

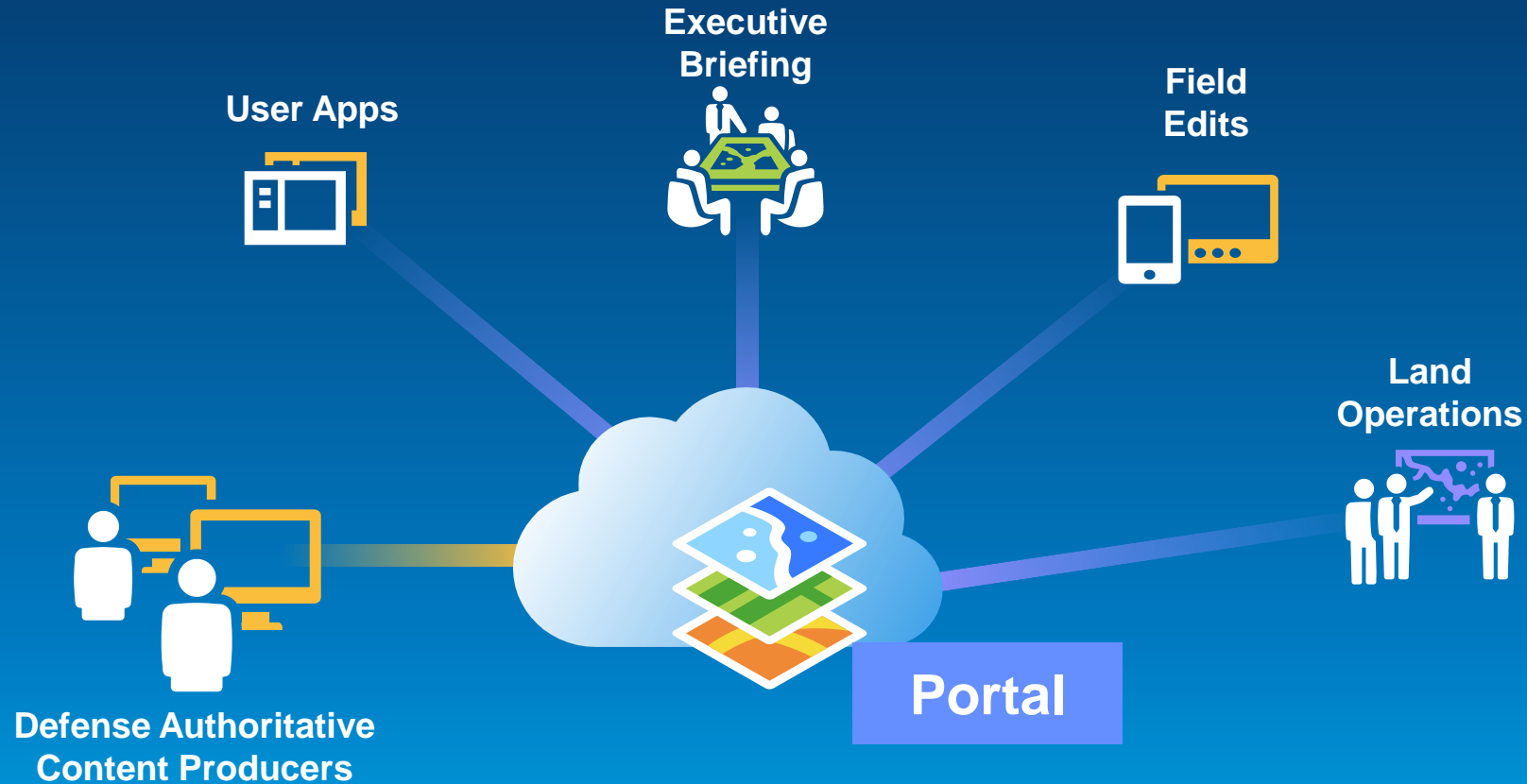


Esri Defense Mapping

Agenda

- **Overview Esri Defense Mapping (John Grammer)**
- **Cartography with Esri Defense Mapping**
- **Demo**
 - **Workflows**
 - **Production Manager**
 - **Product on Demand**

