

NG911 Countywide Meeting

**Welcome to the May 2023
meeting!**

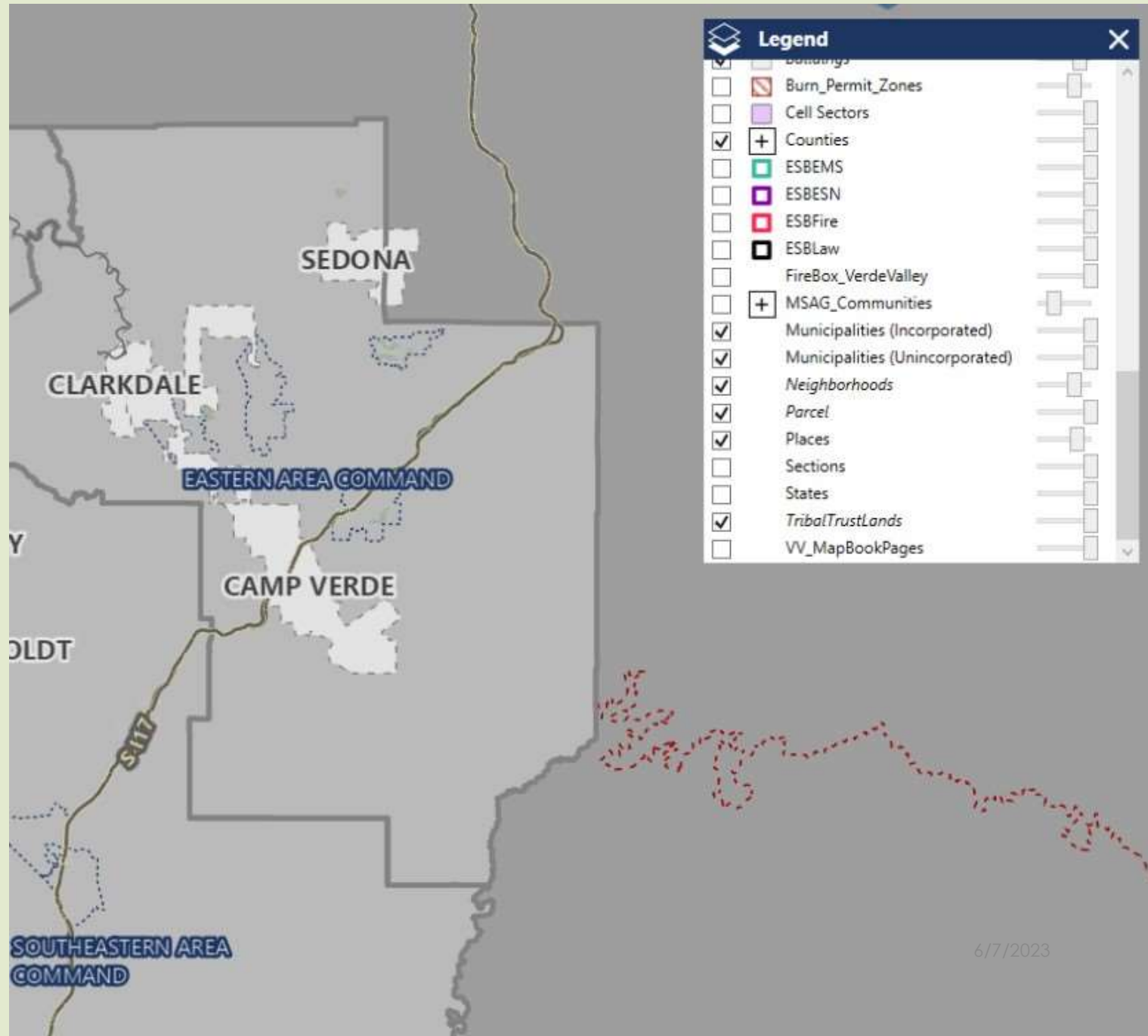
6/7/2023

Agenda for today

- ❖ Welcome, Introductions & Agenda Review
- ❖ Local Workflow
- ❖ Countywide Workflow
- ❖ Wrap up
- ❖ Next Meeting

Introduction

- ❖ What are we supporting?
Vesta Map Local and our local Computer Aided Dispatch mapping software.



Local Workflow

4

- Workflow to describe what starts the process of creating a new address / street centerline in your community
- What is the workflow to complete that process.

County Workflow

5

How County Addresses are Assigned

Customer Address request: (via In person, online, or via phone call)

- ▶ Ask customer to submit address request on the CitizenServe portal if possible.
- ▶ Review supporting documents if attached or available, like a site plan or plot plan.
- ▶ Is the road officially named? If not, then the process changes to name a new easement that the applicant or other property owners can start.
- ▶ If there are permitted, habitable structures then an address can be assigned.
- ▶ Check the address grid, street centerline ranges, surrounding addresses.
- ▶ Assign new address based on Grid and correct side of the road.

Permit Reviews Request:

- ▶ CitizenServe plan review notifications for Septic, SFR, or other structures
- ▶ Review plot plans for structure, driveway location & imagery. (Attempt to eliminate fishbones, keeping addresses in alignment with each other)
- ▶ Is the road officially named? If not, then the process changes to name a new easement that the applicant or other property owners can start.
- ▶ Check the address grid, street centerline ranges, surrounding addresses.
- ▶ Assign new address based on Grid and correct side of the road.



Staff or Other Agency request:

- ▶ Review available documents, maps & imagery for structure & driveway location.
- ▶ Is the road officially named? If not, then we contact the adjacent property owners to start the process to name a new easement.
- ▶ Check the address grid, street centerline ranges, surrounding addresses.
- ▶ Assign new address based on Grid and correct side of the road.

