



UPDATE

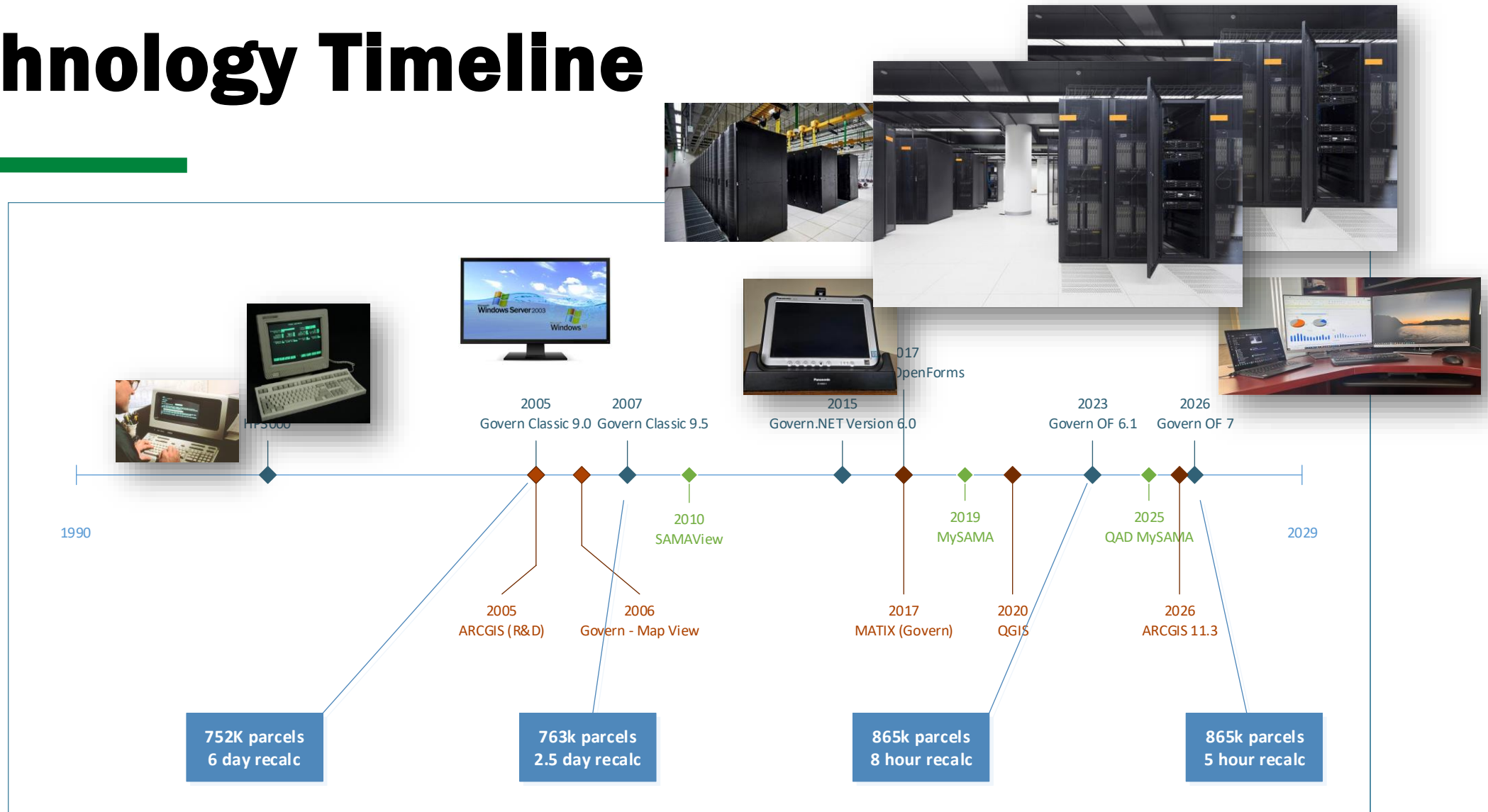
- Customers
- Costs
- Income
- Plan
-

Agenda

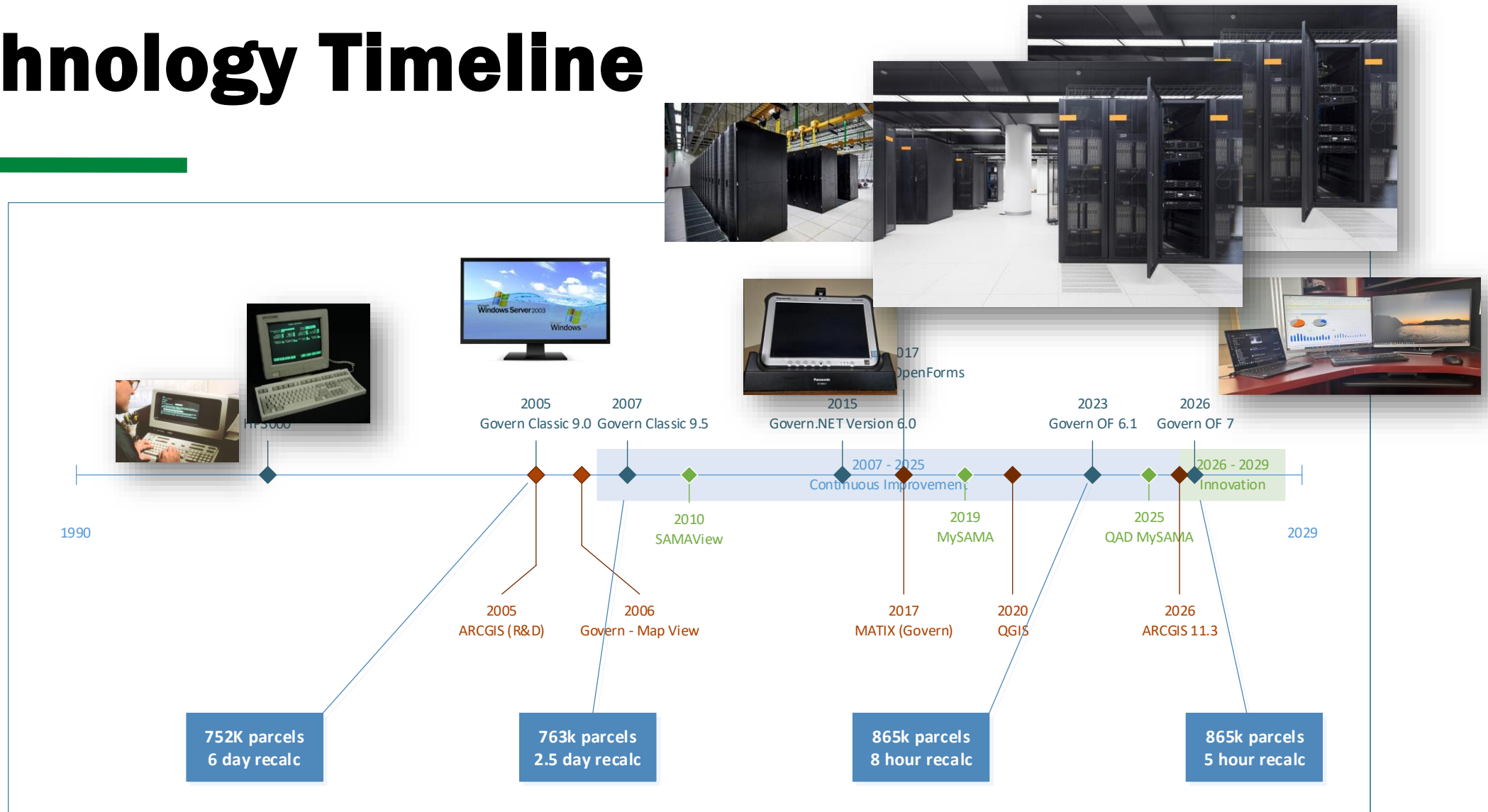
- Technology Timeline
- Continuous Improvement
- Innovation
- GIS Working Group



Technology Timeline



Technology Timeline



Continuous Improvement

- Divisional approach
- Focus on process
- Smaller incremental changes
- Created a Manager of Continuous Improvement role in 2024 reporting to the CEO



Continuous Improvement - Outcomes

