

Federal GIS Conference

February 9–10, 2015 | Washington, DC

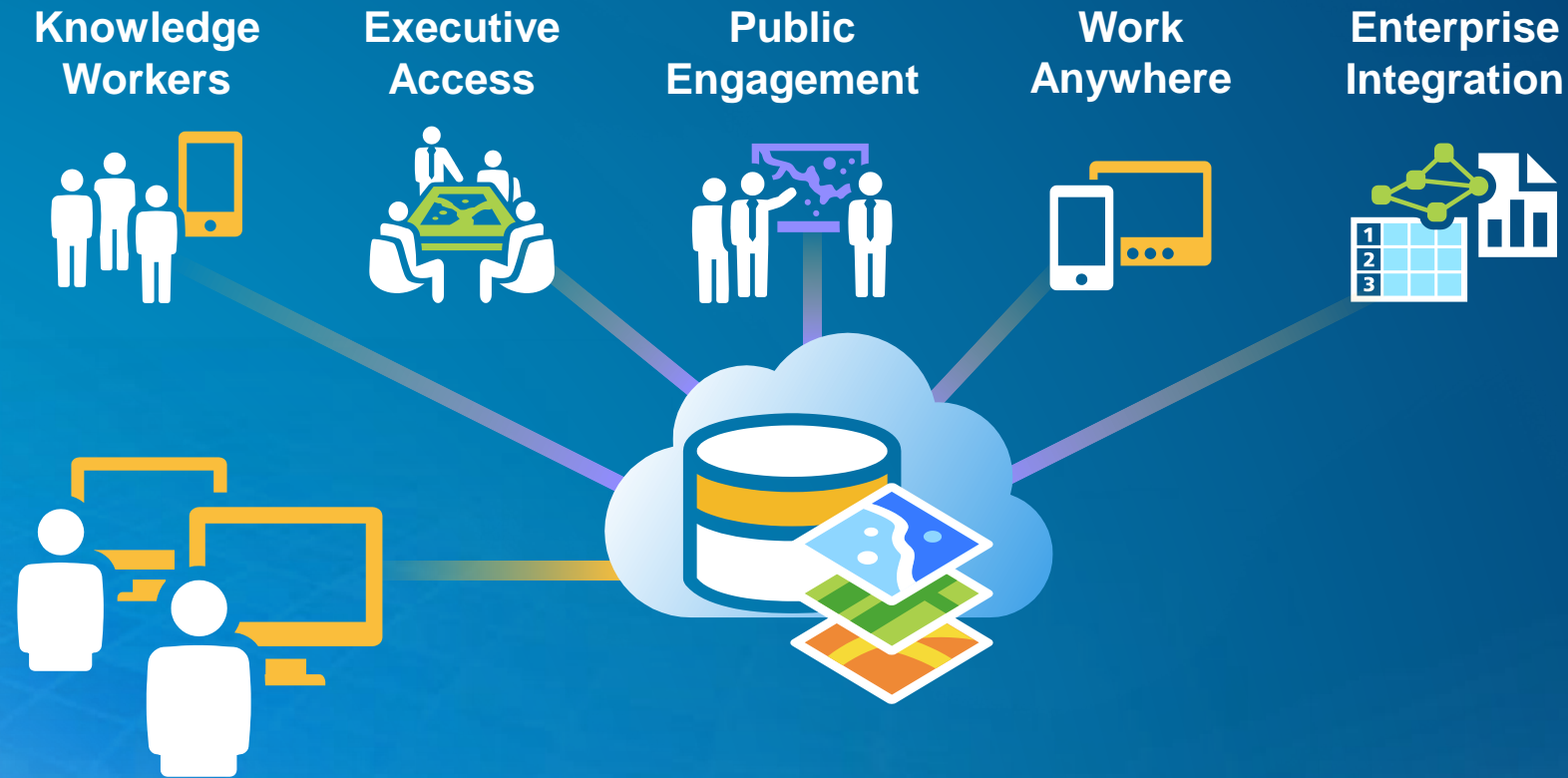


Standardized Data Production Strategies Across Your Enterprise

Amber Bethell

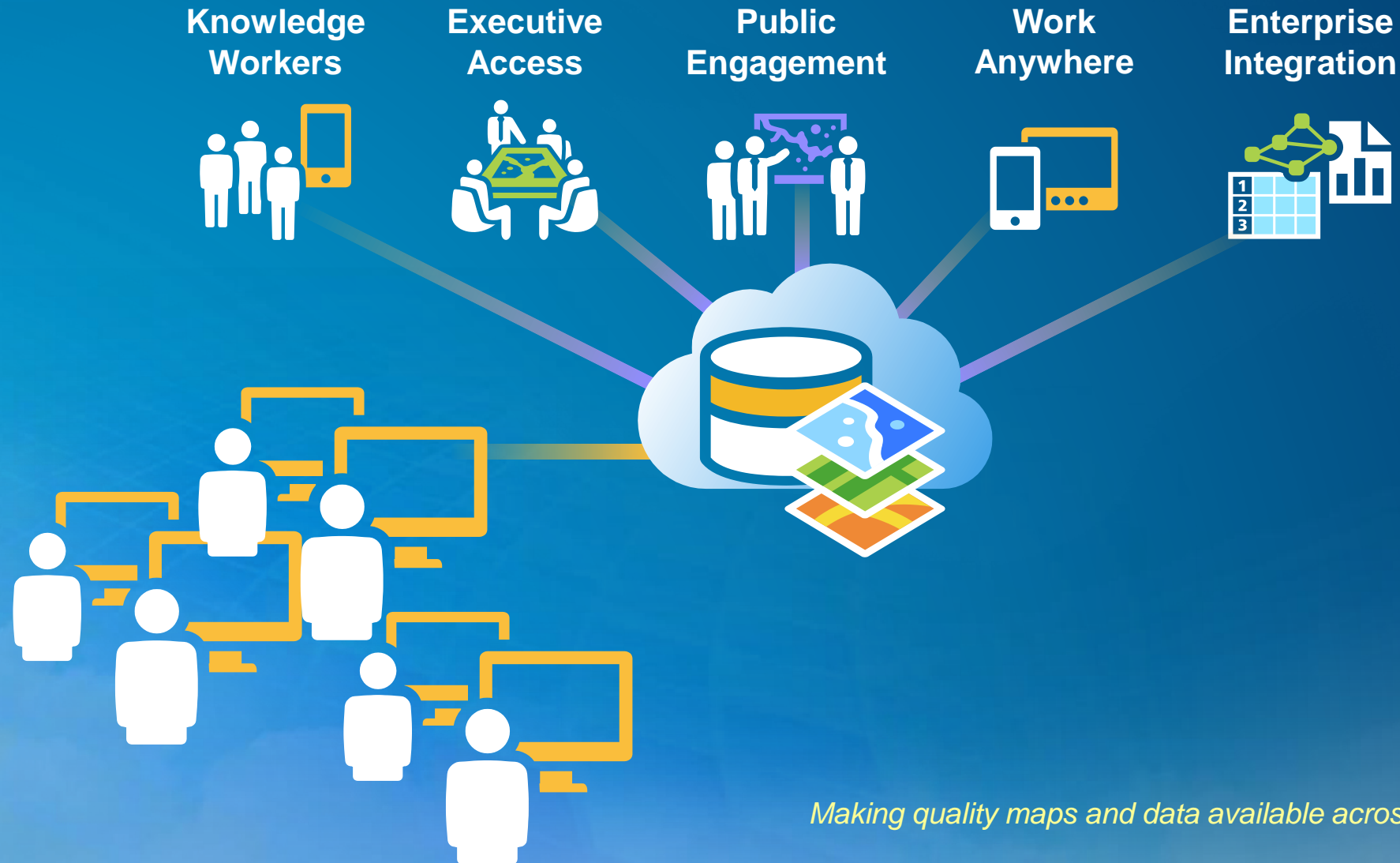
Sherry Fagin

Authoritative content producers



Making quality maps and data available across your organization

Authoritative content producers



Making quality maps and data available across your organization

Production Challenges

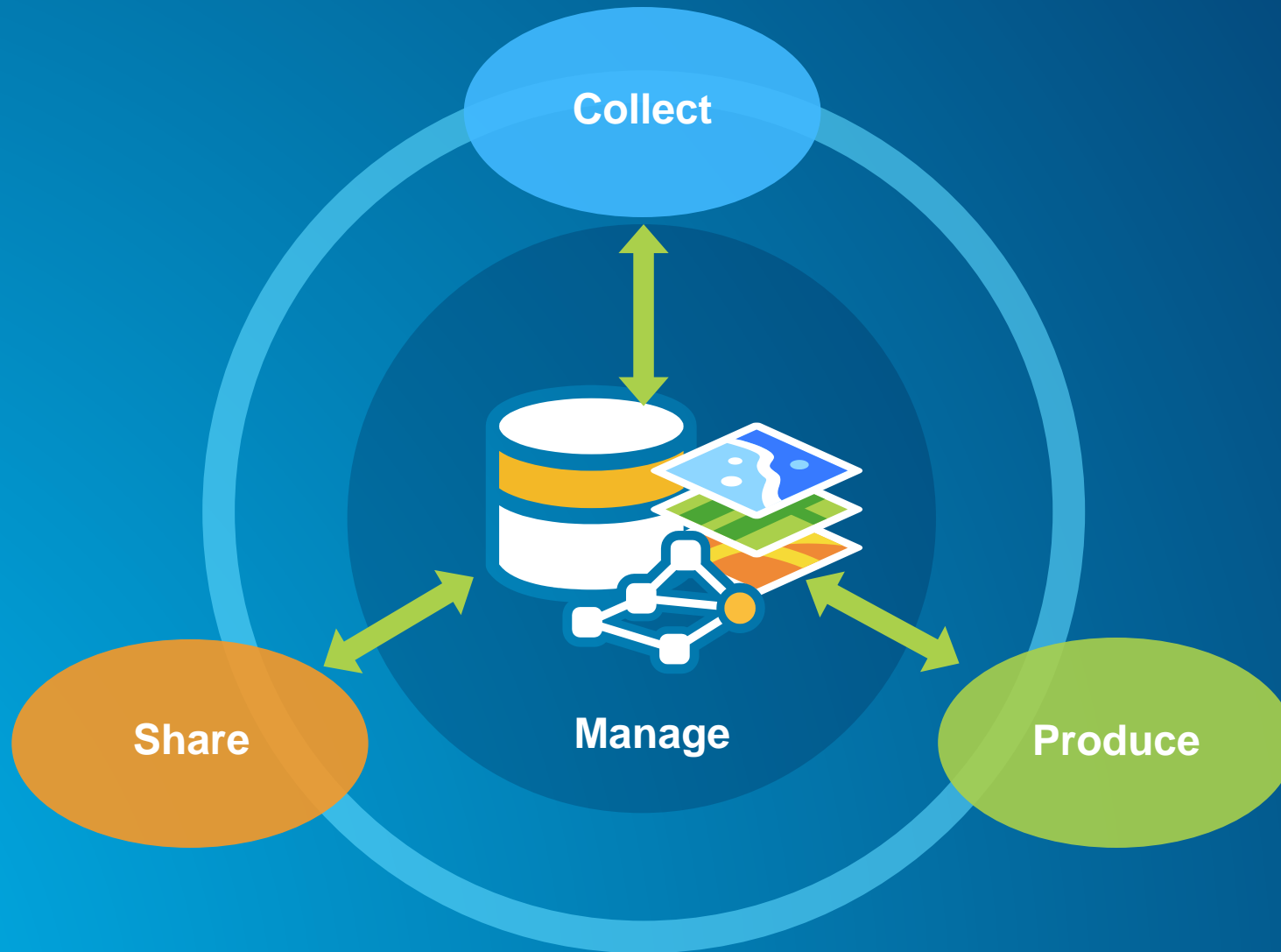


Traditional strategies

