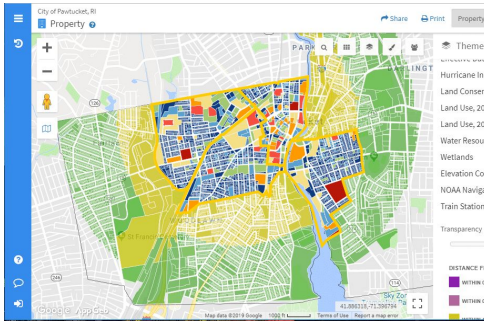
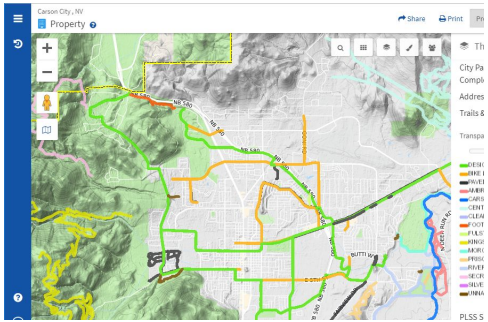
Beyond the Tech-Talk: Building the Coordination Infrastructure for Successful Statewide GIS

November 6, 2020

Introducing AppGeo





- **Strategic Planning** - Needs assessment, Organizational strategy, ROI studies, Technology road maps
- **Cloud Services** - hybrid cloud strategies, data migration and hosting, process automation
- **Data and Analytics** - Data governance, data modeling, geoprocessing, spatial analysis, AI and ML solutions, cartography
- **Digital Transformation** - Process automation and data visualization through cloud and web-based applications

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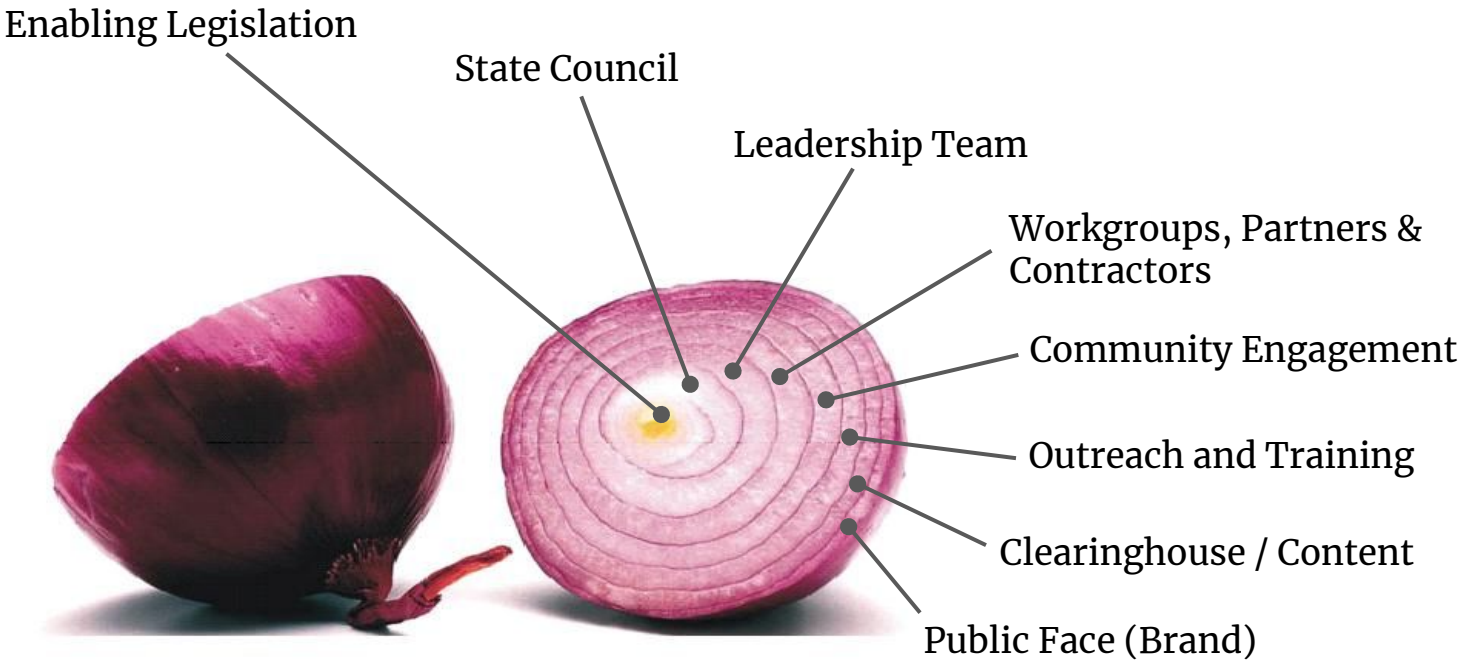
State GIS Coordination Infrastructure



Where to Focus the Coordination Infrastructure?

