

UPDATES: GIS Coordination & Development Program

Summit Feedback

☐ Communication/Outreach

- Services
- Schemas
- Leadership
- Quarterly Cadence of Updates
- What data is where!

☐ Data Discovery

- Metadata
- Google Search
- Improve discoverability of data on CIM

☐ Data improvements

- Expand coverage
- Efficient workflows
- Improve/Test Quality of data

Plan for FY17

Improvement Opportunity	Category	Timeframe	Priority
Develop and deploy COnfluence	Data Discovery	Q2 FY17	High
Develop methods for measuring and describing data coverage	Data Acquisition and Production	Q1 FY17	High
Document schema & cadence for data production	Data Acquisition and Production	Q2 FY17	High
Improve communications on progress and processes	Outreach	Ongoing	High
Make semi-annual data call	Outreach	Jan & June	High
Redesign and deploy hardware architecture	Infrastructure	Jan 2017	High
Redesign and deploy database architecture	Infrastructure	Jan 2017	High
Develop metadata standard for effective data discovery	Data Discovery	EOFY	Medium
Improve data discovery in Socrata (CIM)	Data Discovery	EOFY	Medium
Ensure state data assets are discoverable	Data Discovery	Q2 FY17	Medium
Develop methods and metrics for measuring and describing data quality	Data Acquisition and Production	EOFY	Medium
Develop metadata for description of data quality and use	Data Acquisition and Production	Q3 FY17	Medium
Investigate field data collection to recommend solutions	Data Acquisition and Production	EOFY	Medium
Improve GeoData Cache site	Data Acquisition and Production	EOFY	Medium
"Market" products and services with use cases and examples of how data and services can be used	Outreach	Q3 FY17	Medium
Communicate current app development & hosting and future opportunities	Outreach	Q3 FY17	Medium

Outreach & Coordination

- ☒ Quarterly Calls
- ☒ Invite State Agencies/Other Groups to speak
- ☐ Publish Action Plan for FY 2016-2017
- ☒ NE Counties meeting
- ☒ Sedgwick County Assistance
- ☐ Next Call Feb 1, 2017