How Street Centerlines in County come to be

- Where do the street centerline properties come from?
 - **A. City Data Edits:** Information is imported from the cities by YC GIS and added to the Yavapai County data for City of Prescott, Town of Prescott Valley, Town of Chino Valley, City of Cottonwood, City of Sedona, Town of Camp Verde. Information uploaded using the FTP site.
 - **B. City Data with YC edits:** Yavapai County assists the Town of Jerome and Town of Dewey Humboldt with the entering of their centerline data. Jurisdiction sends an email indicating the new information. YC GIS or Addressing will create or edit the centerline with the appropriate directional, address ranges, ESN, MSAG Community, and Postal Community with Zip Code.
 - **C. YC Public Works:** County Dedicated Rights of Way centerlines are edited by our Public Works.
 - **D. YC GIS:** GIS edits Centerlines assisting unincorporated and incorporated jurisdictions. Usually the GIS edits are due to the 911 accuracy reports or the incorporated jurisdiction's individual needs.
 - **E. YC Addressing:** We edit existing street centerlines by populating the necessary fields for the NG 911 database. YC Addressing names new roads administratively all over the unincorporated parts of Yavapai County. Once that process is complete, we add the new centerline with all its properties into ArcPro.

Street Centerlines address range types

There are different ways of identifying the centerline properties and how the centerline ranges are developed.

Using the existing addresses along the road – **Actual ranges**

Using the address grid for the length of the road using - **Theoretical ranges**

There are benefits for using both methods.

Actual is going to be more exact and is good for developed neighborhoods where centerline data may not be changing much.

Ex. E Wade Ln L From: 6082 LTo: 6996 RFrom: 6437 RTo: 6999

L&R Comm: Prescott Valley L & R Zip: 86315 L&R ESN: 1021

Theoretical is better for the rural, undeveloped areas. If I put a range on the road that is a mile long, but it currently only has one house on it, the range would still show plenty of room along that road for more addresses to fit in.

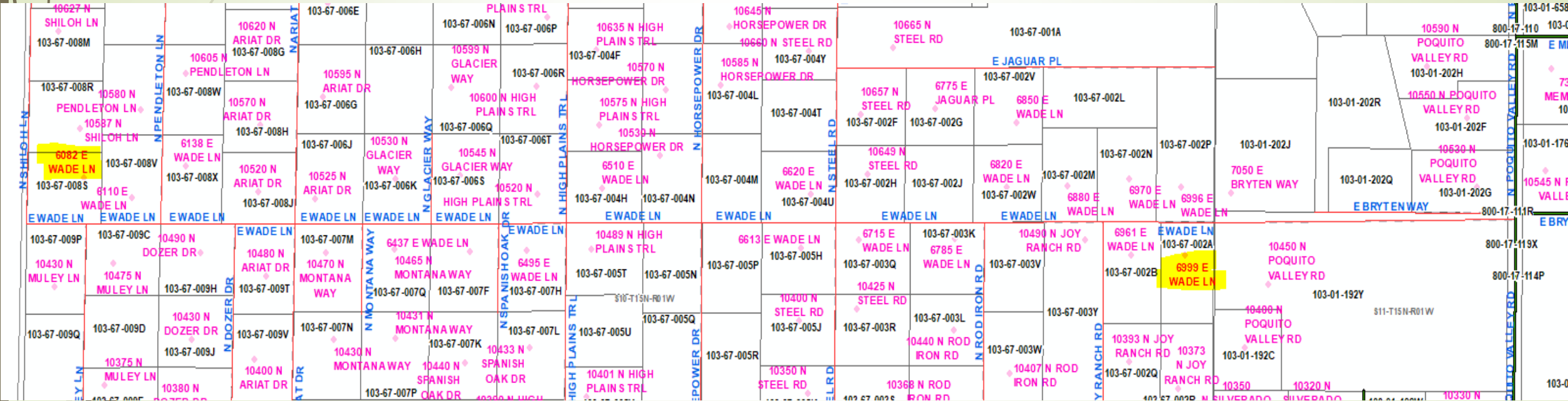
Ex. E Wade Ln L From: 6000 LTo: 7248 RFrom: 6001 RTo: 7249

L&R Comm: Prescott Valley L & R Zip: 86315 L&R ESN: 1021

Street Centerlines Actual Address Range

Actual is going to be more exact and is good for developed neighborhoods where centerline data may not be changing much.

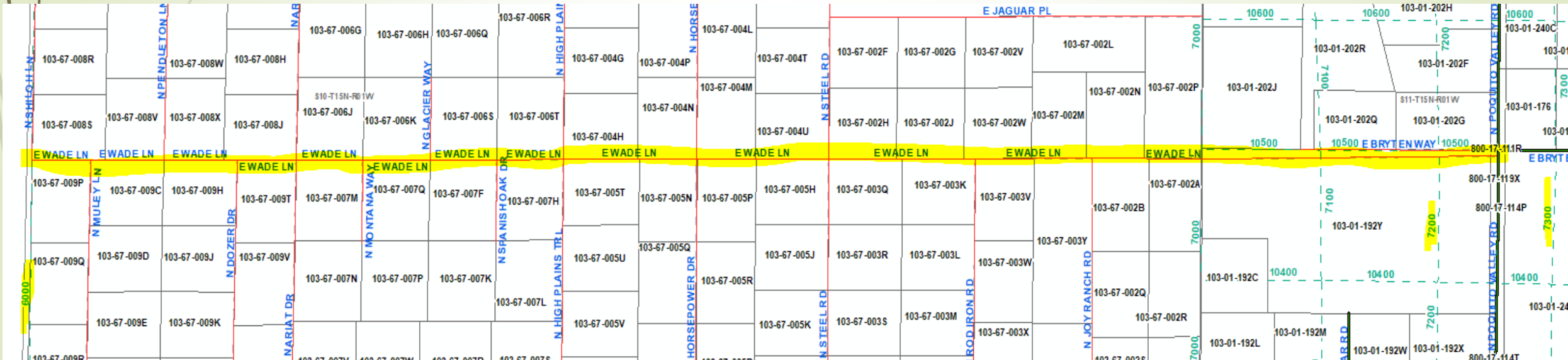
Ex. E Wade Ln LFrom: 6082 LTo: 6996 RFrom: 6437 RTo: 6999
 L&R Comm: Prescott Valley L & R Zip: 86315 L&R ESN: 1021



Street Centerlines Theoretical Address Range

Theoretical is better for the rural, undeveloped areas. If I put a range on the road that is a mile long, but it currently only has one house on it, the range would still show plenty of room along that road for more addresses to fit in.