Coalitions of the Willing

Harnessing Workflows

Common Requirements across Use Cases

Standards

Policies

Discovery and Access to Data

Central Provisioning of Datasets

Shared Geoprocessing Services

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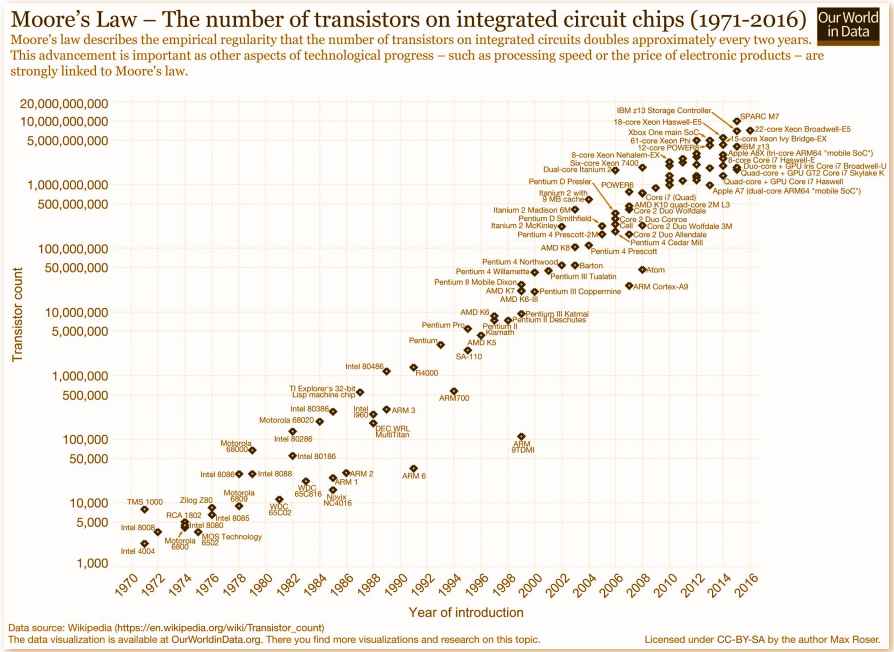
Work on the Things with Lasting Value

Half-life: a decay function - the time required for a specified property to decrease by half



Which GIS elements have the most lasting value?

- ✗ Tech (hardware/software)
- ✓ Data
- ✓ Partnerships
- ✓ Policies
- ✓ Training & Methods

Baum, L. F. (1939). The wizard of Oz. Hollywood, Calif.: Metro Goldwyn Mayer.

