DIGITAL MAPPING TECHNIQUES 2023

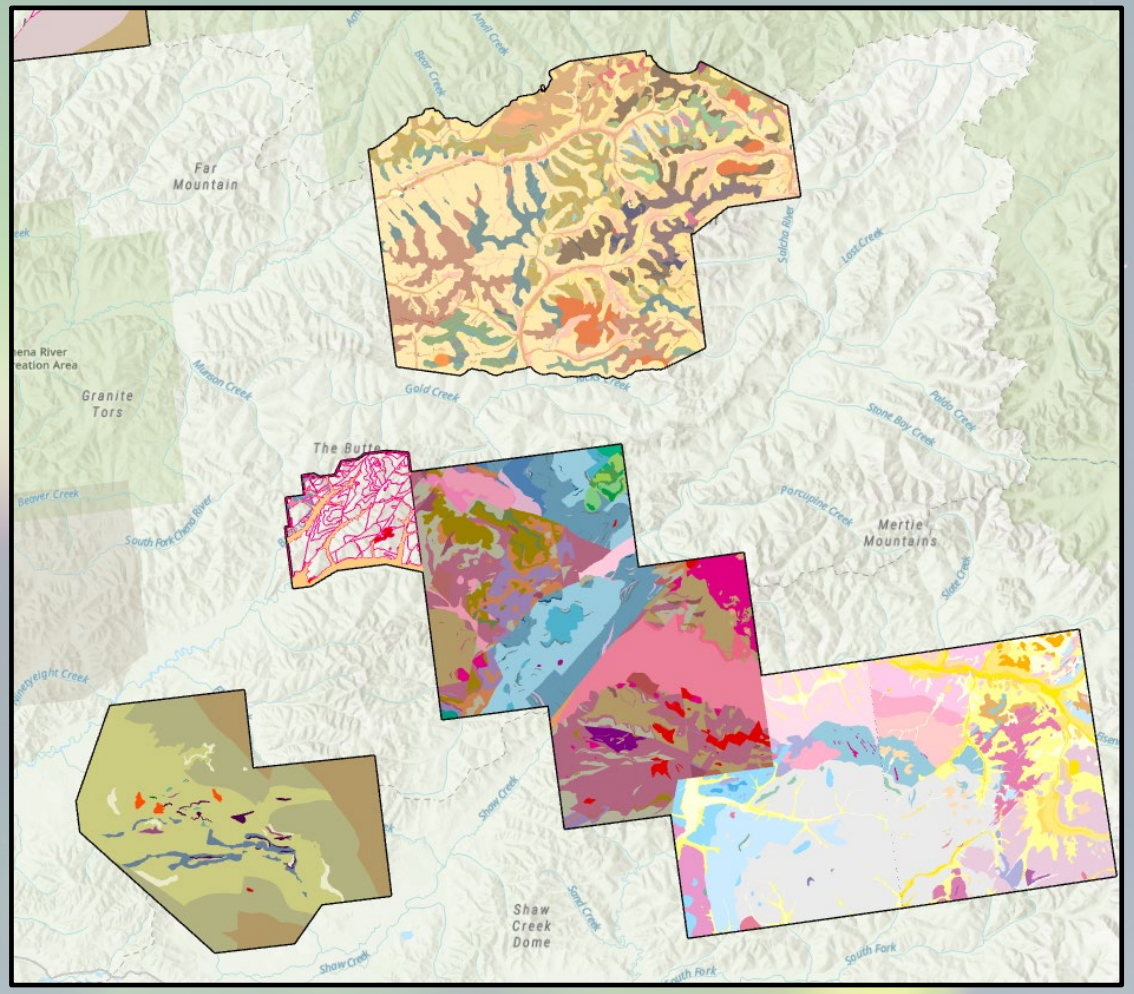
The following was presented at DMT'23
May 21 - 24, 2023

The contents of this document are provisional

See Presentations and Proceedings
from the DMT Meetings (1997-2023)