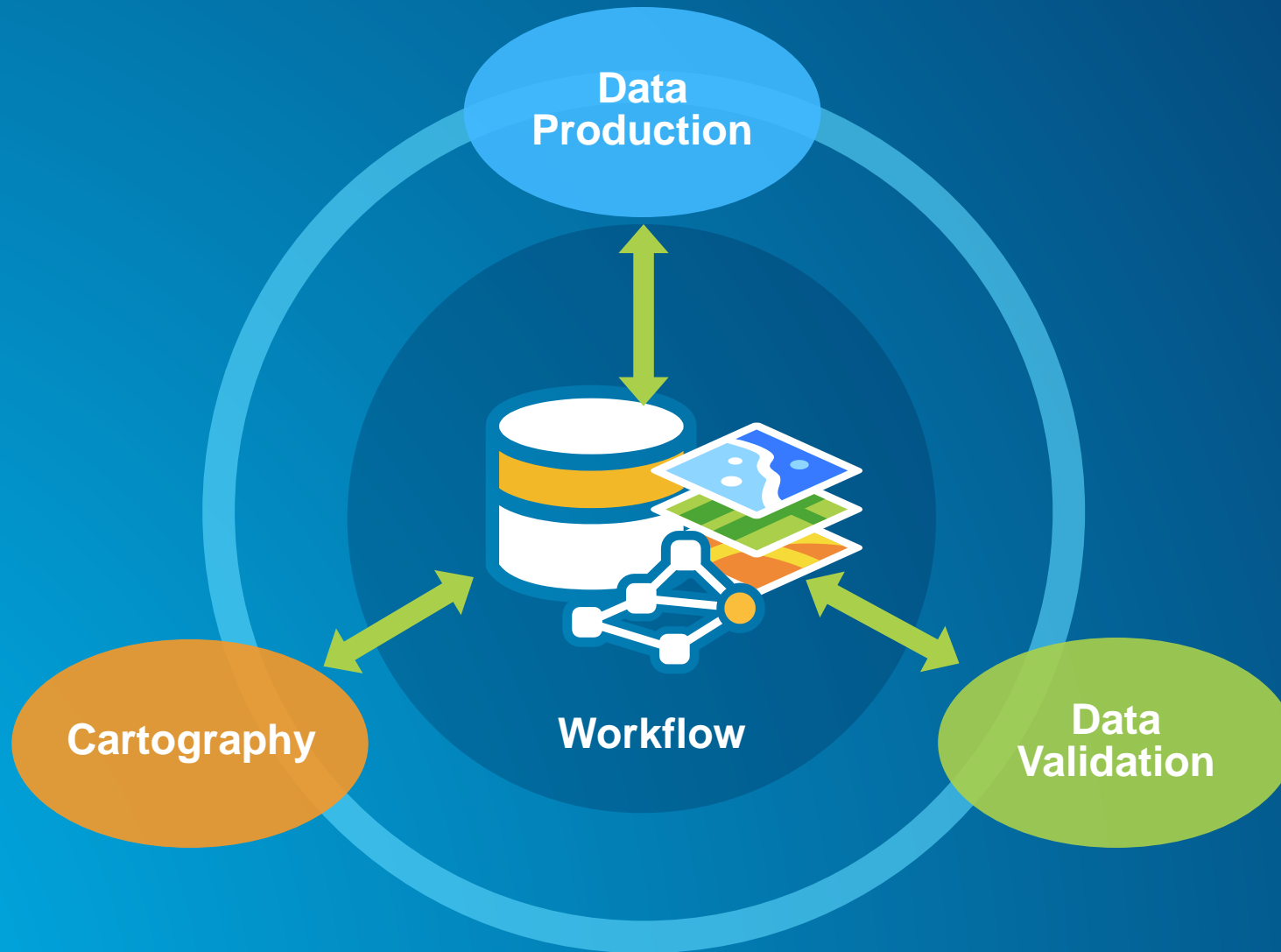


Collaboration is difficult in a disconnected workplace

Effective enterprise strategies



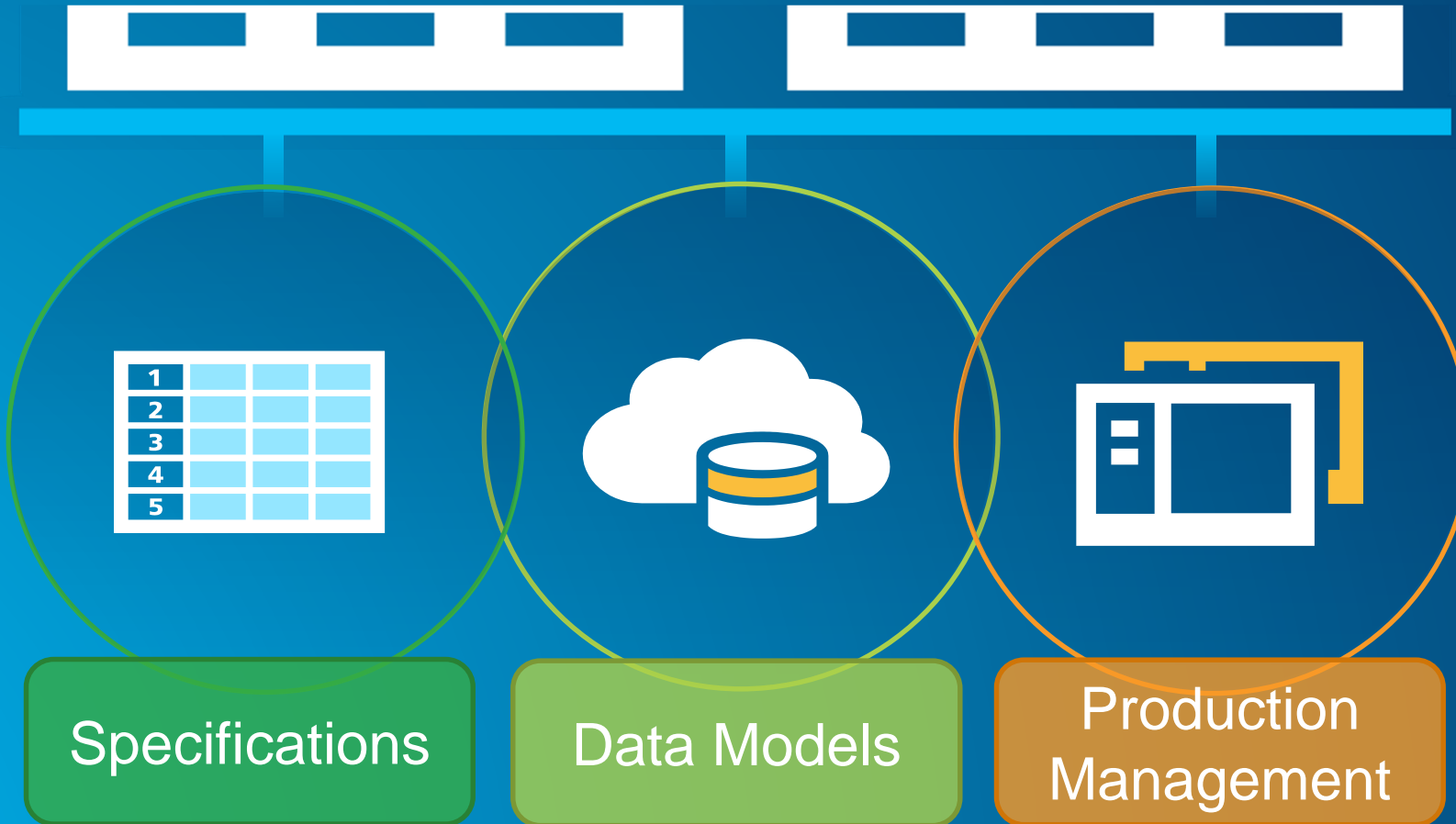
Esri Production Mapping solution



Manage

Manage

Providing solid foundation for your enterprise



Manage your databases



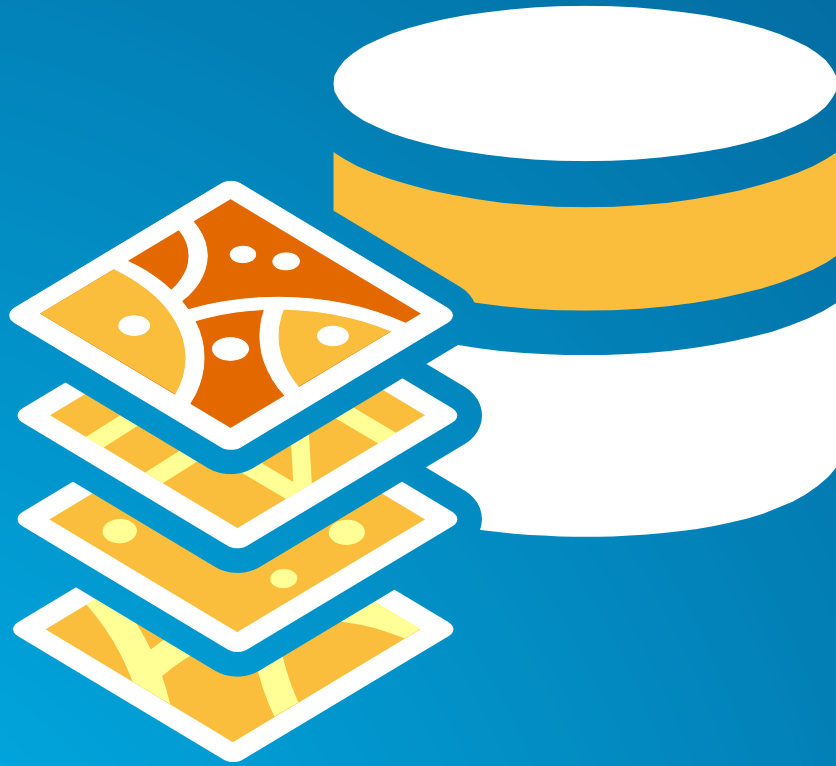
Parcels

Use	Define land ownership
Source	Compiled from local governments
Attributes	Parcel Id, Land use...
Topological rules	Parcels cannot overlap...
Scales	1:1000 – 1:2500
...	