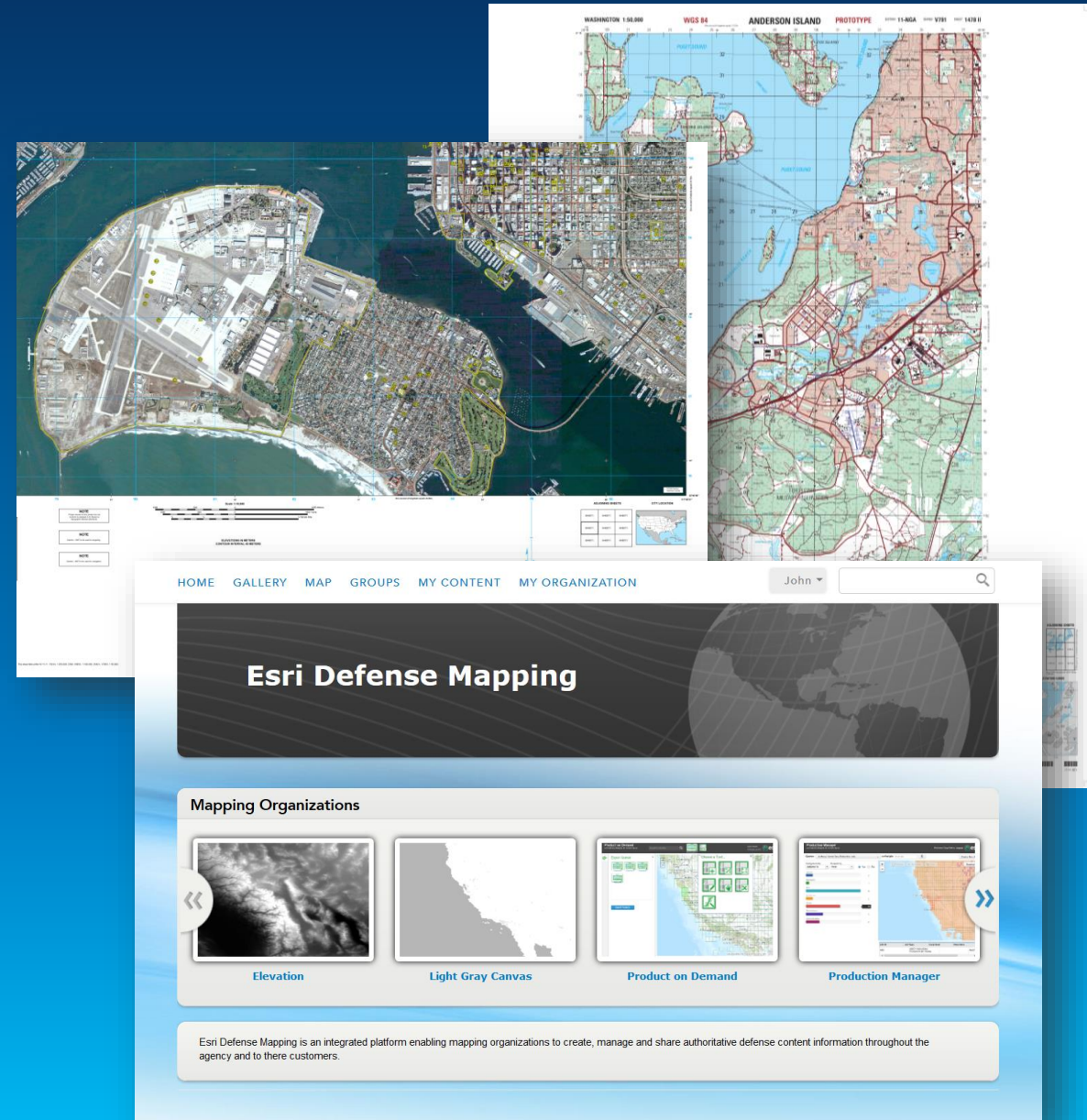
Providing Authoritative Defense Content



Efficiently Manage Defense Content

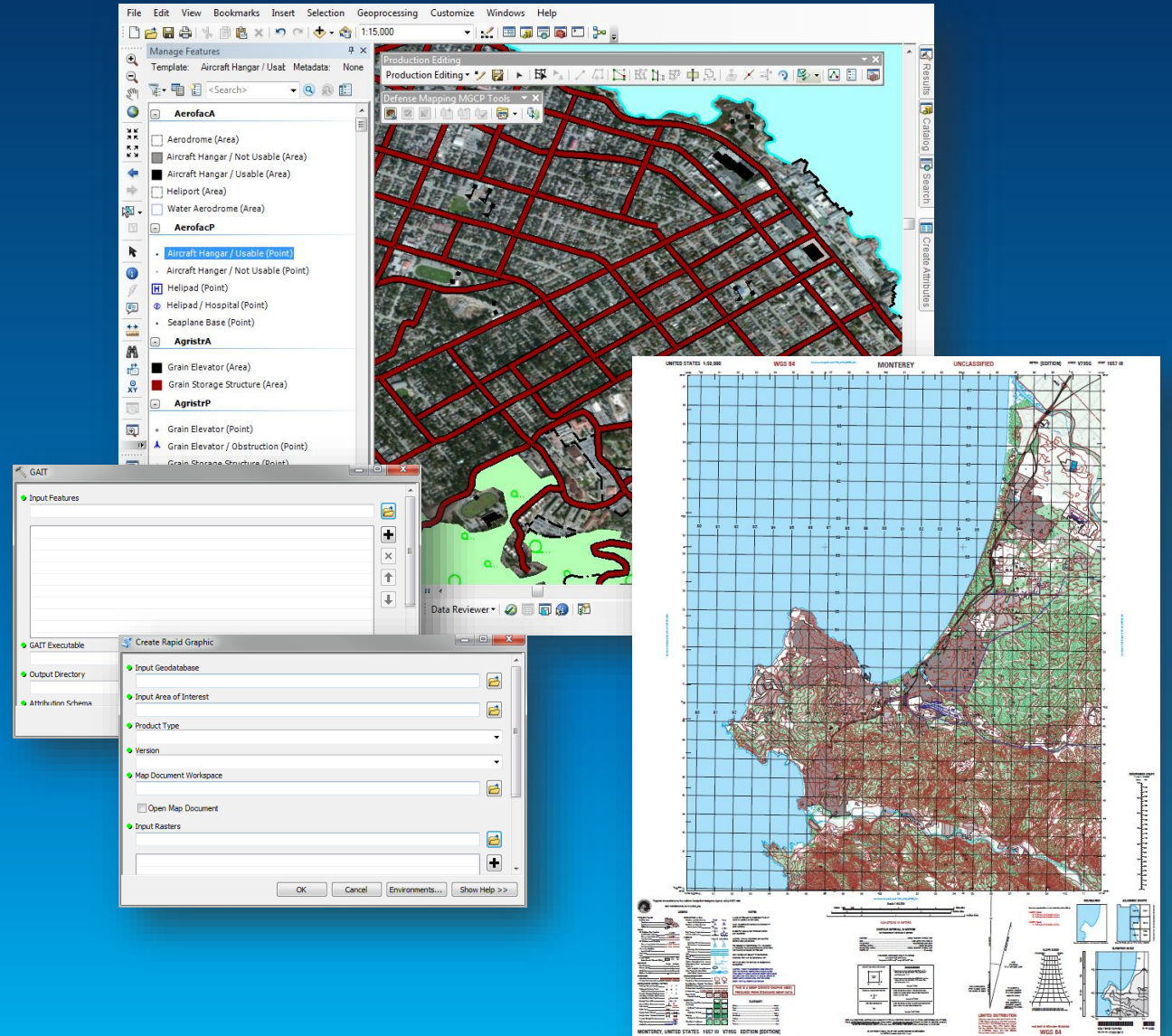
Production and Maintenance of high-quality topographic databases and cartographic products for Defense Industry