- Reinspection / Maintenance process standardization (2007-2009)
- Oil and Gas Standardization (2026)
- Revaluation (2025 – in progress)
- GIS

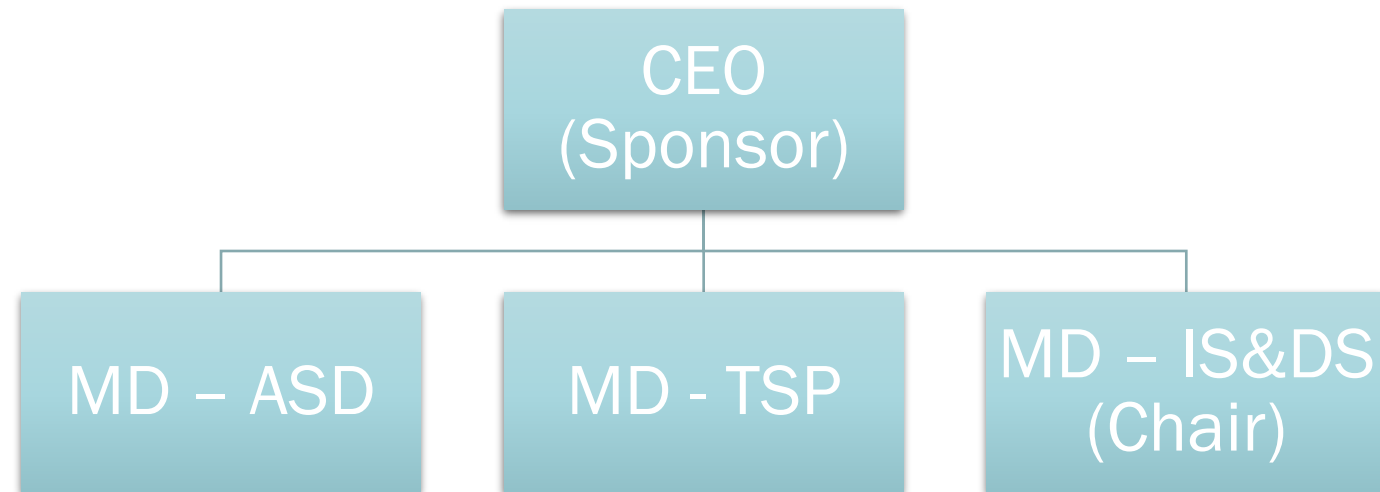
Innovation

- Focus on capability (people / process / knowledge / technology)
- Multi-divisional
- Continuous improvement on steroids
- Radical change



Innovation Steering Committee

- Mandate: drive operational efficiency and assessment quality through the strategic application of technology and process innovation



