FIG WORKING WEEK 2025
AND Locate25 THE NATIONAL GEOSPATIAL CONFERENCE
Collaboration, Innovation and Resilience: Championing a Digital Generation
FIG Geospatial Council of Australia
Brisbane, Australia 6–10 April

How ready are Generative AI agents for geospatial tasks?

AI is making Brisbane smarter—helping with flood prediction, urban growth, and sometimes deciding South Bank's artificial beach is an actual coastline. It's revolutionising mapping, but human sanity checks are still required.

Chris Landvogt

Sector Lead – Solutions Engineering – Esri Australia

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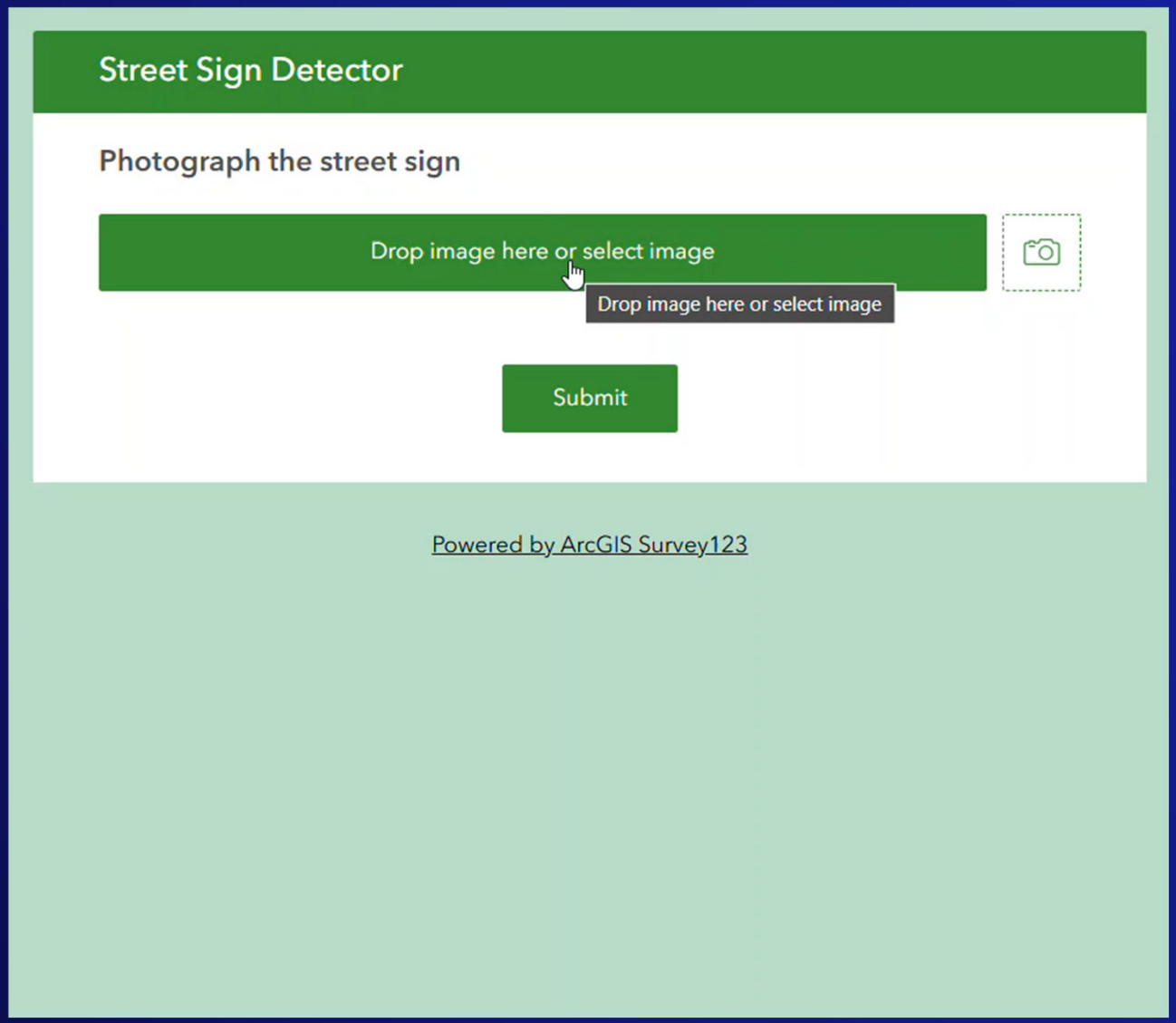
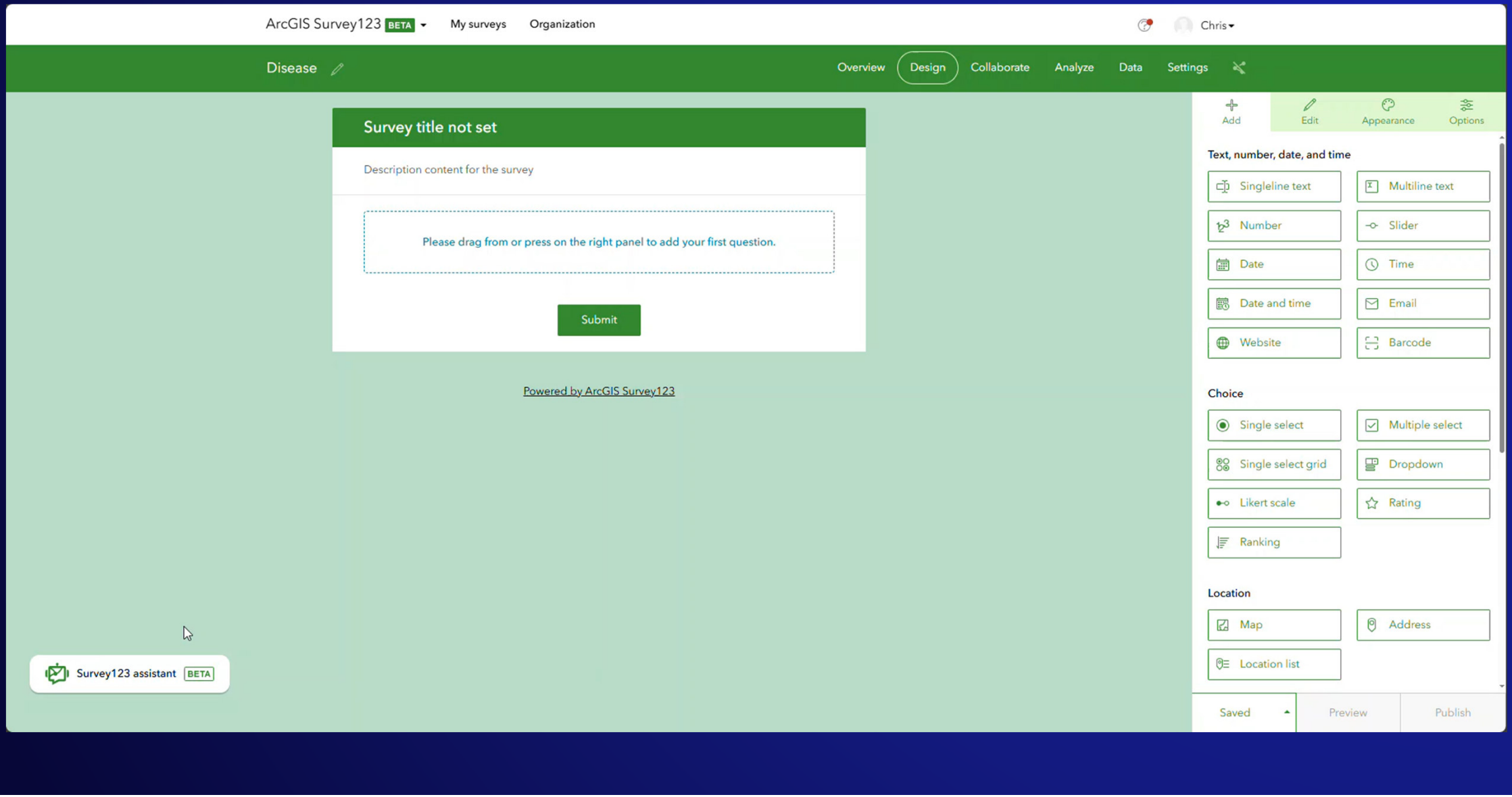
The Geospatial Industry: No Stranger to Adapting to New Technologies

