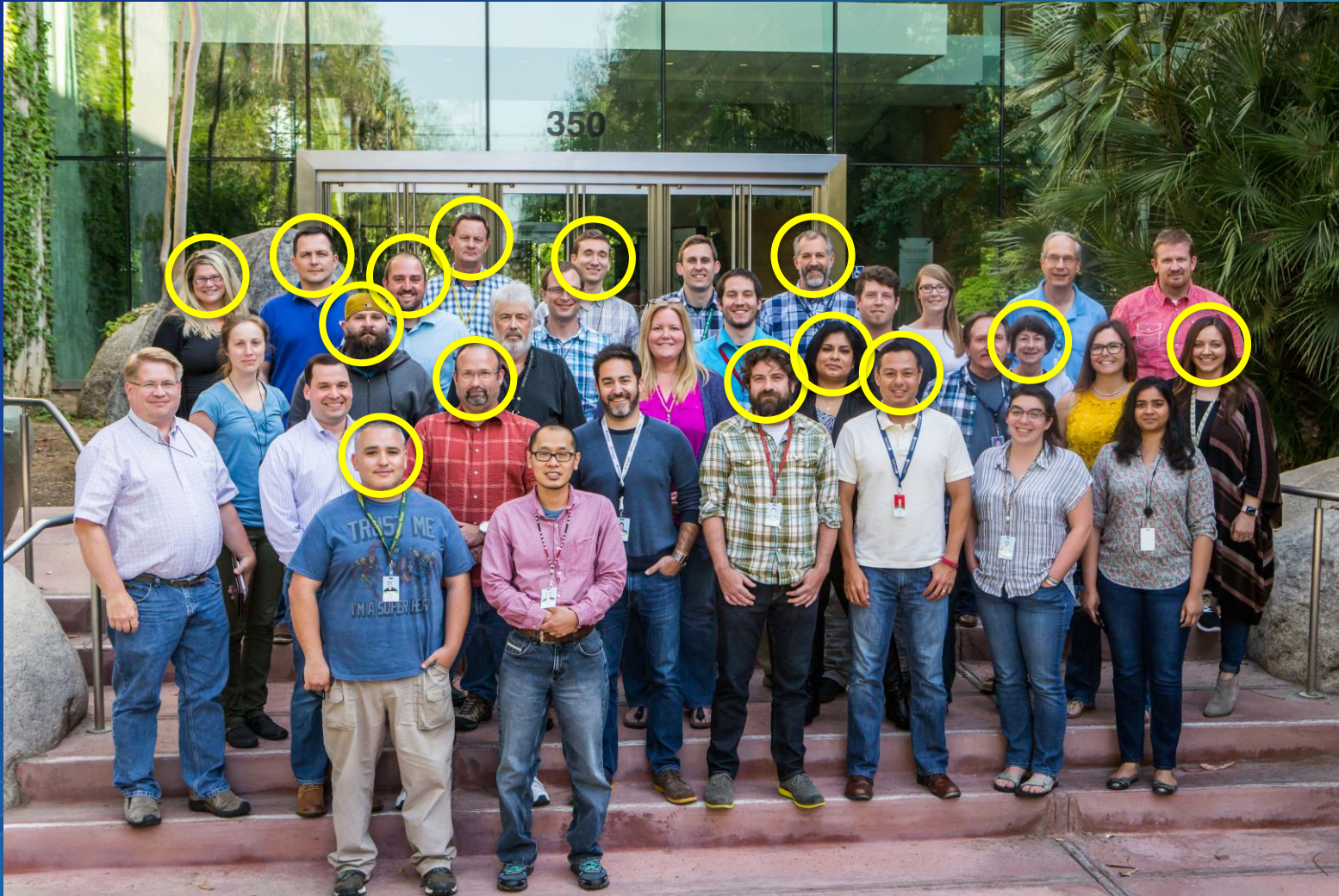


Defense Solutions: Overview

Karl Terrey

Natalie Feuerstein

Meet the team



Our Vision

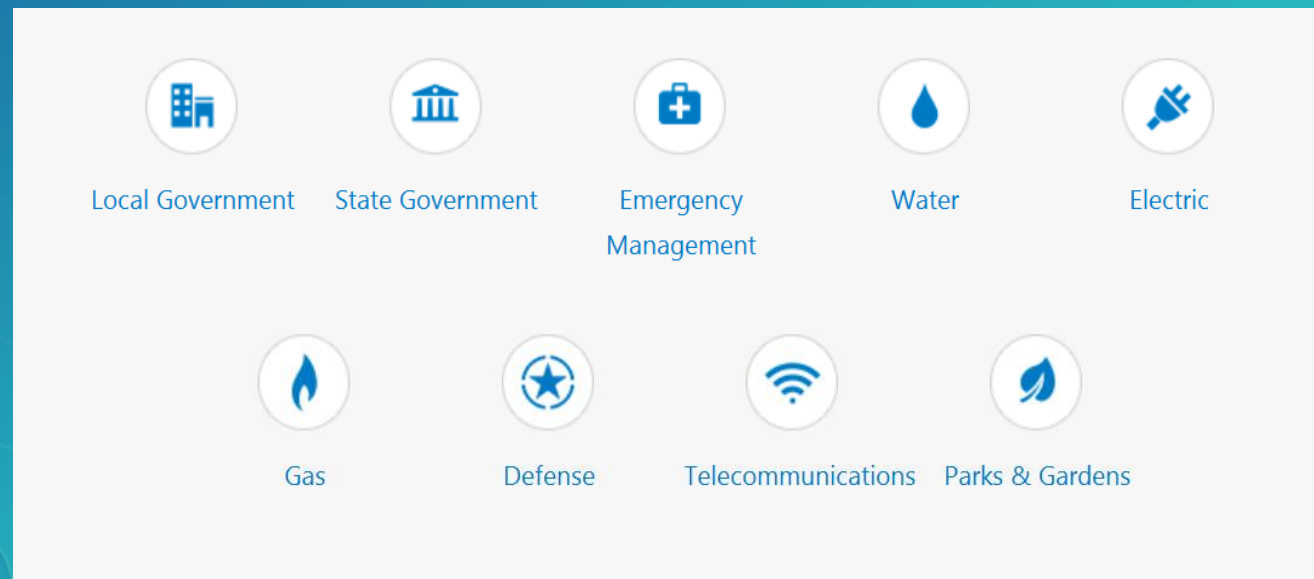
Provide a series of useful maps, apps, and tools that help ArcGIS user in the defense, intelligence, and para-military organizations in the national security space get the most out of their investment in ArcGIS.

We do this by working with our users and other Esri teams to close key technology gaps, taking into consideration:

- Air-gapped networks
- Intermittent connectivity
- Portals behind firewalls
- Required operating standards (military symbology, message formats, etc)
- Program of Record software acquisition

Purpose of Solutions

- ArcGIS Solutions are accelerators for the functionality and value of an ArcGIS deployment for a specific industry
 - Rapid deployment of specific capabilities
 - Quick solutions to common business challenges
 - Launch or expand an organizational mapping portal
 - Establish best practice geospatial workflows within the community
- Solutions are used in many ways
 - Production deployment
 - First iteration of an app
 - Proof of concept
 - Code sample
 - Workflow example
 - Information models
 - Requirements for custom application