Innovation Steering Committee

Strategic Objectives

Operational Efficiency

- Capability Optimization

Technical Quality

- Precision and Defensibility

Revenue Generation

- Stakeholder Offset

Innovation Pipeline

Identify / Capture
Opportunity

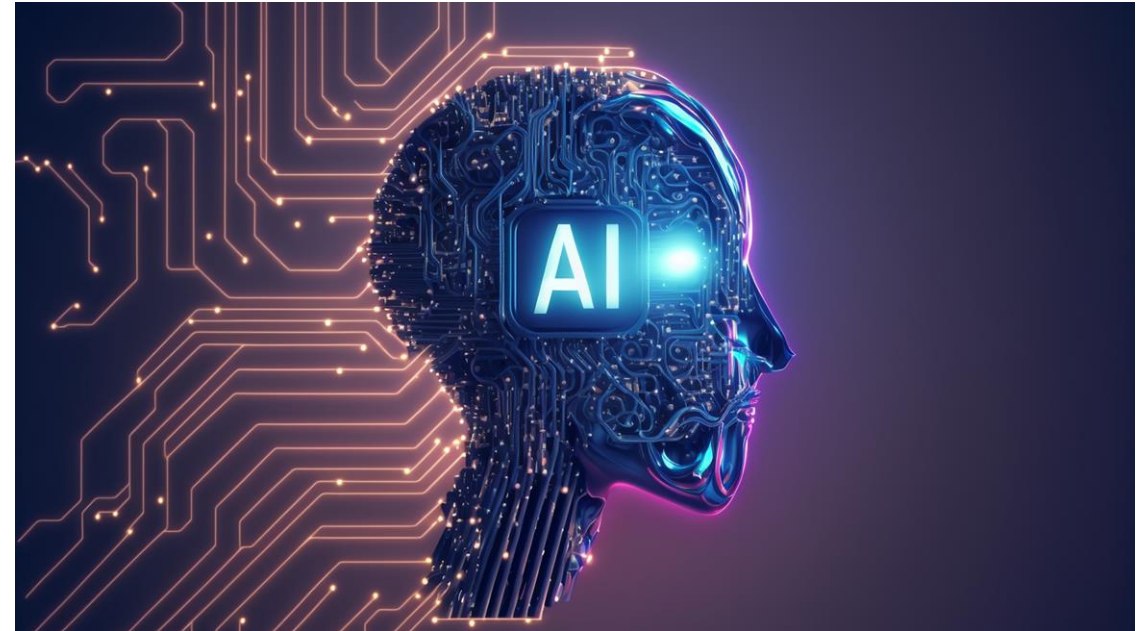
Business analysis
(cost vs benefit)

Prioritize

Execute/implement

Realize benefits

Leveraging technology to radically improve business capability



Artificial Intelligence

- AI enabled voice CAMA entry
- Quality
- Machine learning with GIS
- Model analysis / development
- Automation

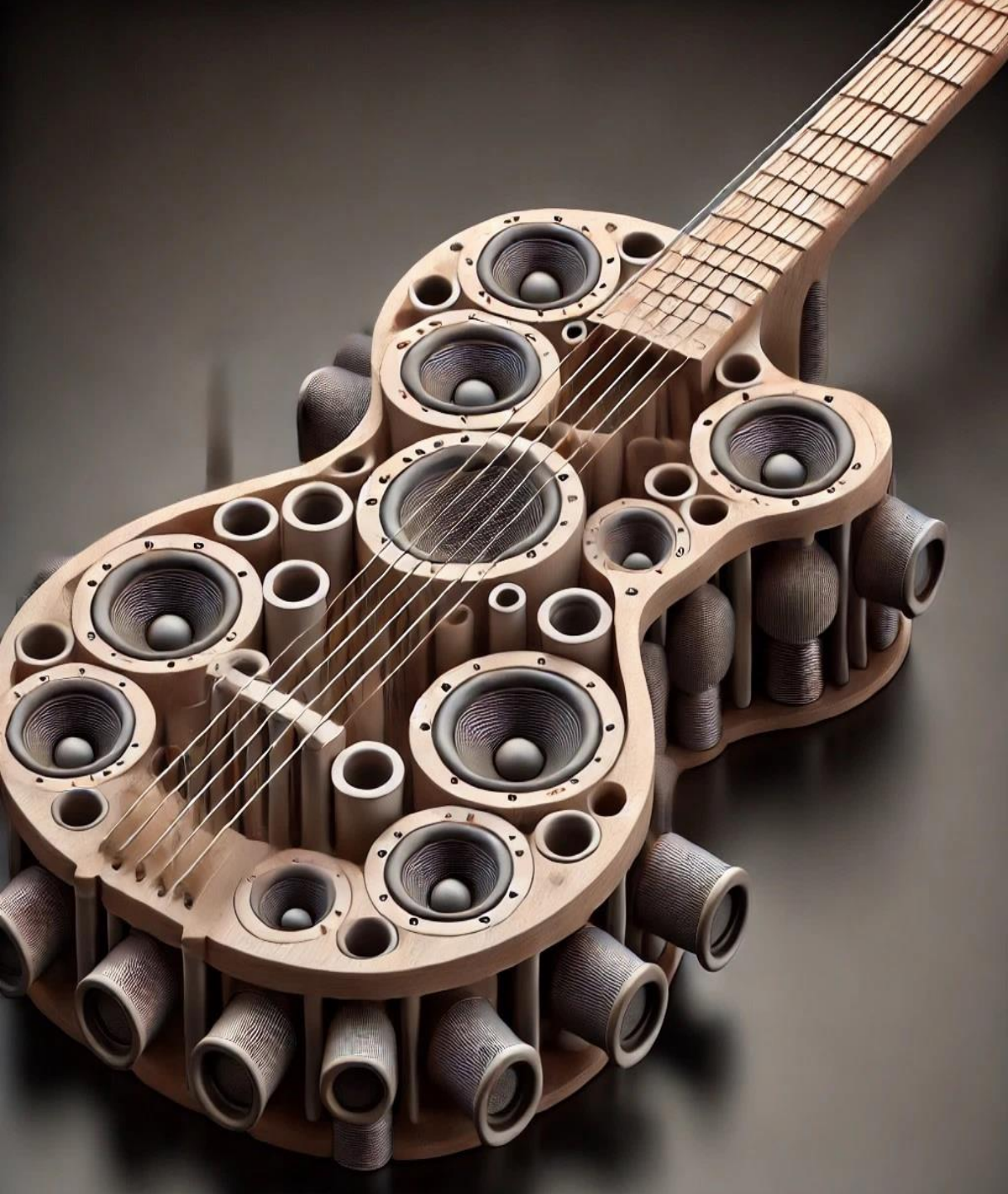




ChatGPT

**“AI” isn’t
always as “I” as
we would like it
to be!**

My request to ChatGPT: I want to design an acoustic guitar with 3 tunable ported sound chambers. One for bass, one for midrange and one for treble.