- Theodolite/EDM
  - Aerial/Satellite Photography
    - GIS
      - GPS/GNSS
        - LIDAR
          - **AI**

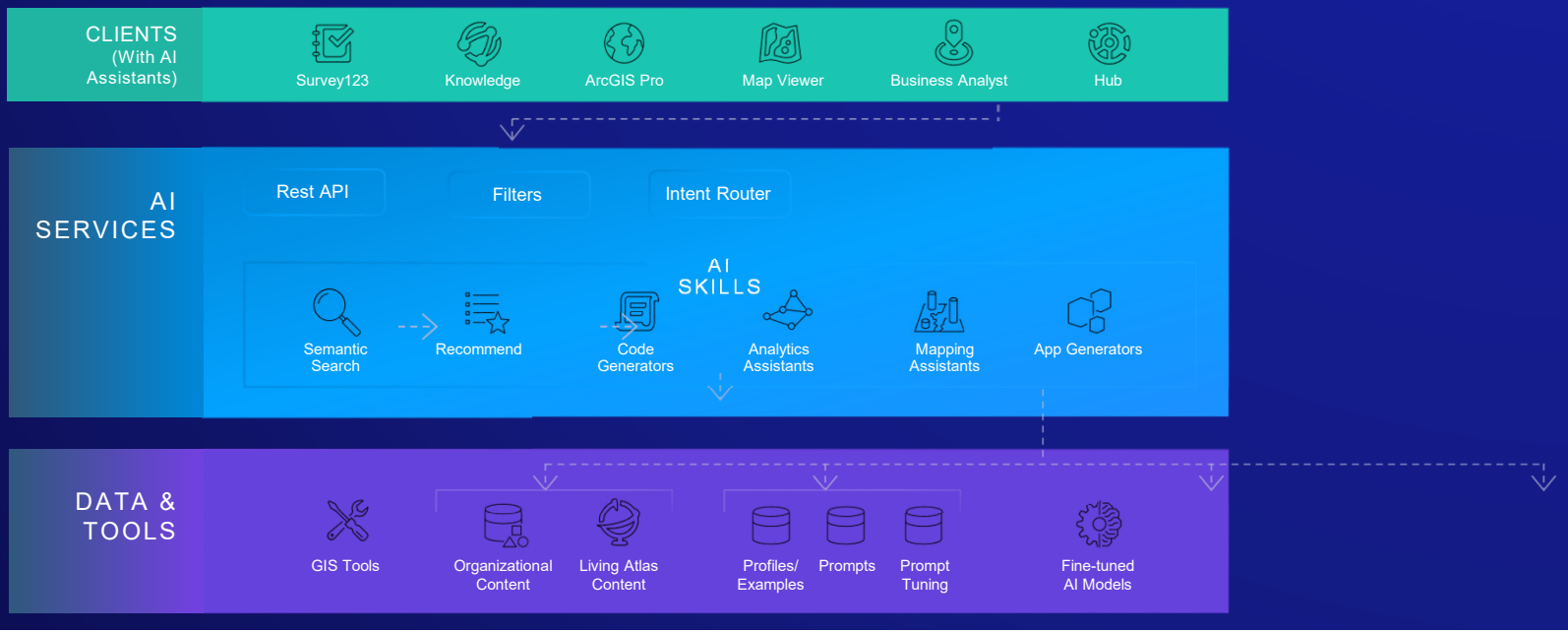

Street Sign Detector
Photograph the street sign
Drop image here or select image
Drop image here or select image
Submit
Powered by ArcGIS Survey123


ArcGIS Survey123 BETA
My surveys
Organization
Chris
Disease
Overview
Design
Collaborate
Analyze
Data
Settings
Survey title not set
Description content for the survey
Please drag from or press on the right panel to add your first question.
Submit
Powered by ArcGIS Survey123
Survey123 assistant BETA
Add
Edit
Appearance
Options
Text, number, date, and time
Singleline text
Multiline text
Number
Slider
Date
Time
Date and time
Email
Website
Barcode
Choice
Single select
Multiple select
Single select grid
Dropdown
Likert scale
Rating
Ranking
Location
Map
Address
Location list
Saved
Preview
Publish