Timeline of Defense Solutions

MOLE 1.0 created
using MapObjects
and ArcView 3.0

MOLE
1.0

1999

Military Analyst is created
by migrating gov't tools
written in Avenue

Military
Analyst 1.0

2001

MA/MOLE Team
moved to Defense
Services

Defense
Services

2006

Team moved to
Core Development

Software
Development

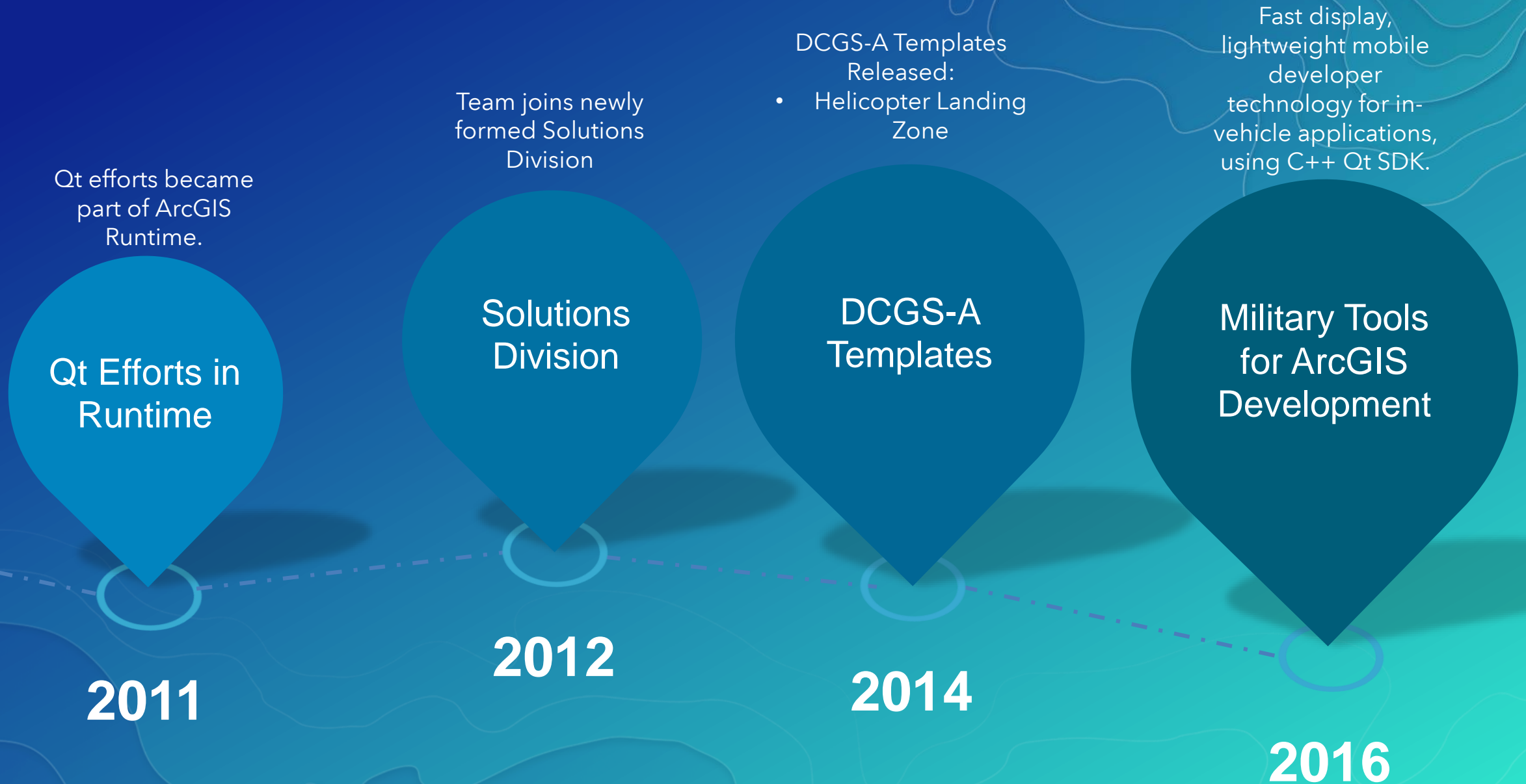
2009

Fast display,
lightweight mobile
developer
technology for in-
vehicle applications,
using C++ Qt SDK.

Project
"Archer"