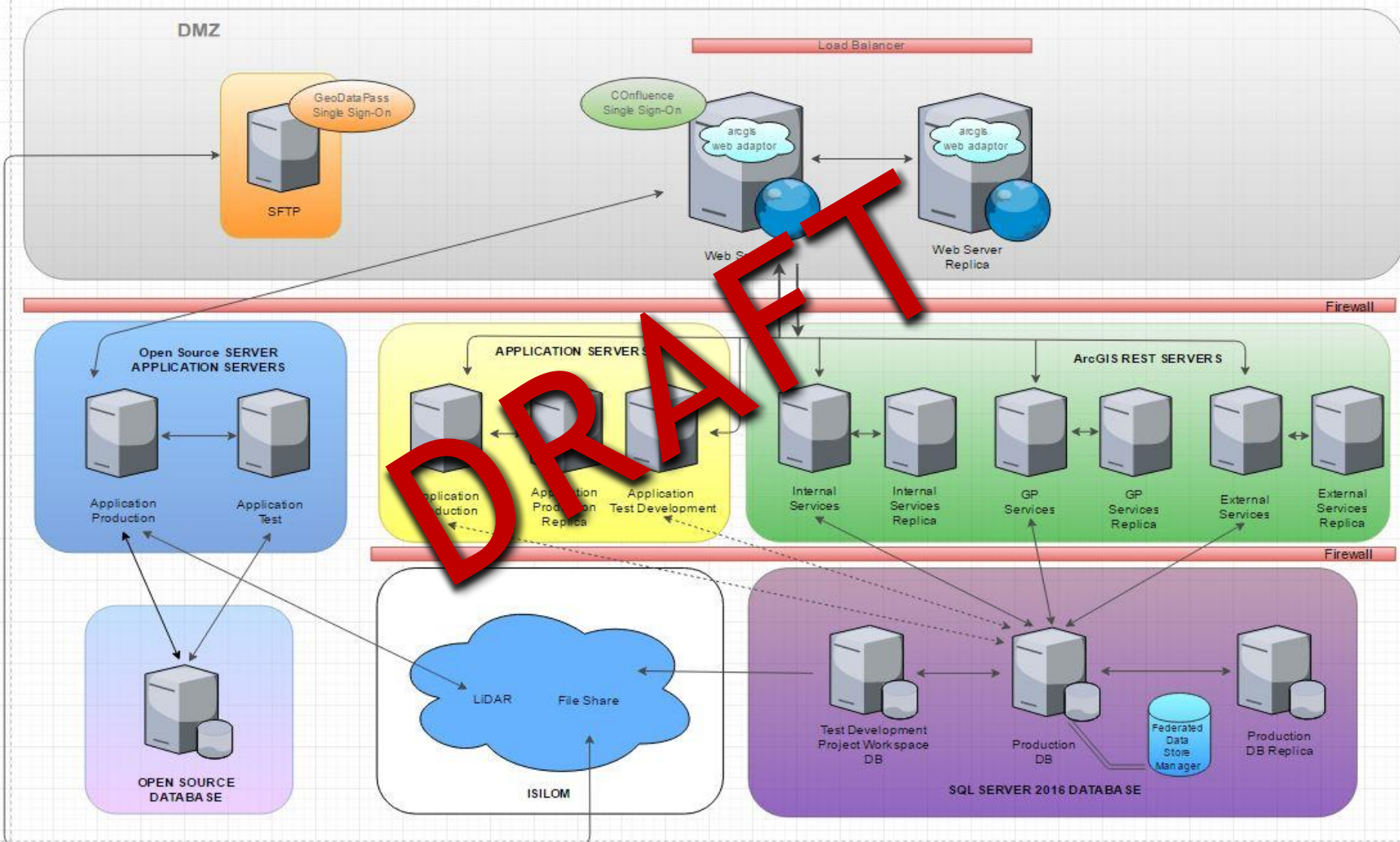
Data Discovery

- ☐ Ensure state data assets are discoverable
- ☐ GIS data governance (metadata)
- ☐ Data inventory
- ☐ Develop & deploy Confluence - Single Sign-On