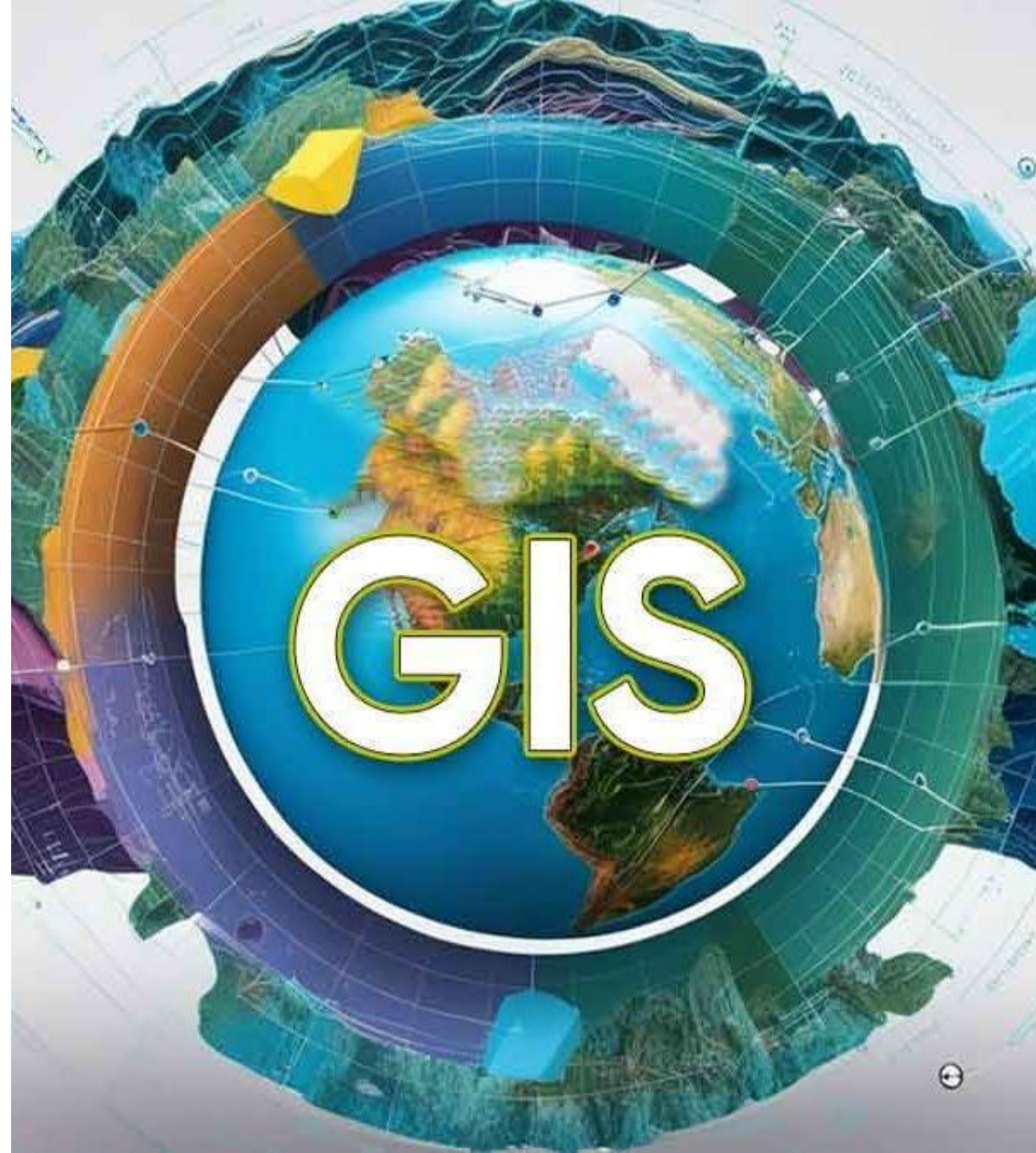


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GIS

- GIS Working Group / GIS Exec Committee
- Mandate to use GIS tools to improve assessment efficiency and quality
- Representation from ASD, TSP and IS
 - 2 full time GIS specialists



GIS - examples

- SAMAView enhancements
- Railway buffer data collection
- Flooding frequency analysis
- Residential dashboard
- Automated trend map generation



GIS – in progress

- Revaluation support
 - Sales Analysis
 - MRA locational variable detection
 - Internal value trend analysis