2013

Timeline of Defense Solutions



ArcGIS Solutions for Defense

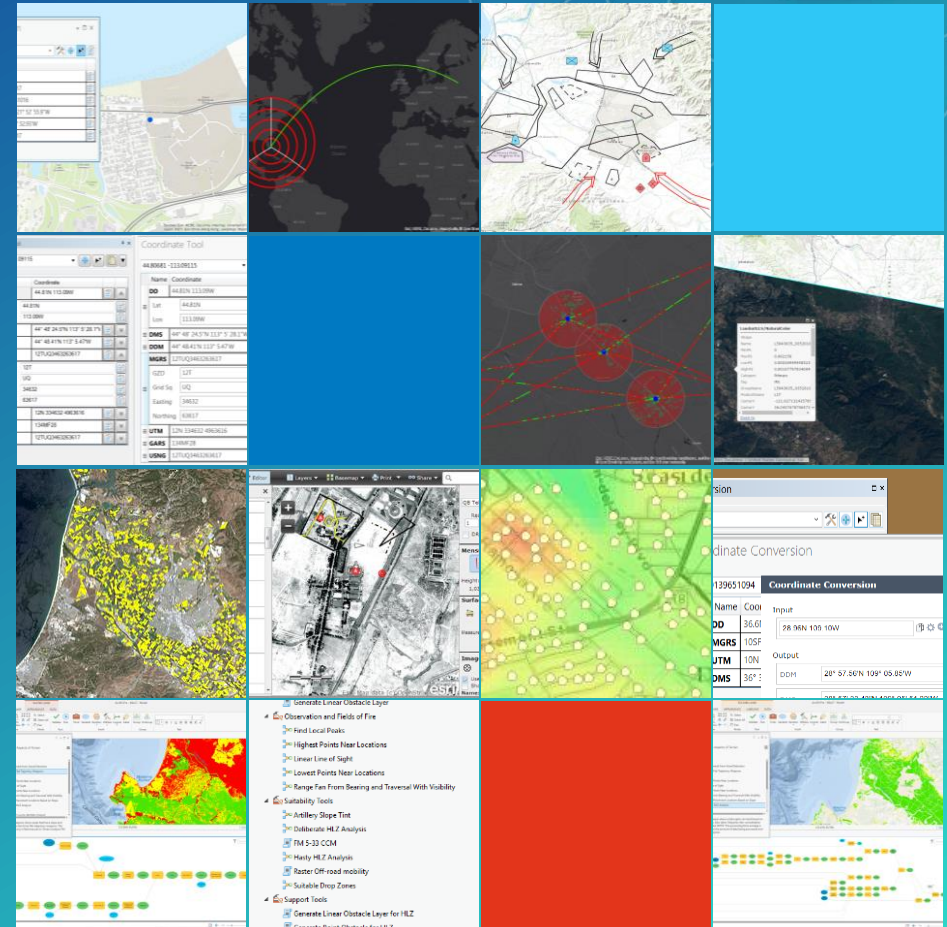
Solutions accelerate the adoption of ArcGIS with ready-to-use maps, apps, and tools tailored to specific industry needs.

Documented

Maintained and Supported

Open source

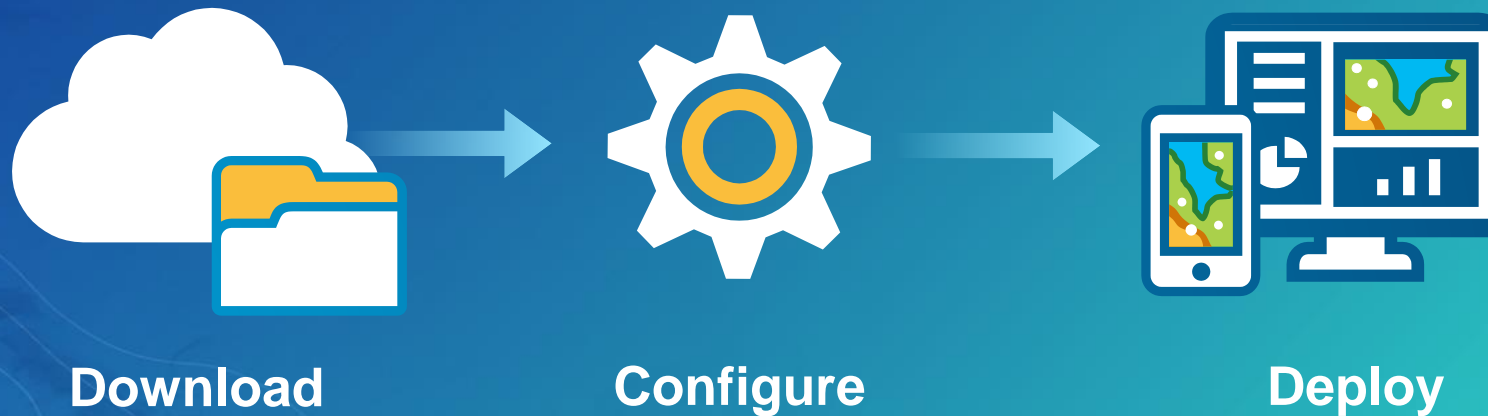
solutions.arcgis.com



What are Solutions?

