Editing Multi-user Geodatabases : An Introduction

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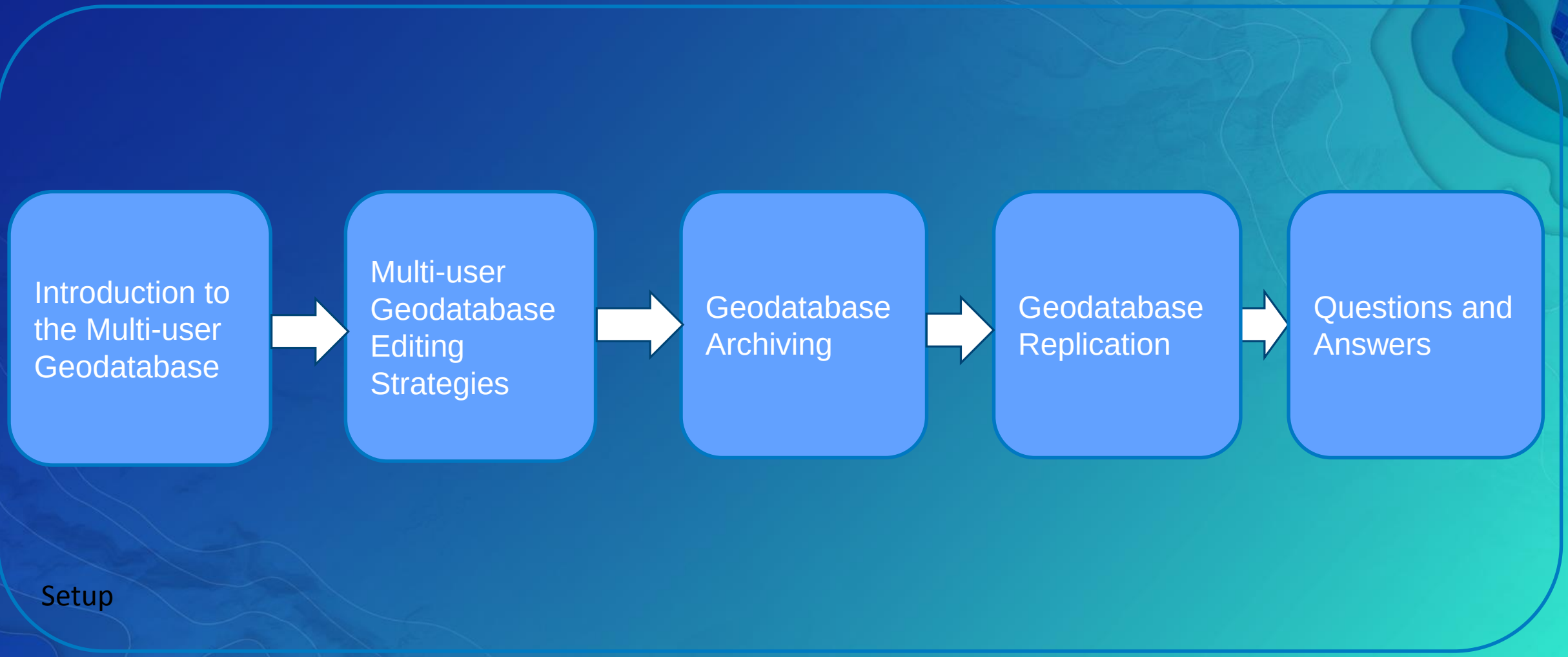
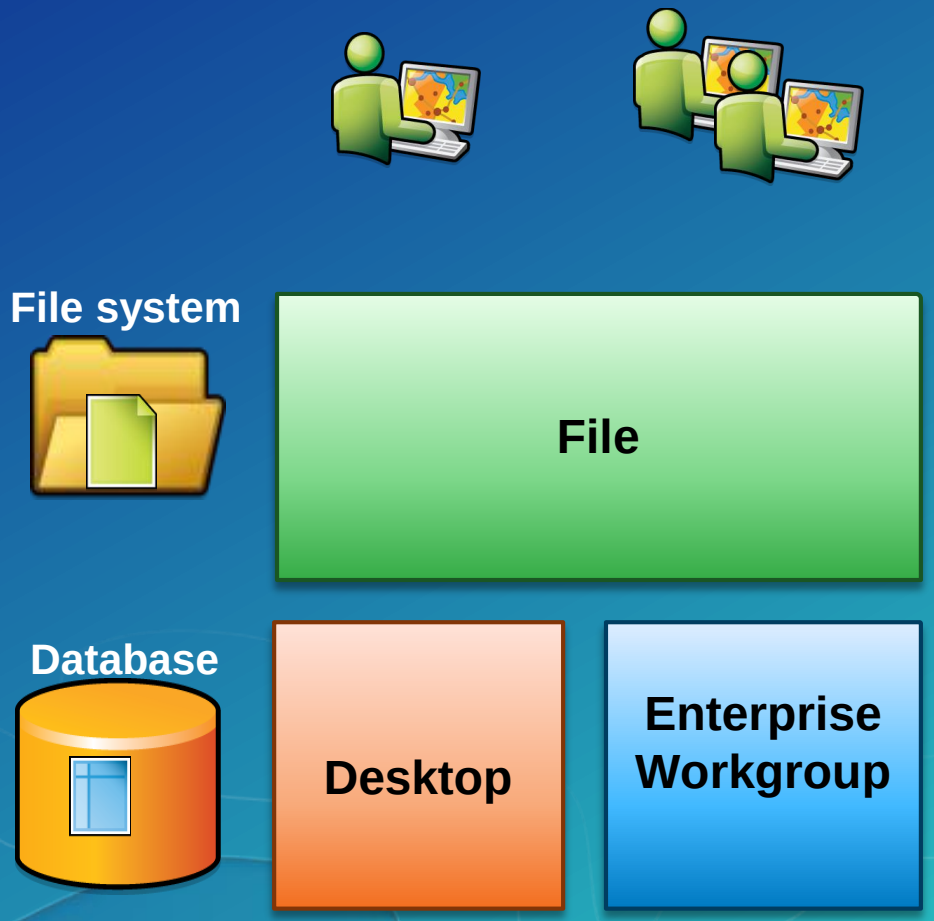
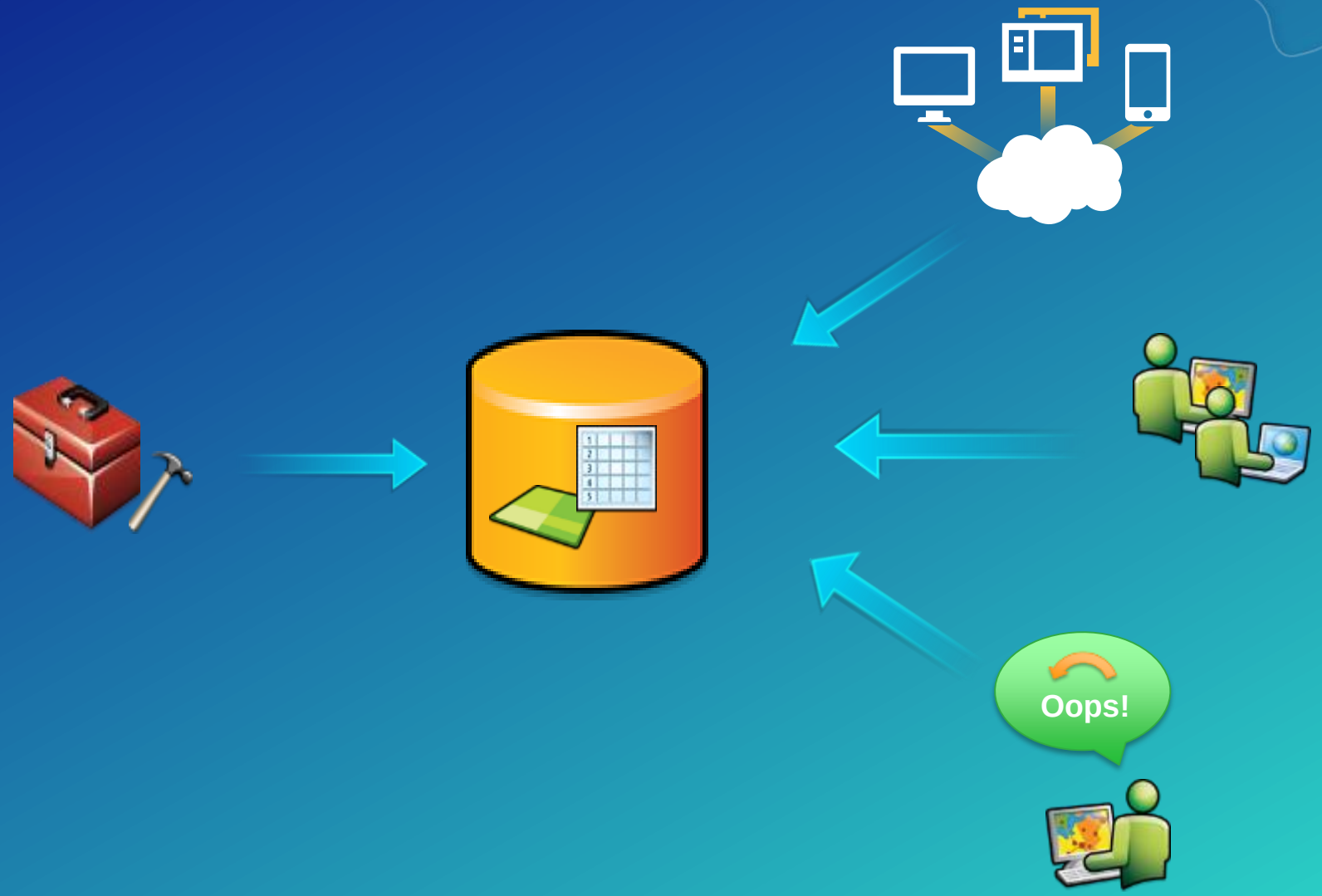
Overview