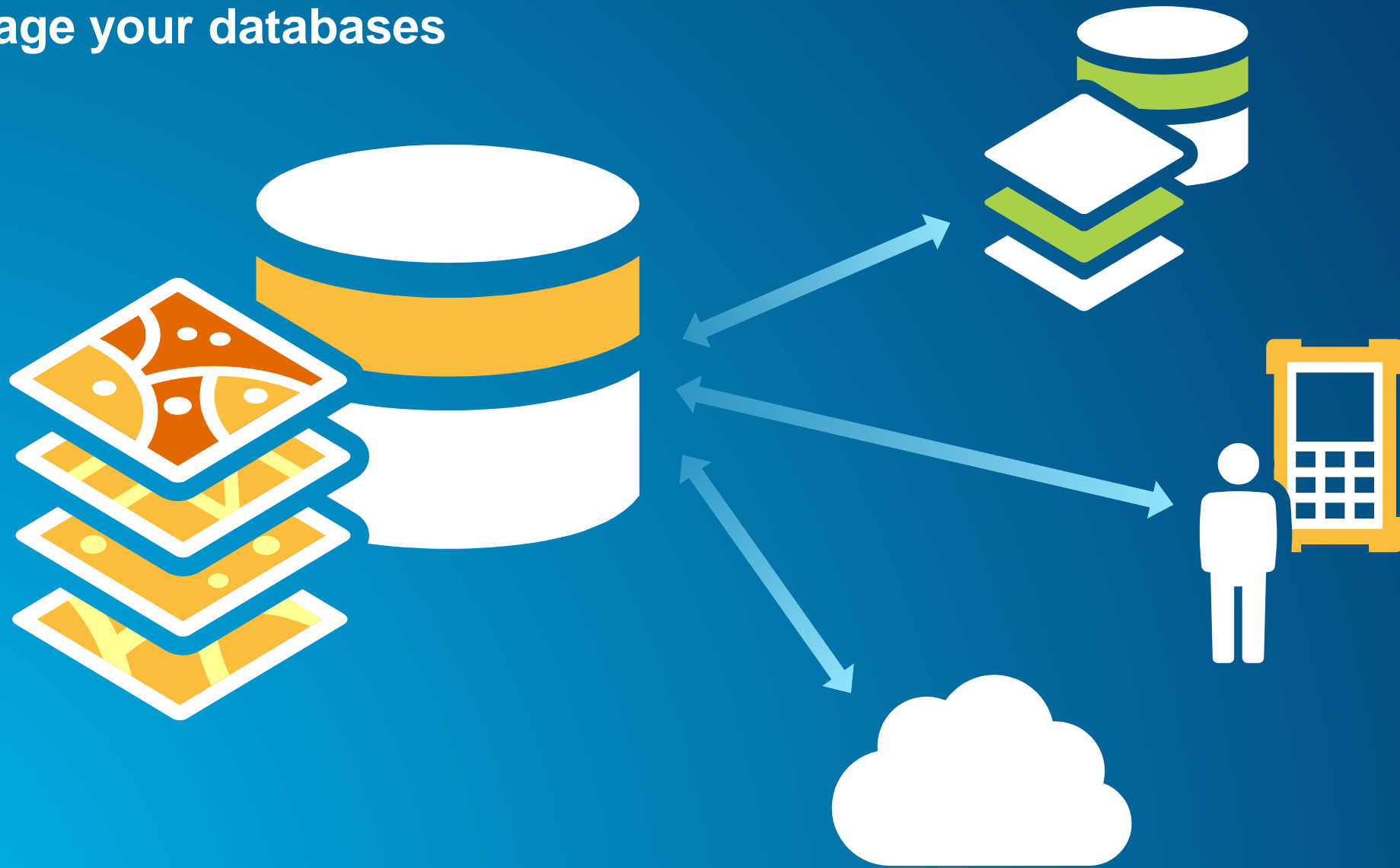
Manage your databases



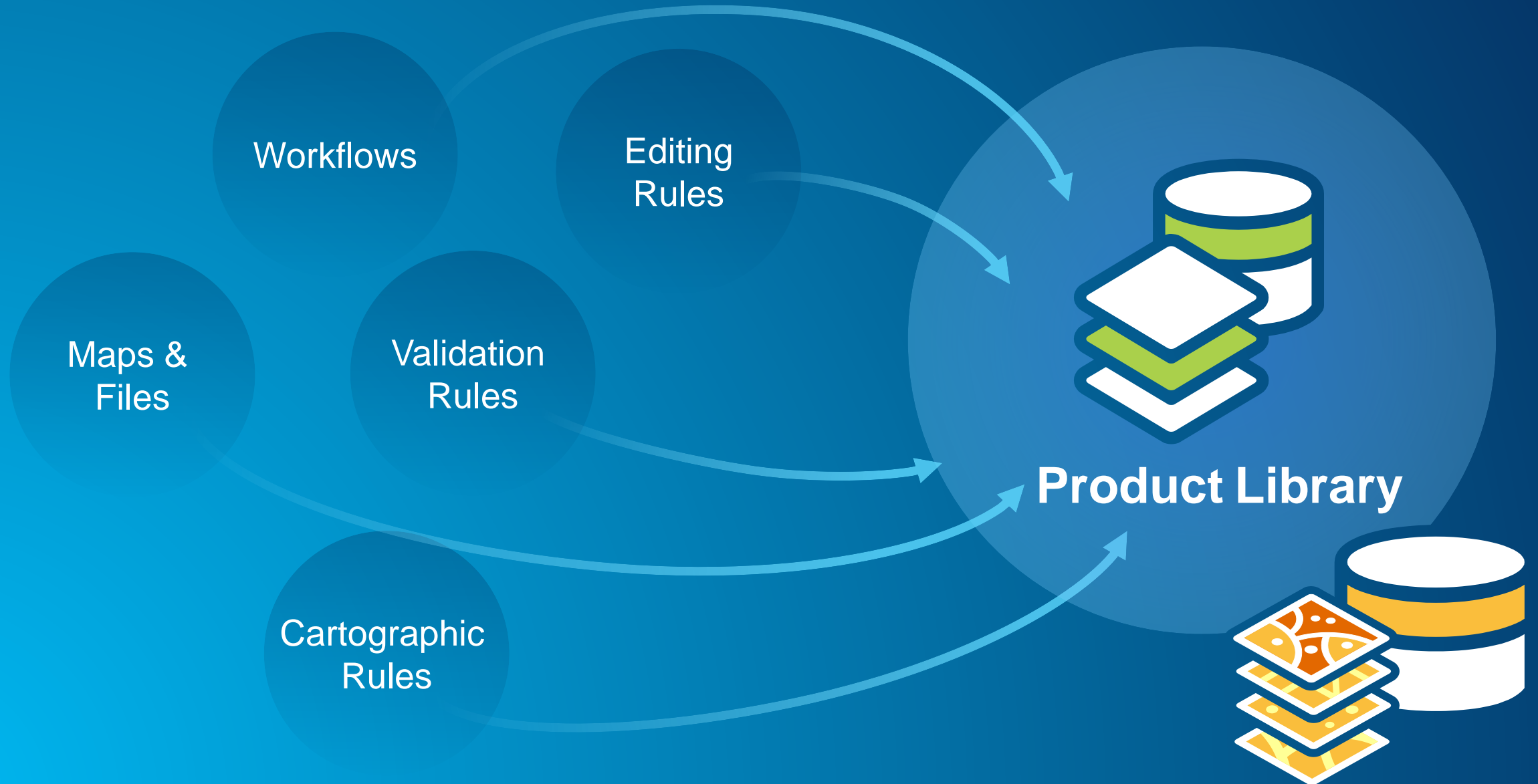
Manage your databases



Manage your databases



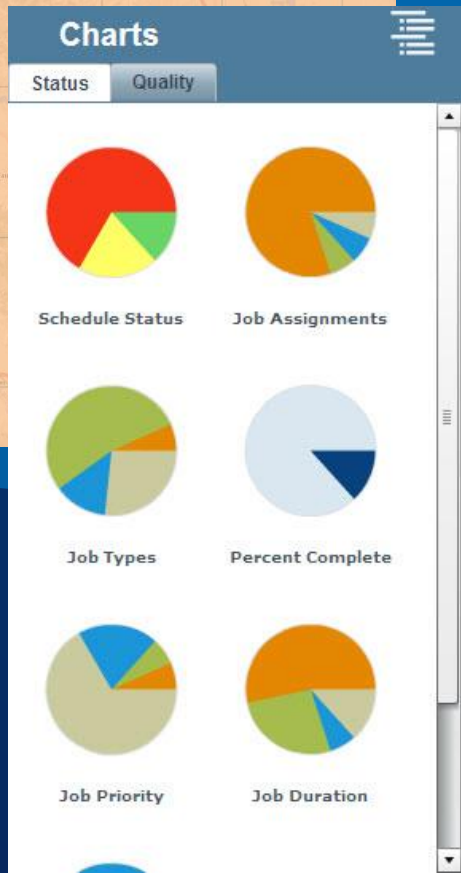
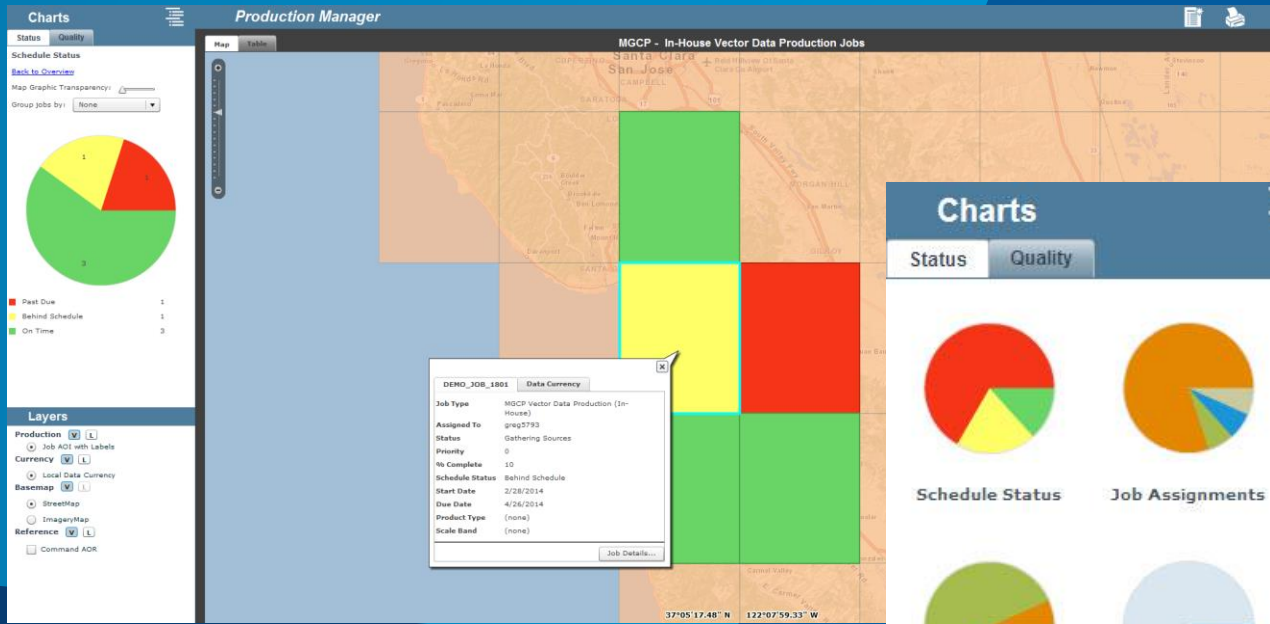
Manage your standards



Manage ongoing work

Using repeatable workflows





Manage ongoing work with **Production Manager**
Amber Bethell

Filters

- Data Ingest Jobs
- In-House Cartographic Production Job
- In-House Vector Data Production Jobs
- Outsourced Cartographic Production J
- Outsourced Vector Data Production Jo

▼ Maritime

- All Maritime Jobs
- Apply Notices to Mariners
- Crisis Vector Data Production
- Update Bathymetry
- Update Chart Product
- Vector Data Production

▼ Topographic

- All Topographic Jobs
- Cartographic Finishing
- Data Production
- Field Collection
- Image Processing