Ready to use.....

- Maps, Apps, Tools, Widgets, Tasks in Pro, etc – templated workflows that we keep current as technology progresses and business needs change
- No additional charge
- Backed by a community



Defense Solutions – Current Customers

1 MEF G2, ICOP
US Coast Guard
Sacramento Sheriff
Israeli Navy
G2, 4th Infantry Division
85th Civil Affairs
Yuma Proving Ground
1st Topographic Platoon, USMC
Tactical Service Oriented Architecture, USMC
Bundeswehr Geoinformation Center
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



DCGS-A
3.2.5 and 3.2.6
Baseline



NGA IGAPP
Vendor Portal



FORSCOM
GEOINT
Workstation
Baseline



4th Infantry
Division – Civil
Affairs



Focus Areas



OPERATION CENTERS

A physical groupment of those elements of a general and special staff concerned with the current operations and the support thereof. It usually has sufficient intelligence capability to aid in the process.



FIELD OPERATIONS

Coordinated action in response to or in preparation of a developing situation. Personnel operate both mounted and dismounted, often disconnected from the operation center network.



INTELLIGENCE SUPPORT

Tailored intelligence to meet the unique challenges presented in each operation. Presenting a common, coordinated intelligence picture by fusing tactical and strategic intelligence and law enforcement info into assessments and estimates.



LOGISTICS AND
ASSET
MANAGEMENT

Movement and maintenance of personnel, material, facilities, and services used in an operational or support role. This includes understanding the operational environment: terrain, weather, and other risks.

Defense Solutions – Current Capabilities



Web



Mixed

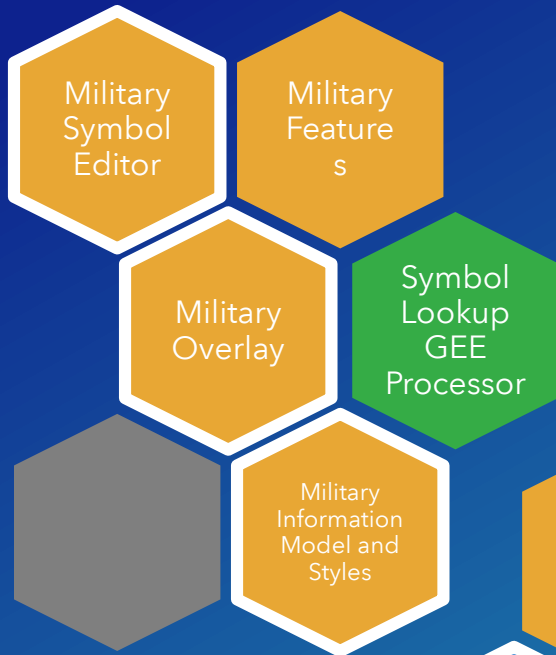


Desktop

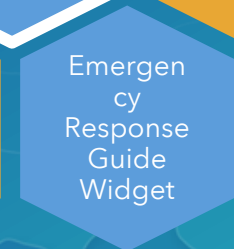
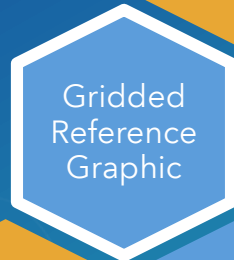