GIS Demo

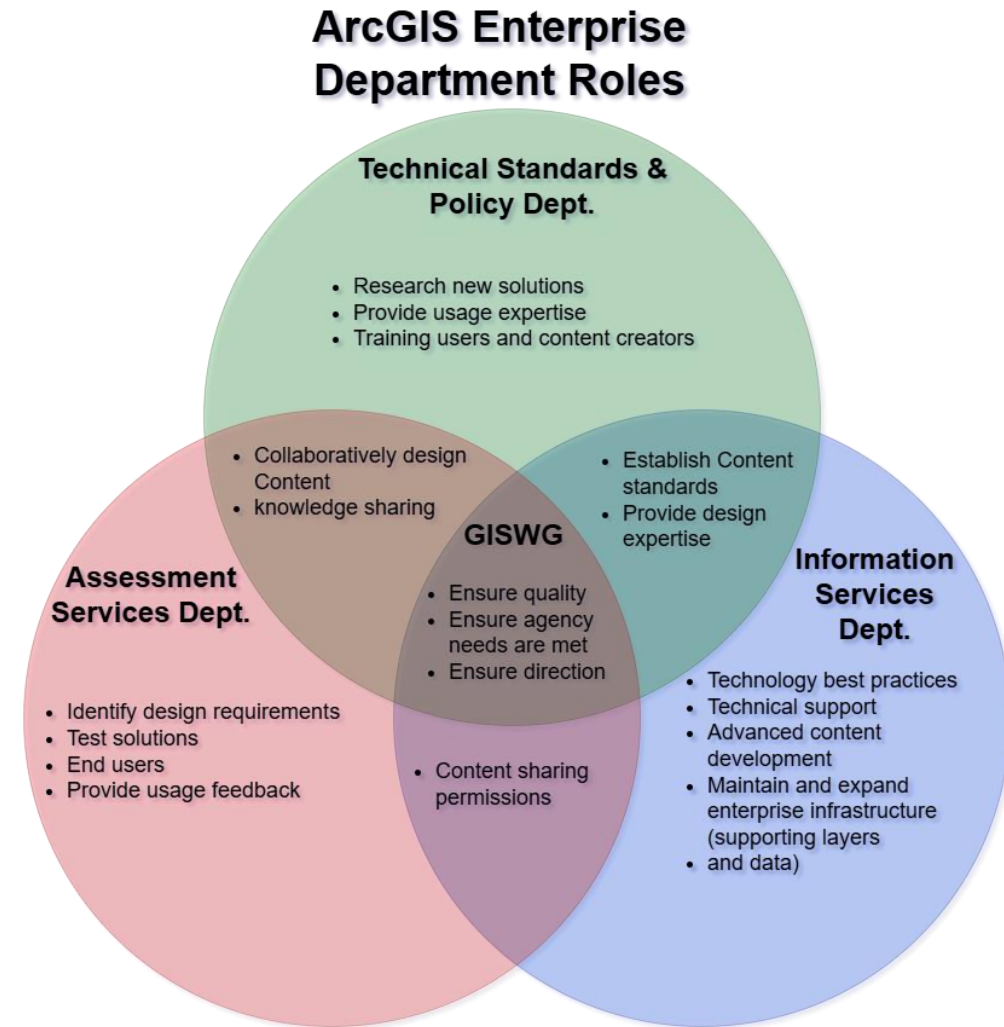
The background features a series of overlapping, semi-transparent green geometric shapes, primarily triangles and quadrilaterals, that create a sense of depth and movement. The colors range from a light, pale green to a vibrant, saturated lime green. The shapes are layered, with some appearing in front of others, creating a complex, layered effect. The overall composition is clean and modern, with a focus on geometric forms and a monochromatic color palette.

Technology Update - GIS

Kim Hardy & Evan Brandt

What is The GIS Working Group?

- ▶ Interdivisional initiative
- ▶ Drives advancement into GIS technologies
- ▶ Identify the potential use cases where GIS can create value for the agency and its stakeholders