Introduction to the Multi-user Geodatabase
Multi-user Geodatabase Editing Strategies
Geodatabase Archiving
Geodatabase Replication
Questions and Answers
Setup

Types of Geodatabases

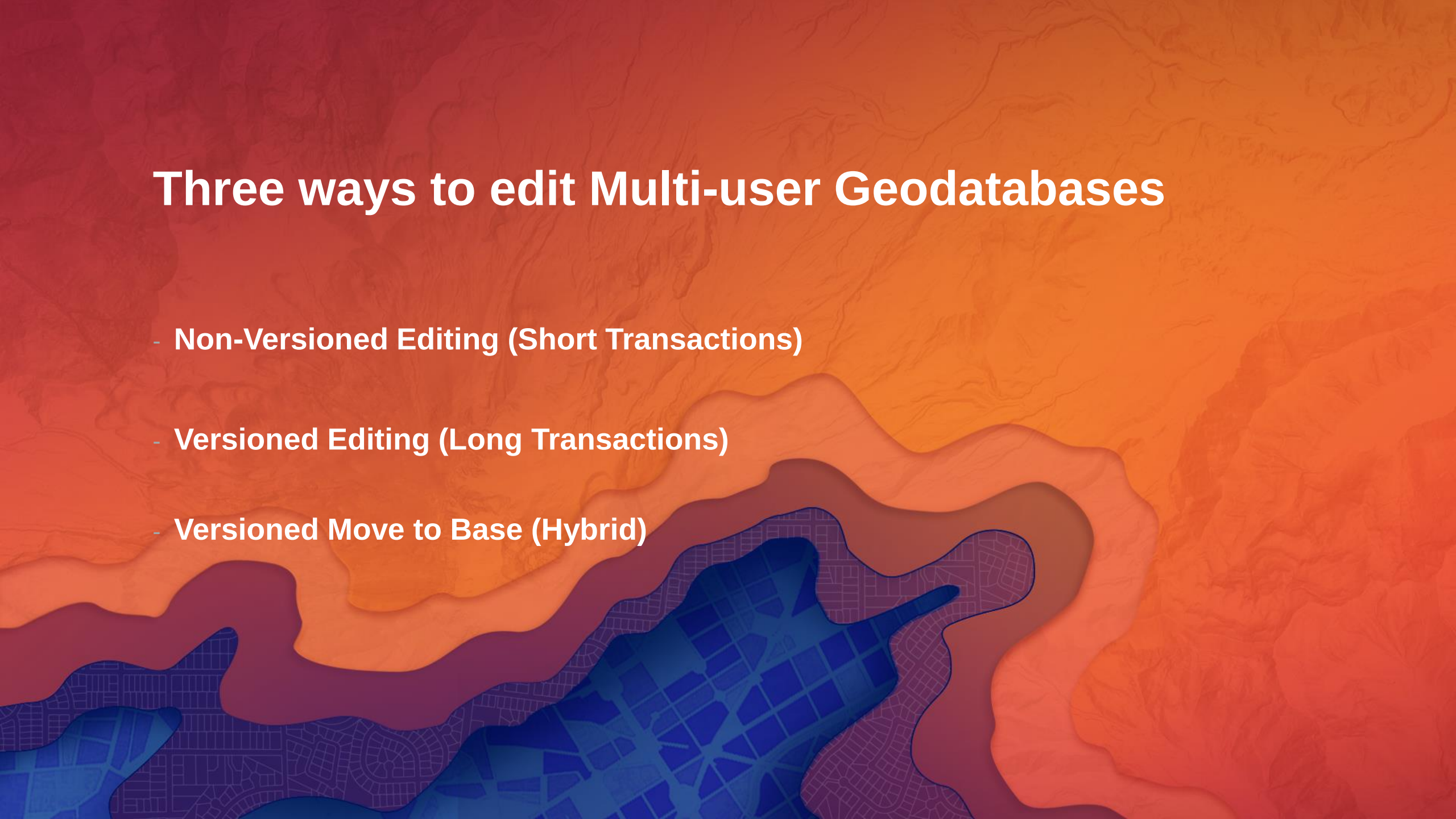


Multi-user Geodatabase Data Management



Three ways to edit Multi-user Geodatabases

- Non-Versioned Editing (Short Transactions)
- Versioned Editing (Long Transactions)
- Versioned Move to Base (Hybrid)



Three ways to edit Multi-user Geodatabases

- Non-Versioned Editing (Short Transactions)
- Versioned Editing (Long Transactions)
- Versioned Move to Base (Hybrid)

Non-Versioned Editing

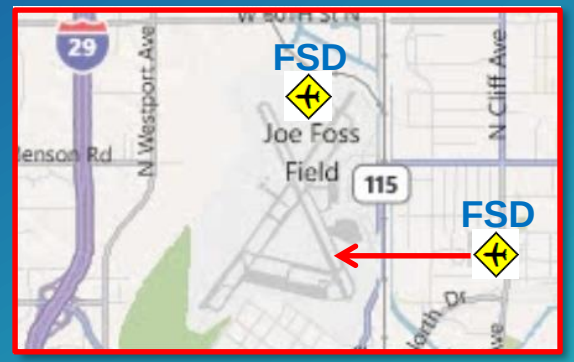
- Directly editing the base tables
- Benefits IT integration
- Database integrity rules
- Simple data only (Points, Lines, Polygons)