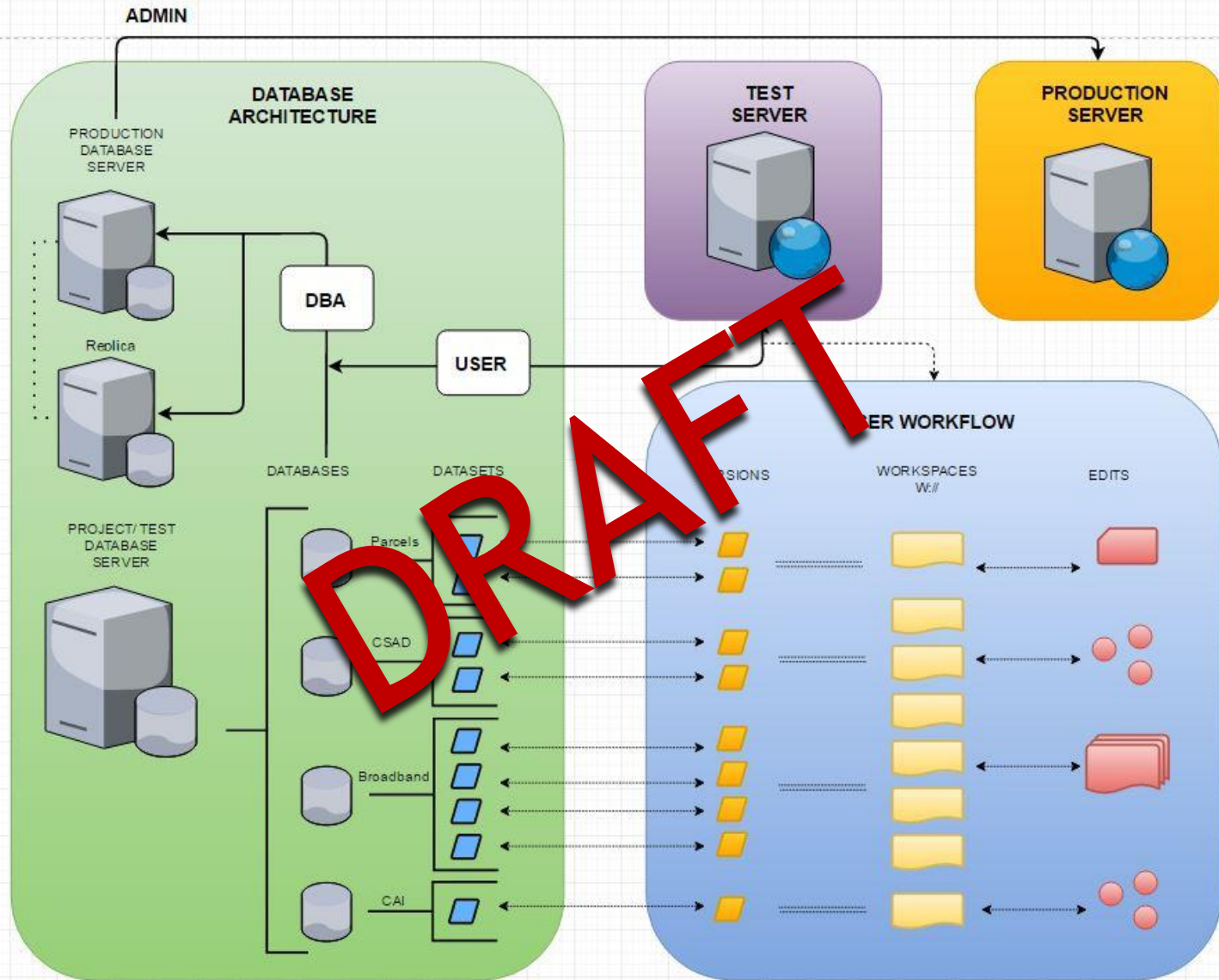
Infrastructure

- ☐ Redesign and deploy server infrastructure
- ☐ Redesign and deploy database architecture

Redesign & Deploy HW Architecture



Redesign & Deploy DB Architecture



Data Acquisition & Production

- ☒ Publish data schema
- ☒ Publish production cadence
- ☐ Semi-Annual data call

Address Schema

FieldName:	Format:	Length:	Description:	Example:
<i>SAUID</i>	text	20	State Assigned Unique ID	001-001906-0032563
<i>PlaceID</i>	long integer		Used by post office to identify addresses	17
<i>Longitude</i>	double		Latitude coordinate of address	-104.9283783
<i>Latitude</i>	double		Longitude coordinate of address	39.292827
<i>AddrNum</i>	text	10	Address street number	10456
<i>NumSuf</i>	text	5	Letter following street number	10456A
<i>PreDir</i>	text	5	Direction proceeding street name	North
<i>PreType</i>	text	10	Pre identifier for street use	HWY, CR
<i>StreetName</i>	text	50	Name of the street	109th, Colfax
<i>PostType</i>	text	10	Type of street	Avenue, Road, Street
<i>PostDir</i>	text	5	Direction falling after post type	West, East, North, South
<i>UnitType</i>	text	10	Description of Unit	Bldg, Unit
<i>UnitNumber</i>	text	10	Identifier for the unit or building subaddress	B, 9, A1
<i>AddrFull</i>	text	255	Concatenated one line address without spaces	10456North109thAvenuestBldgB
<i>PlaceName</i>	text	50	City of Municipality of address	Denver, Golden, Hotchkiss
<i>Zipcode</i>	double	5	Five digit postal code	80021
<i>IsCAI</i>	text	1	Identifies whether the address is a CAI	Y / N
<i>ParcelID</i>	text	10	The local parcel number for the parcel record.	
<i>MOD_DATE</i>	date	10	Data of last modification in processing	7/21/2016
<i>ACT_STAT</i>	text	10	Address activity status	ACTIVE / INACTIVE
<i>PROD_STAT</i>	text	20	Processing step last executed on address	MODIFY ATTRIBUTE

