Military Tools for ArcGIS
an Overview

Derek Foll
Lyle Wright
Agenda

What we will cover

• Overview of Defense Solutions
• Military Tools for ArcGIS
• Demonstration
• What’s next
Defense Solutions
Overview
Overview of Defense Solutions
Esri solutions for defense customers

• Over 50 maps, apps, and tools
  - Configurable and extensible
  - Freely available and fully supported
• Best Practices
  - Supporting standards and military specifications
  - Industry-driven requirements
• Mission-focused workflows
  - Command and Control
  - Intelligence operations and analysis
  - Operational readiness

Delivered via solutions.arcgis.com
Overview of Defense Solutions
Flexible capability and deployment
Overview of Defense Solutions
Who do we support

- Intelligence Analyst
- Geospatial Analyst
- Imagery Analyst
- CI/HUMINT
- SIGINT Analyst
- Planners
- Staff Officers
- Decision Makers
Overview of Defense Solutions
Our mission is to help you

• Deliver maps and applications quickly throughout your organization
• Stay current with future releases / avoid legacy technology
• Deploy a geospatial platform that can be leveraged by many
• Leverage the collective knowledge of the entire community
• And do this with … less staff, budget, and technical expertise
Overview of Defense Solutions
Flexible capability and deployment

Military Tools for ArcGIS
- Coordinate Conversion
- Military Symbol Editor
- Distance and Direction
- …
- Available on media and as a single download

Templates
- Visibility and Range
- Military Overlay
- Incident Analysis
- …
- Available as Downloads

Individual Tools
- Line of Sight
- Bomb Widget
- Coordinates
- …
- Available as Downloads and on GitHub
Military Tools for ArcGIS
Military Tools for ArcGIS
Components

- Visibility analysis
- Distance and Direction calculations
- Military Symbol Editor
- Coordinate Conversion
Military Tools for ArcGIS
Functionality across the platform

ArcMap Add-ins

ArcGIS Pro Add-ins

Toolboxes

Widgets App Templates Apps
Coordinate Conversion
Coordinate Conversion
Quickly convert between coordinate types

- Input coordinates using
  - Keyboard
  - Map cursor
- Convert between several formats
  - MGRS
  - DD, DMS, and more
- Format a coordinate to your specification
  - 11SMS8472718799
  - 11S MS 84727 18799
- Multiple way to copy one or many formats
- Flexible coordinate handling
- Import / export coordinates
Coordinate Conversion
Using Geoprocessing to convert coordinates

• Input tables or feature classes
• Convert any supported format
• Script tools
  - Standalone python scripts or
  - Use inside a model with other tools
• Import based on tables
  - Table to 2-Point Line
  - Table to Ellipse
  - Table to Line of Bearing
  - Table to Point
  - Table to Polygon
  - Table to Polyline
Military Symbol Editor
Military Symbol Editor
Easily create military symbols by searching symbol attributes

- Support multiple standards
- Schema-based approach to military symbology
- Create/modify symbols using attribute driven drop-downs
- Add text modifiers
- Choose what to do with your symbol
  - Save to favorites
  - Add to Map
  - Coordinate placement
- Import/export favorite symbols
- Create feature templates for symbols
Distance and Direction
Distance and Direction
Geometry creation in one location

- Create geodesic graphics and features
  - Lines
  - Circles
  - Ellipses
  - Rings
- Distance of travel based on capability
- Save graphics with attribute information
Distance and Direction
Use Geoprocessing to create Distance and Direction features

- Create Range Rings based on parameters
  - Given interval
  - Minimum and maximum distances
  - From a table
Visibility
Visibility
Quickly answer visibility questions

- Find answers to visibility questions
  - Field of view from a given observer(s)
  - Find visible points along a straight line of sight
Visibility
Quickly answer visibility questions

• Find answers to visibility questions
  - Linear Line of Sight
  - Radial Line of Sight

• Answer questions about terrain
  - Highest Points
  - Local Peaks
  - Lowest Points
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**ArcPad - An Introduction**

**TIME**

Jul 11, 8:30 AM - 9:45 AM

**DESCRIPTION**

This session will provide an overview of ArcPad, Esri's software for mobile GIS and field mapping, with an emphasis on the new...