Base Table Airports

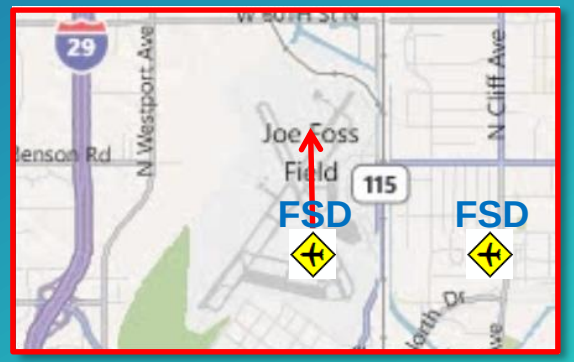
ANDREW → | ObectID | Shape | Code | ← OLIVIA

ObectID	Shape	Code
1	1	
2	2	FSD
3	3	MSN

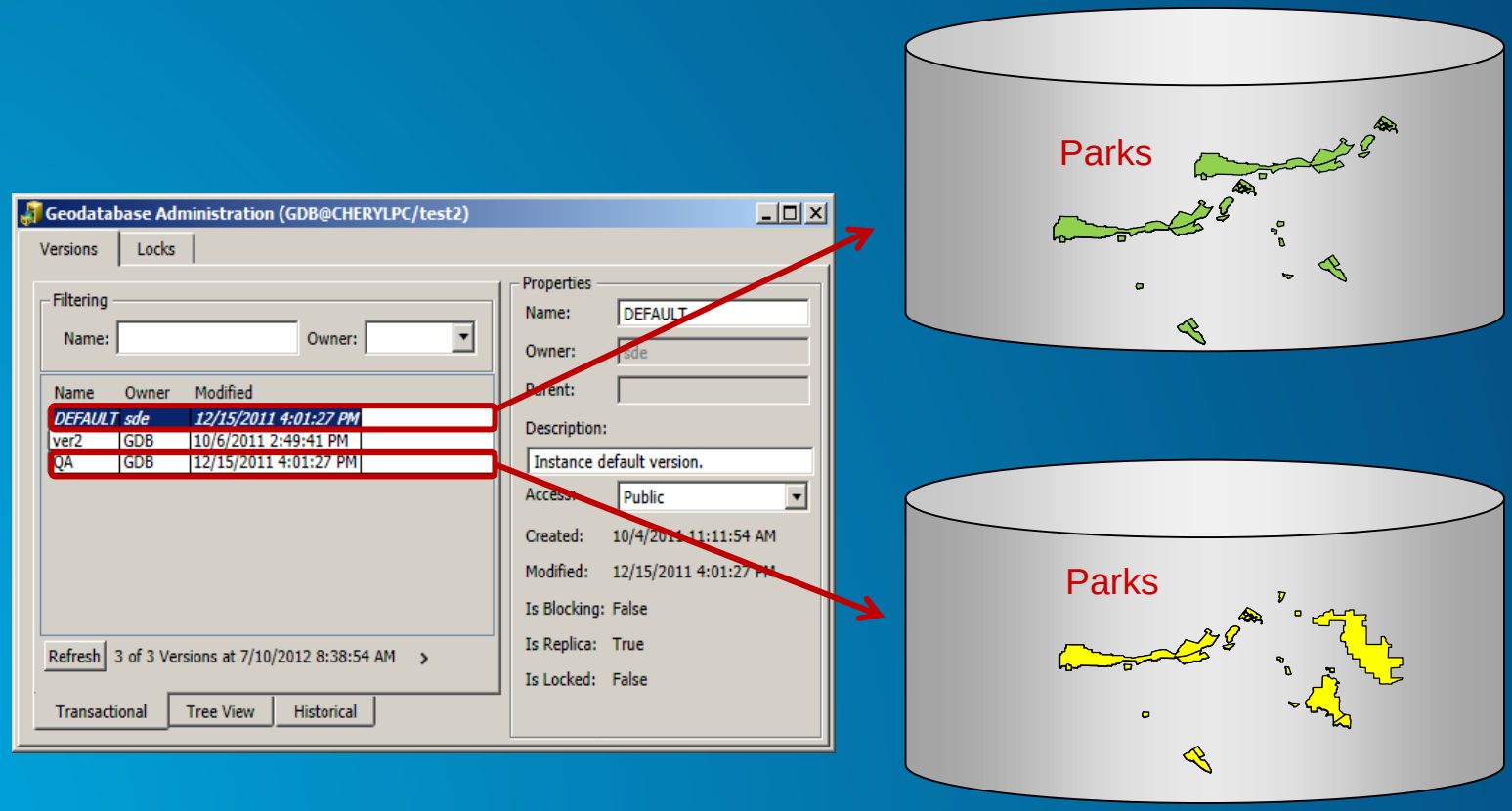
ANDREW



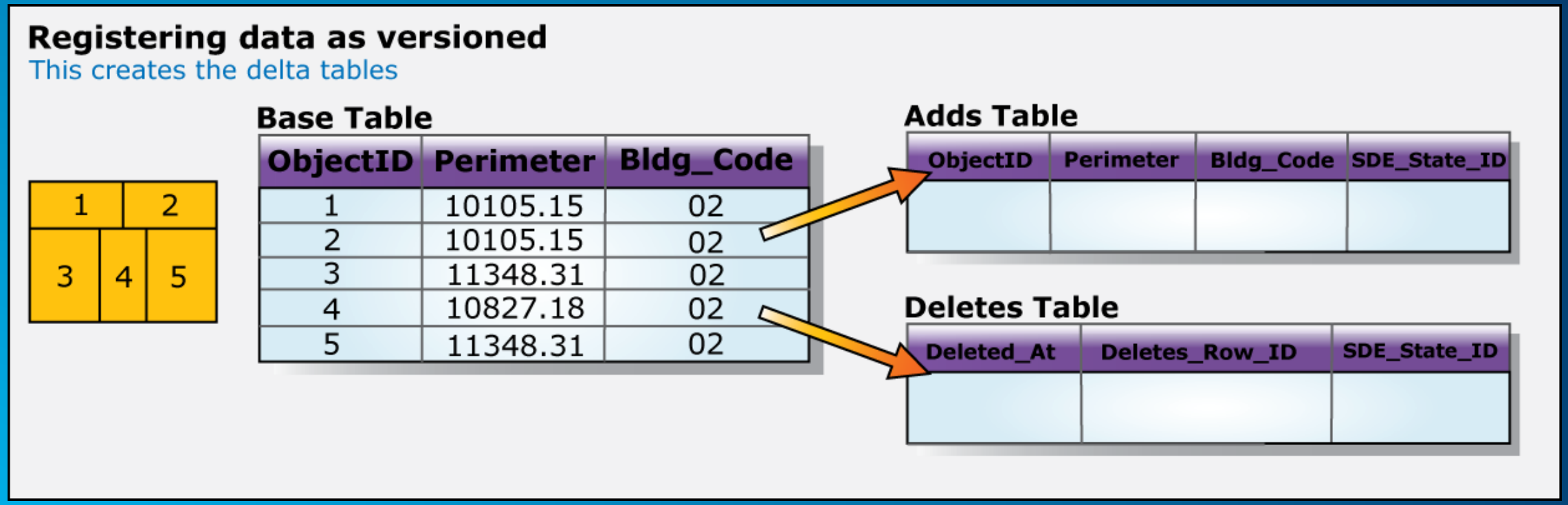
OLIVIA



Versioning

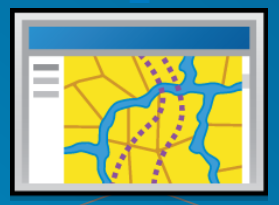

Geodatabase Administration (GDB@CHERYLPC/test2)
Versions
Locks
Filtering
Name:
Owner:
Name Owner Modified
DEFAULT sde 12/15/2011 4:01:27 PM
ver2 GDB 10/6/2011 2:49:41 PM
QA GDB 12/15/2011 4:01:27 PM
Refresh
3 of 3 Versions at 7/10/2012 8:38:54 AM
Transactional
Tree View
Historical
Properties
Name: DEFAULT
Owner: sde
Parent:
Description:
Instance default version.
Access: Public
Created: 10/4/2011 11:11:54 AM
Modified: 12/15/2011 4:01:27 PM
Is Blocking: False
Is Replica: True
Is Locked: False
Parks
Parks