What is GIS

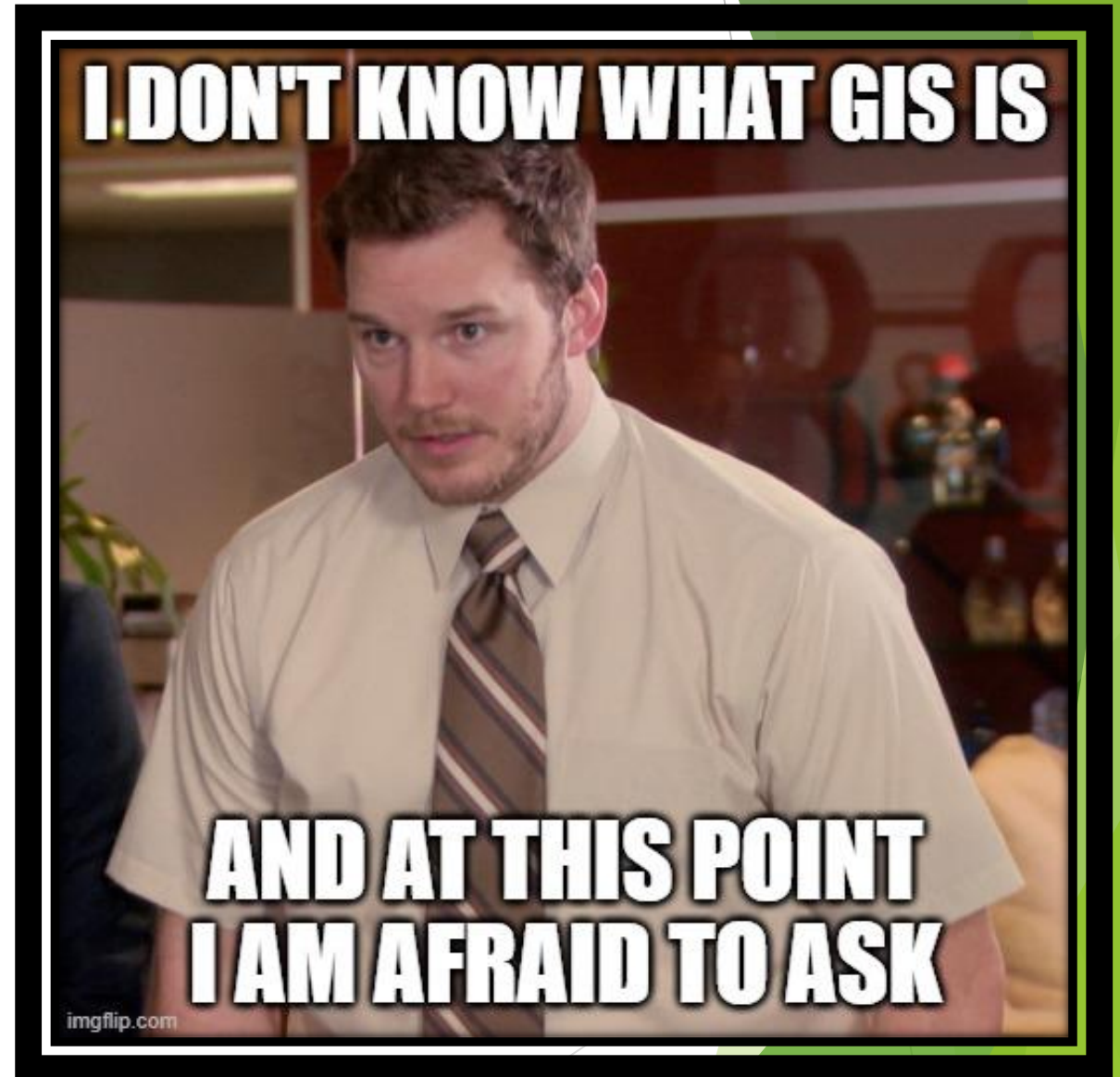
- ▶ Geographic Information System

*“A computer system that captures, stores, analyzes, and **displays geographically referenced information.**”*

- ▶ Associates Information with places

- ▶ Spatial Data

- ▶ Example:





- ▶ SAMAView is a GIS Web App
- ▶ Information tied to a Place




Select a search option Clea

Assessment ID ▼

Search by Assessment ID

MOOSE-484706730

Property Results Clea



Assessment ID
MOOSE-484706730

Legal Land Description
Lot 15 Block 14 Plan 101079222 Sup

Civic Address
1433 Normandy Dr

Municipality
MOOSE

Property Class

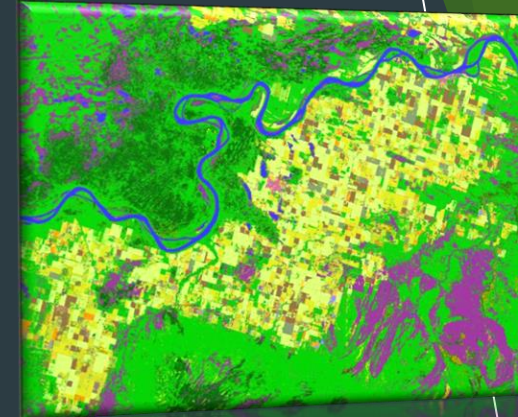
Potential GIS Uses



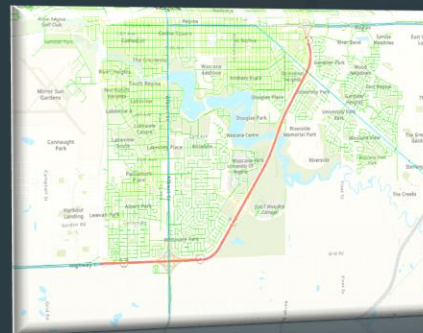
Centre Pivot Detection



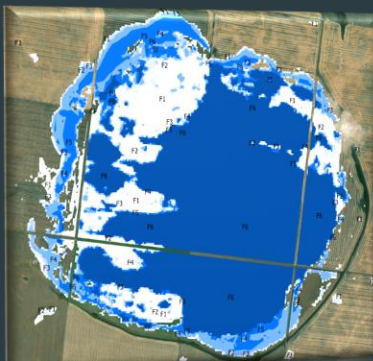
Oblique Imagery



Landcover Analysis

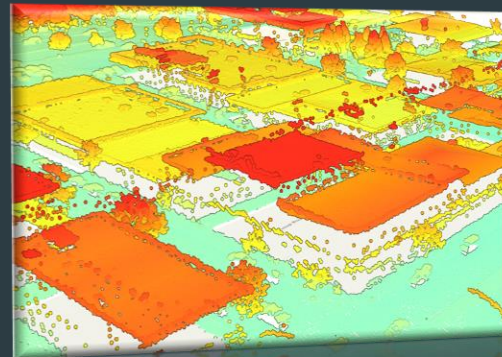


Routing



Flooding

LiDAR



Dashboards

Revaluation and Quality Initiatives

Sales Data Application

- Increase quality
- Enhanced data exploration
- Map sales through time
- Dynamic statistic analysis