Defense Mapping as a platform, efficiently manages production workflows and foundation data used in defense topographic products and analysis



Create Authoritative Content

Solve challenges faced by defense mapping agencies and contractors using Defense Mapping's data management, editing tools, quality control processes, and cartographic functionality



Manage the Production Environment

Ensure standardization and consistency across operations using repeatable workflows throughout the enterprise.

Reduce errors and improve the efficiency of operations and productivity of your teams.

Manage a dispersed workforce, including contractors, to track and report production status.

The screenshot displays the Esri Production Manager interface, which is used for managing production workflows and workforce. The interface is divided into several panels:

- Jobs Panel:** A tree view on the left showing a hierarchy of job types, including Public Queries, General Queries, Job Type Queries, and Personal Queries.
- Job Query Results - List View:** A table showing job details. The data is as follows:

Job ID	Job Name	Job Type	Assigned To	Parent
16416	MCSDEFTTEST4_JOB_16416	MGCP Vector Data Production (In-House)	ryan3684	0
16816	MCSDEFTTEST4_JOB_16816	MGCP Vector Data Production (In-House)	greg5793	0
- Job Workflow:** A flowchart showing the process from a Geodatabase to Set Production Properties, then a decision point for Stereo or Mono Edits, leading to Edit Data (Stereo) and then Operating Locally? with associated roles like Extraction Analyst.
- Production Manager Dashboard:** A central panel with a search bar and a bar chart showing workforce distribution. The chart data is as follows:

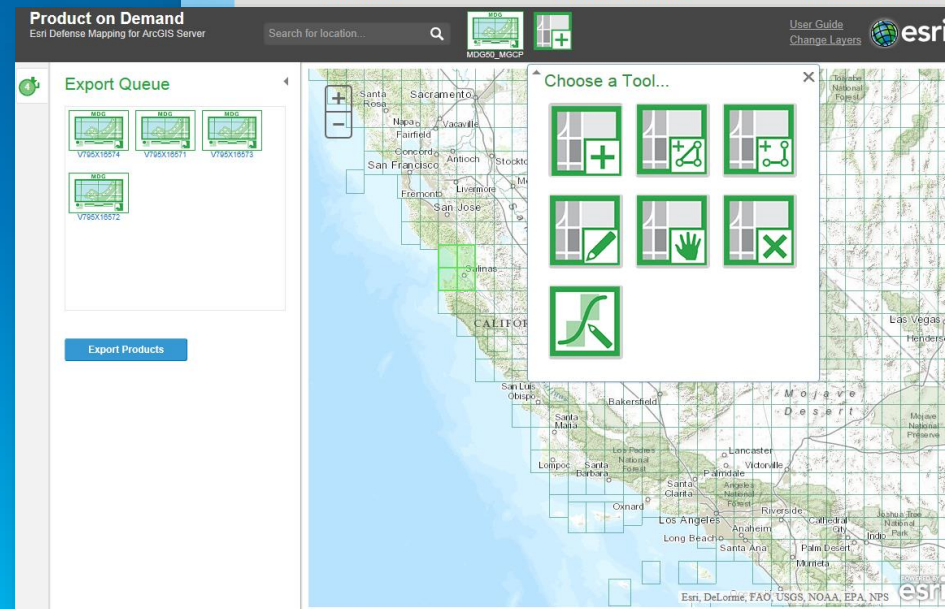
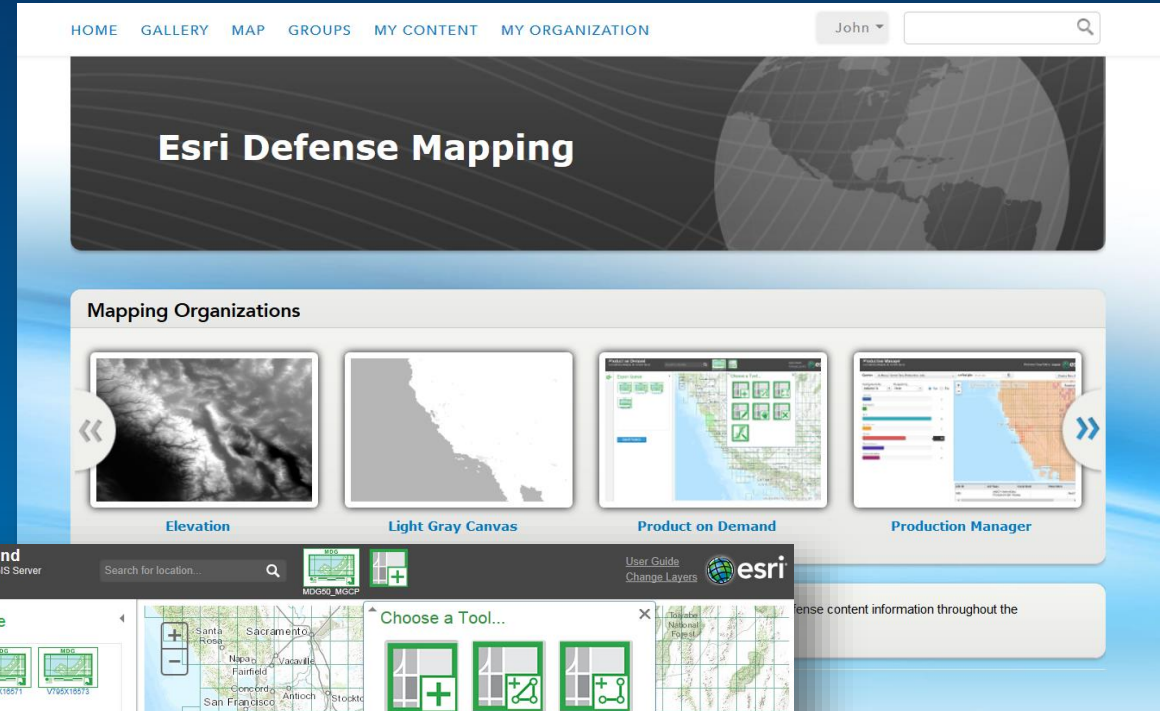
Role	Count
cjones	2
Managers	1
N/A	16
Jrobinson	2
demo	10
Technicians	5
Administrator	4
- Map Panel:** A map showing a geographic area with a grid overlay, likely representing production sites or data points.
- Job Summary Table:** A table at the bottom right showing job details for Job ID 1801:

Job ID	Job Type	Scale Band	Data Store
1801	MGCP Vector Data Production (In-House)		MGCP

Share and Collaborate with Users

Publish authoritative content using Defense Mapping's preconfigured applications and services

Users can mash up services with their own data to produce custom maps, perform analysis and share the results throughout the organization in a secure and collaborative environment.



Data Production

Schema creation and management

Create data repositories with automated tools and defense data model templates.