Ex. E Wade Ln LFrom: 6000 LTo: 7248 RFrom: 6001 RTo: 7249
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As you can see there are other lots along the road that are large enough to split into smaller parcels. Continuing an actual address range centerline, can cause multiple edits as development occurs. The theoretical range will allow for development without the need of additional work to edit those centerlines again. **Each segment would be broken down specifically, however for the simplicity of the examples I will pretend no other segments interfere with the ranges**

NG911 ADDRESS DATA FLOW

	UID_ADDR *	ADD_NUMBER	ADDNUM_SUF	NGGUID_MASTERSTNAME	UNITNUM	UNITTYPE	BUILDING	FLOOR	LANDMKNAME	MILE_POST	ADDTL_LOC	SOURCE	PLACEMENT	ROUTINGSTREETEXT...	STREET NAME
113	544	2226	<Null>	NGCLK134	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	CLK706	AUSTIN WAY
114	476	2105	<Null>	NGCLK134	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	CLK706	AUSTIN WAY
115	498	2215	<Null>	NGCLK134	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	CLK706	AUSTIN WAY
116	22	955	<Null>	NGCLK82	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	CLK1374	AVENIDA CENTERVILLE
117	34	975	<Null>	NGCLK82	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	CLK1374	AVENIDA CENTERVILLE
118	811	850	<Null>	NGCLK82	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	CLK1518	AVENIDA CENTERVILLE

NG911 fields

ST_PREMOD	ST_PREDIR	ST_PRETYPE	ST_PRESEP	ST_NAME	ST_POSTYPE	ST_SUFDIR	ST_POSMOD	L_ST_PREDIR	L_ST_NAME	L_ST_TYPE	L_ST_POSTDIR	NGUID	DOMAIN_TYPE	MULTIJURISDICTIONAL	L_NGFULLSTNAME
				ASHLEY VIEW	DRIVE				ASHLEY VIEW	DR		NGCLK223	B	<Null>	ASHLEY VIEW DR
				AUSTIN	WAY				AUSTIN	WAY		NGCLK134	B	<Null>	AUSTIN WAY
				AZURITE	WAY				AZURITE	WAY		NGCLK232	B	<Null>	AZURITE WAY

Master Street Name fields

SOURCE DATA

Chino Valley
Clarkdale
Cottonwood
Camp Verde
Dewey-Humboldt
Jerome
Sedona
Wickenburg
YA Nation

ArcGIS Online Address Editor applications

Dev Services Address Feature Class
Unincorporated Area

Prescott
Prescott Valley

Uploaded to ArcGIS Online

Copied internally weekly

Nightly process combines addresses from all sources to create County-wide Address Feature Class. Lat/Long and Master Street Name fields added.

County-wide address points Intersected with:
Unincorporated Communities
Zip Codes
Parcels
Service Zones Boundaries
MSAG Polygons
Neighborhoods (Subdivisions)

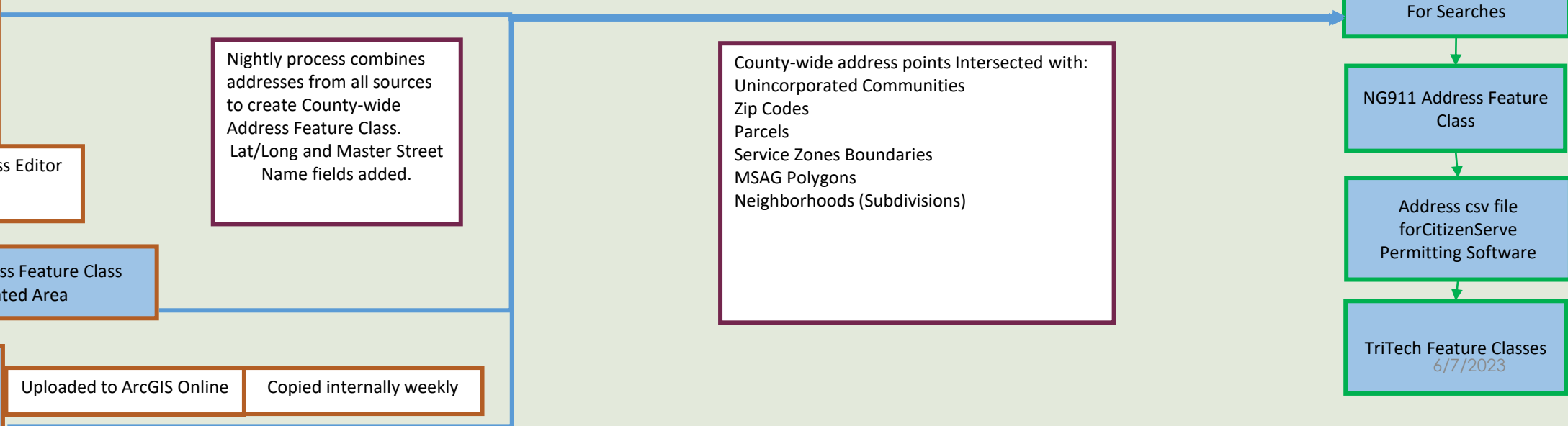
RESULT DATA

County-wide Address Feature Class
For Searches

NG911 Address Feature Class

Address csv file
forCitizenServe
Permitting Software

TriTech Feature Classes
6/7/2023



FINAL NG911 Address Fields

ADD_NUMBER	ADDNUM_SUF	L_ST_PREDIR	L_ST_NAME	L_ST_TYPE	L_ST_POSTDIR	ST_PREMOD	ST_PREDIR	ST_PRETYPE	ST_PRESEP	ST_NAME	ST_POSTYPE	ST_POSDIR	ST_POSMOD
2635	<Null>	S	ZUNI	CIR			SOUTH			ZUNI	CIRCLE		
2645	<Null>	S	ZUNI	CIR			SOUTH			ZUNI	CIRCLE		
2624	<Null>	S	ZUNI	CIR			SOUTH			ZUNI	CIRCLE		
4225	<Null>	E	ZUNI	CIR			EAST			ZUNI	CIRCLE		