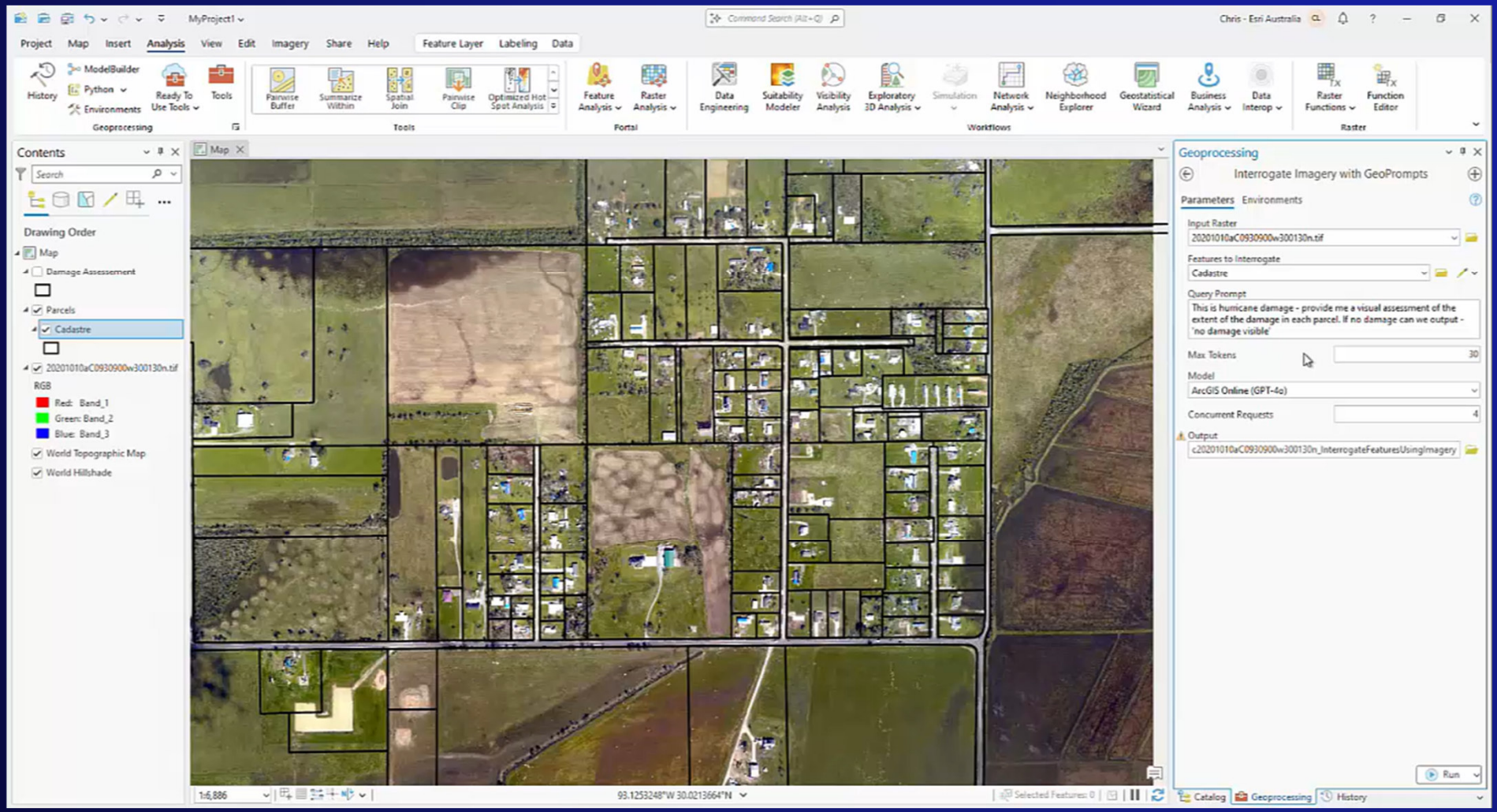
The most valuable data are behind firewalls and not in open and public domains