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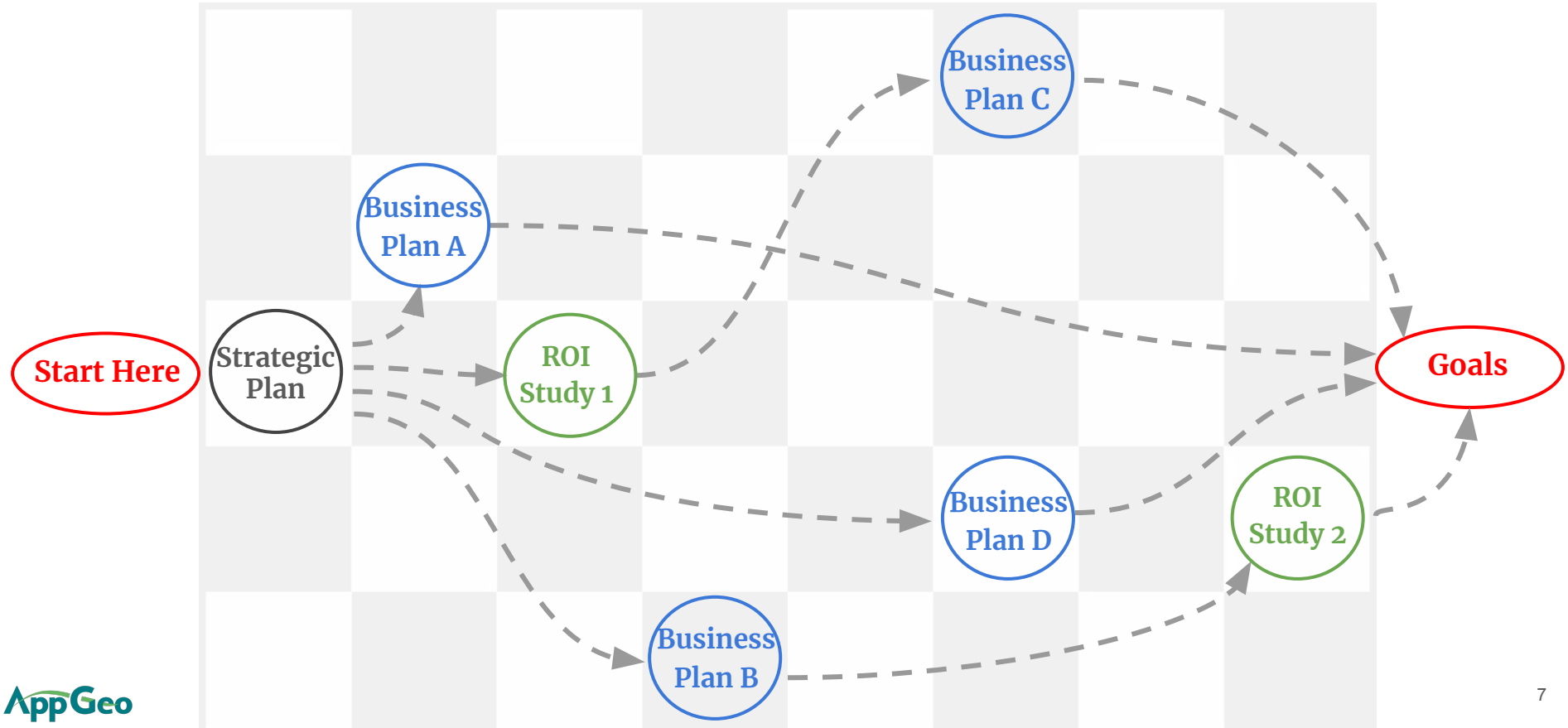
Sorting it all out



Content Programs

Pros:

- Good value for larger areas
- Newest content avalable
- High Res + High performance

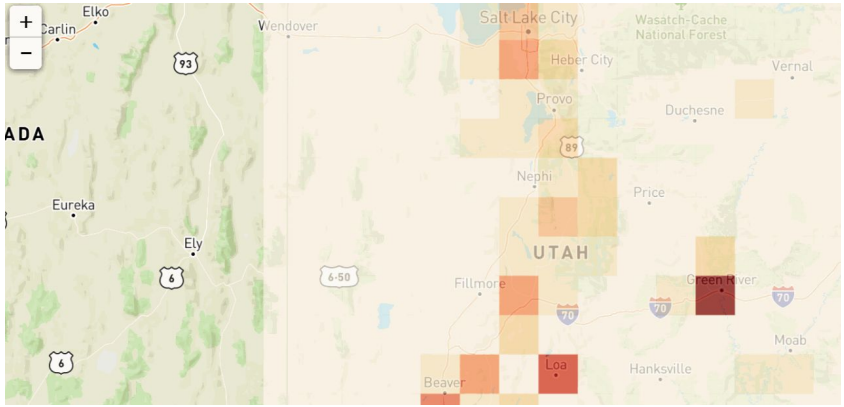
Cons:

- No local data storage
- Refresh determined by vendor
- Pricing scales with user count