Legacy data loading and migration

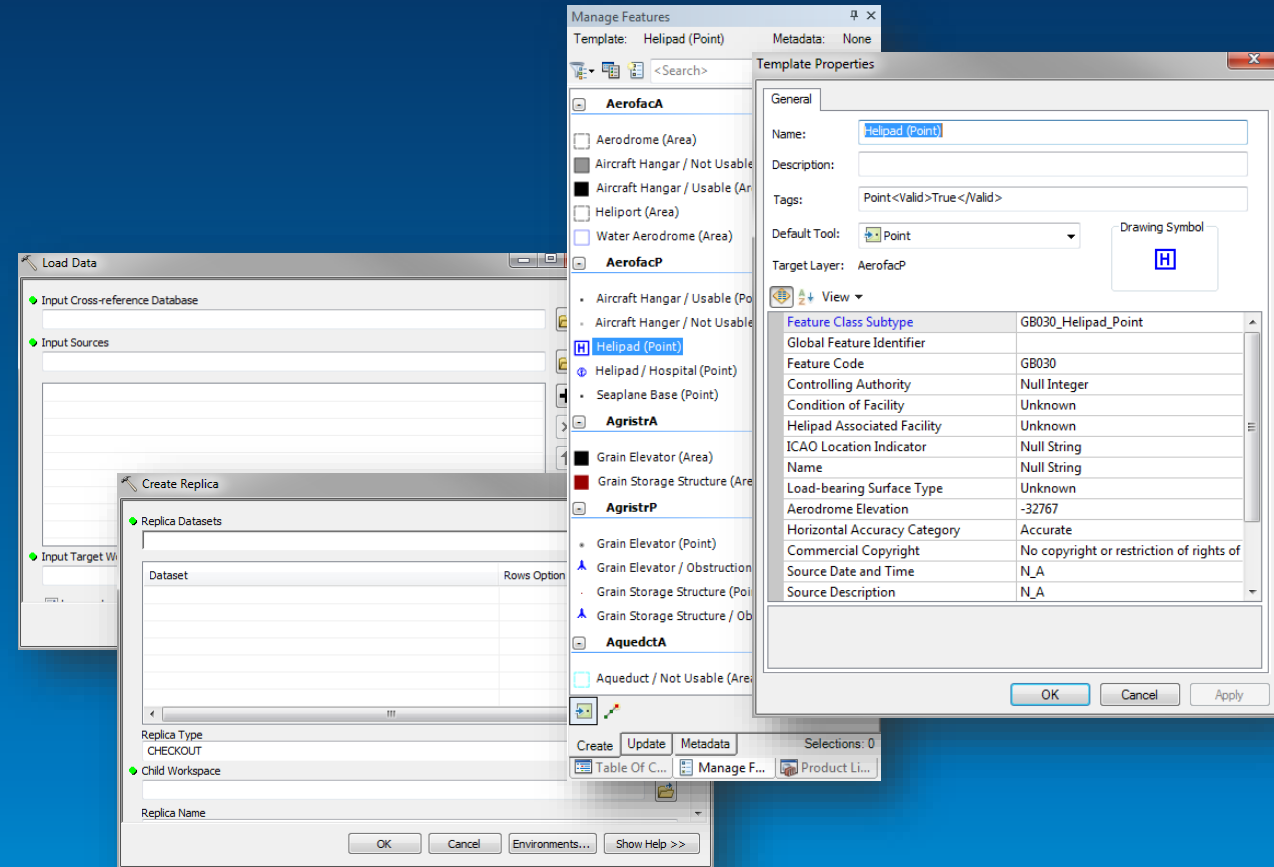
Use automated tools and templates for common data migrations.

Feature extraction

Leverage specification-driven geometry and attribution tools to implement in-process quality assurance.

Cartographic finishing and product generation

Produce defense-specific map and data products quickly through a suite of database-driven production and cartographic finishing tools.