Versioning: How it Works

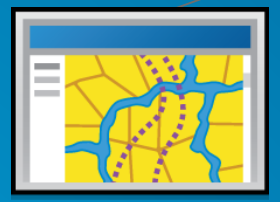


Defining a version

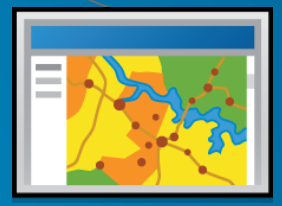
SDE.DEFAULT
1 – Public



WADE.PLANNING
1 – Public



EMMA.QAQC
2 – Protected

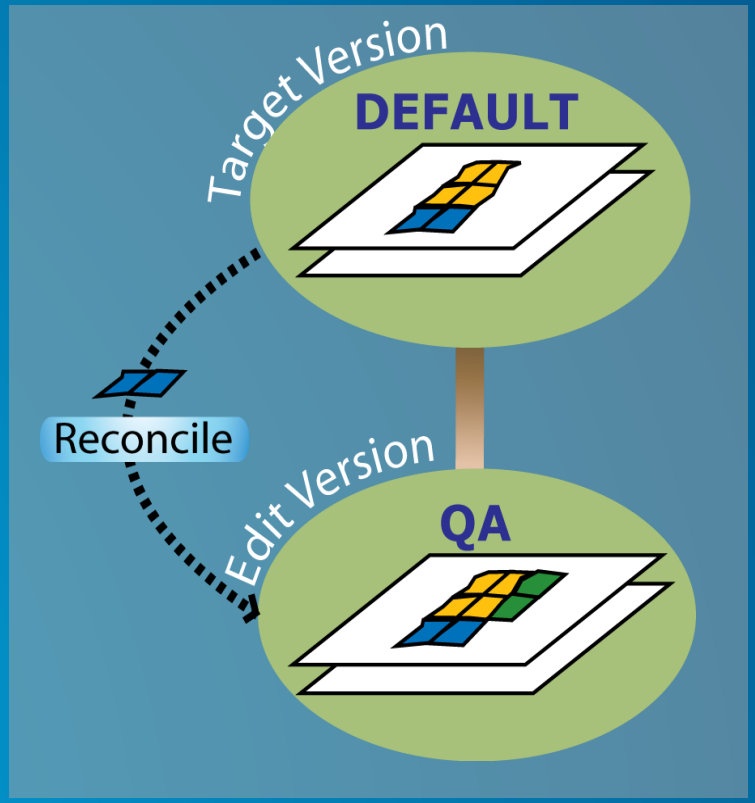


RICK.RICK
0 – Private

Versioned Editing Demo

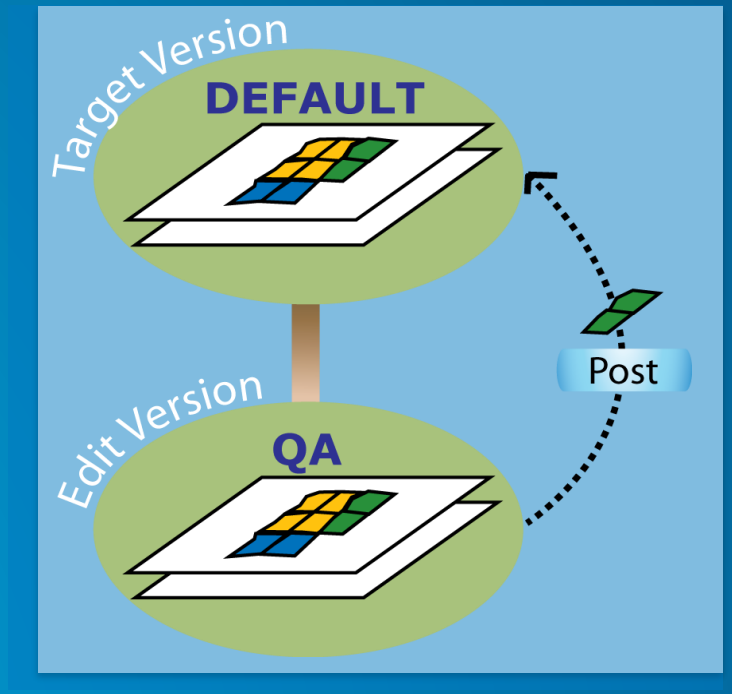
Versioned Editing – Reconcile

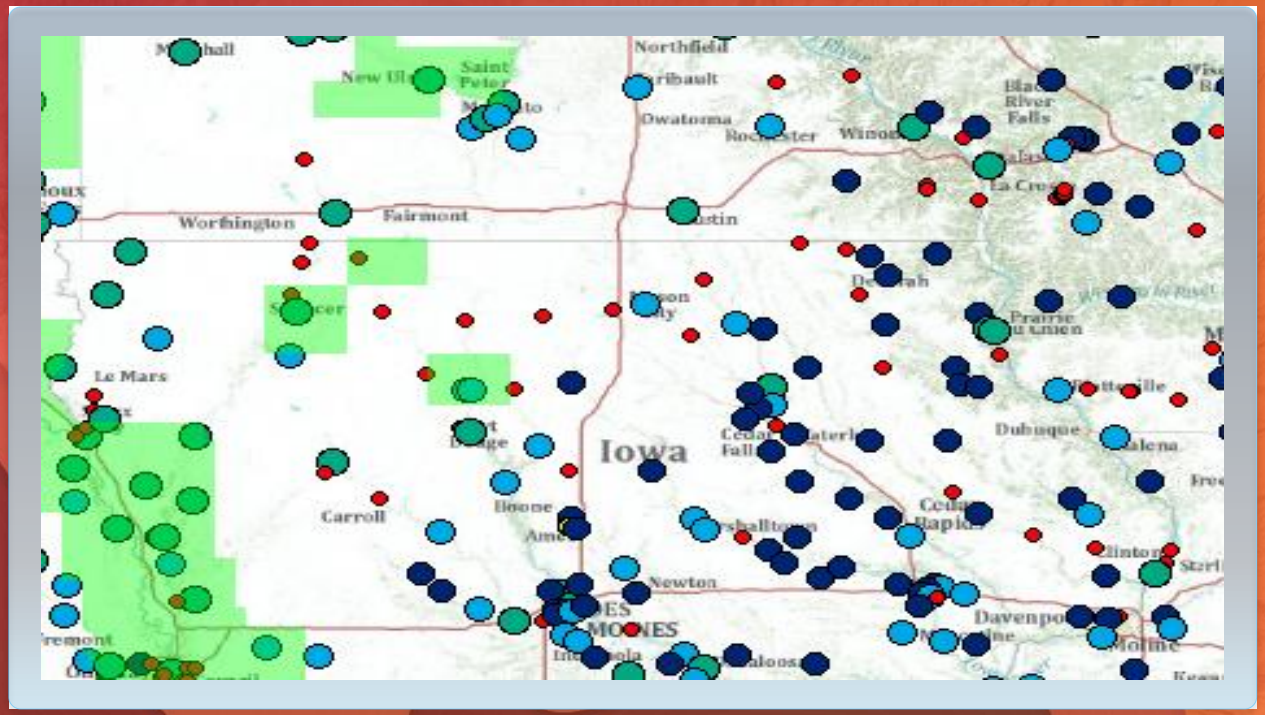
- Incorporate changes from the target version