The future of useful AI is tightly coupled with Enterprise GIS

- Delivers Authoritative, Trusted Data Sources
- Seamlessly Integrates with AI
- Enables Data Review and Workflow Orchestration
- Offers Scalability for Growing Needs
- Fosters Collaboration Across Teams

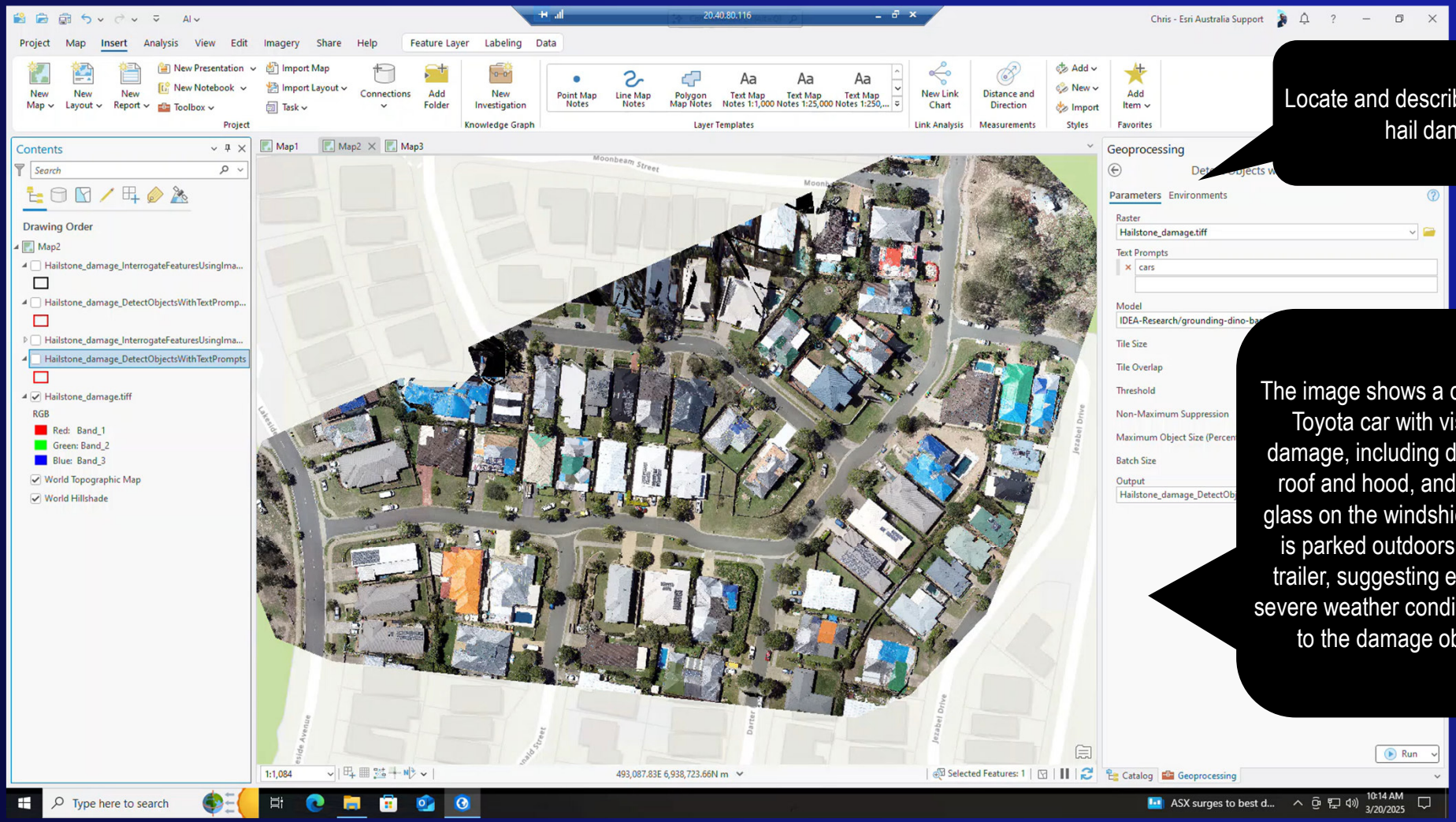


Where are we at with AI? Where are we going?