Locational Variables Detection

- Increased quality
- Increased consistency
- Automated and can adapt to changes

Value Trend Application

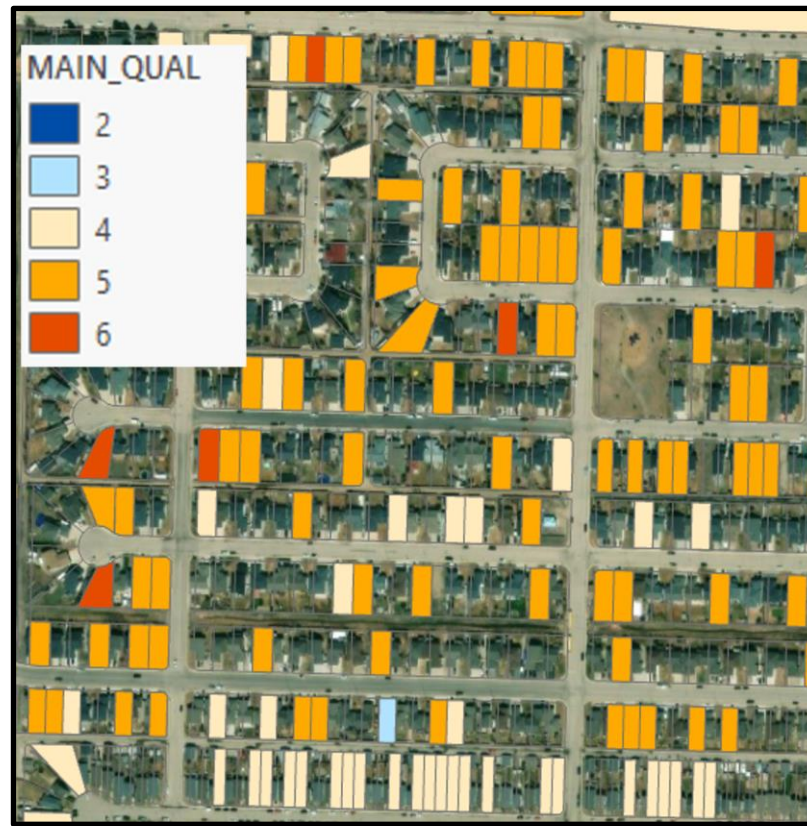
- Enhanced data auditing
- GIS based validation capabilities
- Early outlier detection maps

Sales Data Application

Curb Adjustment



Residential - Main Quality



Locational Variable Data



Variables can impact the market value of properties



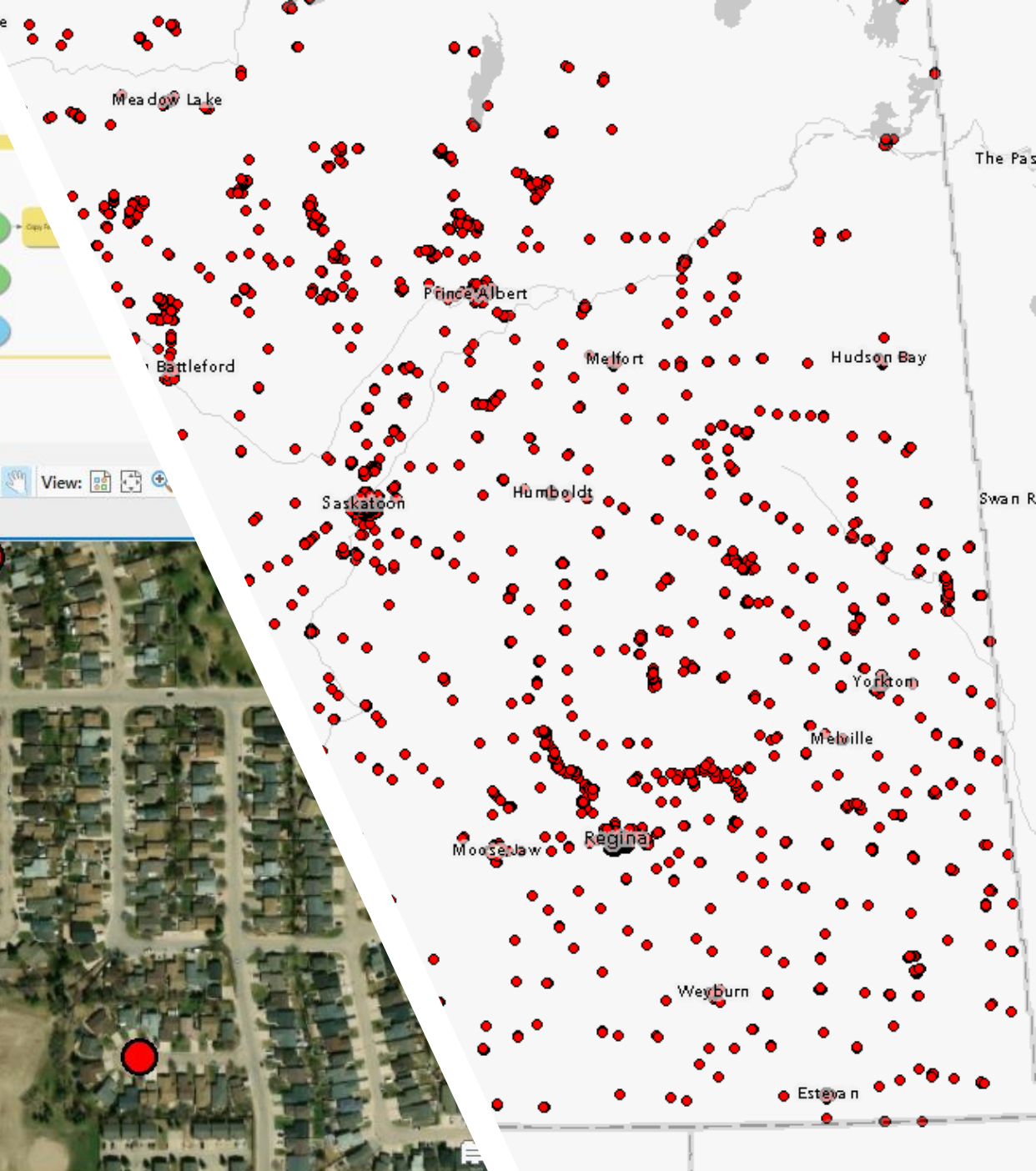
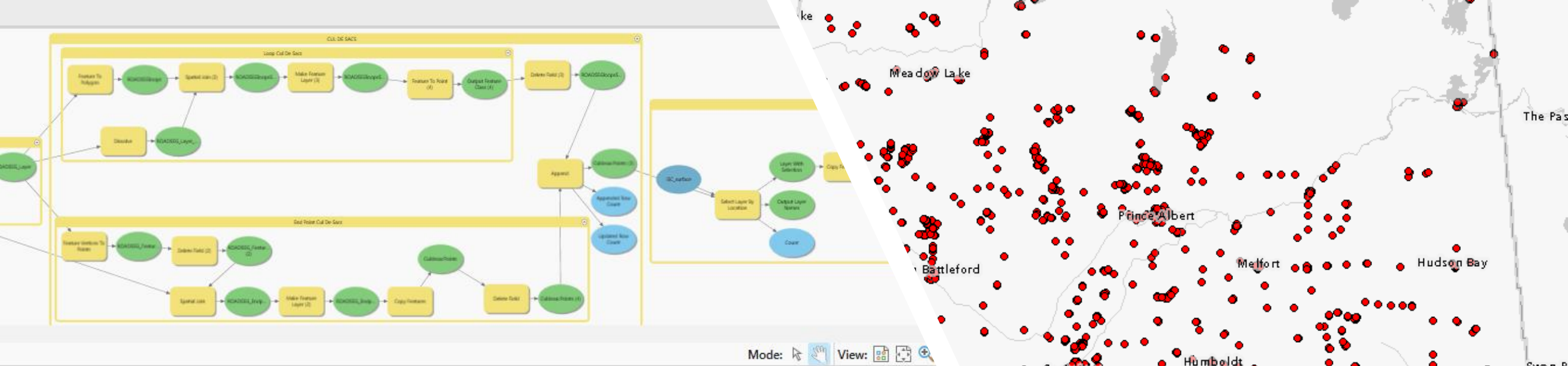
Locational variable data must be collected and correctly applied to sales and property records