Versioned Editing – Post

- **Incorporate with target version**

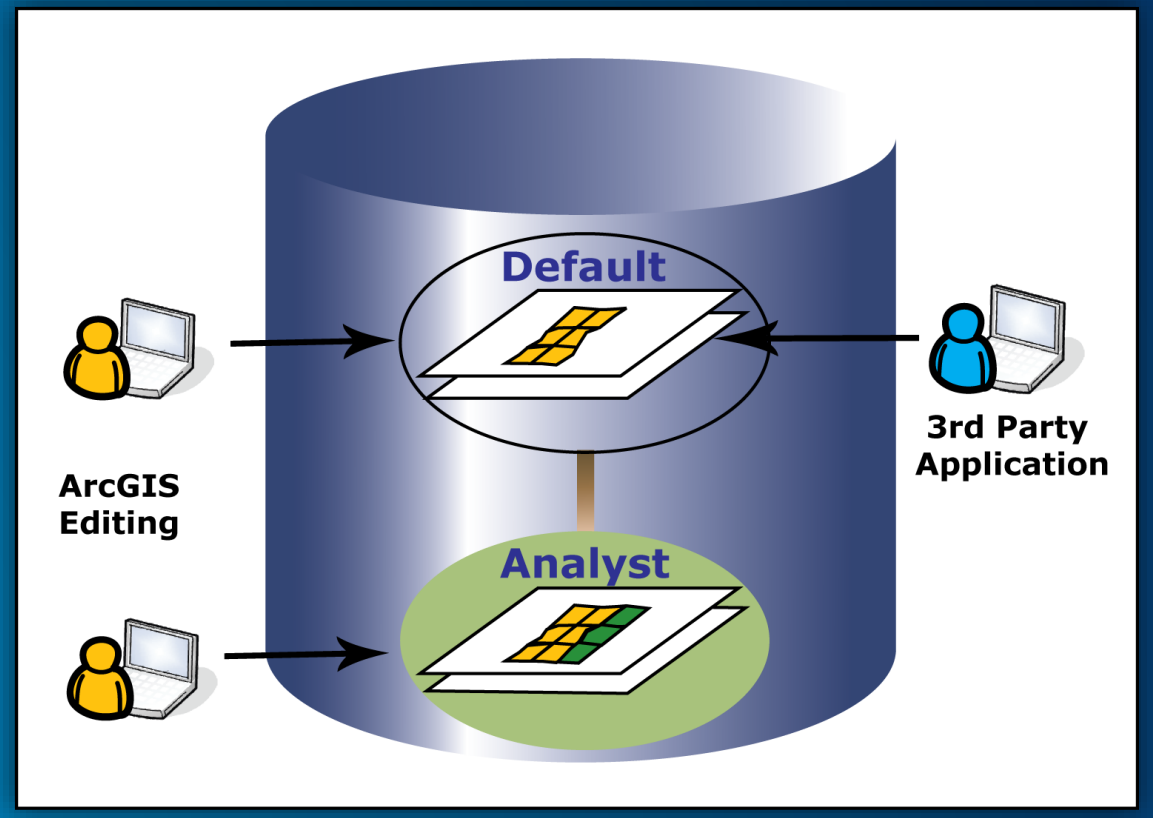




Reconcile & Post Demo

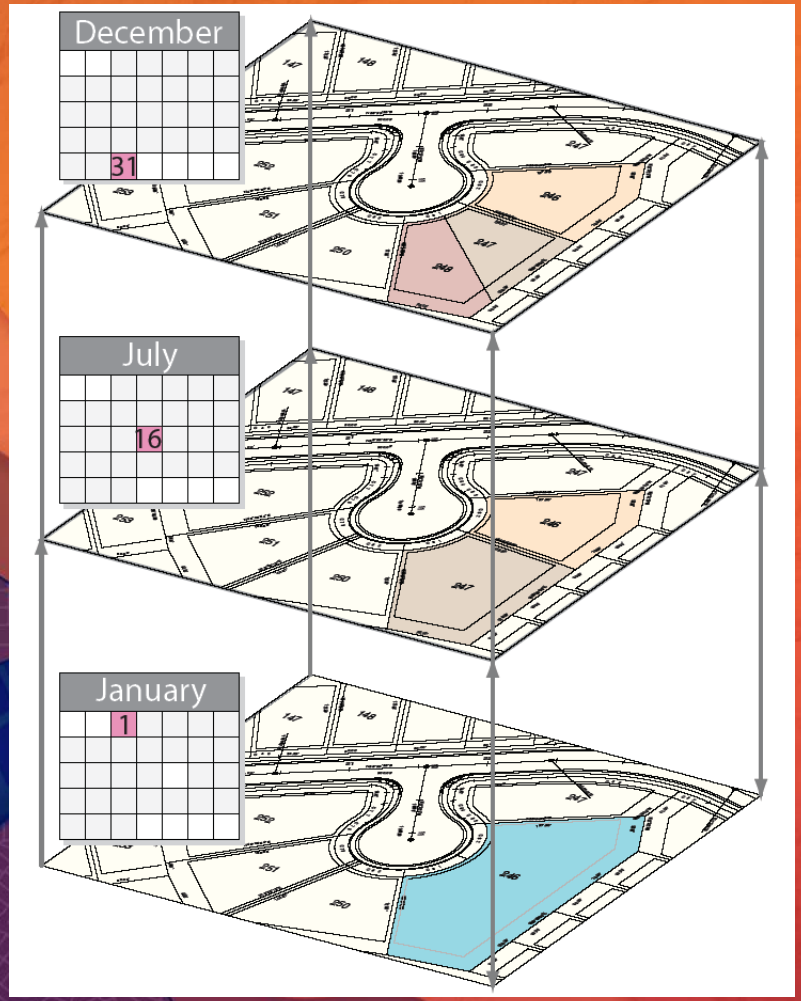
Versioned Editing - Move to Base Option

- Uses Versioned Editing
- When edits posted to DEFAULT
  - Edits are moved to the Base Table
- Simple data only (Points, Lines, Polygons)