BUILDING	FLOOR	UNIT	ADDTL_LOC	LANDMKNAME	MILE_POST	SOURCE	PLACEMENT	LONG	LAT	INC_MUNI	UNINC_COMM	NBRHD_COMM	ESN
<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	YAVAPAI COUNTY	<Null>	-111.987788	34.692406	UNINCORPORATED	<Null>	VERDE VILLAGE	1153
<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	YAVAPAI COUNTY	<Null>	-111.987677	34.692168	UNINCORPORATED	<Null>	VERDE VILLAGE	1153
<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	YAVAPAI COUNTY	<Null>	-111.988074	34.692545	UNINCORPORATED	<Null>	VERDE VILLAGE	1153
<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	YAVAPAI COUNTY	<Null>	-111.777207	34.631152	UNINCORPORATED	BEAVER CREEK	MONTEZUMA PARK	1204

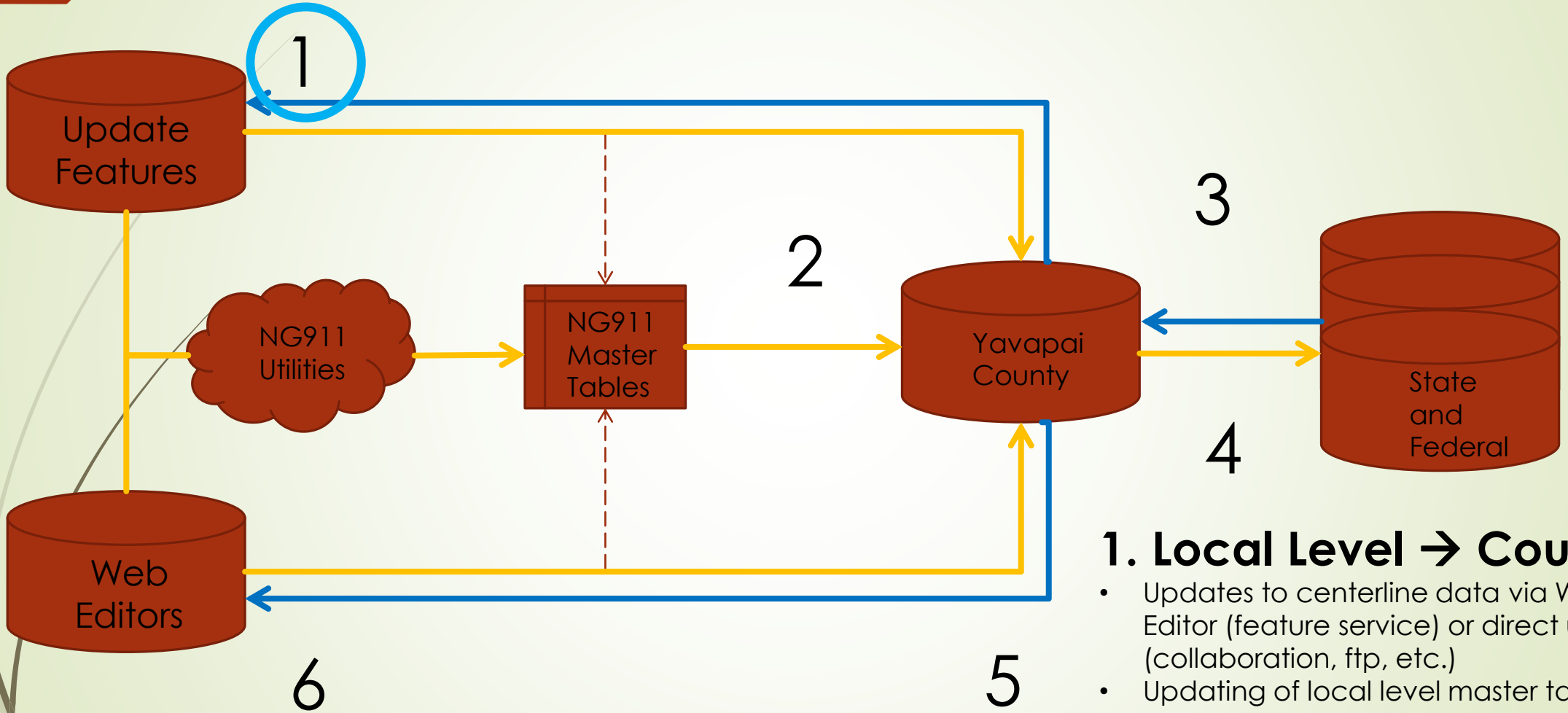
MSAGCOMM	POST_COMM	POST_CODE	COUNTRY	STATE	COUNTY	STREETNAME_NGUID	ADDR_NGGUID
COTTONWOOD	86326	COTTONWOOD	US	AZ	YAVAPAI COUNTY	NGYAV4197	YC8362
COTTONWOOD	86326	COTTONWOOD	US	AZ	YAVAPAI COUNTY	NGYAV4197	YC8412
COTTONWOOD	86326	COTTONWOOD	US	AZ	YAVAPAI COUNTY	NGYAV4197	YC8351
LAKE MONTEZUMA	86335	RIMROCK	US	AZ	YAVAPAI COUNTY	NGYAV1252	YC12720

SITE_NGGUID	CREATEBY	CREATEDATE	LASTUPDTBY	LASTUPDATED	FMERUNDATE
YC8362@yavapai911.AZ.GOV		11/1/2000		<Null>	20230329
YC8412@yavapai911.AZ.GOV		11/1/2000		<Null>	20230329
YC8351@yavapai911.AZ.GOV		11/1/2000		<Null>	20230329
2023 Yavapai County NG911 Meeting YC12720@yavapai911.AZ.GOV		11/1/2000	c06880	2/10/2020	20230329