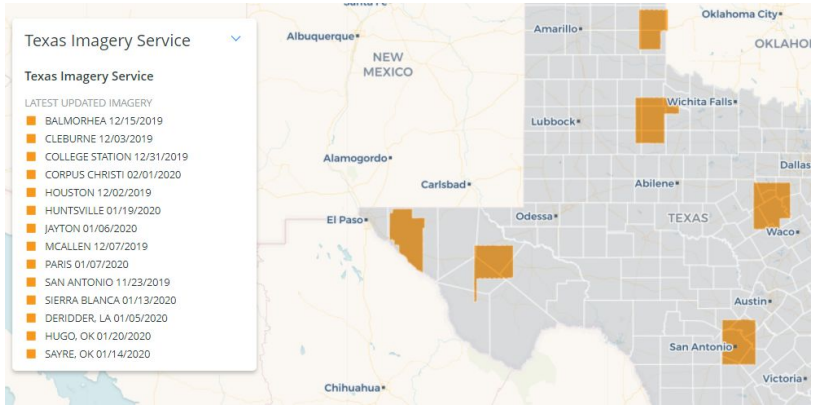
Imagery Content Programs (SaaS) can deliver high-resolution imagery in a subscription-based, streaming environment, at an affordable price point.
Pricing tends to scale with the number of users, and geographic area unlocked.
Typically, these streaming services are compatible with all leading GIS and CAD software for easy integration into your existing workflows, using the WMS/WMTS protocol.

Giza Analytics: Usage Tracking and Cost Recovery

With **heat mapping**, we can track usage at the individual tile-level, revealing **more insight** into where and how imagery is being used

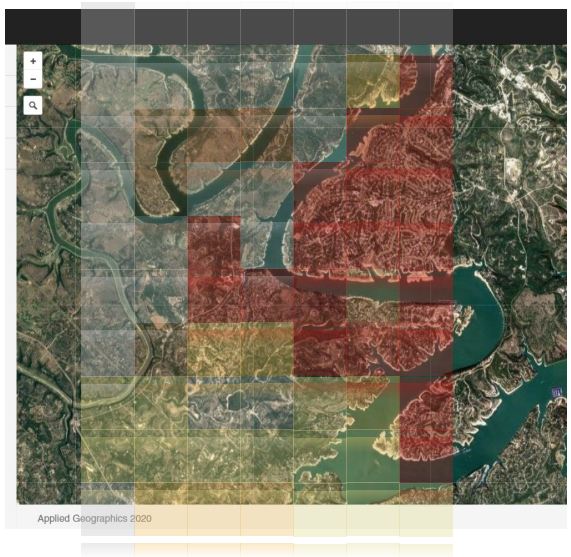


This can provide the basis for **cost share model between state organizations.**

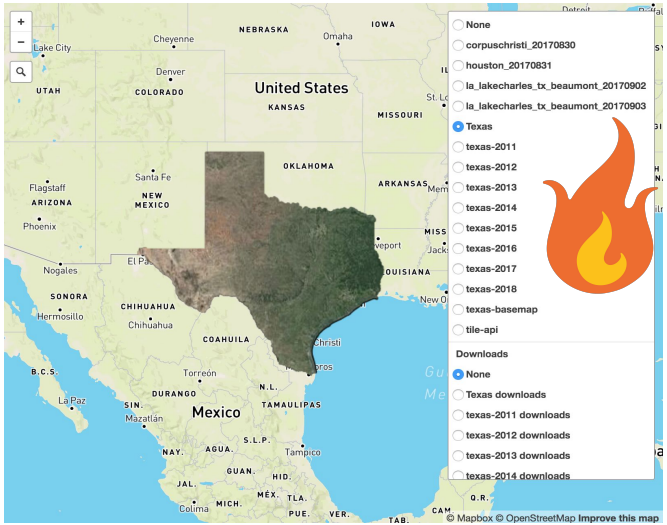


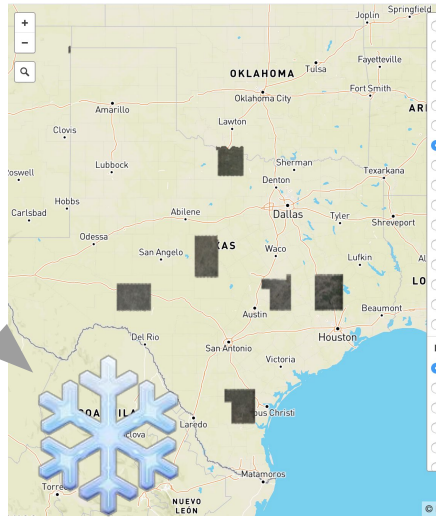
Texas: Cost Savings with Giza Usage Analytics

Google Cloud



Out of **267 TB** of data,
258 TB was moved to coldline,
saving Texas **$69,657 per year!**





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Discussion

- What challenges are you facing?

Thank You!

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