Layers

Production

- JTX_JOBS_AOI

Currency

- Topographic 25K

Basemap

- StreetMap
- ImageryMap

Reference

- JTX_JOBS_AOI

Production Manager

Map Table

Topographic - All Topographic Jobs

UTAH

UTAH

Great Salt Lake

Great Salt Lake

Great Salt Lake

Great Salt Lake

Salt Lake City

Tooele

Sandy City

Orem

Provo

Utah Lake

Logan

Ogden

Evanston

Bear Lake

84

30

15

36

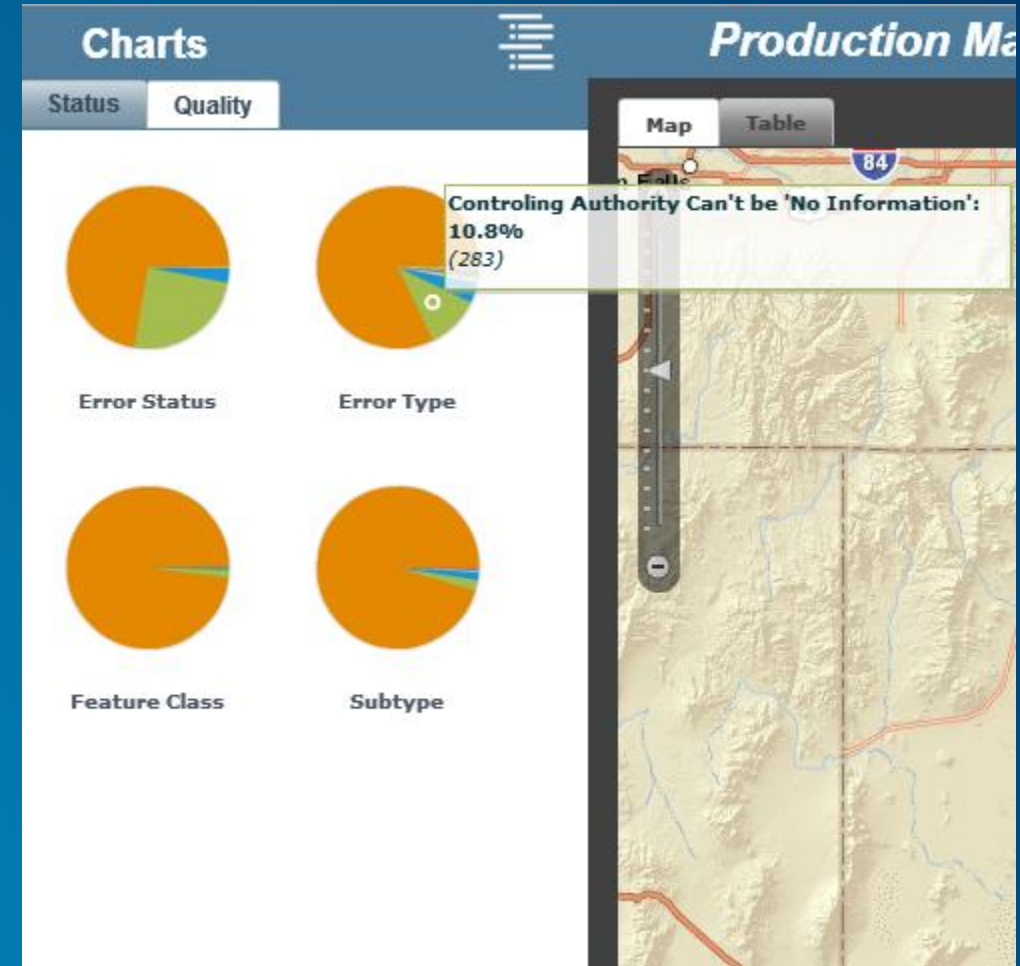
89

80

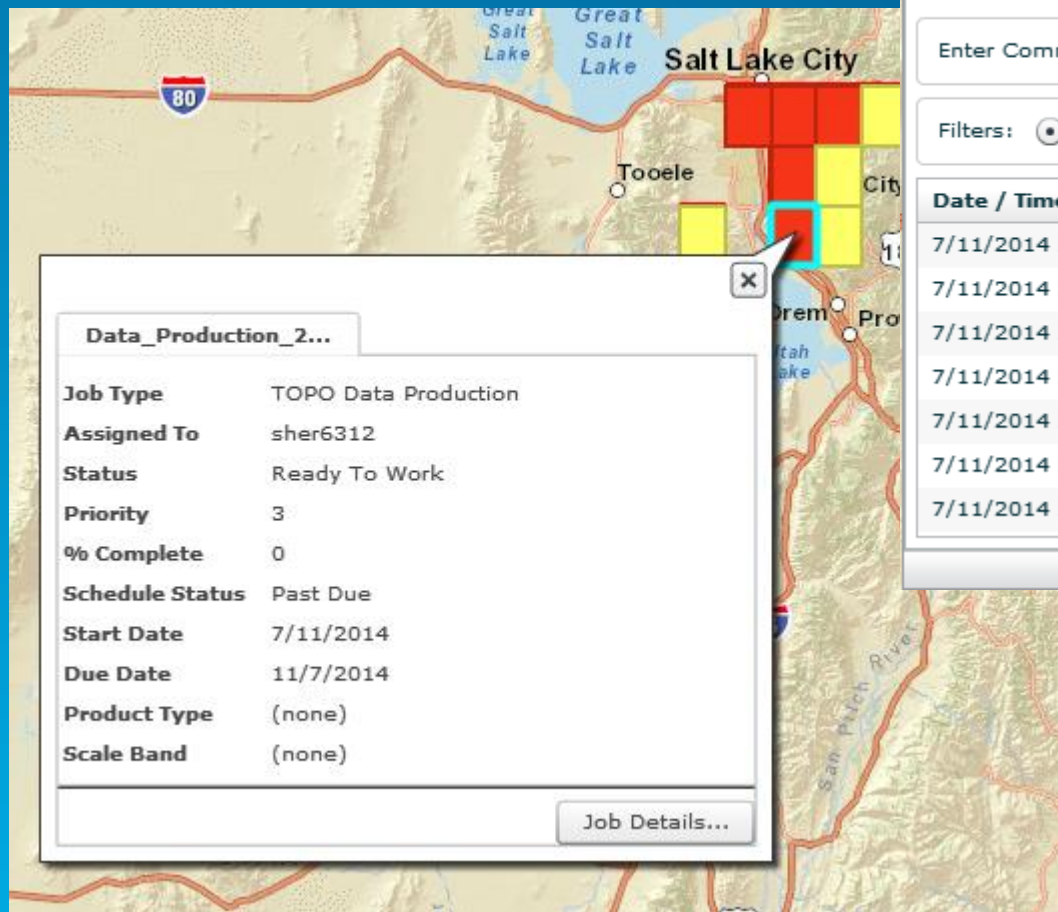
21

189

Run queries to determine where work is happening in your organization.



Charts report information about project and quality status.



Job Details: Data_Production_2402

Job Properties | Notes | Attachments | Activity Log | Holds | Production Status

Enter Comment:

Filters: All Comments

Date / Time	User	Type	Message
7/11/2014 21:13	ambe3073	CreateJob	Job created by Amber Bethell.
7/11/2014 21:13	ambe3073	AssignJob	Job assigned to ambe3073 by Amb
7/11/2014 21:13	ambe3073	UpdateJob	Job updated by Amber Bethell
7/11/2014 21:16			
7/11/2014 21:16			
7/11/2014 21:16			
7/11/2014 21:16			

Job Details: Data_Production_2402

Job Properties | Notes | Attachments | Activity Log | Holds | Production Status

Type	Comment	Active
Missing Data	Waiting for new imagery	Yes

Filters: All Active Inactive

Information about jobs can be reported so you know the history of a job and why it is not actively being worked.

Create New Job

Define Job Type

Job Type: **TOPO Data Production**

Assignment

Start Date: 02/12/2015 Due Date: 03/14/2015


Priority: **10 (High)**


Assigned To: **Technical Managers**

Define Product

Product:

Define Area of Interest





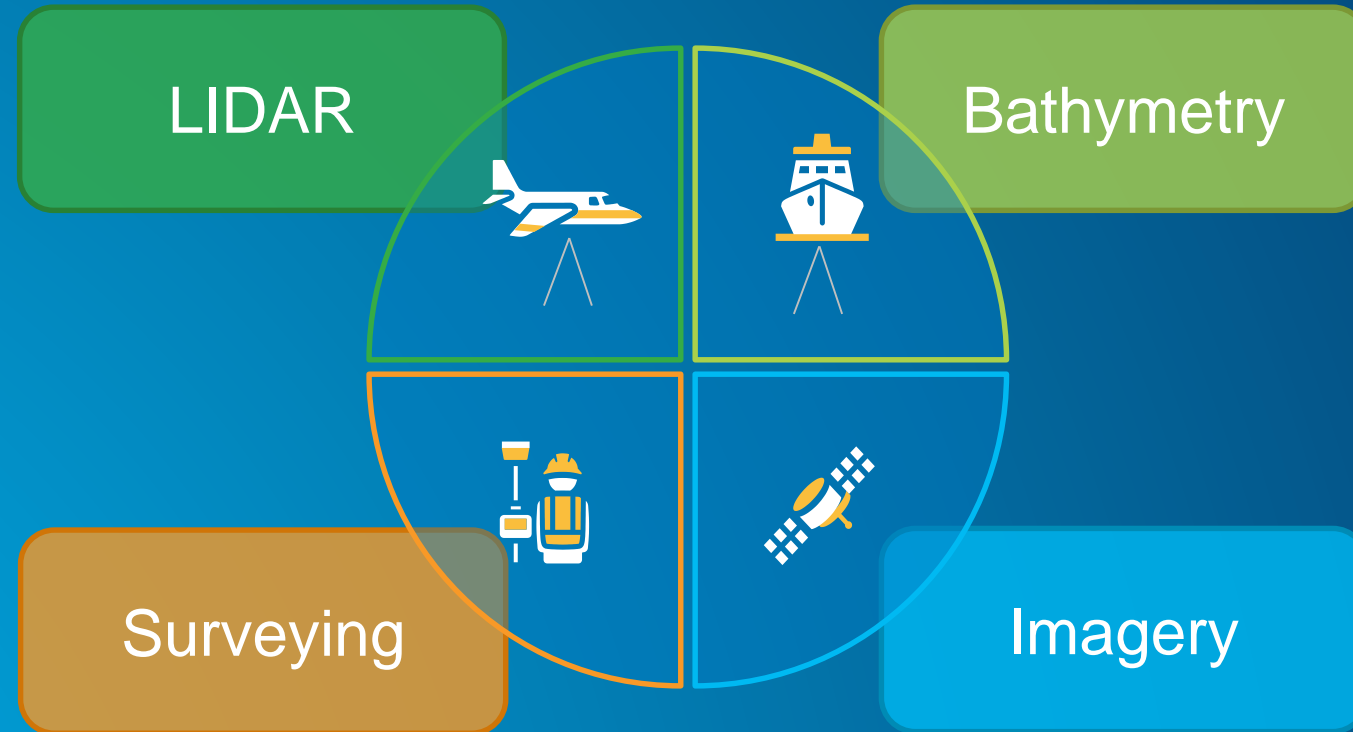
Ok **Cancel**

New units of work can be quickly created over the desired area of interest.