New since UC 2016

Military Symbolology



Mission Planning



Environmental Impacts



Intelligence Analysis



Civil-Military Operations

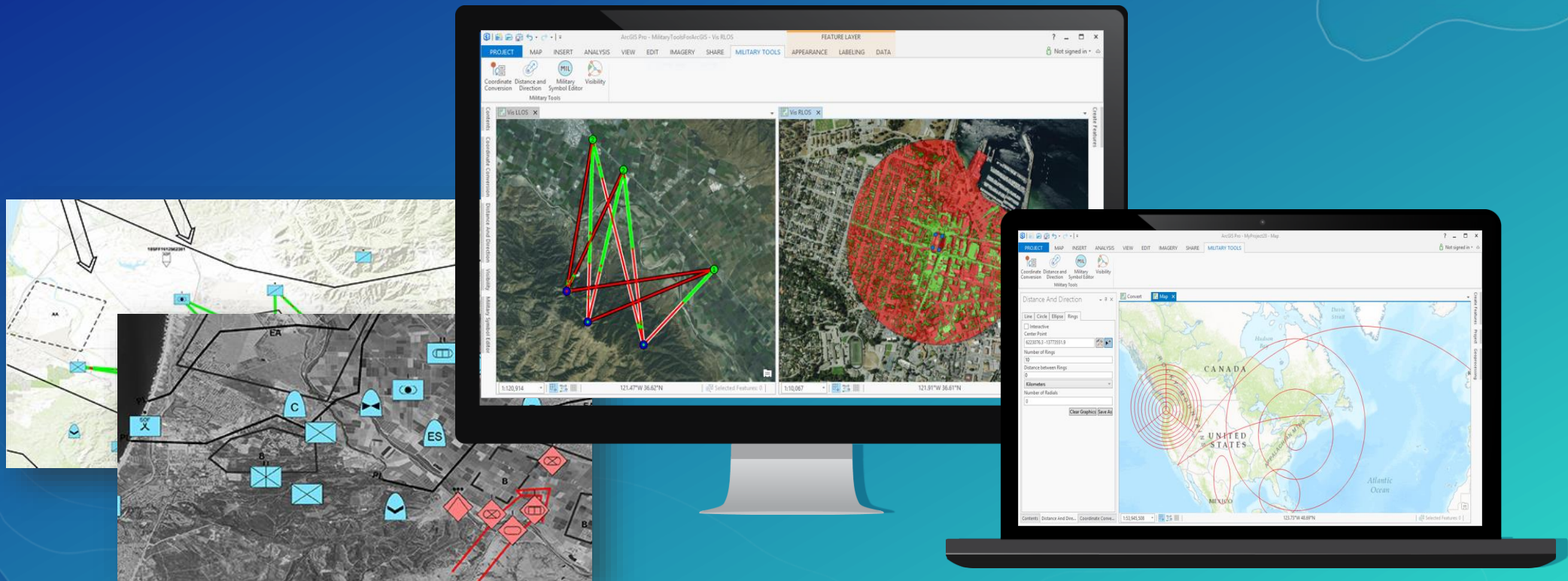


Whole Organization



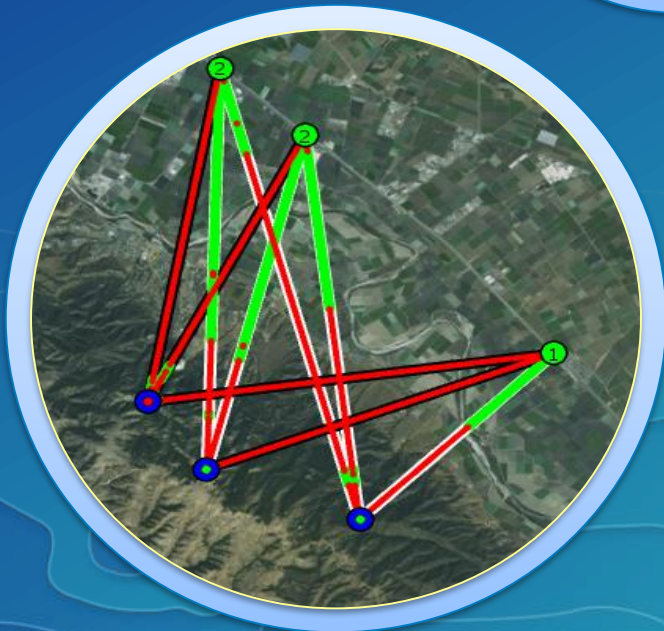
Defense Solutions – Military Tools for ArcGIS

Essential, supported, open source, tools that reduce the complexity, cost, and time to create common defense and intelligence geospatial products.



