Configuring ArcGIS for Tactical Operations Centers

Derek Foll
Lyle Wright
Defense Solutions – Current Customers

1st Topographic Platoon, USMC
SOF Geospatial Enterprise
G2, 4th Infantry Division
Sacramento Sheriff
1 MEF G2, ICOP
US Coast Guard
Israeli Navy
FBI CIRG
NATO

85th Civil Affairs
Yuma Proving Ground
Bundeswehr Geoinformation Center
Tactical Service Oriented Architecture, USMC
Boston Regional Intelligence Center (BRIC)
Military Counterintelligence Service, Germany
512th Engineer Detachment, US Army South
Command for Strategic Recon and Joint Imagery Analysis Center, Germany

Customs and Border Patrol – Office of Geospatial
NGA IGAPP Vendor Portal
AF FPED Baseline
DCGS-A 3.2.5 and 3.2.6 Baseline
FORSCOM GEOINT Workstation Baseline
4th Infantry Division – Civil Affairs
What is an Operations Center?

“A facility containing the majority of the staff designed to control current operations, conduct detailed analysis, and plan future operations.”

ATP 6-0.5 Command Post Organization and Operations
What is Field Collection?

“Firsthand observation, interviews, surveys, and other tools used to make more knowledgeable decisions are characteristics of the deliberate assessment.”

*FM 3-05.401 Civil Affairs Tactics, Techniques, and Procedures (September 2013)*
Receive civil information
Make recommendations
Influence the civil component
Analyze/develop/manage civil information
Coordinate resources
Synchronize capabilities
Conduct transitional operations
Integrate resources/capabilities
Disseminate civil information
Civil-Military Operations Challenges

Can we do all this with what we have today?

Can we increase speed and accuracy at collection?

Can we maintain updated information from ongoing civil-military operations?

Can civil-military information be collected as quantitative data?

Can civil-military information aid in the intelligence preparation of the battlefield?

Can we get metrics on civil-military operations?
What problem were we trying to solve?

- Paper-centric
- No integrated processes
- No data visualization
- Planning operations and managing information
- Field collection
- Monitor operations
Configurations of ArcGIS for Civil-Military Operations

CMOC / CA Teams
- POPREP (Mobile/Web)
- Atmospherics Questionnaire
- RFI (Mobile/Web)
- Priority AOI & Engagements
- Civil Mission Execution Planner

G2 Functions
- Open Source Reporter
- G2 Atmospherics

Geospatial
- Foundational Data

CMOC QA/QC
- Civil Affairs Operations Manager

CMOC Commanders Update
- Civil-Military Weekly Update
- Civil-Military Ops Dashboard
Preparing for Operations
Plan safe and effective missions
Basic Survey Form Development Pattern

Publish

Survey123 Online or Survey123 Connect

Share

ArcGIS Online or Portal for ArcGIS

Web Form or Mobile App
Field Collections

Easily collect consistent data in the field
Civil-Military Operations Forms

- Designed to replace paper and automate key workflows
- Field collection of survey and interview data
  - On mobile device, laptop, browser
- Web- or Excel-based smart forms
- Shared as form and feature service
- Include:
  - Atmospherics Questionnaire (Brief Interviews)
  - Population Assessment Questionnaire Report (POPREP) (In-Depth Interviews)
  - Requests for Information (RFI)
Managing Data
Manage data collected in the field
Basic Workflow
Operations Management
Supporting Operations through Ops Dashboard
Solutions

solutions.arcgis.com/defense/help/civil-military-operations

• Forms
  - Atmospherics Questionnaire
  - Population Assessment Questionnaire Report (POPREP)
  - Requests for Information (RFI)

• Web Apps
  - Priority Areas of Interest and Operations
  - Civil Mission Execution Planner
  - Civil-Military Operations Manager

• Civil-Military Operations Dashboard
ArcGIS Solutions for Defense

• Solutions accelerate the adoption of ArcGIS with ready-to-use maps, apps, and tools tailored to specific industry needs.
  - Documented
  - Supported and maintained
  - Open source