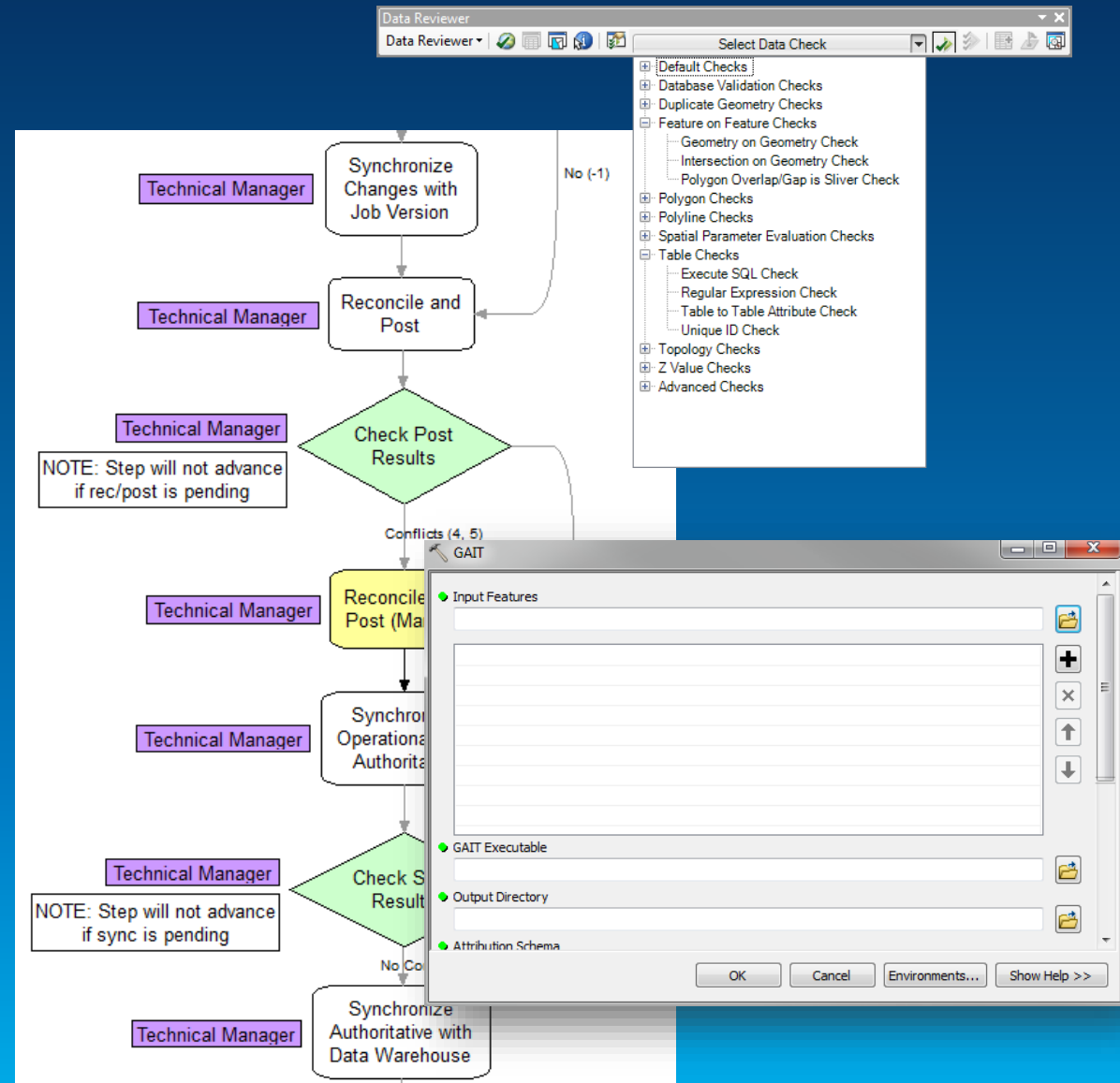
Data Management

Streamlined data replication

Automatically synchronize changes between sites, teams, or external data partners and cooperators using replication tools.

Data quality and compliance testing

Assess the quality and fitness of data products using both commercial off-the-shelf and integrated government off-the-shelf quality control tools.



Workflow Management

Workflow and resource management

Automate workflows, conduct resource leveling, and track work execution to improve efficiencies and ensure repeatability of data management activities.

Integration of tasks

Capture, distribute, and automate best practices and procedures among data production staff to enhance efficiency and quality across the organization.

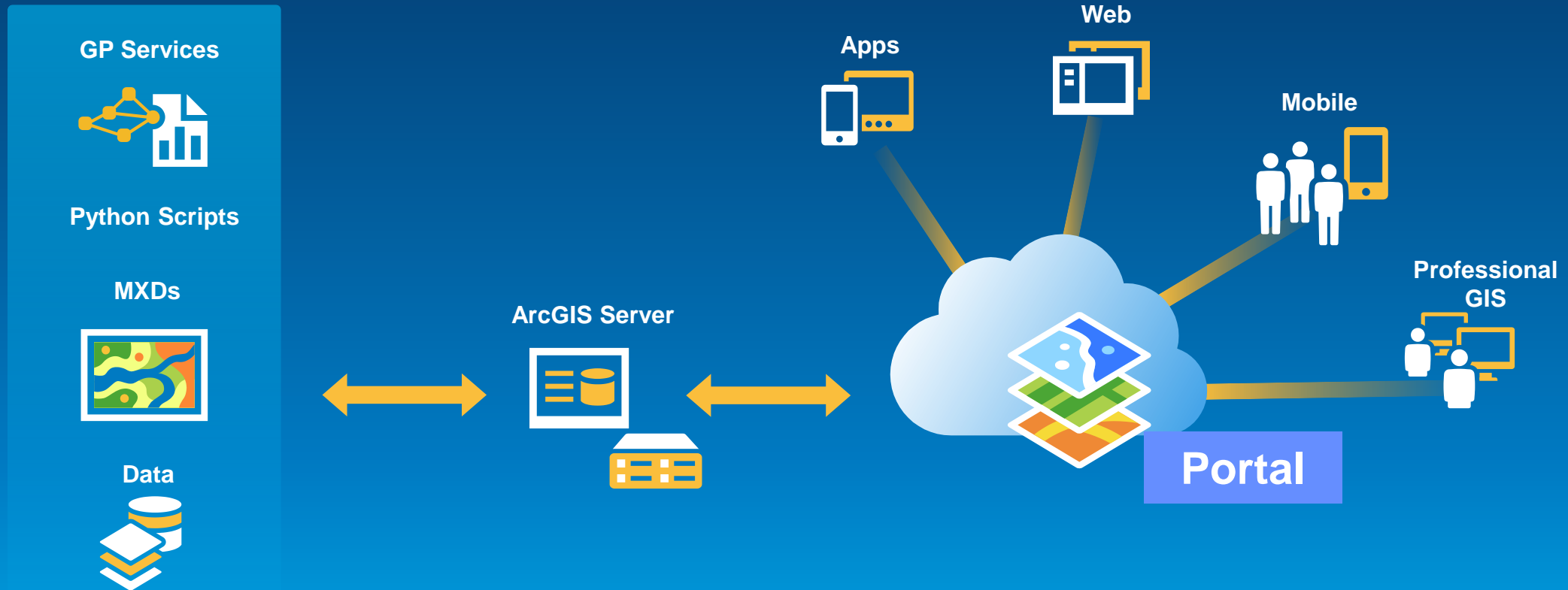
The screenshot displays a workflow management application interface. On the left, a 'Job Details' panel for job ID 8815 shows it is 'Working' and 60% complete. The 'General' tab is active, displaying assignment to Greg Waite. Below this is a 'Jobs' tree view listing various job types like 'Cartographic Production' and 'Vector Data Production'. In the center, a 'Job Query Results - List View' table lists jobs with columns for Job ID, Job Name, Job Type, Parent Job, and Due Date. On the right, a 'Job Workflow' diagram shows a sequence of tasks: 'Copy Data to Local Drive', 'Resource MXD to Local Geodatabase', 'Set Production Properties', 'Carto Editing', 'Operating Locally?' (a decision diamond), 'Resource MXD to Job Geodatabase', and 'Copy Data to Job Artifacts'. Each task is associated with a 'Cartographic Analyst' role.