Collect, Produce and Share

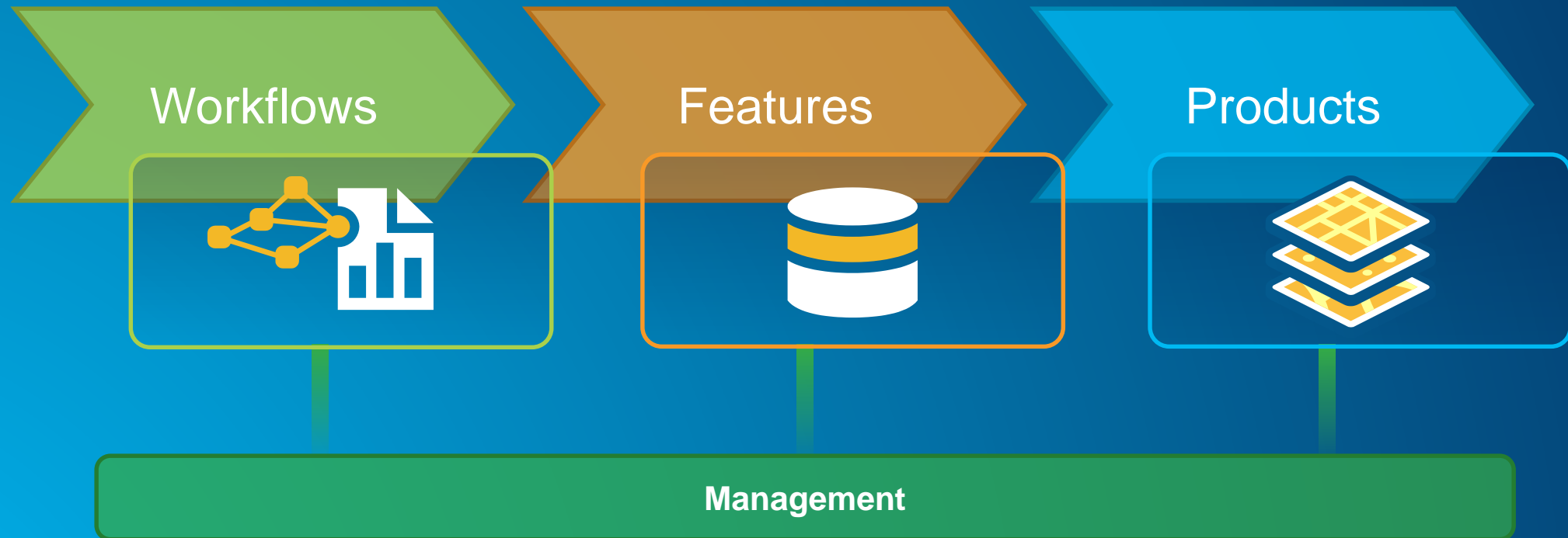
Collect

Bringing together source data



Produce

Creating data and maps that meet standards

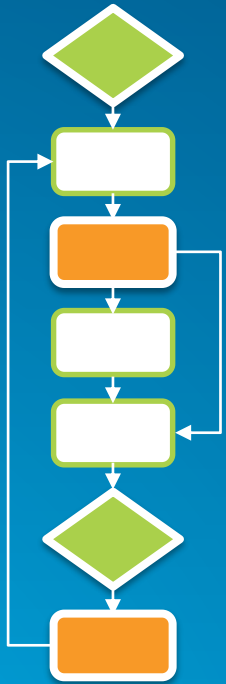


Produce Workflows

Workflows

Features

Products



Streamline



Automate



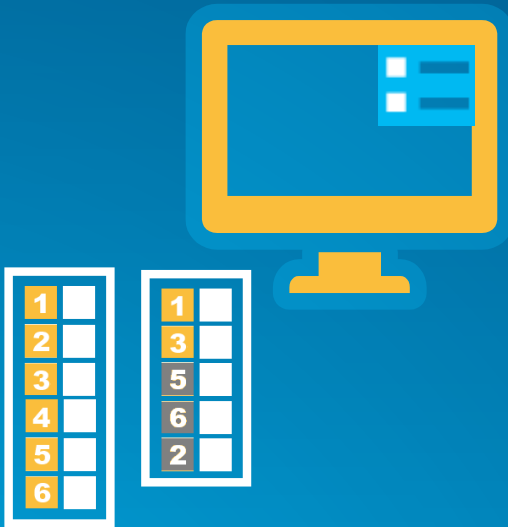
Standardize

Produce Features

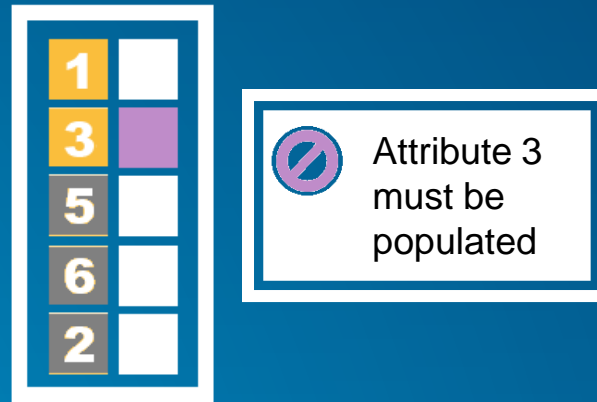
Workflows

Features

Products



Quickly



Accurately



Consistently

Produce Products

Workflows

Features

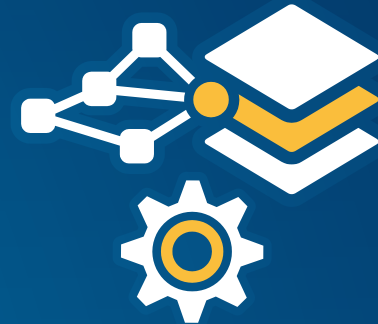
Products



Standard



Repeatable



Automated

Share

Making relevant products easily available

Online Content
& Services

Traditional
Products



Share and organize content

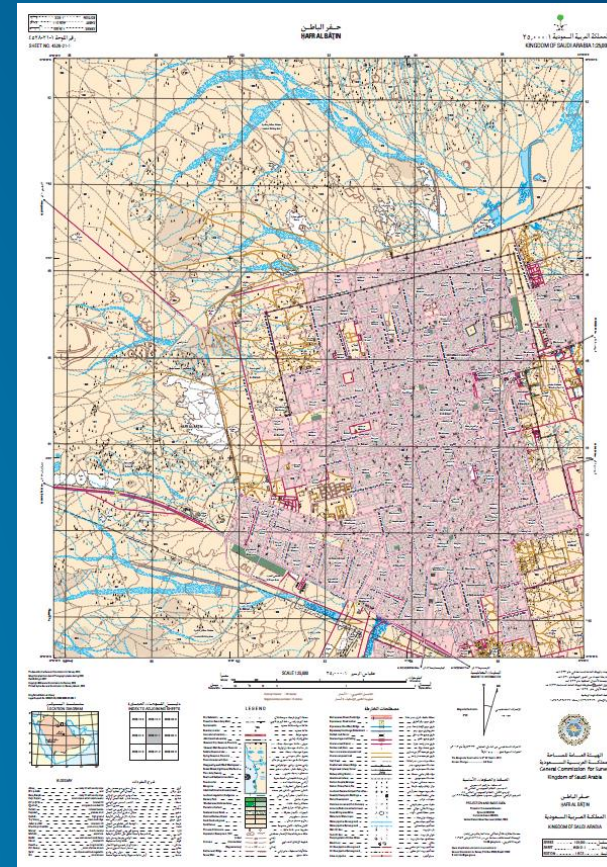
- Geospatial Collaboration
- Mobile and Web
- On Premise and Public Cloud



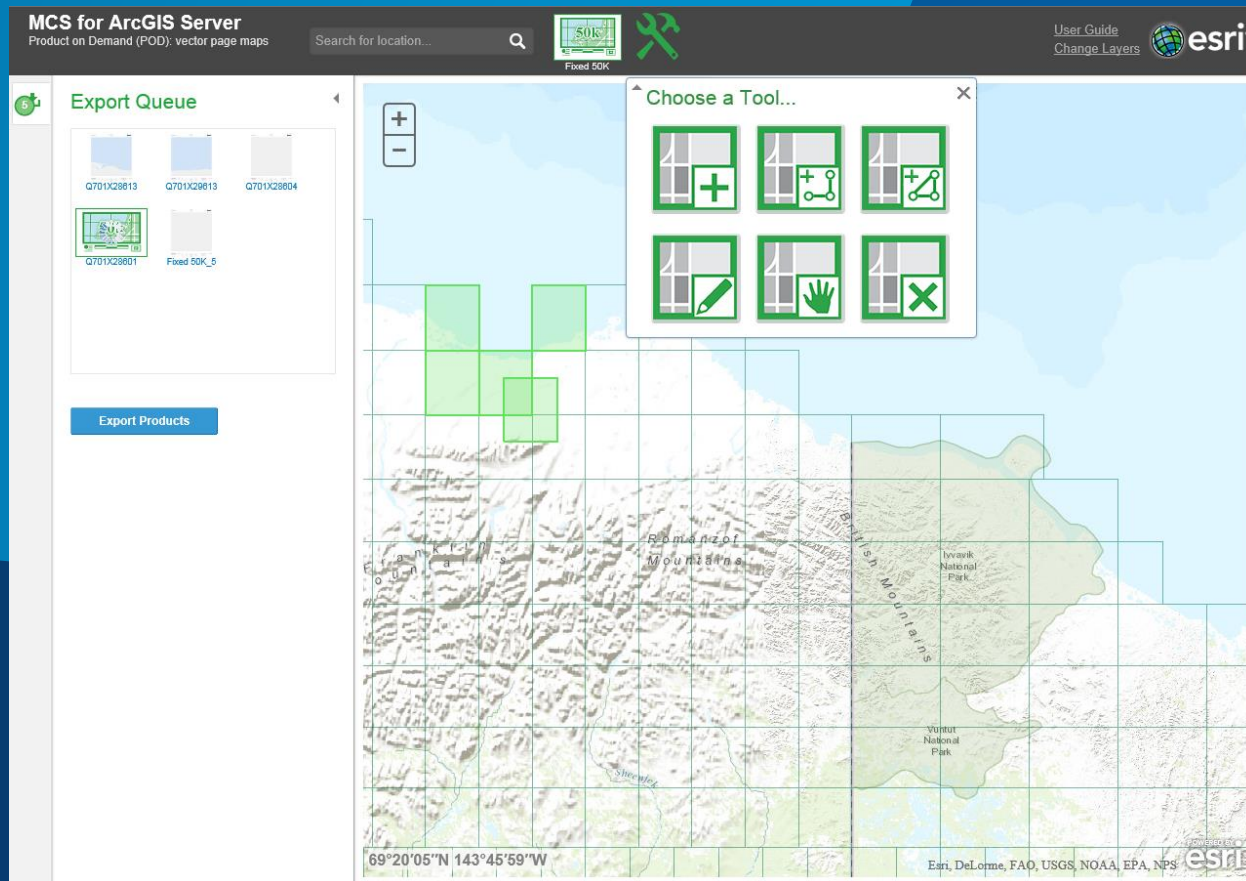
A screenshot of the Royal Jordanian Geographic Centre website. The page features a header with navigation links (HOME, MAP, GROUPS, MY CONTENT, MY ORGANIZATION) and a search bar. The main content area includes the organization's logo, a central graphic of a globe with a map overlay, and a section titled "Mapping Organizations" with four image-based categories: Bathymetric, Cadastre, Gray Basemap, and Imagery. Below this is a "Mission" section with a list of bullet points. The footer contains links to Esri.com, ArcGIS Marketplace, Help, Terms of Use, Privacy, Contact Esri, and Report Abuse.

Share products

- Printed and Digital Products
- Leverage standard templates
- Self-service mapping (POD)



Traditional Products




Creating maps to specification with Production Mapping Server

Sherry Fagin

Production Mapping for ArcGIS Server

Product on Demand (POD): vector page maps

Lone Rock, Utah, United State: 



Us

Choose a Product...

Fixed 25K Dynamic Area Dynamic Scale

Product: Fixed 25K

Product Description: Produces a map to a 1:25000 scale with a set page size of width 25 inches and height 35 inches.

