

Session Abstracts

From Maps to Meaning: Agentic AI for Natural Language Interaction with Geospatial Data and Imagery

Presented by Brianna Zumhof, Eagleview

Description: Advancements in large language models (LLMs) and agent-based systems are transforming how users interact with geospatial data. This session explores a new paradigm where natural language becomes the primary interface for querying and analyzing high-resolution imagery within GIS.

We explore emerging platforms that integrate LLMs with geospatial services, enabling users to define areas of interest and ask complex questions—such as identifying large roofs or summarizing property characteristics—without specialized expertise. Agentic workflows coordinate geospatial queries, feature extraction, and image analysis to deliver actionable results.

For local governments, this approach lowers barriers to data access, accelerates workflows in assessment, emergency response, and code enforcement, and expands GIS usability across departments. We also discuss architecture, integration challenges, and future directions for AI-driven geospatial systems.

Keywords: *Artificial Intelligence, Machine Learning, Agentic AI, GIS for All*

Your ArcGIS Monitor Has Been Taking Notes. Are You Reading Them?

Presented by: Jessica Lott and Holly Kluever, dymaptic

Description: The gap between data collection and operational insight can be wide, and it costs time, resources, and sometimes service continuity. This session explores that gap and how to close it by using AI to turn raw metrics into meaningful context. With ArcGIS Monitor as a foundation, we'll walk through how a natural language query like "What services are taking the most memory?" can return an immediate, contextualized answer, and how a weekly summary report can land in your inbox without any humans having to build it.

Come away with a clearer understanding of what ArcGIS Monitor is collecting and how AI analysis layers on top of existing infrastructure investments. No AI background required. If you run ArcGIS Enterprise and have ever wished your infrastructure could just tell you what's going on, this session is for you. (If you're not sure whether Monitor is even part of your stack, it may be worth checking, as it is included in many Esri Enterprise Agreements.)

Keywords: *ArcGIS Monitor; AI; Infrastructure Monitoring*