ArcGIS for the Military Land Operations

Simon Warwick, Scott Cecilio
GIS Is About Integration

Supporting Individuals, Groups, and Organizations

Integrating and Synthesizing Information from Many Sources

Facilitating Communication and Collaboration

Breaking Down Barriers Between Institutions, Disciplines and Cultures

Becoming an Essential New Language
GEOINT Applications are Growing Rapidly

Mapping, Charting, Data Management, Analysis and Dissemination
This Platform Integrates All Types of Information

Web Maps Normalize The Information . . .

. . . And Make It Accessible Widely
This Platform

• Provides Geospatial Capabilities Across the Entire Organization

• Mapping
• Analysis
• Visualization

... A Framework For Sharing, and Collaboration
...with Solutions on ArcGIS Platform...

...Serving All Members of the Army Enterprise...
Geospatial Enterprise for the Military

ISR Programs
- Sensors
- Common Geospatial Server
- Intelligence

C2 Programs
- COP
- Planning
- Provisioning

Mounted
Dismounted
Geospatial Enterprise for the Military

ISR / C2 Convergence

- Sensors
- Common Geospatial Server
- Intelligence
- COP
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- Mounted
- Dismounted
ArcGIS for the Military – Land Operations
Data Management, Analysis and Planning, Field Mobility, & Situational Awareness

ISR / C2 Convergence

Operations Server

Esri UC2013 | Technical Workshop | ArcGIS for the Military - Land Operations
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Summary
## GIS and C4ISR Operations

### An Evolution of Technologies

#### GIS Architecture
- **Single user:** File-based
- **Multi-user / Department:** RDBMS based
- **Installation wide / Enterprise:** Network based
- **National / Infrastructure:** Services oriented
- **Scalable / Extensible:** Network based

#### Geospatial Intelligence
- **Operations:** "80s – System of systems
- **Now:** "90s – Family of systems
- **Global Network:** NOW – Global Information Grid
The GIS Platform Brings it All Together
How We Create, Share and Leverage Geospatial Intelligence

Easy to Use
- Visualization
- Analysis
- Mapping and Charting

Cloud GIS

Big Data

Cloud Content Management

Standard Clients

Distributed Geospatial Services

HUMINT
Open Source
SIGINT/IMINT
Collection

Groups
Hosting
Content
Services
Maps
Catalog

Tradecraft
Intel Production

Ground and Airborne
Operations

Analysis
Collection Operations

Ground and Airborne
Esri Defense and Intelligence Resource Center
ArcGIS for the Military – Solutions

- Beach Landing
- Path Slope Tools
- Visibility and Range Template
- Military Aspects of Weather Template
- Helicopter Landing Zone
- LAS Dataset Tools
- Position Analysis Template
- Patrol Data Capture Template
- Situation Awareness Template
- Squad Leader Application
- Engagement Area Template
- Unknown Operations Template
- Stability Operations for ArcGIS 10
- Neutral Operations for ArcGIS 10
- METOC for ArcGIS 10
- Observations Post Template
- Position Analysis Template for ArcGIS
- Observation Post Template
- Lodgment Template
- ArcGIS Full Motion Video Add-In 10
- Spatial Pattern Analysis in ArcGIS 10
- Multiple Dashboards

http://resources.arcgis.com