County Workflow

15

Street Centerlines - Overview



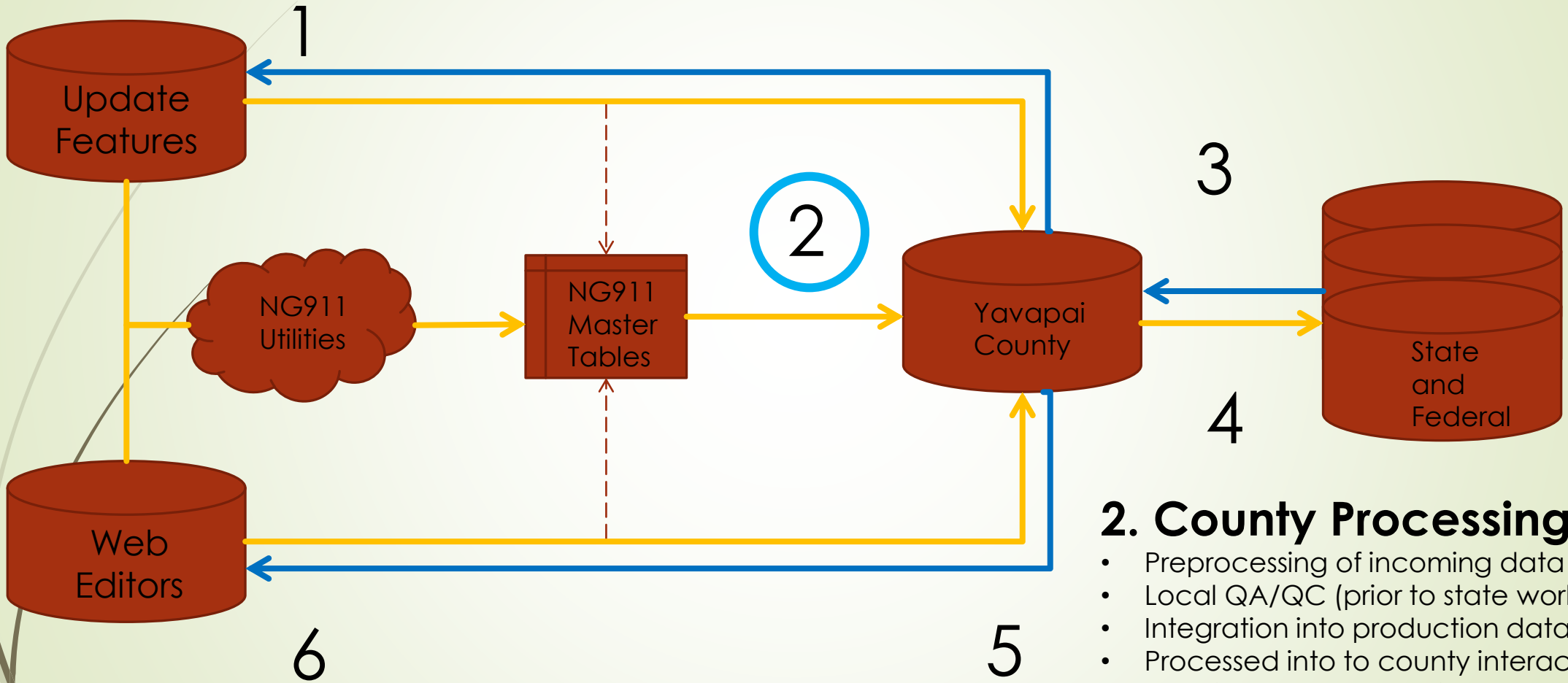
1. Local Level → County

- Updates to centerline data via Web Editor (feature service) or direct updates (collaboration, ftp, etc.)
- Updating of local level master table entries through utilities or preprocess update workflows (python/fme/etc)
- Local updates to NG911 validation ticketing system (via web utilities).