Export Format: PDF

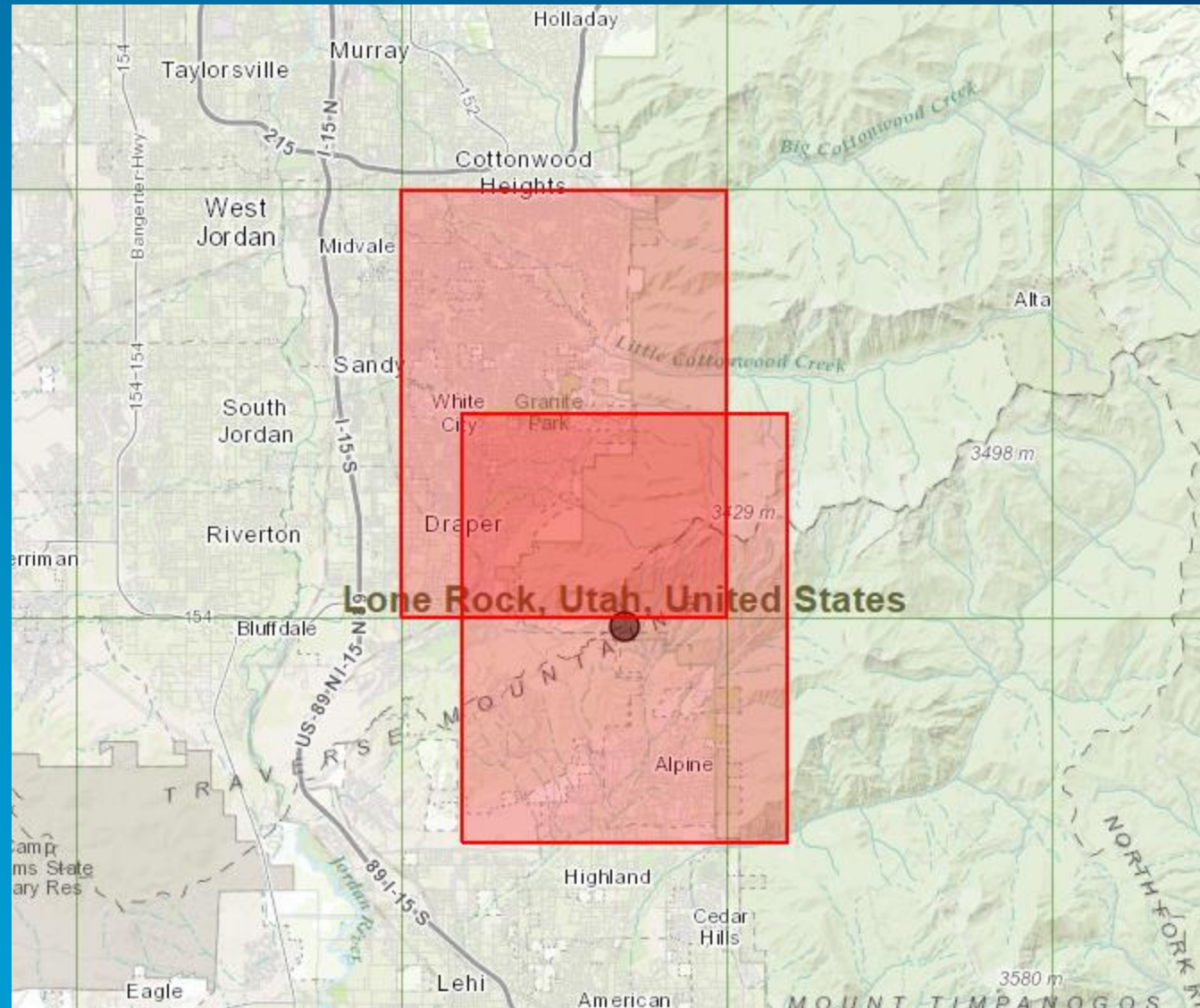
Scale: PDF

Page Size: PDF

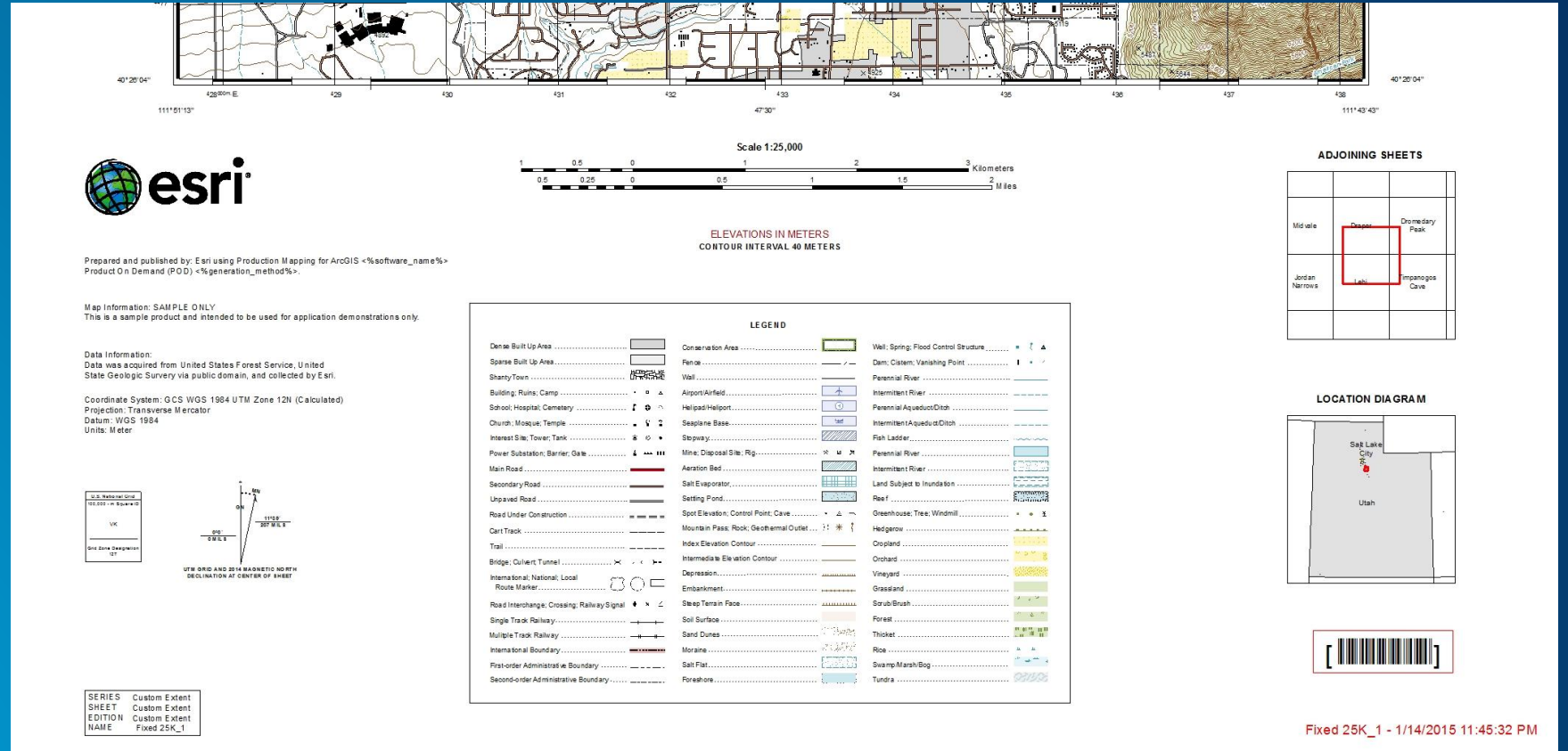
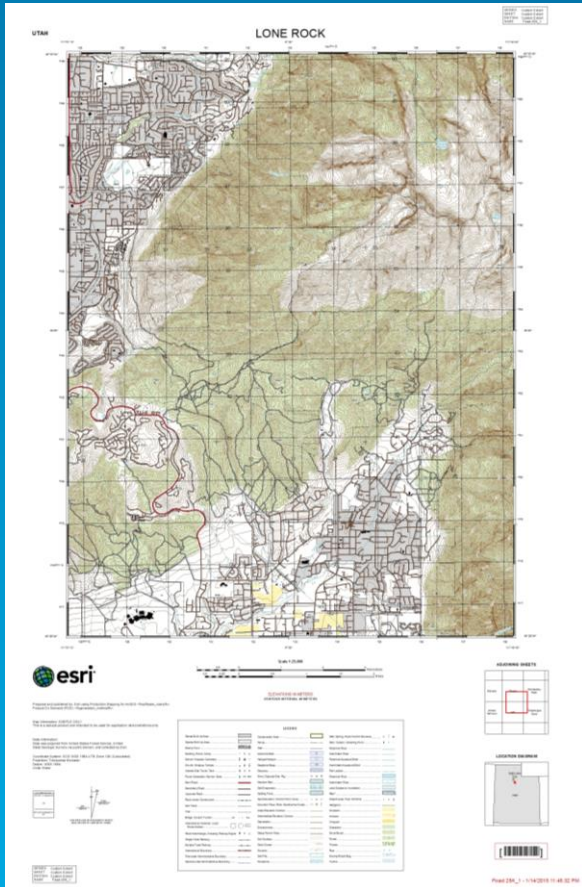
PDF
JPEG
TIFF
Multi-page PDF
Production PDF
Layout GeoTIFF
Map Package

Dynamic Page

You can choose the type of map to be produced and the format you want it in



You can create a map that follows the traditional map sheet extents or an extent that better covers the desired ground area.



Maps produced, regardless of extent, meet your cartographic specifications.

Army Geospatial Center

Mr. Michael Cioffi



ARMY GEOSPATIAL CENTER

ENABLING GEOSPATIAL INFORMATION DOMINANCE



Topographic Data Management – Urban Tactical Planner (UTP)

Presented by: Michael A. Cioffi
E: michael.a.cioffi@usace.army.mil
P: (703) 428-6932
DATE: 10 February 2015

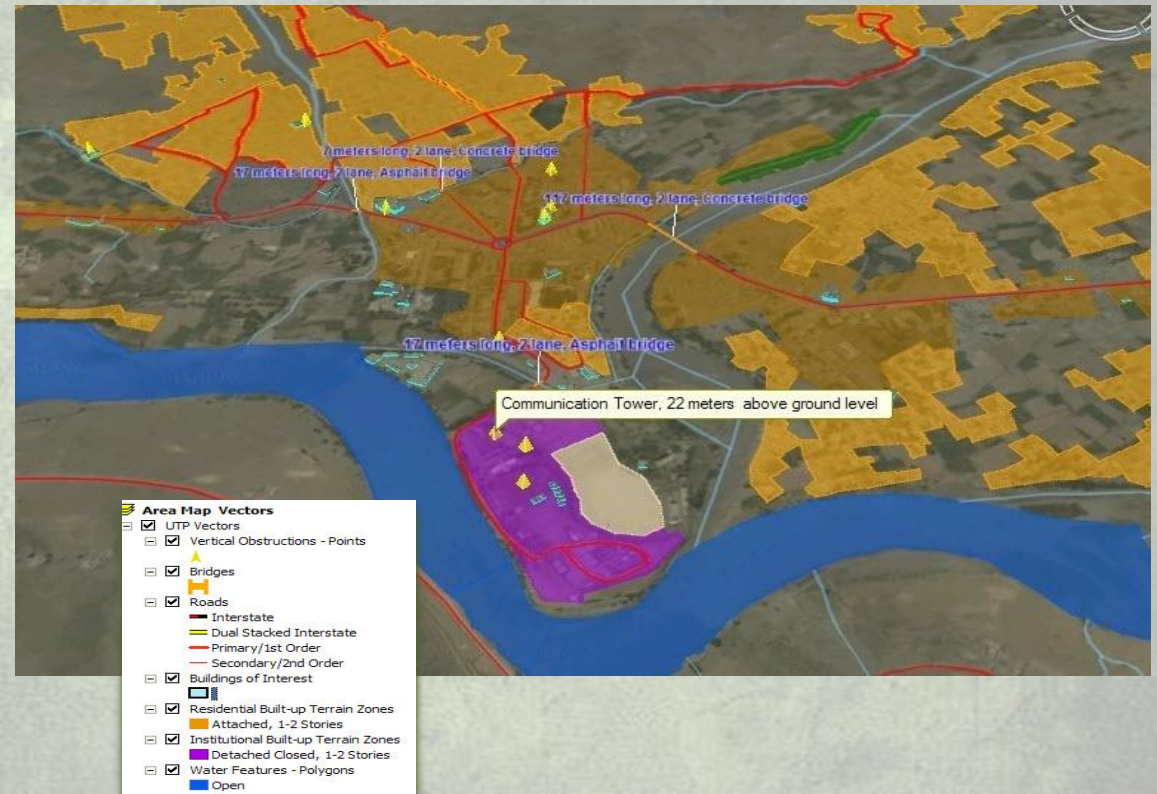


US Army Corps of Engineers
BUILDING STRONG

Urban Tactical Planner (UTP) Overview

- Product goal: Map the urban terrain in an expedient and substantive manner.
- Data extracted and collected in a Personal Geodatabase (.mdb)
- Present the urban terrain as an aggregate of features that affect urban area operations (full level analysis):

- Built-Up Terrain Zones (BTZs)
- Key Features
- Buildings of Interest
- Vertical Obstructions
- Open Urban Areas
- Airfields
- Text Pages
- Lines of Communication
- Water Features
- Forest
- Geography





UTP Product Development

- Moving towards the National Feature Data Dictionary (NFDD) and Ground Geospatial Data Model (GGDM)
- UTP Product Development Between ESRI and AGC with plans to move to new GGDM production in 2014-2015 (ArcGIS 10)



Transition to Standard Data Model

- Translate existing UTP data to GGDM
- ESRI-built system for Topographic Data Management using Workflow Manager
- Develop UTP Product Library for feature classes, subtypes and cartographic representations
- Enable UTP Field Configurations for large attribute tables

Workflow Manager

ArcGIS Workflow Manager

File Edit View Help

Run Copy Job AOI to Job Version... Complete Copy Job AOI to Job Version...

Jobs

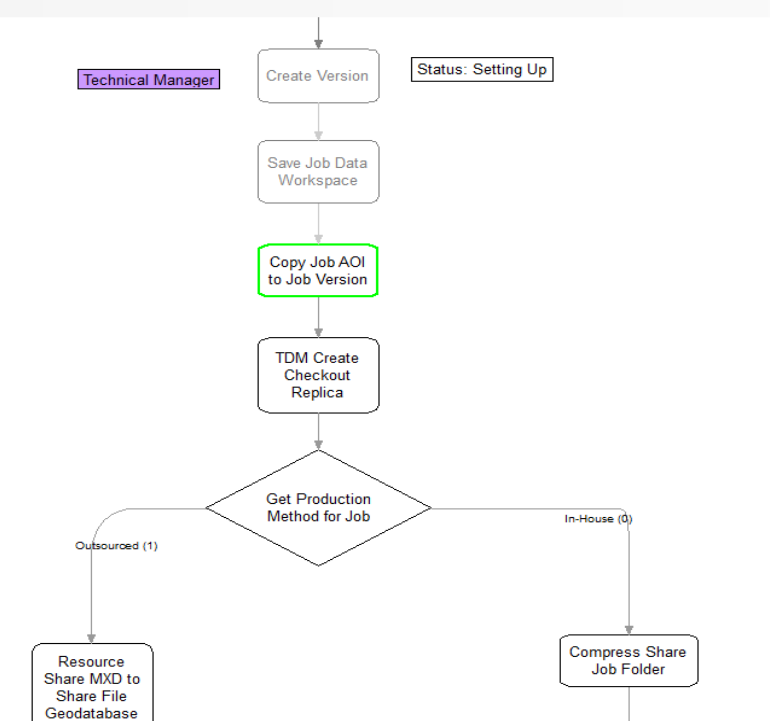
- Public Queries
 - Admin
 - All Jobs
 - Job Dump
 - General Queries
 - All Jobs
 - All Jobs - Closed
 - All Jobs - Open
 - All Jobs - Suspended
 - Unassigned Jobs
 - Job Type Queries
 - TLM50
 - Edge Matching
 - All Edge Matching Jobs
 - All Edge Matching Jobs - Closed
 - All Edge Matching Jobs - Open
 - All Edge Matching Jobs - Suspended
 - Grid Production
 - All Grid Production Jobs
 - All Grid Production Jobs - Closed
 - All Grid Production Jobs - Open
 - All Grid Production Jobs - Suspended
 - QA/QC
 - All Grid Production Jobs in QA/QC
 - All Production Jobs in QA/QC
 - Sheet Production
 - All Production Jobs
 - All Production Jobs - Closed
 - All Production Jobs - Open
 - All Production Jobs - Suspended
 - UTP
 - Finishing
 - All Finishing Jobs
 - All Finishing Jobs - Closed
 - All Finishing Jobs - Open
 - Jobs Ready for Final Check
 - Production
 - All In-House Production Jobs
 - All In-House Production Jobs - Closed
 - All In-House Production Jobs - Open
 - All In-House Production Jobs - Suspended
 - All Outsourced Production Jobs
 - All Outsourced Production Jobs - Closed
 - All Outsourced Production Jobs - Open
 - All Outsourced Production Jobs - Suspended
 - All Production Jobs
 - All Production Jobs - Closed
 - All Production Jobs - Open
 - All Production Jobs - Suspended

Job Query Results - List View

Job ID	Job Type Name	Start Date	Caption	Created Date	Created By	Owned By	Assigned To
59215	URBAN Create Authoritative Geodatabase	9/2/2014	Active Authoritative Database	9/2/2014	Michael.Cioffi	Michael.Cioffi	Michael.Cioffi
59216	URBAN Create Operational Replica	9/2/2014	Active Operational Replica	9/2/2014	Michael.Cioffi	Michael.Cioffi	Michael.Cioffi
59217	LOCAL Create Authoritative Geodatabase	9/2/2014	Active Authoritative Database	9/2/2014	Michael.Cioffi	Michael.Cioffi	Michael.Cioffi
59218	LOCAL Create Operational Replica	9/2/2014	Active Operational Replica	9/2/2014	Michael.Cioffi	Michael.Cioffi	Michael.Cioffi
60415	Urban UTP Vector Data Production (In-House)	9/15/2014	Setting Up	9/15/2014	Michael.Cioffi	Michael.Cioffi	Michael.Cioffi
60815	Urban UTP Vector Data Production (In-House)	9/22/2014	Working	9/22/2014	Michael.Cioffi	Michael.Cioffi	Michael.Cioffi