Defense Solutions – Military Tools for ArcGIS

Visibility analysis



Distance and Direction calculations



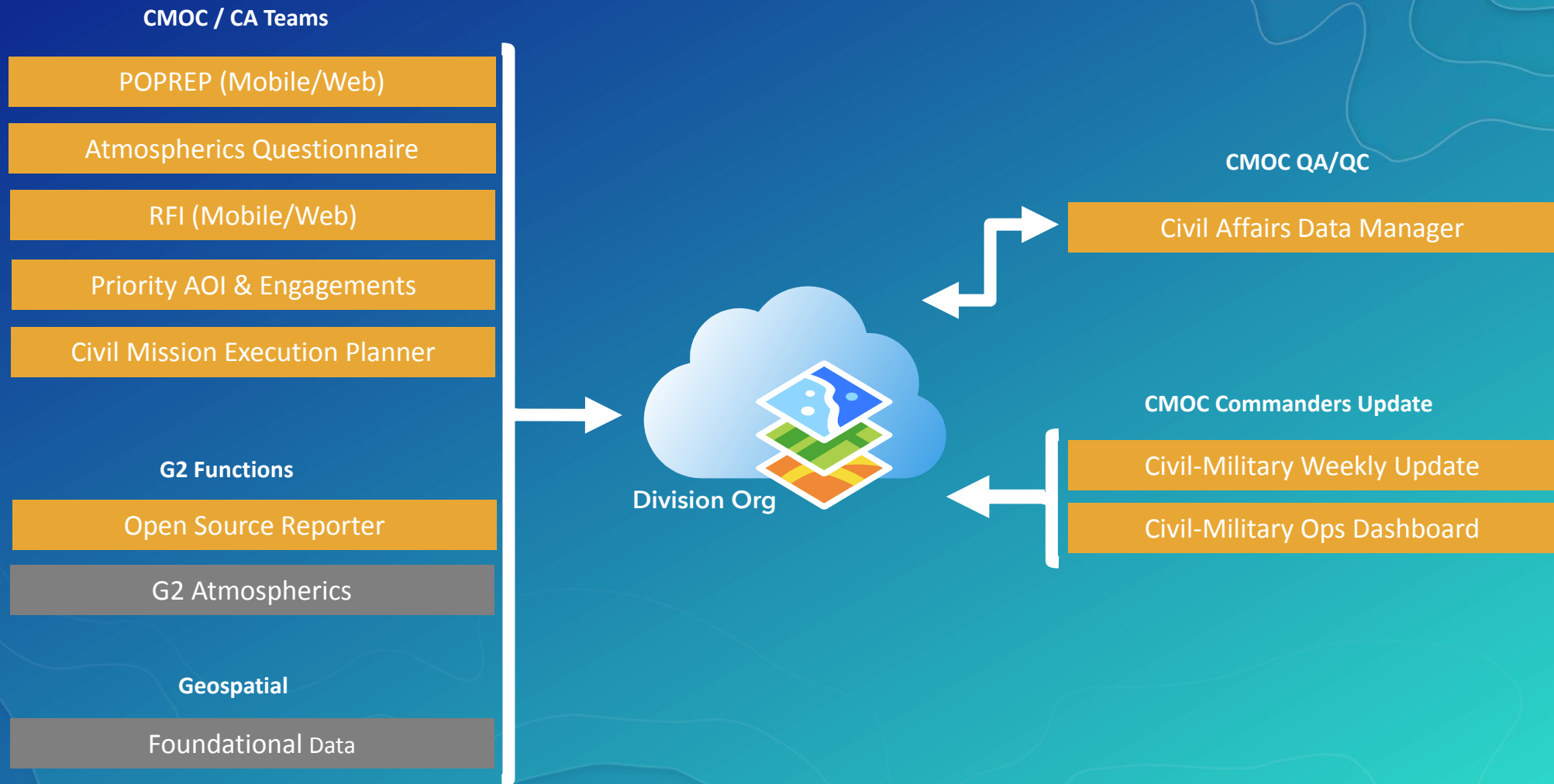
Military Symbol Editor

Coordinate Conversion

A circular inset showing a screenshot of a coordinate conversion tool interface. The interface has an 'Input' section with a text box containing '36.344027 -121.387011'. Below it is an 'Output' section with a table showing the converted coordinates in MGRS, DMS, and UTM formats.