County Workflow

16

Street Centerlines - Overview



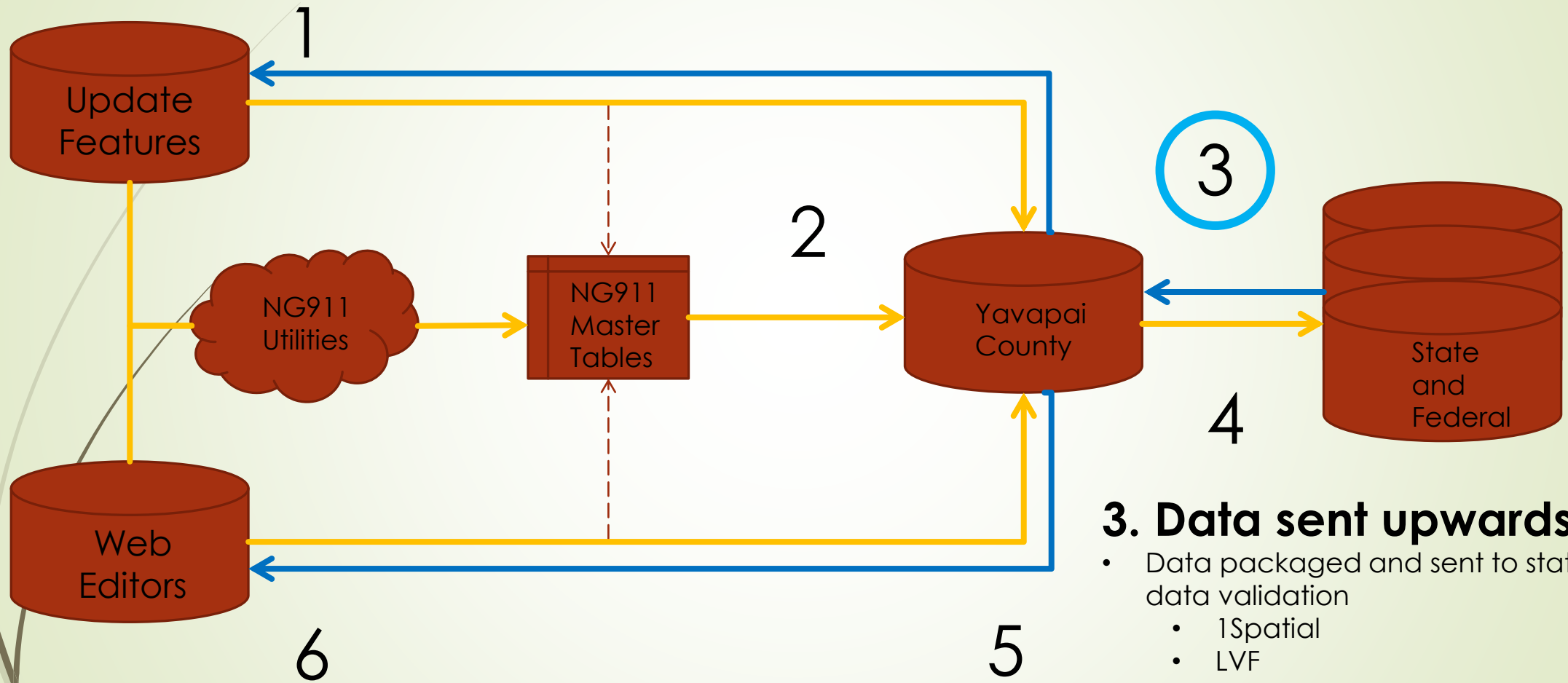
2. County Processing

- Preprocessing of incoming data
- Local QA/QC (prior to state workflow)
- Integration into production data
- Processed into county interactive website and other business tables