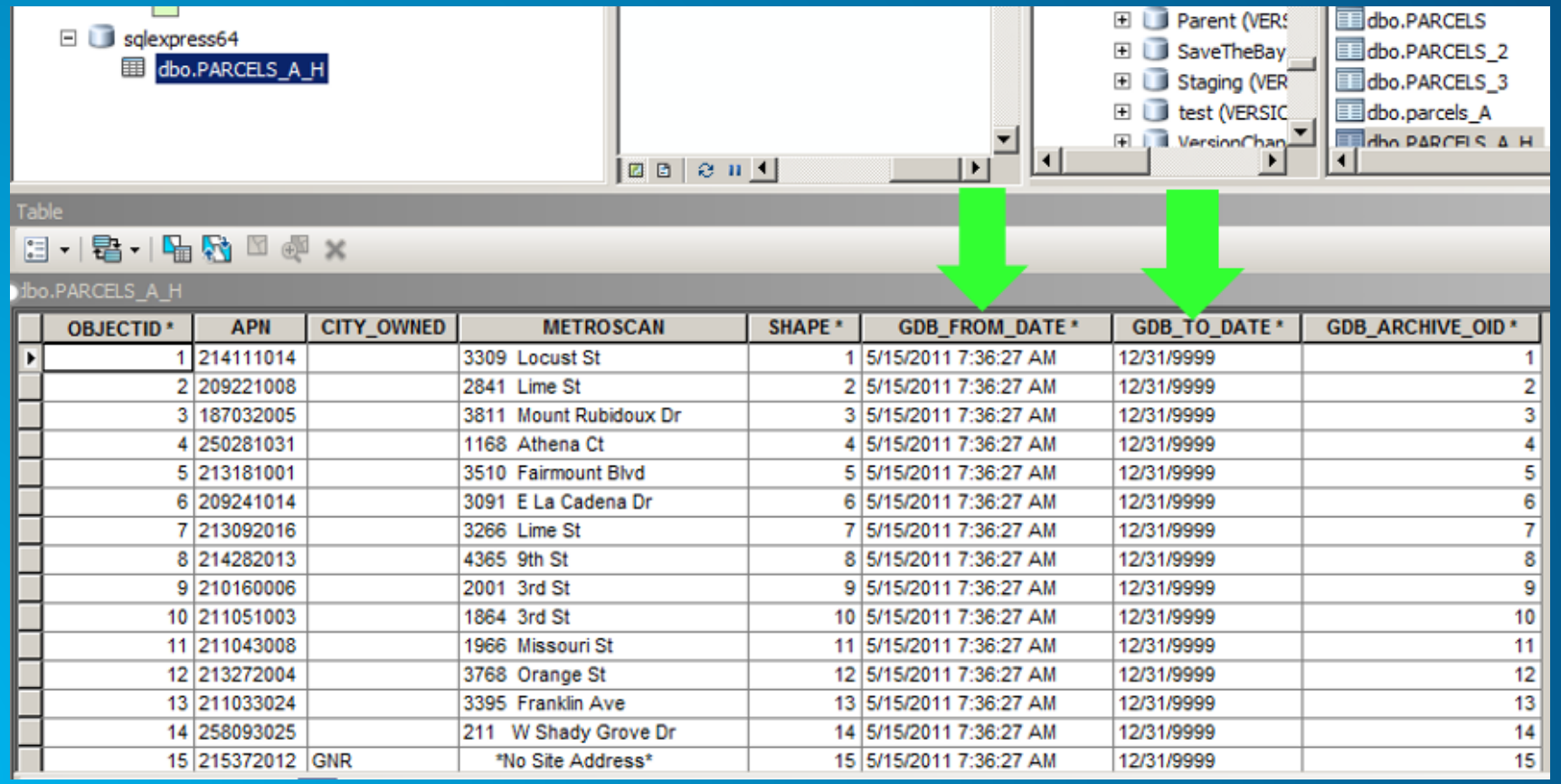
Geodatabase Archiving

- Records Edits Through Time
- Versioned data
- Non-versioned data
- Temporal queries



Overview of geodatabase versioned archiving

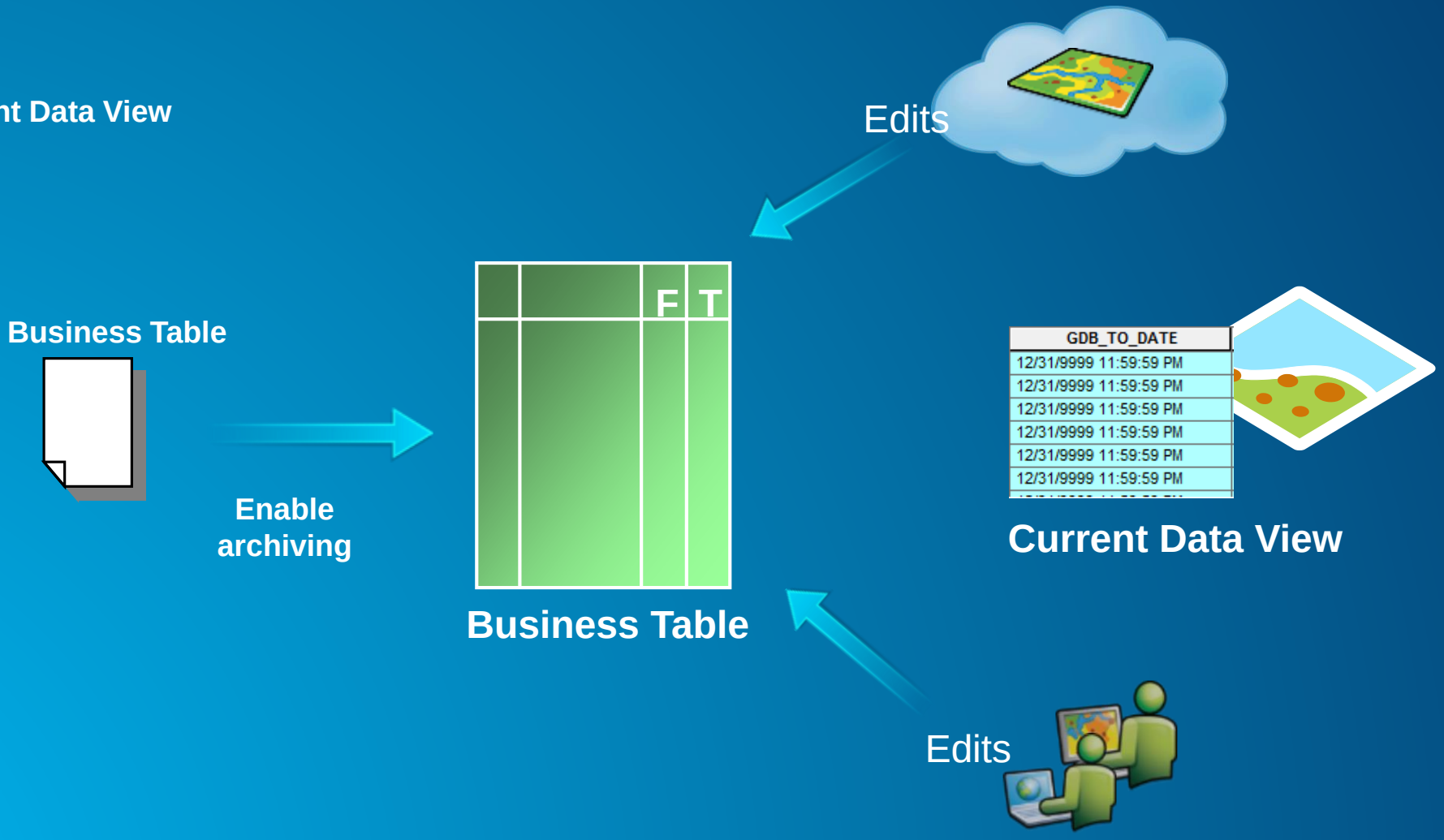
- Maintain record of edit transactions
- Edits are preserved in a history class
- Denoted with FROM and TO dates