	Name	Coordinate
+	MGRS	10SFF4474623314
+	DMS	36° 20' 38.5"N 121°
+	UTM	10S 644746 402331

Defense Solutions – Civil-Military Operations



Defense Solutions – Roadmap



Defense Solutions at UC

Military Tools
for ArcGIS: An
Overview

Tu

Military Tools
for ArcGIS in
ArcGIS Pro

W

Simple maps and
apps for tactical
operations

W

Operations
Centers

Th

W

Creating and
Sharing Military
Overlays

W

Measuring
Environmental
Impacts on
Operations

Th

Military Tools
for ArcGIS for
Developers

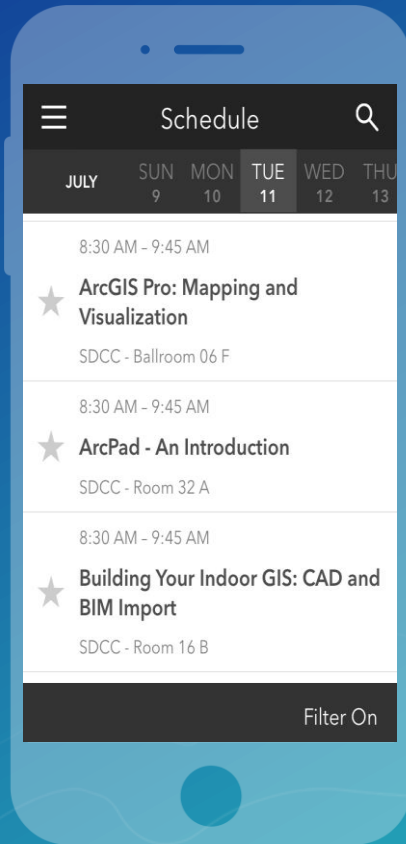


Please Take Our Survey on the Esri Events App!

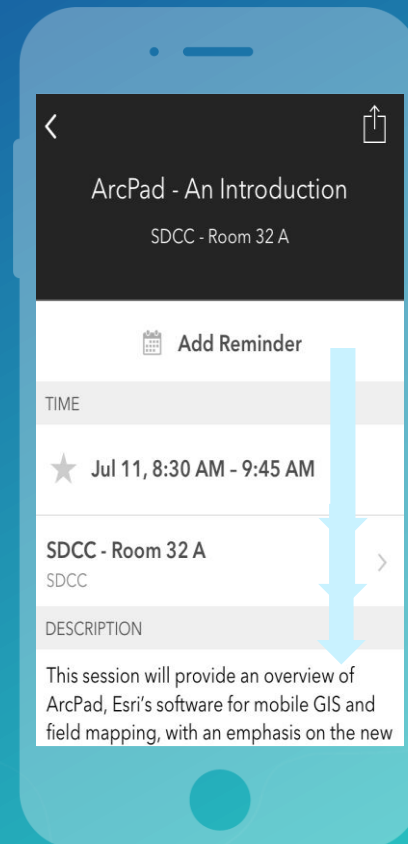
Download the Esri Events app and find your event



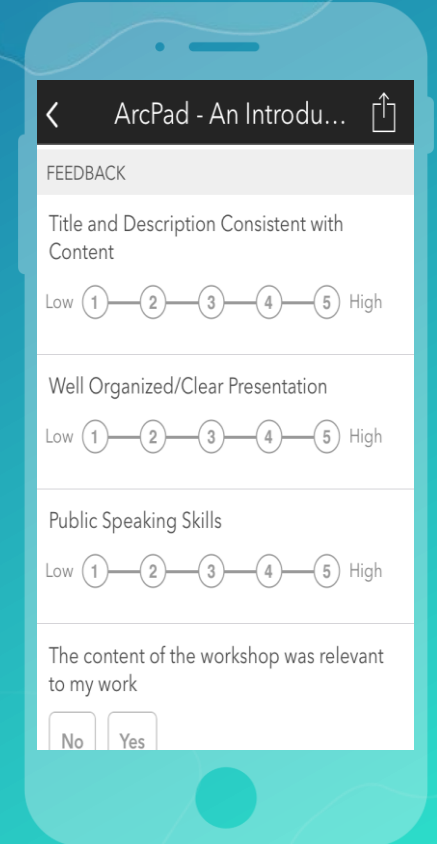
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"





esri

THE
SCIENCE
OF
WHERE