Appraisers manually collect locational variable data



GIS can automate this at provincial scale



Potential Future Use

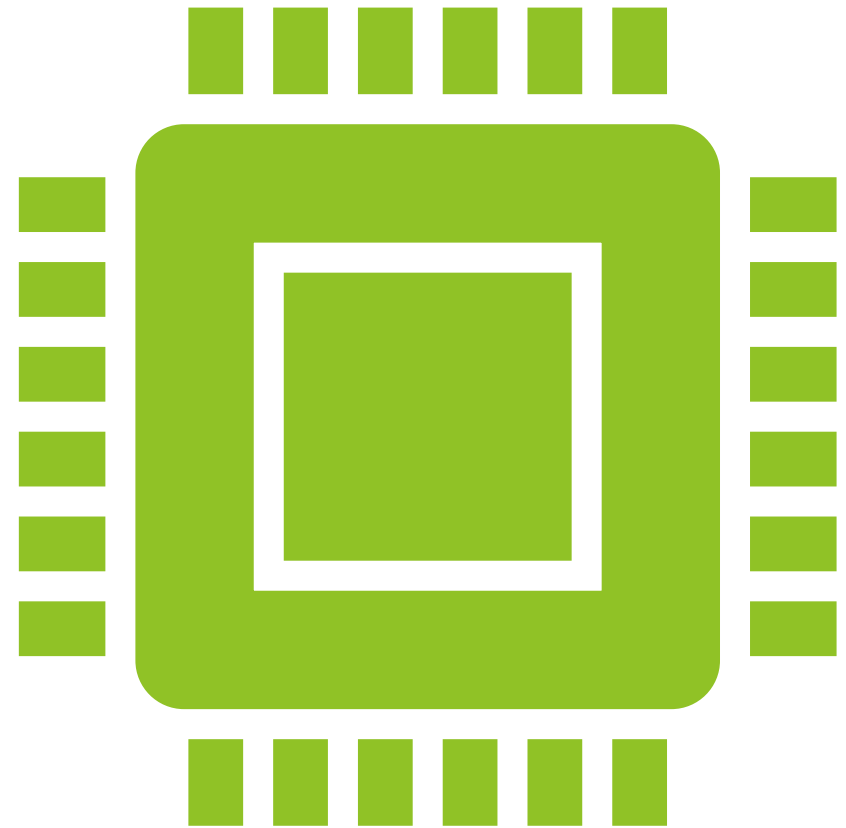
Relevant portions of assessment data could be derived from detectable features

Automated processes, with outcomes validated and fine-tuned by appraisers

Increased efficiency, data quality and fairness

Geo AI Horizon

- ▶ GEO AI has been advancing these capabilities even further in the industry
- ▶ Process and result verification is even more important
- ▶ **Data Driven Results and Transparency** are key requirements
- ▶ SAMA will continue to monitor Geo AI technology



Value Trend Application

Sidebar

- Property Use Code**
No category selected
- NBHD**
No category selected
- Tax Class**
No category selected
- Quality**
No category selected

Value Application_Test_1.0

Jurisdiction: OUTLO

Average Ratio

1.1

Max Ratio

2.4

Min Ratio

0.3

Value Application

Legend

AssessmentAnalysis

Appraised_Values_Ratio

- > 4.03 - 4.97
- > 3.15 - 4.03
- > 2.38 - 3.15
- > 1.83 - 2.38
- > 1.47 - 1.83
- > 1.22 - 1.47
- > 1.06 - 1.22
- > 0.89 - 1.06
- > 0.52 - 0.89
- 0 - 0.52

AssessmentAnalysis-Projected Year

Appraised_Values_Ratio

- > 4.03 - 4.97
- > 3.15 - 4.03

Map legend

NBHD	Appraised Value Ratio
100	~1.05
110	~1.10
120	~1.05
130	~1.05
135	~0.95
200	~1.05

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NBHD Quality Tax Class Condition Plot Use

Questions?