http://ngmdb.usgs.gov/info/dmt/

Multimap Geologic Enterprise Geodatabase Efforts



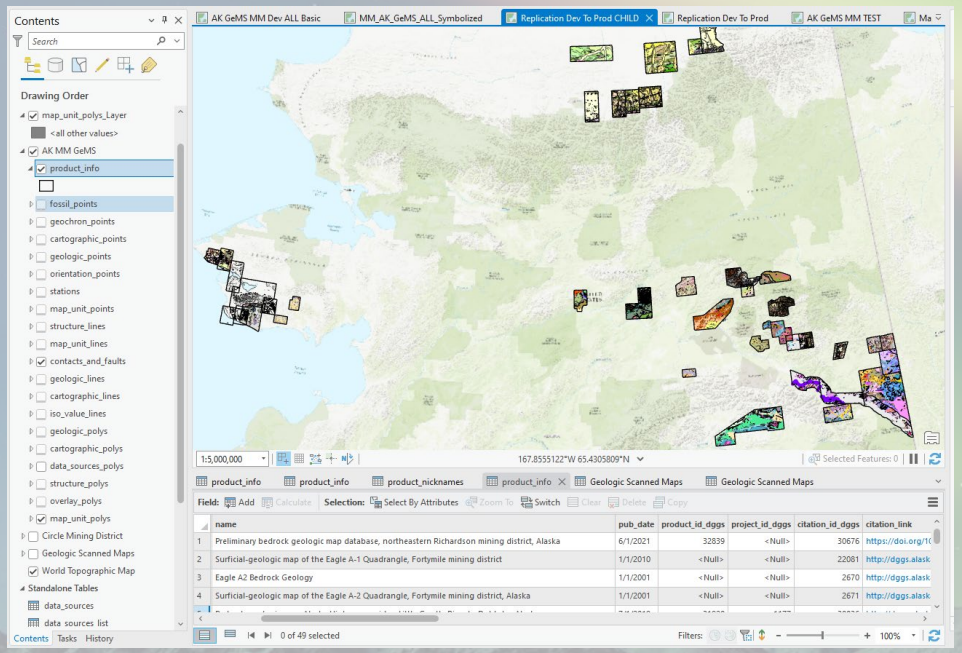
Mike Hendricks, Pedro Rivera

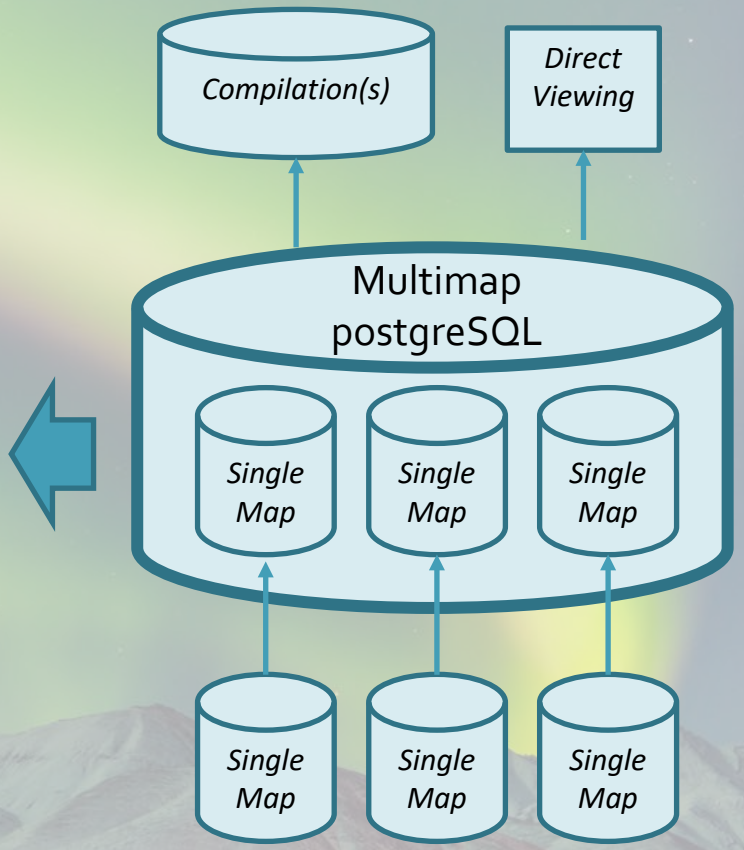
6/5/2023

Digital Mapping Techniques 2023

The Alaska GeMS Multimap database is:

A repository of individual
AK GeMS single map databases stored
in a single optimized PostgreSQL
geodatabase.