List | Map

Job Workflow



```

graph TD
    Start(( )) --> CreateVersion[Create Version]
    CreateVersion --> SaveWorkspace[Save Job Data Workspace]
    SaveWorkspace --> CopyAOI[Copy Job AOI to Job Version]
    CopyAOI --> TDM[TDM Create Checkout Replica]
    TDM --> GetMethod{Get Production Method for Job}
    GetMethod -- "Outsourced (1)" --> Resource[Resource Share MXD to Share File Geodatabase]
    GetMethod -- "In-House (0)" --> Compress[Compress Share Job Folder]
    
```

Technical Manager

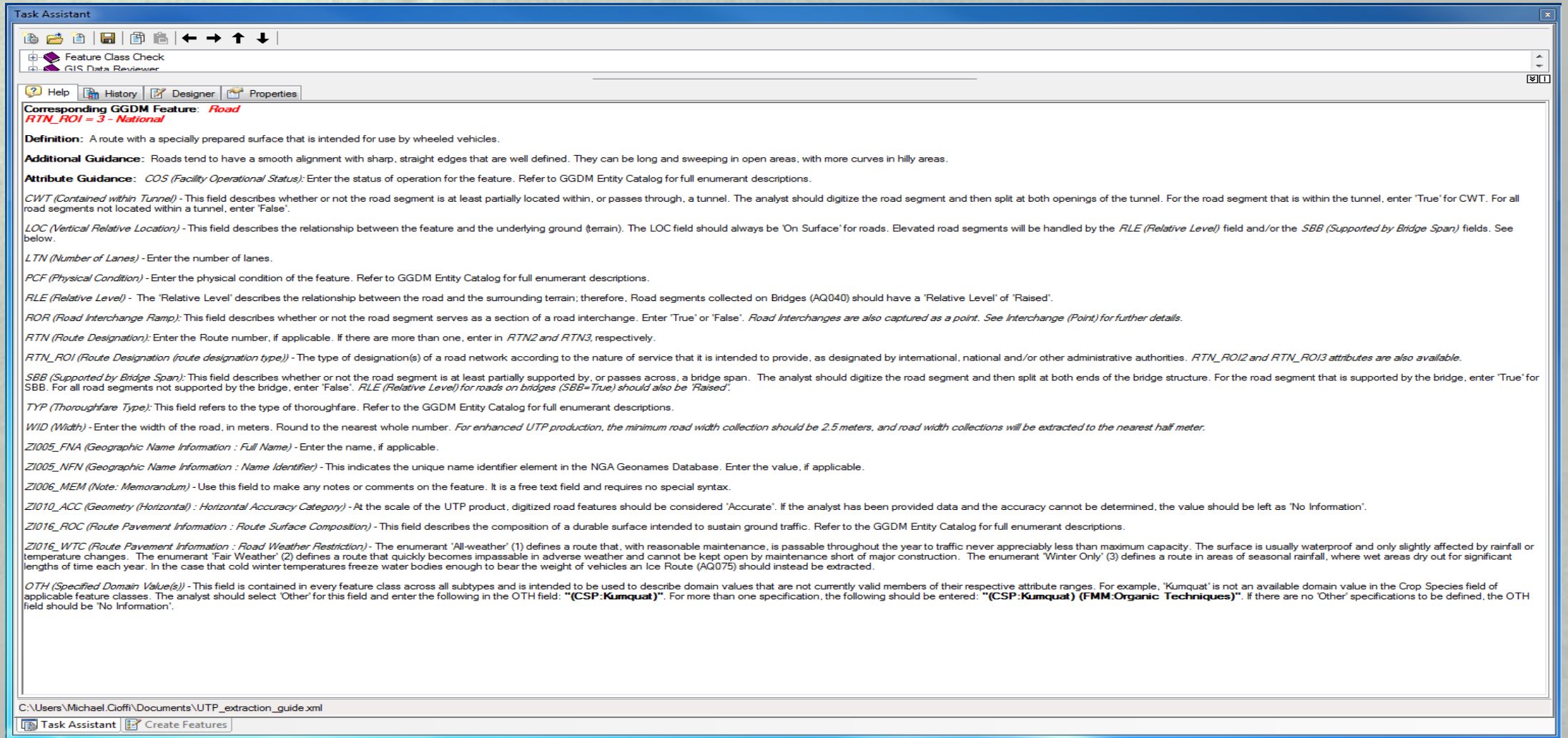
Status: Setting Up

Michael Cioffi belva42592ag003_wmx 6 jobs found. 11:05 AM

Task Assistant Manager

- Defines collection specifications
- Rules to define feature collection and extraction
- Eliminate duplicate or unnecessary features
- Ensure correct geometry type
- Automatically enables the correct template for the feature class and subtype
- Standardize procedures

Task Assistant Manager



Task Assistant

Feature Class Check
 GIS Data Reviewer

Help History Designer Properties

Corresponding GGDM Feature: Road
RTN_ROI = 3 - National

Definition: A route with a specially prepared surface that is intended for use by wheeled vehicles.

Additional Guidance: Roads tend to have a smooth alignment with sharp, straight edges that are well defined. They can be long and sweeping in open areas, with more curves in hilly areas.

Attribute Guidance: *COS (Facility Operational Status):* Enter the status of operation for the feature. Refer to GGDM Entity Catalog for full enumerant descriptions.

CWT (Contained within Tunnel) - This field describes whether or not the road segment is at least partially located within, or passes through, a tunnel. The analyst should digitize the road segment and then split at both openings of the tunnel. For the road segment that is within the tunnel, enter 'True' for CWT. For all road segments not located within a tunnel, enter 'False'.

LOC (Vertical Relative Location) - This field describes the relationship between the feature and the underlying ground (terrain). The LOC field should always be 'On Surface' for roads. Elevated road segments will be handled by the *RLE (Relative Level)* field and/or the *SBB (Supported by Bridge Span)* fields. See below.

LTN (Number of Lanes) - Enter the number of lanes.

PCF (Physical Condition) - Enter the physical condition of the feature. Refer to GGDM Entity Catalog for full enumerant descriptions.

RLE (Relative Level) - The 'Relative Level' describes the relationship between the road and the surrounding terrain; therefore, Road segments collected on Bridges (AQ040) should have a 'Relative Level' of 'Raised'.

ROR (Road Interchange Ramp): This field describes whether or not the road segment serves as a section of a road interchange. Enter 'True' or 'False'. *Road Interchanges are also captured as a point. See Interchange (Point) for further details.*

RTN (Route Designation): Enter the Route number, if applicable. If there are more than one, enter in *RTN2* and *RTN3*, respectively.

RTN_ROI (Route Designation (route designation type)) - The type of designation(s) of a road network according to the nature of service that it is intended to provide, as designated by international, national and/or other administrative authorities. *RTN_ROI2* and *RTN_ROI3* attributes are also available.

SBB (Supported by Bridge Span): This field describes whether or not the road segment is at least partially supported by, or passes across, a bridge span. The analyst should digitize the road segment and then split at both ends of the bridge structure. For the road segment that is supported by the bridge, enter 'True' for SBB. For all road segments not supported by the bridge, enter 'False'. *RLE (Relative Level) for roads on bridges (SBB=True) should also be 'Raised'.*

TYP (Thoroughfare Type): This field refers to the type of thoroughfare. Refer to the GGDM Entity Catalog for full enumerant descriptions.

WID (Width) - Enter the width of the road, in meters. Round to the nearest whole number. *For enhanced UTP production, the minimum road width collection should be 2.5 meters, and road width collections will be extracted to the nearest half meter.*

ZI005_FNA (Geographic Name Information : Full Name) - Enter the name, if applicable.

ZI005_NFN (Geographic Name Information : Name Identifier) - This indicates the unique name identifier element in the NGA Geonames Database. Enter the value, if applicable.

ZI006_MEM (Note: Memorandum) - Use this field to make any notes or comments on the feature. It is a free text field and requires no special syntax.

ZI010_ACC (Geometry (Horizontal) : Horizontal Accuracy Category) - At the scale of the UTP product, digitized road features should be considered 'Accurate'. If the analyst has been provided data and the accuracy cannot be determined, the value should be left as 'No Information'.

ZI016_ROC (Route Pavement Information : Route Surface Composition) - This field describes the composition of a durable surface intended to sustain ground traffic. Refer to the GGDM Entity Catalog for full enumerant descriptions.

ZI016_WTC (Route Pavement Information : Road Weather Restriction) - The enumerant 'All-weather' (1) defines a route that, with reasonable maintenance, is passable throughout the year to traffic never appreciably less than maximum capacity. The surface is usually waterproof and only slightly affected by rainfall or temperature changes. The enumerant 'Fair Weather' (2) defines a route that quickly becomes impassable in adverse weather and cannot be kept open by maintenance short of major construction. The enumerant 'Winter Only' (3) defines a route in areas of seasonal rainfall, where wet areas dry out for significant lengths of time each year. In the case that cold winter temperatures freeze water bodies enough to bear the weight of vehicles an Ice Route (AQ075) should instead be extracted.

OTH (Specified Domain Value(s)) - This field is contained in every feature class across all subtypes and is intended to be used to describe domain values that are not currently valid members of their respective attribute ranges. For example, 'Kumquat' is not an available domain value in the Crop Species field of applicable feature classes. The analyst should select 'Other' for this field and enter the following in the OTH field: **"(CSP:Kumquat)"**. For more than one specification, the following should be entered: **"(CSP:Kumquat) (FMM:Organic Techniques)"**. If there are no 'Other' specifications to be defined, the OTH field should be 'No Information'.

C:\Users\Michael.Cioffi\Documents\UTP_extraction_guide.xml

Task Assistant Create Features

Feature/Template Selected: Road

UTP attribution specifics and definitions

Field Configurations

- GGDM – 85 Feature Classes total
- Current UTP – 21 Feature Classes total
- Each GGDM feature class has large attribute tables, but not all attributes are collected in UTP specifications
- Field Configurations dramatically help the analyst determine what attributes are required



Field Configurations

- Attributes that are always constant throughout production are populated and cannot be changed – reduces risk of attribution error

Field Configurations

Update Attributes

Field Name	Field Value
<input checked="" type="checkbox"/> OBJECTID	1794413
<input type="checkbox"/> FCSubType	100152 - ROAD_C
<input type="checkbox"/> AOO	-999999 - -----
<input type="checkbox"/> ARA	-999999
<input type="checkbox"/> AWP	-999999 - -----
<input type="checkbox"/> BCC	-999999 - -----
<input checked="" type="checkbox"/> BMC	-999999 - -----
<input type="checkbox"/> BMC2	-999999 - -----
<input type="checkbox"/> BMC3	-999999 - -----
<input type="checkbox"/> BOT	-999999 - -----
<input type="checkbox"/> BRN	noInformation - No Information
<input type="checkbox"/> BSC	-999999 - -----
<input type="checkbox"/> BSC2	-999999 - -----
<input type="checkbox"/> BSC3	-999999 - -----
<input type="checkbox"/> BSM	-999999 - -----
<input type="checkbox"/> CAA	-999999 - No Information
<input type="checkbox"/> CAT	-999999 - -----
<input type="checkbox"/> CON	-999999 - -----
<input type="checkbox"/> COS	13 - Operational
<input type="checkbox"/> CTC	-999999 - -----
<input type="checkbox"/> CTL	-999999 - -----
<input type="checkbox"/> CWT	1000 - False
<input type="checkbox"/> DEV	-999999
<input type="checkbox"/> DZC	-999999 - -----
<input type="checkbox"/> DZP	-999999 - -----
<input type="checkbox"/> EXP	-999999 - -----
<input type="checkbox"/> F_CODE	AP030 - Road
<input type="checkbox"/> FCO	-999999 - No Information
<input type="checkbox"/> FFN	-999999 - -----
<input type="checkbox"/> FFN2	-999999 - -----
<input type="checkbox"/> FFN3	-999999 - -----
<input type="checkbox"/> FSC	-999999 - No Information
<input type="checkbox"/> GTC	-999999 - -----
<input type="checkbox"/> HCA	-999999 - -----
<input type="checkbox"/> HEI	-999999 - -----
<input type="checkbox"/> HGT	-999999 - -----
<input type="checkbox"/> HST	-999999 - -----
<input type="checkbox"/> HST2	-999999 - -----
<input type="checkbox"/> HST3	-999999 - -----
<input type="checkbox"/> LC1	-999999 - -----
<input type="checkbox"/> LC2	-999999 - -----
<input type="checkbox"/> LC3	-999999 - -----
<input type="checkbox"/> LC4	-999999 - -----
<input type="checkbox"/> LEA	-999999 - -----

Update Attributes [Apply] [Save Template...]