CAI Schema

FieldName:	Type:	Length:	Description	Example
<i>Latitude</i>	Double		Latitude coordinate of CAI point location	40.072534
<i>Longitude</i>	Double		Longitude coordinate of CAI point location	-106.104369
<i>AddressNumber</i>	Long		Numerical value of street address number for CAI location	1625
<i>NumberSuffix</i>	String	10	Suffix of address number value	B
<i>StreetPreDirectional</i>	String	10	Directional attribution in address when it appears prior to street name	West
<i>StreetPreType</i>	String	20	Pre-descriptor of numerical road names - see example	County Road, US Highway, etc
<i>StreetName</i>	String	100	Name of street in street address of CAI location	Maplewood
<i>StreetPostType</i>	String	20	Type designation of roadway - see example	Avenue
<i>StreetPostDirectional</i>	String	10	Directional attribution in address when it appears after the street name	South
<i>StreetAddress</i>	String	100	Concatenated address of CAI non-inclusive of city, state, and zip code	395 North 5th Street West
<i>PlaceName</i>	String	100	City in which CAI is located	Denver
<i>Zip5</i>	String	5	Zip code of CAI address	80014
<i>OITIndex</i>	Short		Unique identifier and primary key for CAI dataset	5849
<i>AnchorName</i>	String	255	Full name of CAI location	Red Hawk Ridge Elementary School
<i>FullAddress</i>	String	255	Concatenated address of CAI inclusive of all attributes	80010
<i>SubAddress</i>	String	50	Entry point level designations - see example	Suite 421
<i>Intersection</i>	String	200	Intersection where a CAI is located, used when a numbered street address is unavailable	Smith Street and Maple Avenue
<i>District</i>	String	100	district name	Windsor Re-4
<i>County</i>	String	50	County in which the CAI is located	Jefferson
<i>State</i>	String	2	State in which the CAI is located	CO
<i>Zip4</i>	String	4	Four digit zip code extension in which the CAI resides if available	1374
<i>URL</i>	String	255	Internet address of the CAI if a website is available	http://www.sun.ccsd.k12.co.us
<i>CAICategory</i>	String	1	CAI category code	4
<i>LBCSCode</i>	Short		Land Based Classification Standards code	4110
<i>FullCensusBlockID</i>	String	15	Full census block identification number of census block in which CAI is located	80010094061006
<i>BBSservice</i>	String	1	Is broadband service available at CAI location Yes/No	Yes
<i>PublicWiFi</i>	String	1	Is public Wi-Fi available at CAI location Yes/No	No
<i>Contact</i>	String	100	Name of contact person at CAI location	Allen Iverson
<i>Phone</i>	String	15	Phone number of CAI location	249-965-6345
<i>Email</i>	String	255	Email address of contact person or administration	and1@sixers.com
<i>FullZipCode</i>	String	10	Concatenated zip code value inclusive of both 5 and 4 digit values	80466-1374
<i>Action</i>	String	255	What type of edit / action was made upon the CAI point by local stakeholder	Changed Address
<i>What</i>	String	255	Description of edit or action made on the CAI point by local stakeholder	"502"
<i>Checked2016</i>	Short		Has the CAI been checked for current calendar year	Yes

Parcel Schema

FieldName:	Format:	Length:	Description	Example:
<i>FID</i>				
<i>OBJECTID</i>				
<i>sauld</i>	<i>text</i>	254	State Assigned Unique ID (County FIPS code + sequential #)	019-1
<i>situsAdd</i>	<i>text</i>	75	Location address number, street, and suffix.	11111 Your LN
<i>sitAddCty</i>	<i>text</i>	254	Location address city.	Empire
<i>sitAddZip</i>	<i>text</i>	254	Location address zip code.	80438
<i>parcel_id</i>	<i>text</i>	254	The local parcel number for the parcel record.	varies by county
<i>sharing</i>	<i>text</i>	50	Who this data can be made available to.	Public
<i>countyName</i>	<i>text</i>	254	The county name	Clear Creek
<i>countyFips</i>	<i>text</i>	254	FIPS code is the Federal Information Processing Standard	019
<i>owner</i>	<i>text</i>	225	The primary surface owner name.	Rich N. Gold
<i>owner2</i>	<i>text</i>	225	secondary surface owner name.	Bob B. Broke
<i>ownerAdd</i>	<i>text</i>	254	Owner Mailing Address number, street, and suffix.	999 Needajob RD
<i>ownAddCty</i>	<i>text</i>	254	Owner Mailing Address city.	Cheyenne
<i>ownAddStt</i>	<i>text</i>	254	Owner Mailing Address state.	WY
<i>ownAddZip</i>	<i>text</i>	254	Owner Mailing Address zip code.	82001
<i>legalDesc</i>	<i>text</i>	254	The full tax legal description.	LOT 5 BLK 3 Crymeariver FIL NO 4 SEC 30 1S 1E
<i>landSqft</i>	<i>text</i>	254	Total parcel square footage.	87000.305
<i>block</i>	<i>text</i>	254	The block in which the lot is located	3
<i>lot</i>	<i>text</i>	254	The individual lot	5
<i>subCode</i>	<i>text</i>	254	The code for the subdivision or condo that the parcel is in.	24124
<i>subName</i>	<i>text</i>	250	The name of the subdivision or condo that the parcel is in.	WILLOWBRIAR PUD
<i>zoningCode</i>	<i>text</i>	254	Legal zoning code.	R-R
<i>zoningDesc</i>	<i>text</i>	254	Legal zoning description.	Residential
<i>landUseCde</i>	<i>text</i>	254	A code for the tax lot's land use category	SFR
<i>landUseDsc</i>	<i>text</i>	254	A description for the tax lot's land use category.	Residential Single Family
<i>saleDate</i>	<i>text</i>	254	Date of the most recent sale of the parcel.	9/9/1999
<i>salePrice</i>	<i>text</i>	254	Price at the most recent sale of the parcel.	11536800
<i>apprValTot</i>	<i>text</i>	254	Total value of the parcel.	242196
<i>asedValTot</i>	<i>text</i>	254	Total dollar value assigned to the land for purposes of measuring applicable taxes.	19280
<i>dateReceiv</i>	<i>text</i>	30	Month & Year the data was received by OIT-GIS	2016