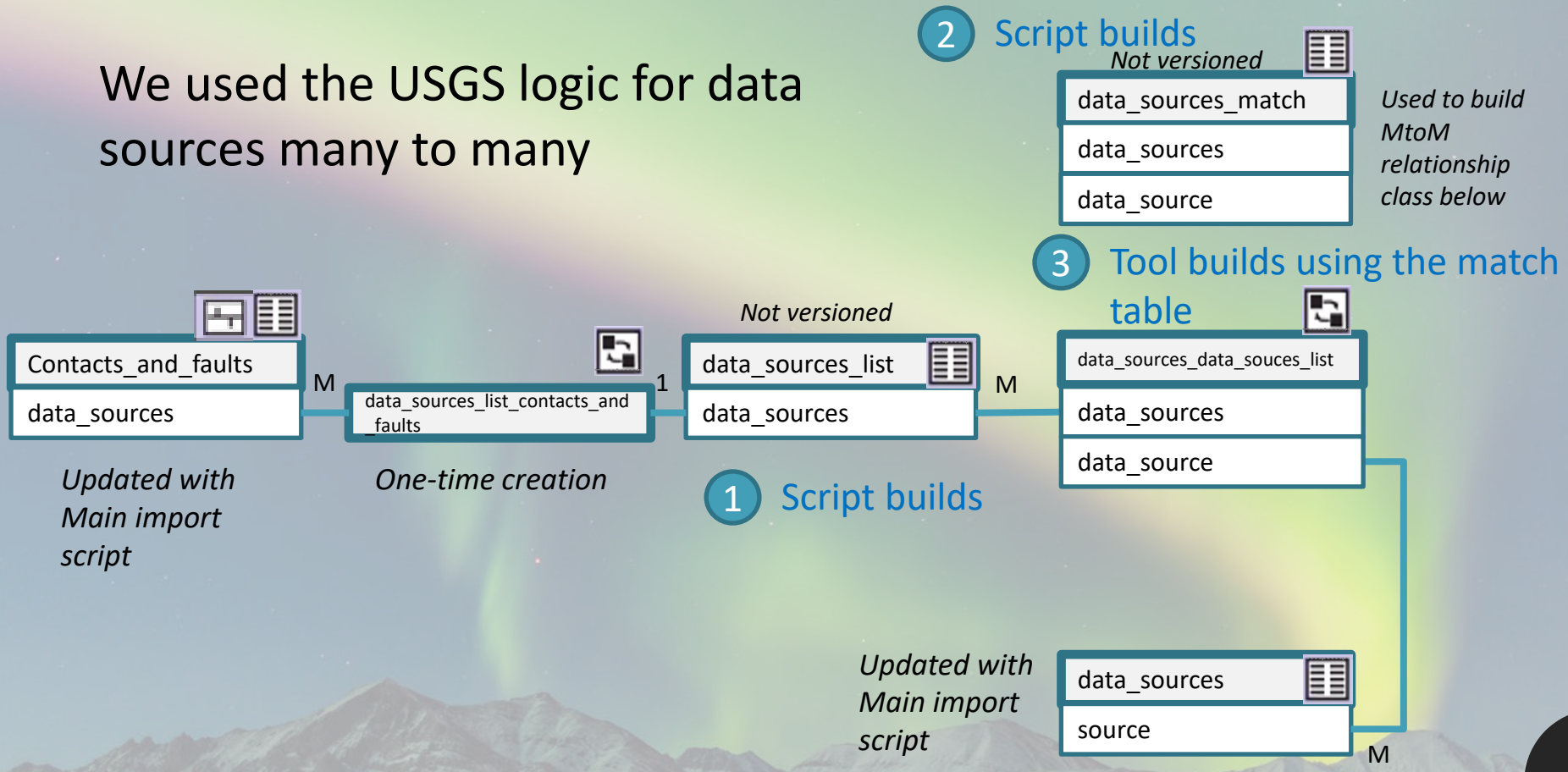


How is it different than Single Map

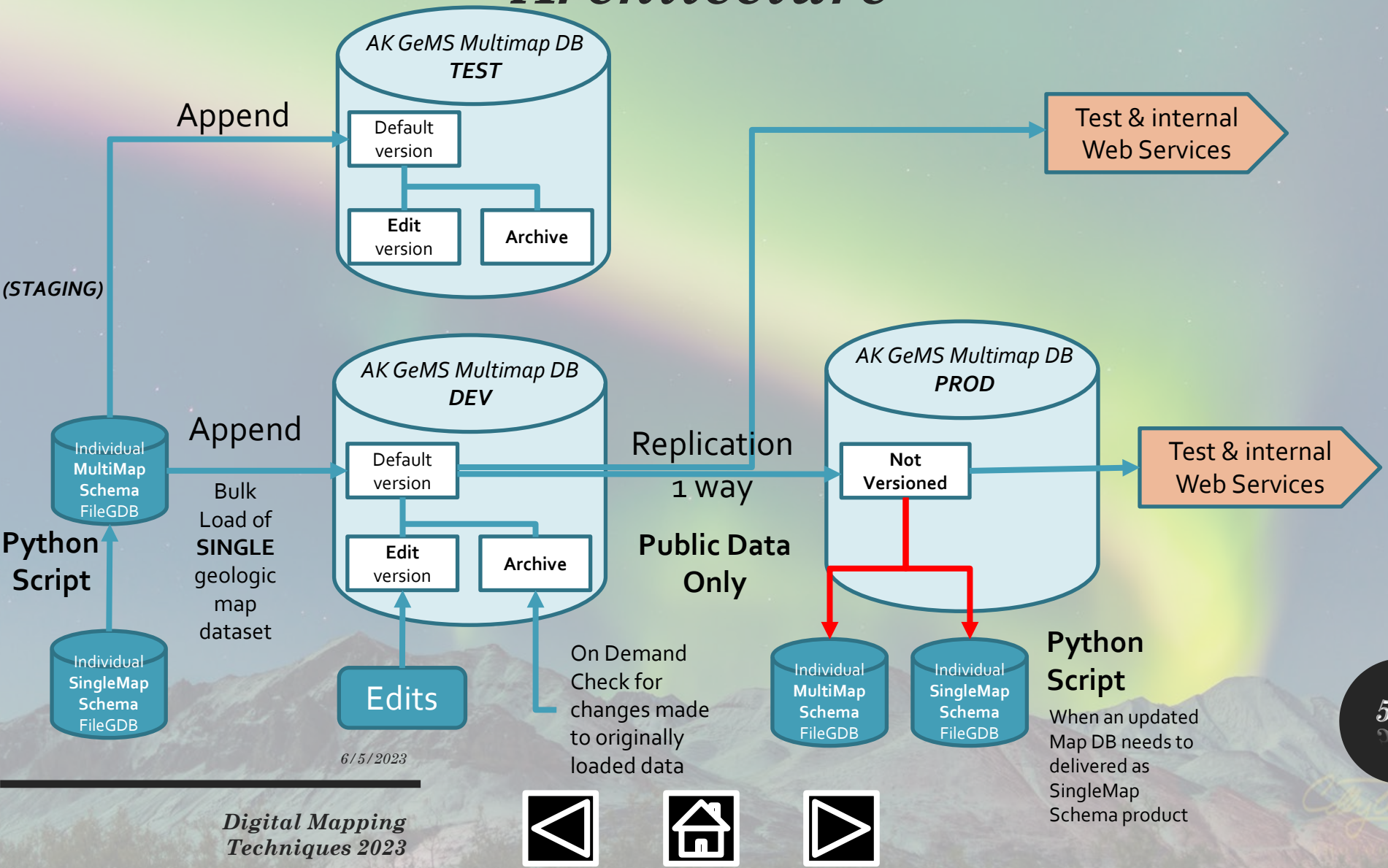
- Hosted on PostGreSQL
- String based domains are converted to integer-based domains
- True GUID Fields for IDs
- Single Projection (Alaska Albers Equal Area, NAD83)
- Relationship Classes built
- Supporting tables Created and Maintained