County Workflow

17

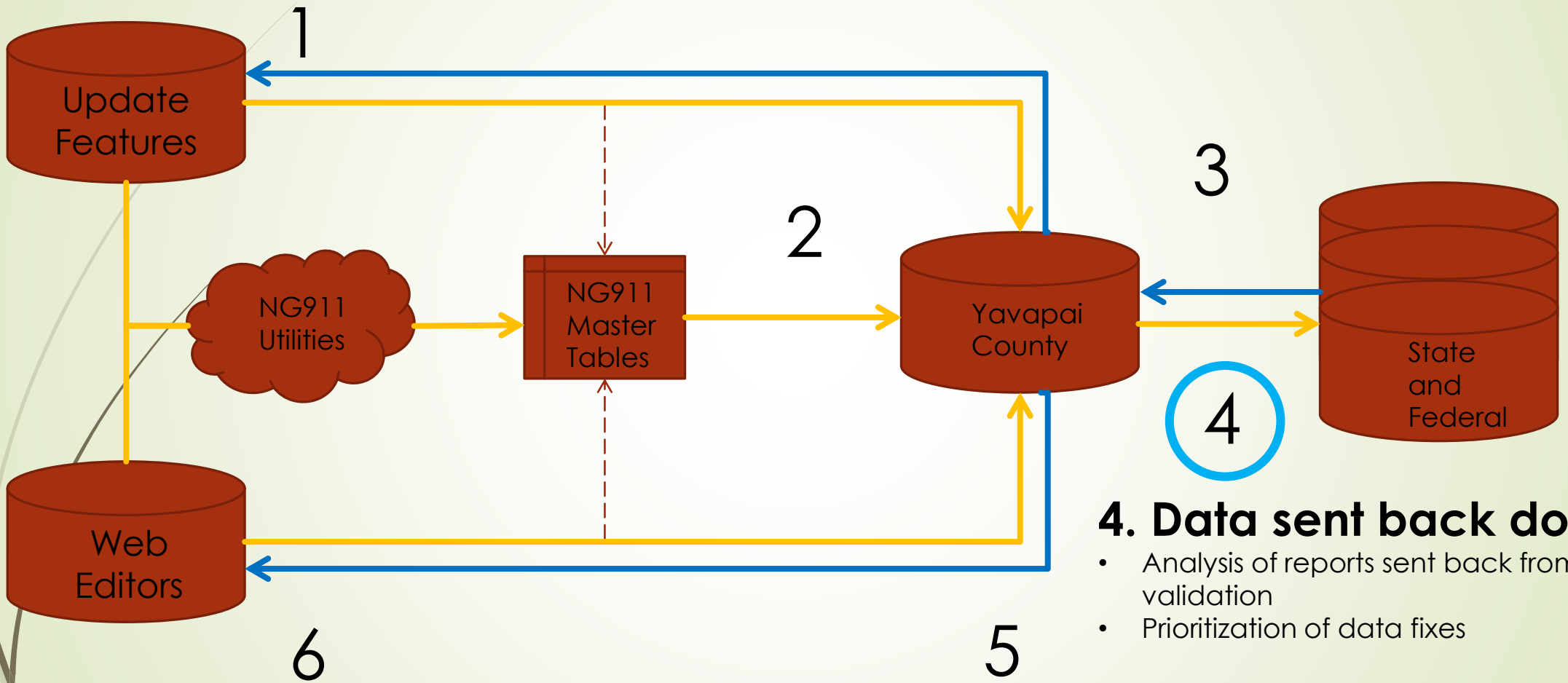
Street Centerlines - Overview



County Workflow

18

Street Centerlines - Overview



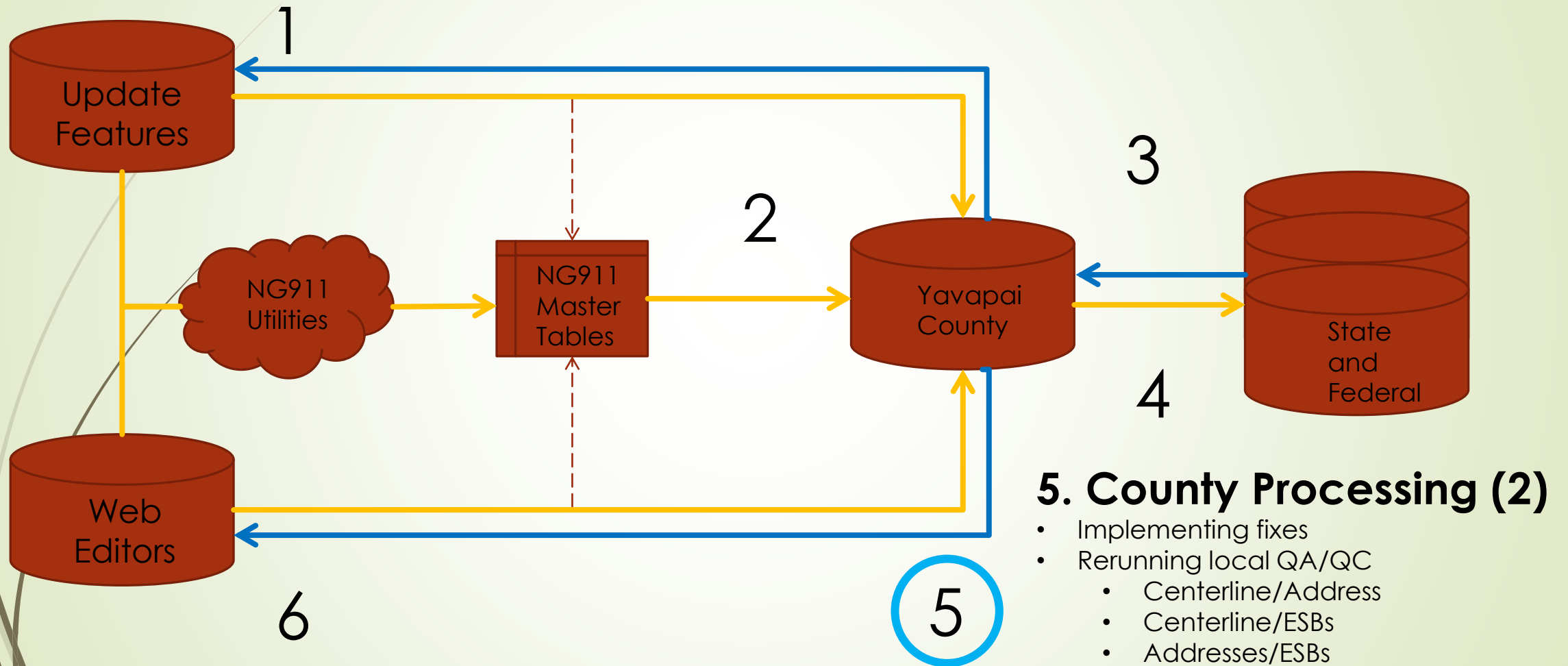
4. Data sent back down

- Analysis of reports sent back from state validation
- Prioritization of data fixes

County Workflow

19

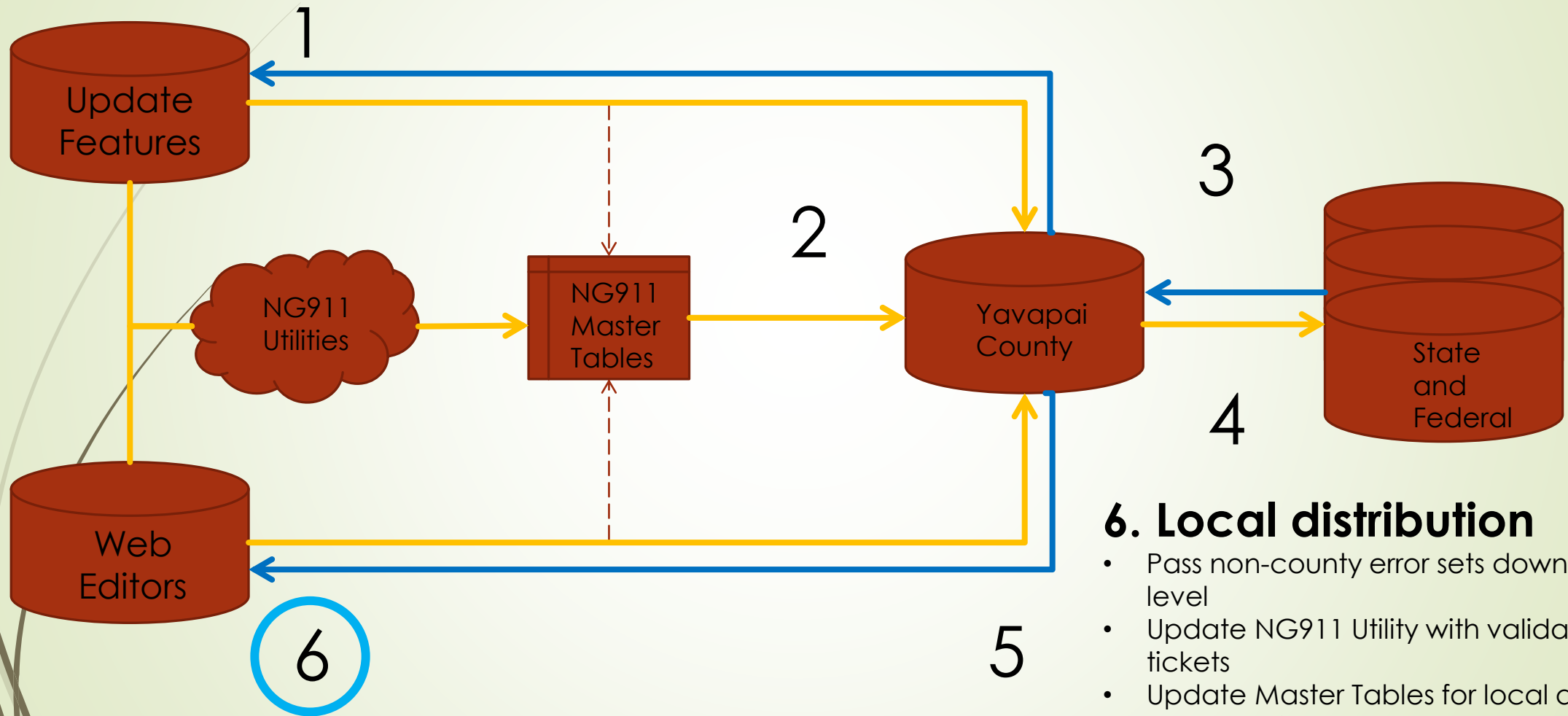
Street Centerlines - Overview



County Workflow

20

Street Centerlines - Overview



6. Local distribution

- Pass non-county error sets down to local level
- Update NG911 Utility with validation tickets
- Update Master Tables for local agency consumption

NG911 workflow (Master Tables)

- ▶ What's my part in the County's NG911 centerline workflow?