Production Cadence

Semi-Annual Data Cycle Cadence - Calendar Year		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Data Call													
Phase 1													
Broadband	Jan 1 - Feb 28												
Parcels	Jan 1 - Feb 28												
Addresses	Jan 1 - Feb 28												
CAI's	Jan 1 - Feb 28												
Phase 2													
Broadband	Jul 1 - Aug 31												
Parcels	Jul 1 - Aug 31												
Addresses	Jul 1 - Aug 31												
CAI's	Jul 1 - Aug 31												
Receive Data													
Phase 1													
Broadband	Jan 1 - Feb 28												
Parcels	Jan 1 - Feb 28												
Addresses	Jan 1 - Feb 28												
CAI's	Jan 1 - Feb 28												
Phase 2													
Broadband	Jul 1 - Aug 31												
Parcels	Jul 1 - Aug 31												
Addresses	Jul 1 - Aug 31												
CAI's	Jul 1 - Aug 31												
Process Data													
Phase 1													
Broadband	Jan 1 - Mar 31												
Parcels	Jan 1 - Apr 30												
Addresses	Jan 1 - Apr 30												
CAI's	Jan 1 - Apr 30												
Phase 2													
Broadband	Jul 1 - Sep 30												
Parcels	Jul 1 - Oct 31												
Addresses	Jul 1 - Oct 31												
CAI's	Jul 1 - Oct 31												
Publish/Product													
Phase 1													
Broadband	Apr 1 - Apr 30												
Parcels	May 1 - May 31												
Addresses	May 1 - May 31												
CAI's	May 1 - May 31												
Phase 2													
Broadband	Oct 1 - Oct 31												
Parcels	Nov 1 - Nov 30												
Addresses	Nov 1 - Nov 30												
CAI's	Nov 1 - Nov 30												
Prep/Process													
Phase 1													
Broadband	May 1 - Jun 30												
Parcels	Jun 1 - Jun 30												
Addresses	Jun 1 - Jun 30												
CAI's	Jun 1 - Jun 30												
Phase 2													
Broadband	Nov 1 - Dec 31												
Parcels	Dec 1 - Dec 31												
Addresses	Dec 1 - Dec 31												
CAI's	Dec 1 - Dec 31												

Current Staffing

Senior GIS Analyst	Senior GIS Analyst	Senior GIS Analyst	GIS Technician	GIS Technician	GIS Technician	Senior GIS Analyst	GIS Analyst
Windy Fischer	Kass Rezagholi	Jim Snyder	Tudor Stanescu	Tony Filipiak	Brent Seiferd	TBD	TBD
<ul style="list-style-type: none"> - Maintain enterprise and OIT spatial databases - Lead statewide address file stewardship -Support CO resiliency work - Assist with application development 	<ul style="list-style-type: none"> - Lead broadband data processing - Develop and maintain GIS applications for state agencies and OIT - Support web services 	<ul style="list-style-type: none"> Project and operational management - Outreach Coordination - Parcel data primary steward - Support economic development -Manage updates of big data to GeoData Cache - Support emergency management 	<ul style="list-style-type: none"> - Process broadband data - CAI data primary steward - Other data processing and analysis duties as necessary for broadband data development 	<ul style="list-style-type: none"> -Collect and process broadband data - Parcel data secondary steward - Other data processing and analysis duties as assigned 	<ul style="list-style-type: none"> - Collect and process broadband data - Other data processing and analysis duties as assigned 	<ul style="list-style-type: none"> - Maintain GIS servers and server software and versions - Administer web services - Manage FTP site access - Contribute to trails data stewardship 	<ul style="list-style-type: none"> - Co-lead statewide parcel data stewardship -Outreach to and collection of data from local and state entities - Assist in coordination of other enterprise data

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