  - Tables to support many-to-many data sources
  - Product Statistics Table
  - Cartographic labels

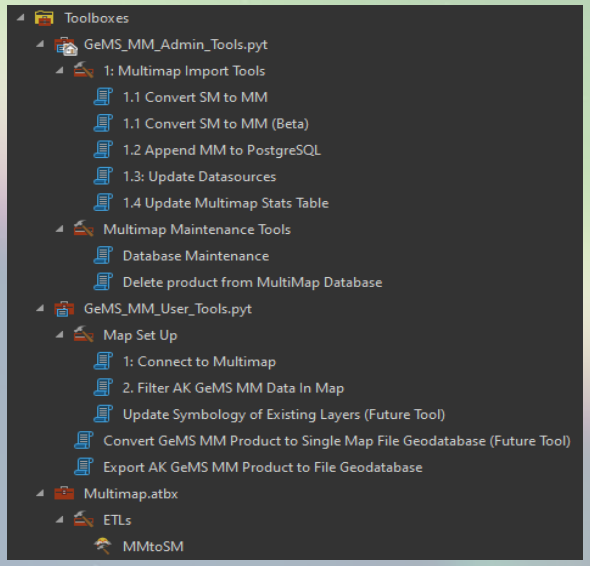
Supporting Data Sources Many-to-Many relationships

We used the USGS logic for data sources many to many

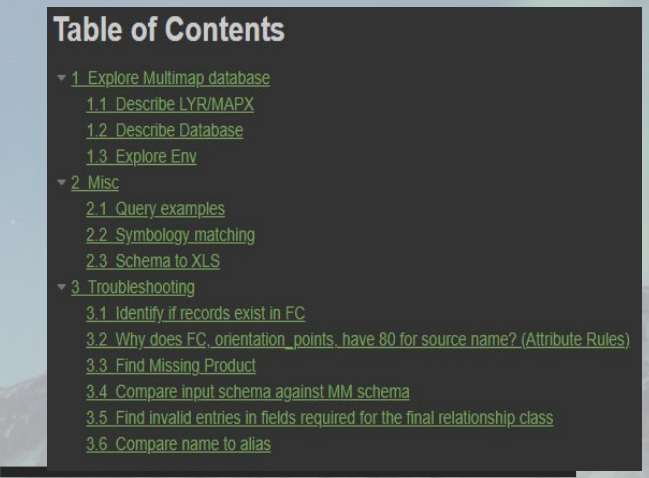


Alaska DGGS Multimap GeMS DB Architecture





Multimap Toolboxes and Notebook



Questions?