- ▶ Provide geometry and attribute updates as needed

- ▶ Via AGOL web editor provided by county

- ▶ Via data updates sent via collaboration, ftp, or other means

- ▶ Provide updates to Master Table where applicable

- ▶ **Inserting, Deactivating, or modifying entries applied to your community**

- ▶ **Active**

- ▶ Use County NG911 Utilities to update NG911 tables directly

- ▶ Use County NG911 Utilities to manage NG911 Validation tickets

- ▶ **Passive**

- ▶ Let county preprocessing workflows update master tables through change detection via centerline updates

*Note, both active and passive means are equally valid methods. Choose which method will work best for your agency.

- ▶ **Accurate Master tables will help ensure NG911 Street Name field integrity as county-wide updates (including your data) move upstream to the state and federal levels.**

County Workflow Boundaries Management

22

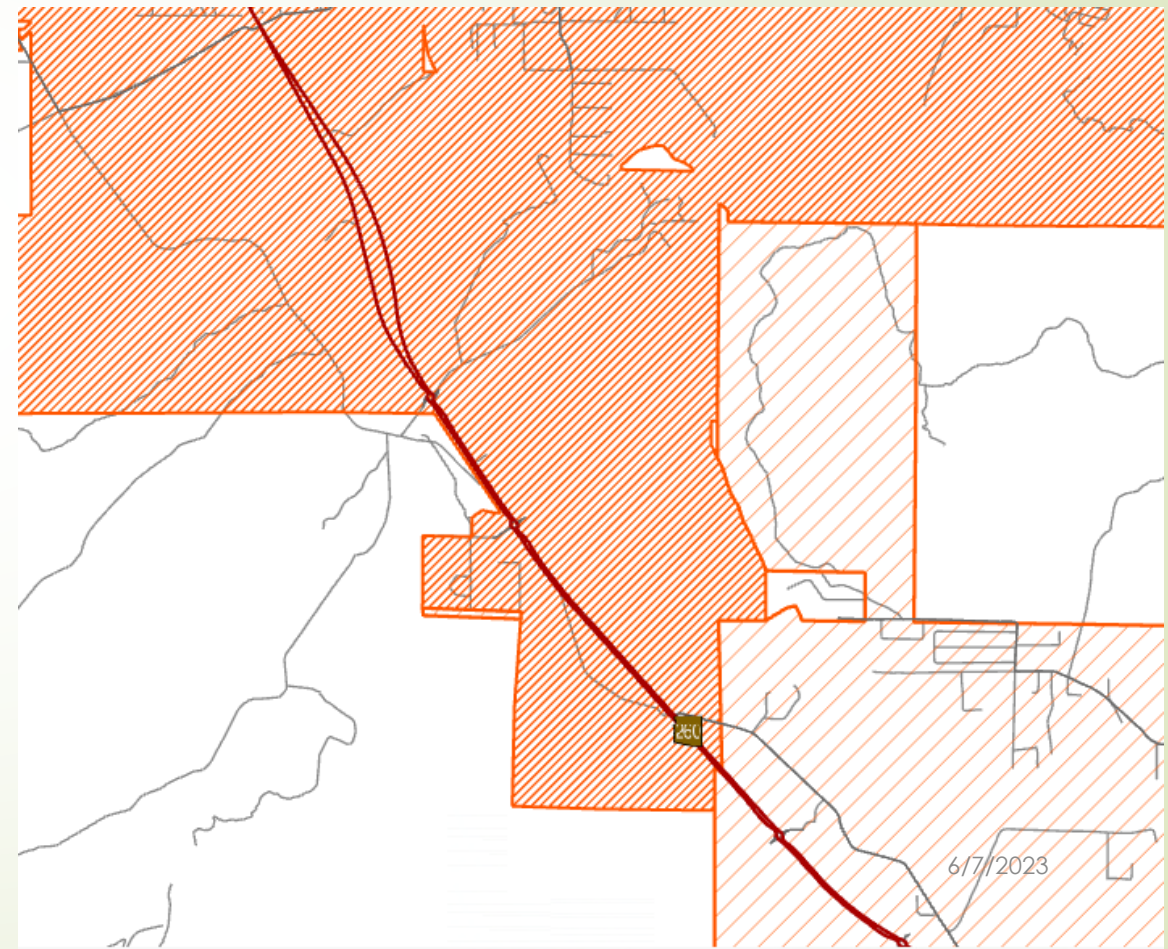
- County staff are watching and looking for Incorporated annexations, tax-able fire district annexations, changes to annual medical service areas from Arizona Department Health Services.
- County staff edit Public Safety Answer Point (PSAP) boundaries
- County staff update “Administrative Units”
 - A1 = “State/Province,”
 - A2 = “County or equivalent,”
 - A3 = “Incorporated Municipality,”
 - A4 = “Unincorporated Community,”
 - A5 = “Neighborhood Community”
- **Your assistance is requested** for being made aware of changes to your agency's boundaries.

6/7/2023

County Workflow Boundaries Management

23

- City Boundary + Fire taxable district boundaries + Medical Service provider boundary = 911 Service Boundaries



Wrap-up - Next meeting

24

- ❖ Things to remember:

- <https://az911.gov/overview-ng9-1-1-project>

- ❖ Next meeting potential topics August 2023
(Prescott?)