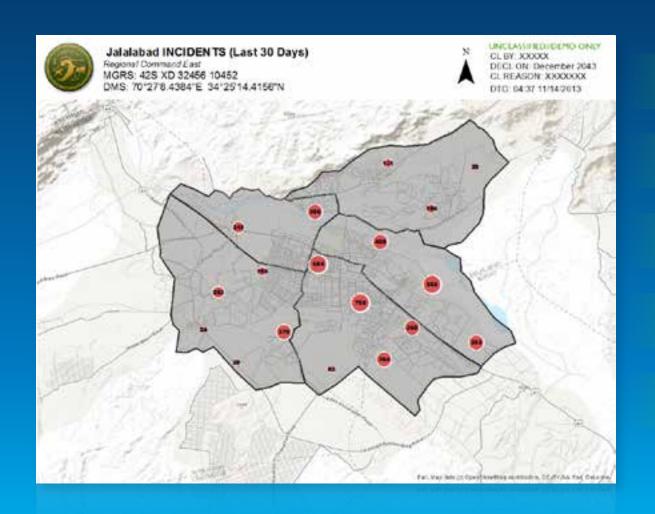
Factors-slope, vegetation, aspect, dimensions

Factor's Airframe Requirements

Automated HLZ capacity assessment



Incident Analysis



Five Analytical Products

Density and Clustering Analysis

AOR - Regions - Communities

Weighted Features - Statistical Analysis

Trends and Pattern Analysis

GIS is an Integrating Function



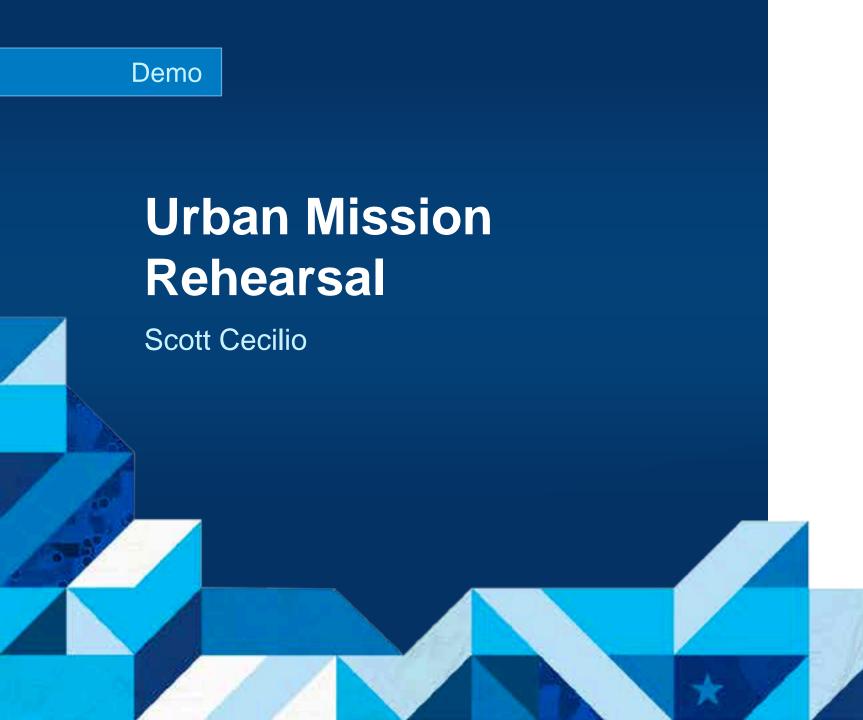
- **Define** the Battlefield / BattleSpace
- Describe the Operational Environment
- **3** Evaluate the Threat / Adversary
- 4 Determine Course of Action

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Providing Access to Information

Enabling collaboration



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Integrating Information in Real-Time

In the Headquarters and the Field...

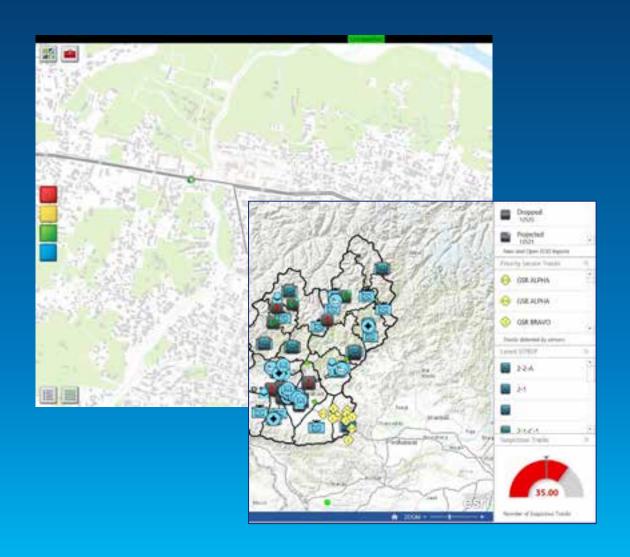
Situational Awareness Gary Sheppard Tangi Charsadda Nowshera Peshawar

Unified Command Picture



Operations Dashboards Gary Sheppard Charsadda Nowshera Peshawar

Operations



Tailored views for decision making

Automated monitoring of critical indicators

Focus on critical mission requirements

Users can bring mission data to the field

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Information Sharing enables Decisive Action



Briefing Products

Scott

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Information Sharing enables Decisive Action

Questions?

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Networking Reception Smithsonian National Museum of Natural History

Tuesday, 6:30 PM—9:30 PM Bus Pickup located on L Street

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Printing stations located in Hall B and the 140/150 Room Concourse.

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GIS Solutions EXPO, Hall B

Monday, 12:30 PM-6:30 PM Tuesday, 10:45 AM-4:00 PM

- Exhibitors
- Hands-On Learning Lab
- Technical & Extended Support
- Demo Theater
- Esri Showcase

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Understanding our world.