No Field Configuration Set

Update Attributes

Field Name	Field Value
<input checked="" type="checkbox"/> FCSubType	100152 - ROAD_C
<input type="checkbox"/> F_CODE	AP030 - Road
<input type="checkbox"/> LOC	-999999 - No Information
<input type="checkbox"/> LTN	-999999
<input type="checkbox"/> PCF	-999999 - No Information
<input type="checkbox"/> RTN	No Information
<input type="checkbox"/> RTN_ROI	3 - National
<input type="checkbox"/> RTN_ROI2	-999999 - No Information
<input type="checkbox"/> RTN_ROI3	-999999 - No Information
<input type="checkbox"/> RTN2	No Information
<input type="checkbox"/> RTN3	No Information
<input type="checkbox"/> WID	-999999
<input type="checkbox"/> ZI005_FNA	No Information
<input type="checkbox"/> ZI005_NFN	No Information
<input type="checkbox"/> ZI006_MEM	No Information
<input type="checkbox"/> ZI016_ROC	-999999 - No Information
<input type="checkbox"/> ZI016_WTC	-999999 - No Information
<input type="checkbox"/> ZI004_RCG	usArmyGeospatialCenter - U.S. Army Geospatial Center (AGC)
<input type="checkbox"/> ZSAX_RS0	U - UNCLASSIFIED
<input type="checkbox"/> ZSAX_RX3	noInformation
<input type="checkbox"/> ZSAX_RX4	noInformation
<input type="checkbox"/> TransGrndCrv...	<Null>
<input checked="" type="checkbox"/> WS_AGC_TEAM	UTP
<input type="checkbox"/> WS_GRMN_TY...	<Null>
<input type="checkbox"/> WS_GRMN_NA...	<Null>
<input type="checkbox"/> WS_DATASET...	<Null>

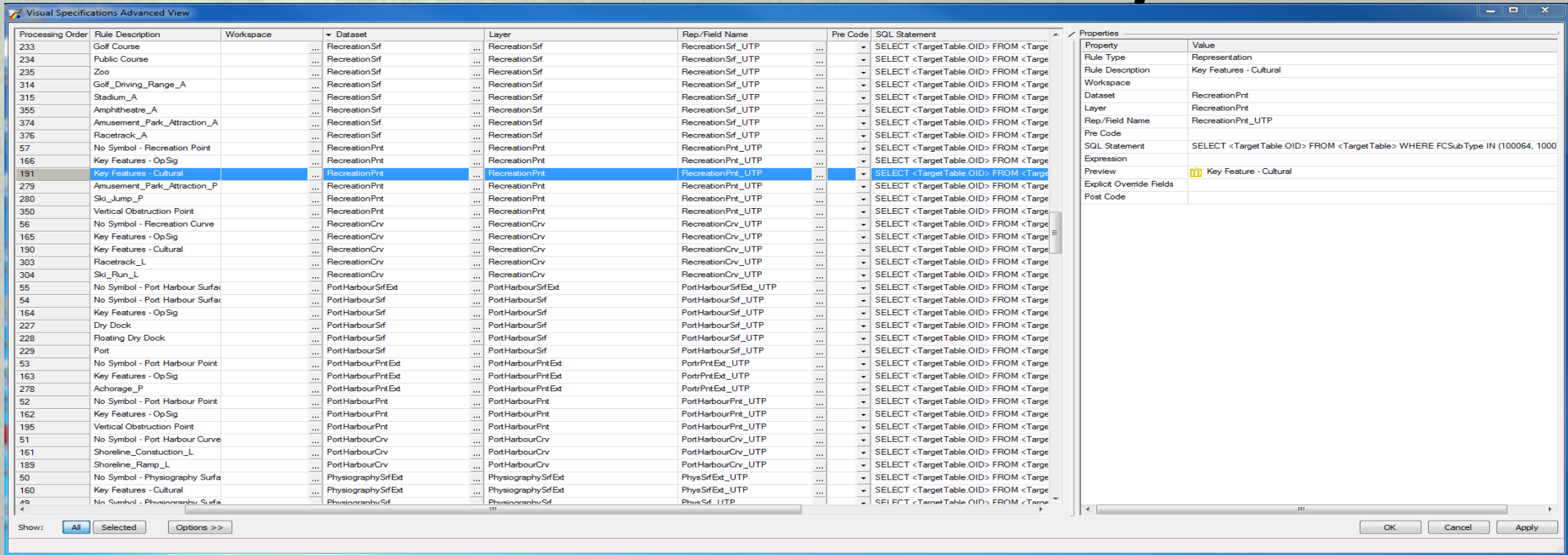
Update Attributes [Apply] [Save Template...]

Field Configuration Set

Product Library

- Geodatabase that stores information about features and their representations
- Representation Rules
- SQL statements for Subtypes and their attribution
- Processing Orders

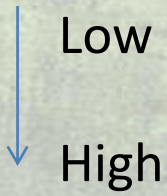
Product Library



Processing Order	Rule Description	Workspace	Dataset	Layer	Rep/Field Name	Pre Code	SQL Statement
233	Golf Course		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
234	Public Course		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
235	Zoo		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
314	Golf_Driving_Range_A		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
315	Stadium_A		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
355	Amphitheatre_A		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
374	Amusement_Park_Attraction_A		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
376	Racetrack_A		RecreationSrf	RecreationSrf	RecreationSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
57	No Symbol - Recreation Point		RecreationPnt	RecreationPnt	RecreationPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
166	Key Features - OpSig		RecreationPnt	RecreationPnt	RecreationPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
191	Key Features - Cultural		RecreationPnt	RecreationPnt	RecreationPnt_UTP		SELECT <Target Table.OID> FROM <Target Table> WHERE FCSubType IN (100064, 1000
279	Amusement_Park_Attraction_P		RecreationPnt	RecreationPnt	RecreationPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
280	Ski_Jump_P		RecreationPnt	RecreationPnt	RecreationPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
350	Vertical Obstruction Point		RecreationPnt	RecreationPnt	RecreationPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
56	No Symbol - Recreation Curve		RecreationCrv	RecreationCrv	RecreationCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
165	Key Features - OpSig		RecreationCrv	RecreationCrv	RecreationCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
190	Key Features - Cultural		RecreationCrv	RecreationCrv	RecreationCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
303	Racetrack_L		RecreationCrv	RecreationCrv	RecreationCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
304	Ski_Run_L		RecreationCrv	RecreationCrv	RecreationCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
55	No Symbol - Port Harbour Surf		PortHarbourSrfExt	PortHarbourSrfExt	PortHarbourSrfExt_UTP		SELECT <Target Table.OID> FROM <Target Table>
54	No Symbol - Port Harbour Surf		PortHarbourSrf	PortHarbourSrf	PortHarbourSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
164	Key Features - OpSig		PortHarbourSrf	PortHarbourSrf	PortHarbourSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
227	Dry Dock		PortHarbourSrf	PortHarbourSrf	PortHarbourSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
228	Floating Dry Dock		PortHarbourSrf	PortHarbourSrf	PortHarbourSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
229	Port		PortHarbourSrf	PortHarbourSrf	PortHarbourSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>
53	No Symbol - Port Harbour Point		PortHarbourPntExt	PortHarbourPntExt	PortPntExt_UTP		SELECT <Target Table.OID> FROM <Target Table>
163	Key Features - OpSig		PortHarbourPntExt	PortHarbourPntExt	PortPntExt_UTP		SELECT <Target Table.OID> FROM <Target Table>
278	Achorage_P		PortHarbourPntExt	PortHarbourPntExt	PortPntExt_UTP		SELECT <Target Table.OID> FROM <Target Table>
52	No Symbol - Port Harbour Point		PortHarbourPnt	PortHarbourPnt	PortHarbourPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
162	Key Features - OpSig		PortHarbourPnt	PortHarbourPnt	PortHarbourPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
195	Vertical Obstruction Point		PortHarbourPnt	PortHarbourPnt	PortHarbourPnt_UTP		SELECT <Target Table.OID> FROM <Target Table>
51	No Symbol - Port Harbour Curve		PortHarbourCrv	PortHarbourCrv	PortHarbourCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
161	Shoreline_Construction_L		PortHarbourCrv	PortHarbourCrv	PortHarbourCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
189	Shoreline_Ramp_L		PortHarbourCrv	PortHarbourCrv	PortHarbourCrv_UTP		SELECT <Target Table.OID> FROM <Target Table>
50	No Symbol - Physiography Surf		PhysiographySrfExt	PhysiographySrfExt	PhysSrfExt_UTP		SELECT <Target Table.OID> FROM <Target Table>
160	Key Features - Cultural		PhysiographySrfExt	PhysiographySrfExt	PhysSrfExt_UTP		SELECT <Target Table.OID> FROM <Target Table>
49	No Symbol - Physiography Surf		PhysiographySrf	PhysiographySrf	PhysSrf_UTP		SELECT <Target Table.OID> FROM <Target Table>

```
FROM RecreationPnt
WHERE
FCSubType IN (100064, 100077)
```

Processing Orders



```
FROM RecreationPnt
WHERE
HGT >= 15
```

These features receive Key Feature – Cultural symbol

These features receive Vertical Obstruction symbol



QA/QC Checks – Data Reviewer

- Data Reviewer – Standard extension to ArcGIS for Desktop
- Complete quality control system for data, map products
- Analyst can perform automated quality review functions before assigning to QA/QC team
- Error documentation and reporting

Reviewer Table

- Tracks all anomalies/errors located during review
- Navigates to error from table
- Records correction and verification status
- Contains tools to manage the records
- Not a “catch-all”, but effectively saves some manual QC execution



Summary

- Importance of data standards to enable and facilitate sharing of information
- Inter/Intra Agency support
- Data cooperation – reduce data redundancies



Questions?

- Urban Tactical Planner Point of Contact:

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Presented by:

Mr. Michael A. Cioffi

(703) 428-6932

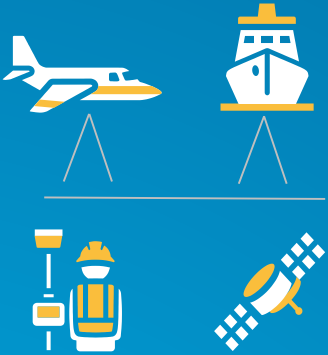
michael.a.cioffi@usace.army.mil

Conclusion

Conclusion

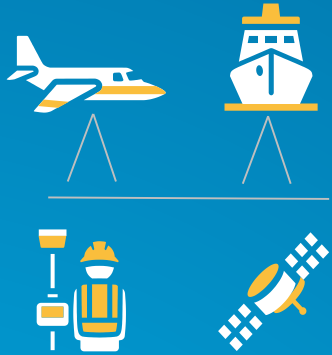
Enterprise strategy

Collect



Enterprise strategy

Collect



Produce



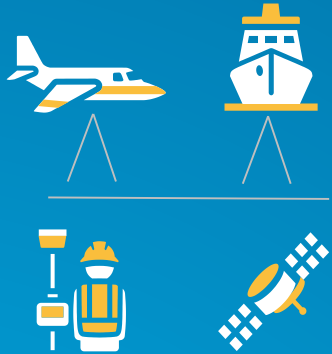
Workflows

Features

Products

Enterprise strategy

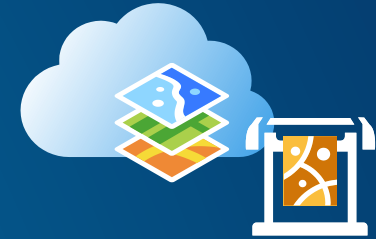
Collect



Produce

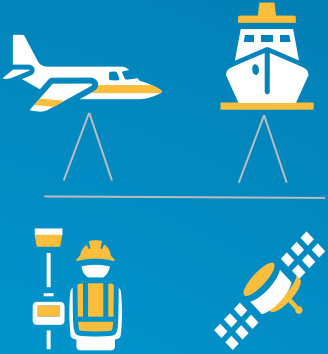


Share



Enterprise strategy

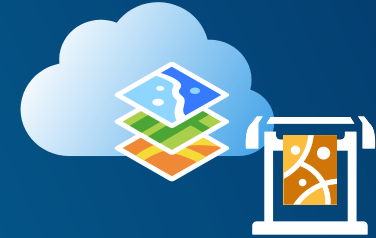
Collect



Produce



Share



Manage

Successful enterprise implementations

More than just technology

- **Vision and Leadership**
- **Management Support**
- **Planning**
 - **Technical Architecture**
 - **Standards**
 - **Organization**
 - **Processes and Procedures**
- **Team buy-in**

. . . A spirit of collaboration

ArcGIS Extensions Covered

- **Workflow Manager for ArcGIS and Task Assistant**
 - www.esri.com/workflowmanager
- **Data Reviewer for ArcGIS**
 - www.esri.com/datareviewer
- **Production Mapping and Production Mapping Server**
 - www.esri.com/productionmapping
 - Includes Workflow Manager, Task Assistant and Data Reviewer
- Email questions and comments productionmapping@esri.com

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Tuesday, 10:45 AM–4:00 PM

- Exhibitors
- Hands-On Learning Lab
- Technical & Extended Support
- Demo Theater
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