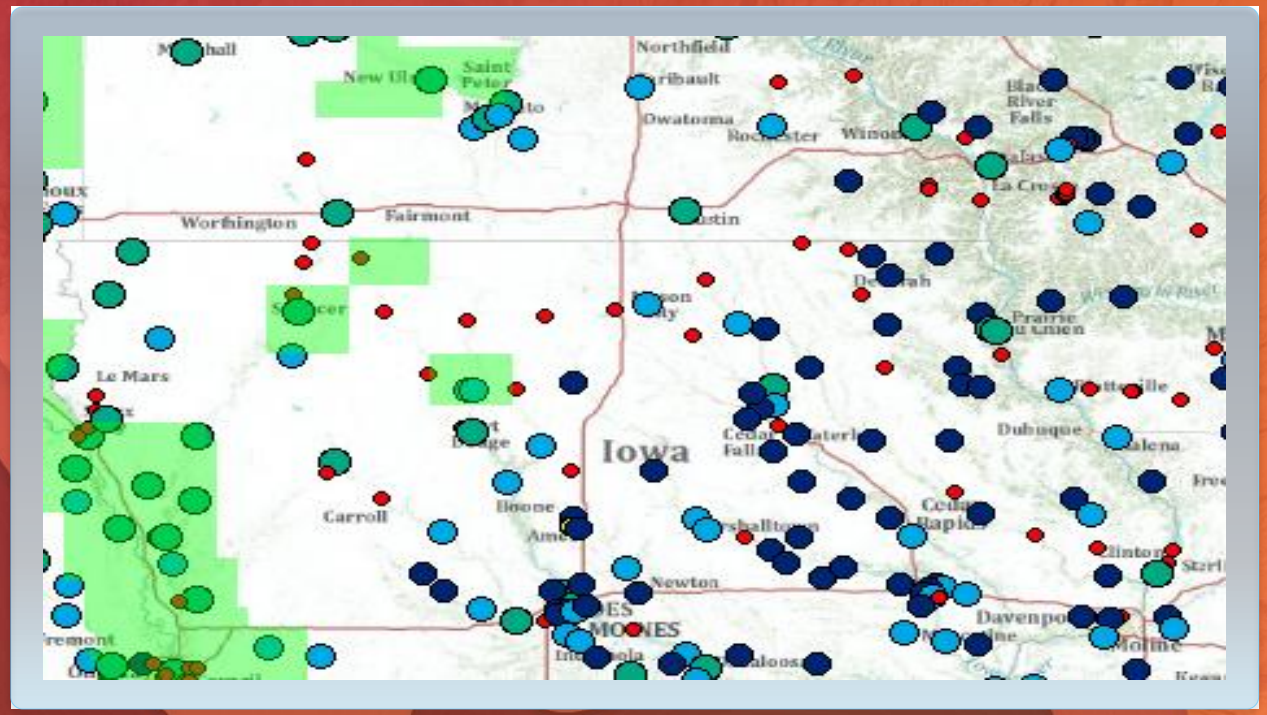


OBJECTID *	APN	CITY_OWNED	METROSCAN	SHAPE *	GDB_FROM_DATE *	GDB_TO_DATE *	GDB_ARCHIVE_OID *
1	214111014		3309 Locust St	1	5/15/2011 7:36:27 AM	12/31/9999	1
2	209221008		2841 Lime St	2	5/15/2011 7:36:27 AM	12/31/9999	2
3	187032005		3811 Mount Rubidoux Dr	3	5/15/2011 7:36:27 AM	12/31/9999	3
4	250281031		1168 Athena Ct	4	5/15/2011 7:36:27 AM	12/31/9999	4
5	213181001		3510 Fairmount Blvd	5	5/15/2011 7:36:27 AM	12/31/9999	5
6	209241014		3091 E La Cadena Dr	6	5/15/2011 7:36:27 AM	12/31/9999	6
7	213092016		3266 Lime St	7	5/15/2011 7:36:27 AM	12/31/9999	7
8	214282013		4365 9th St	8	5/15/2011 7:36:27 AM	12/31/9999	8
9	210160006		2001 3rd St	9	5/15/2011 7:36:27 AM	12/31/9999	9
10	211051003		1864 3rd St	10	5/15/2011 7:36:27 AM	12/31/9999	10
11	211043008		1966 Missouri St	11	5/15/2011 7:36:27 AM	12/31/9999	11
12	213272004		3768 Orange St	12	5/15/2011 7:36:27 AM	12/31/9999	12
13	211033024		3395 Franklin Ave	13	5/15/2011 7:36:27 AM	12/31/9999	13
14	258093025		211 W Shady Grove Dr	14	5/15/2011 7:36:27 AM	12/31/9999	14
15	215372012	GNR	*No Site Address*	15	5/15/2011 7:36:27 AM	12/31/9999	15