Job ID	Job Name	Job Type	Parent Job	Due
1	DEFMAPDBDEV2_JOB_1	MGCP Create Authoritative Database	0	
401	DEFMAPDBDEV2_JOB_401	MGCP Create Data Warehouse	0	
402	DEFMAPDBDEV2_JOB_402	MGCP Create Operational Replica	0	
8815	MCSDEFTTEST4_JOB_8815	MGCP Cartographic Production (In-House)	0	5/4
9215	MCSDEFTTEST4_JOB_9215	MGCP Cartographic Production (Outsourced)	0	5/8
16816	MCSDEFTTEST4_JOB_16816	MGCP Vector Data Production (In-House)	0	7/10



Esri Defense Mapping for ArcGIS Server

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Esri Defense Mapping for ArcGIS Server

Extending Defense Mapping onto Server

Incorporating Defense Cartographic workflow

MGCP Derived Graphic (MDG)

Joint Operations Graphic (JOG)

Extendable to custom products

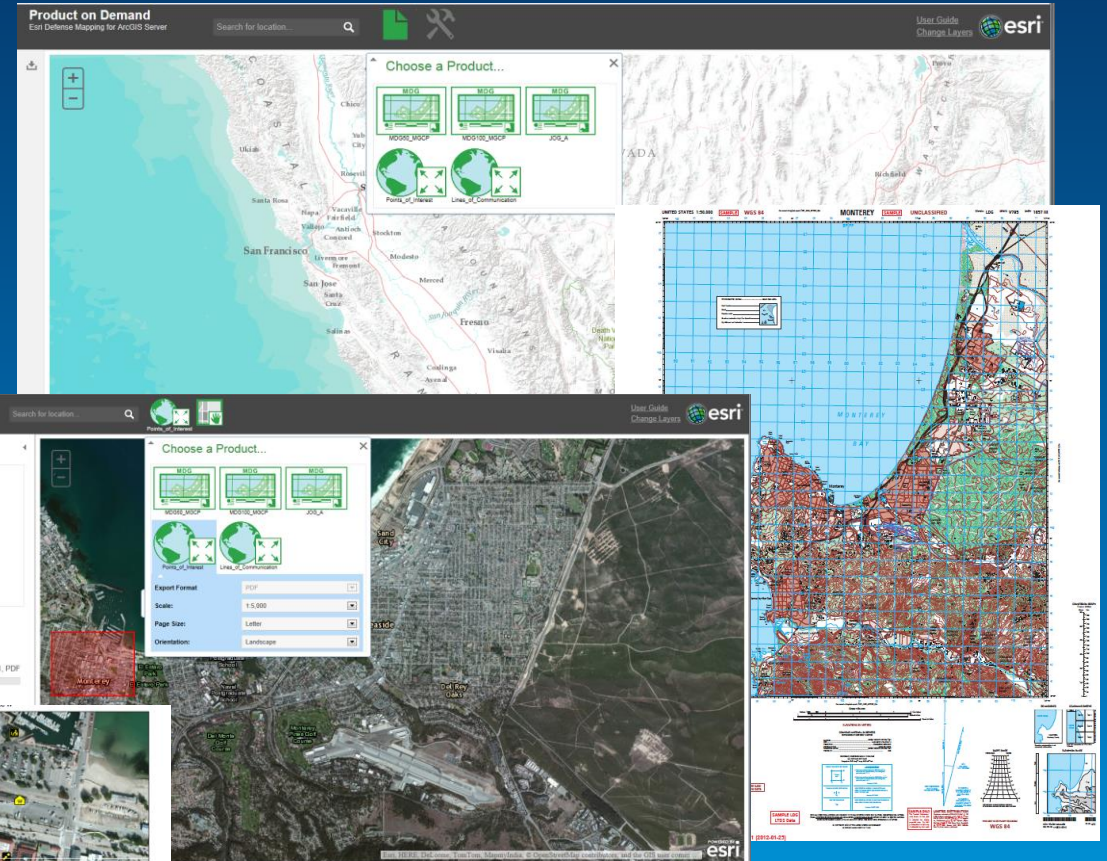
Points of Interest

Lines of Communication

Applications

Product on Demand

Production Manager



Esri Defense Mapping for ArcGIS Server : Applications

Product on Demand

High-end map generation and export solution

Java Script

Configurable

GP Services

Python

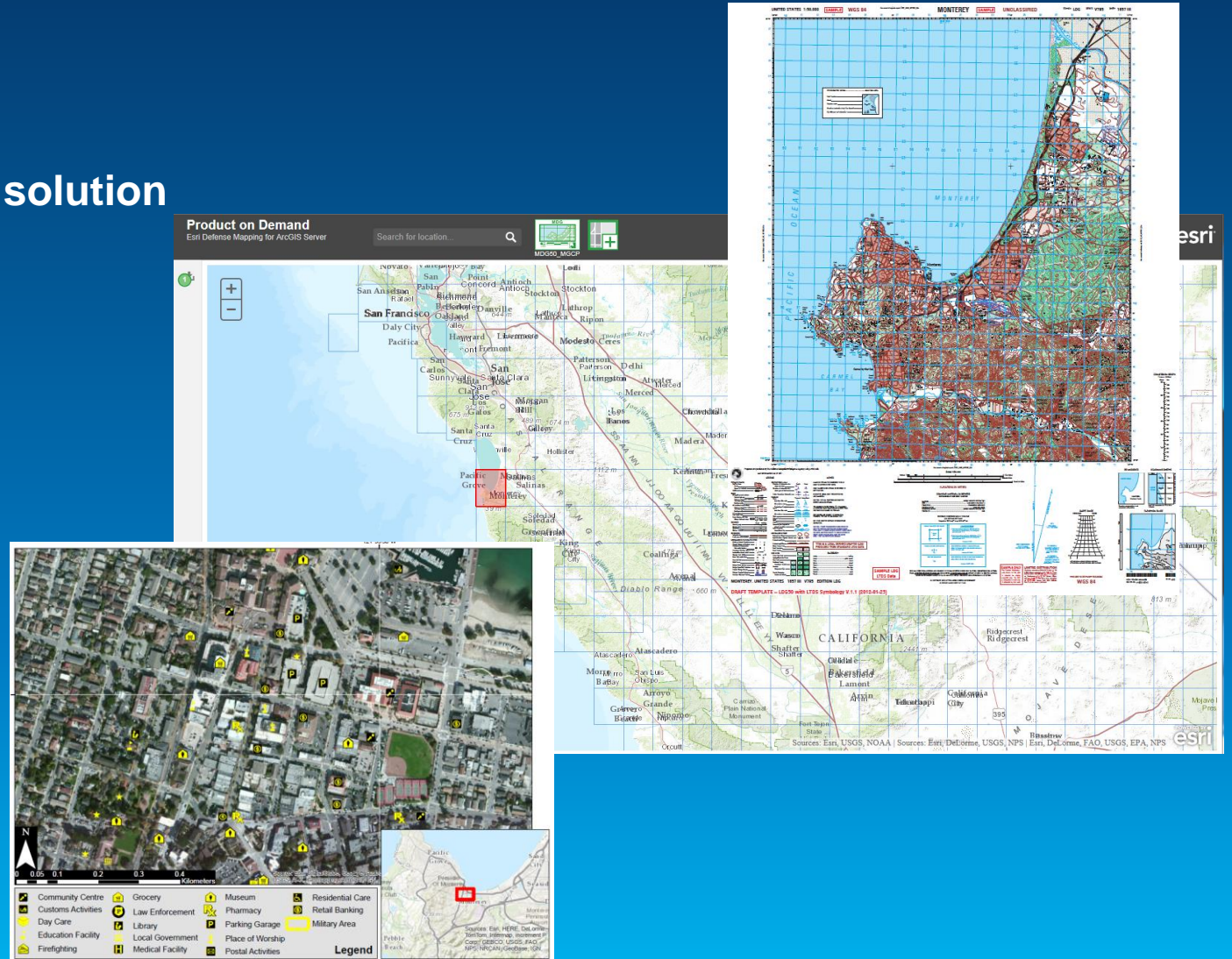
Configuration

MXDs / surround elements

Grids and Graticules

Layout rules

Map exporters



Esri Defense Mapping for ArcGIS server : Applications

Production Manager

Extend data production workflow information

Decrease production cycle time and increase visibility

Improve decision making regarding resources and schedule

The image displays several screenshots from the Esri Production Manager application. The top right screenshot shows a 'Data Currency' map with a grid overlay. The middle left screenshot shows a 'Production Manager' map of California with a 'Define Job Type' dialog box. The bottom right screenshot shows a 'Job Properties' window with a table of job details. The bottom left screenshot shows a flowchart diagram of the production workflow.

Job Type	Assigned To
LOCAL Vector Data Production (In-House)	user7
LOCAL Vector Data Production (In-House)	user7
LOCAL Vector Data Production (In-House)	user7
LOCAL Vector Data Production (In-House)	user7
LOCAL Vector Data Production (In-House)	user7
LOCAL Vector Data Production (In-House)	user7

```
graph TD
    Start[Data Request] --> JobSetup[Job Setup]
    JobSetup --> JobStatus{Job Status}
    JobStatus --> JobComplete[Job Complete]
    JobStatus --> JobFailed[Job Failed]
    JobFailed --> JobSetup
    JobComplete --> DataOutput[Data Output]
```



Understanding our world.