Non-versioned Archiving: How it works

- Current Data View

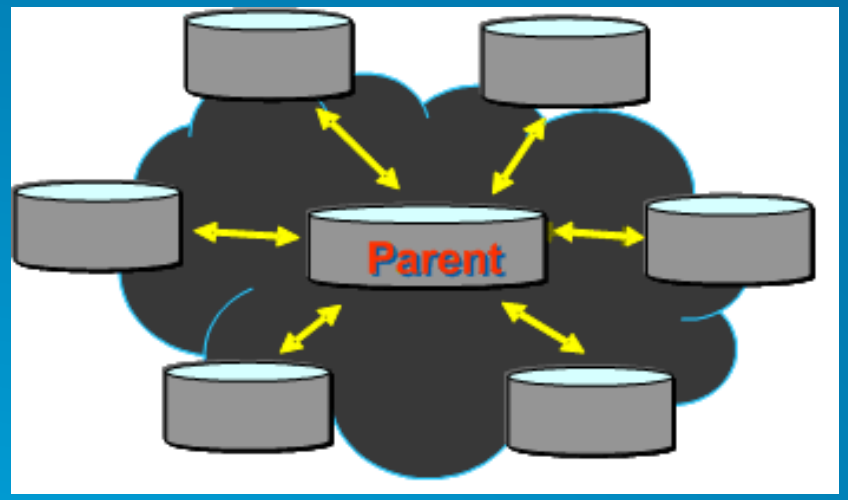




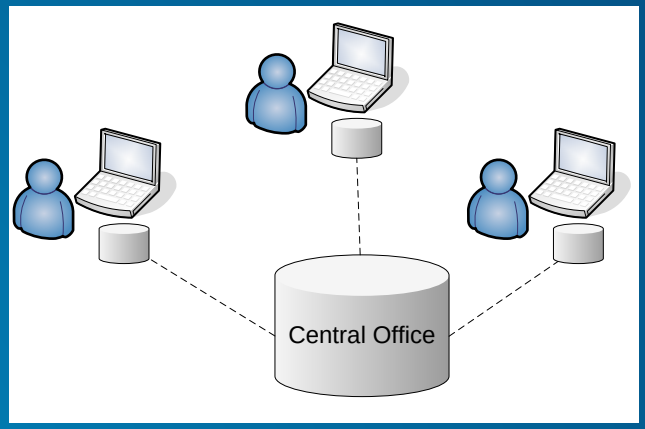
Geodatabase Archiving Demo

Geodatabase Replication

Central Hub

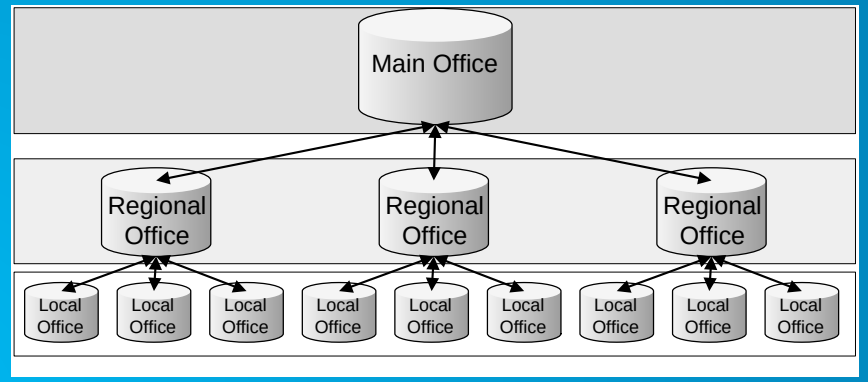


Mobile Users

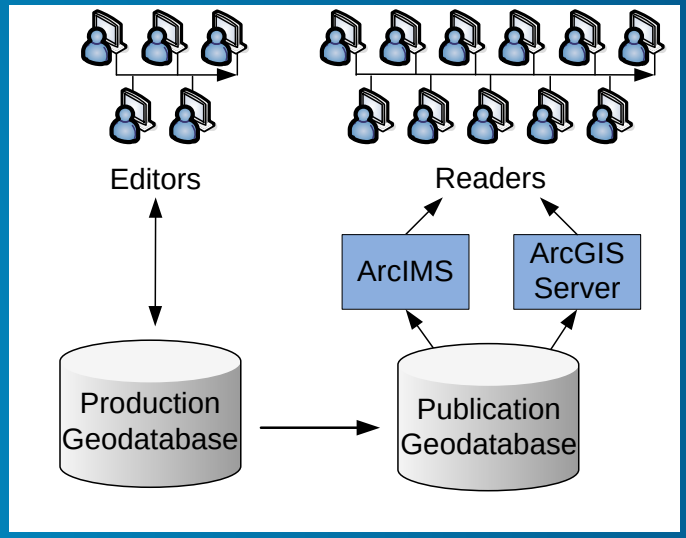


Feature Services with Sync

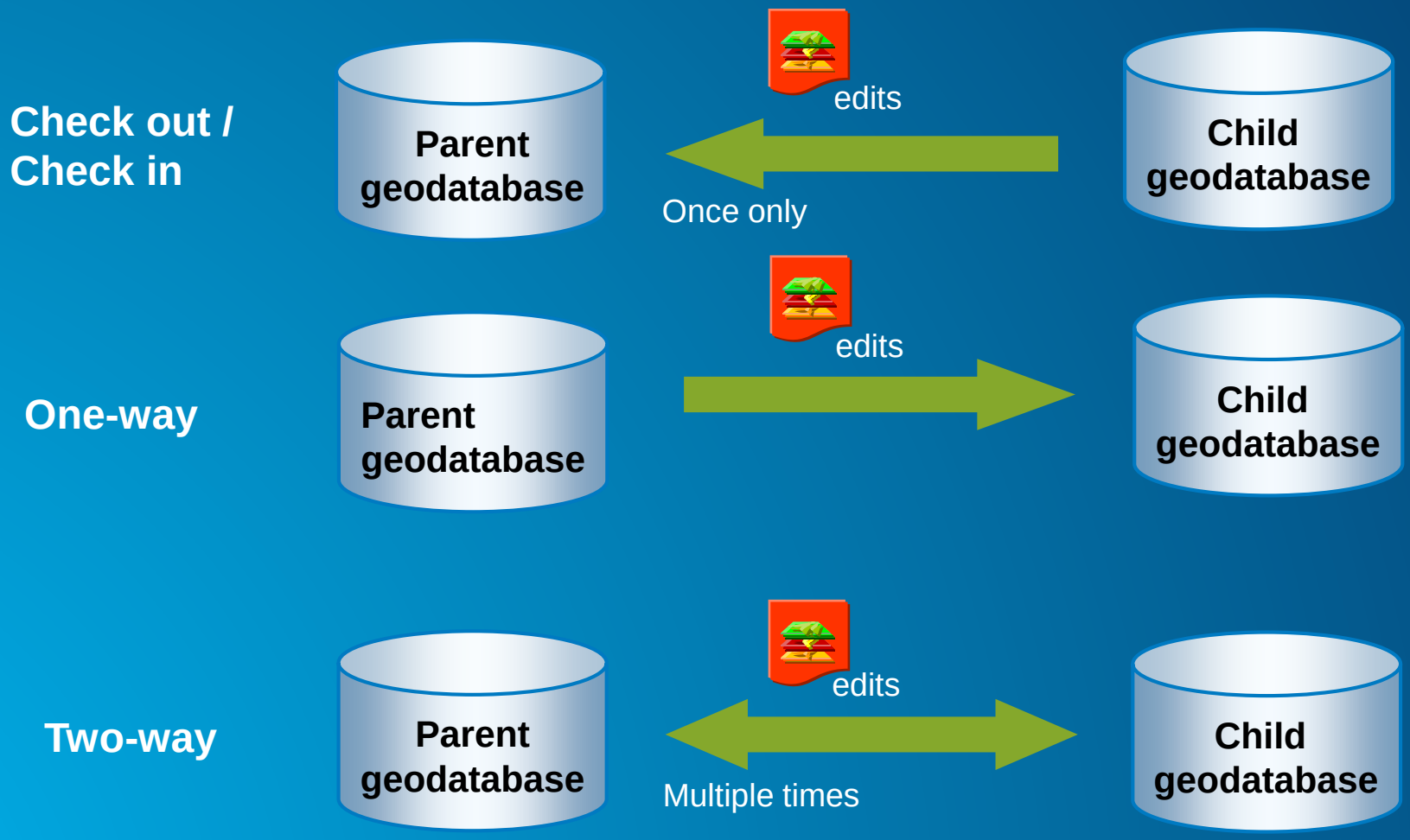
Multiple levels / Replica Tree



Production / Publication

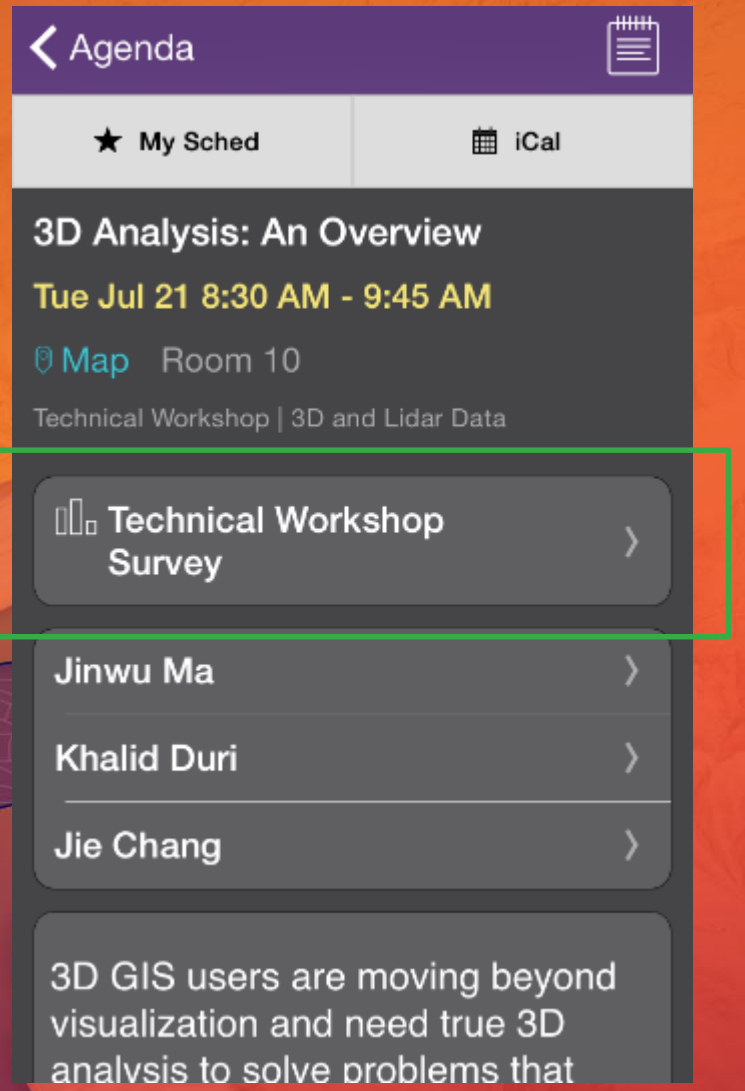


Replica Types



Questions

- **Thank you for Attending!**
- **Please complete the Survey**



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