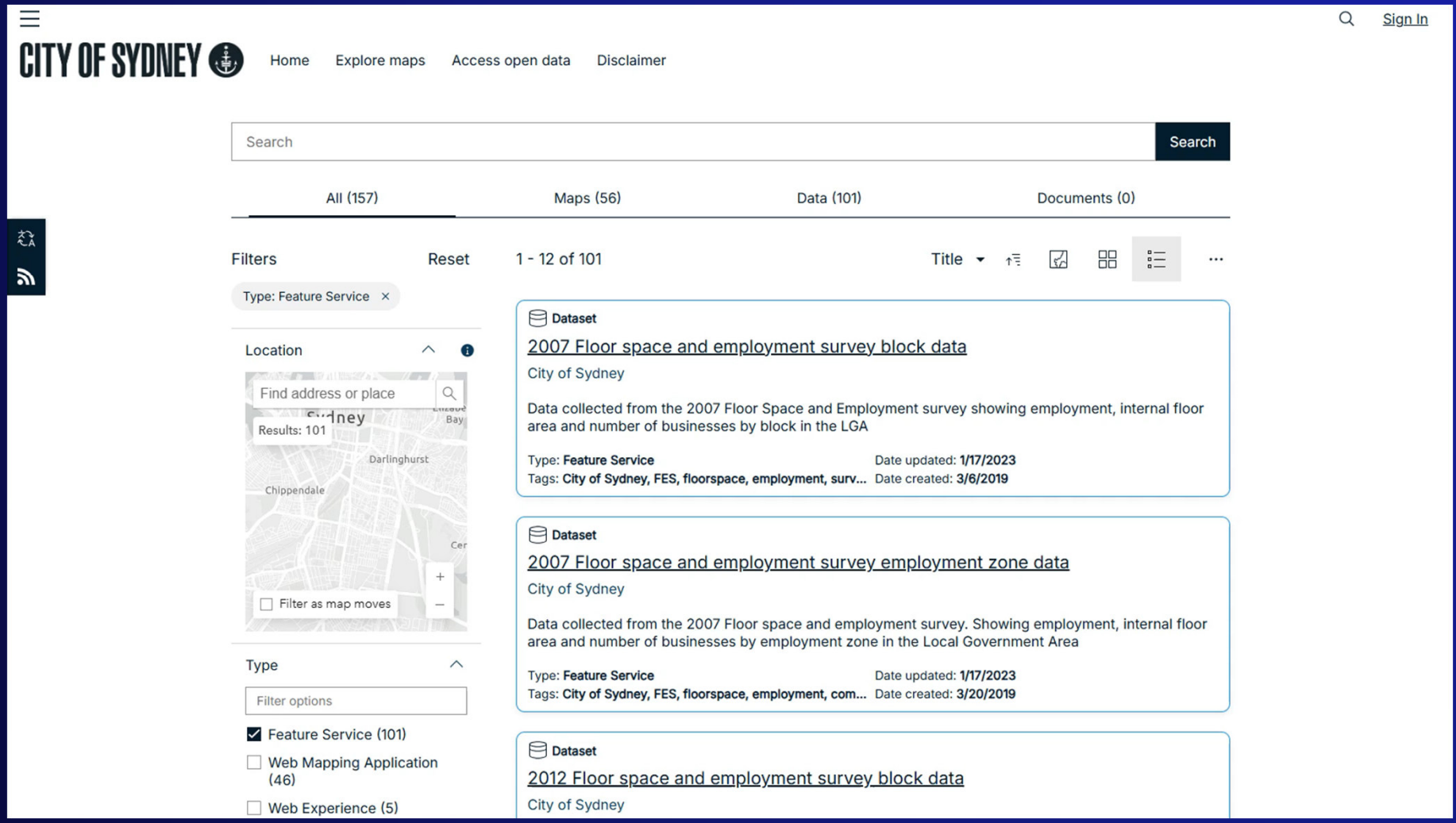
Spatially accurate cadastre + GPT-4o

Where are we at with AI? Where are we going?

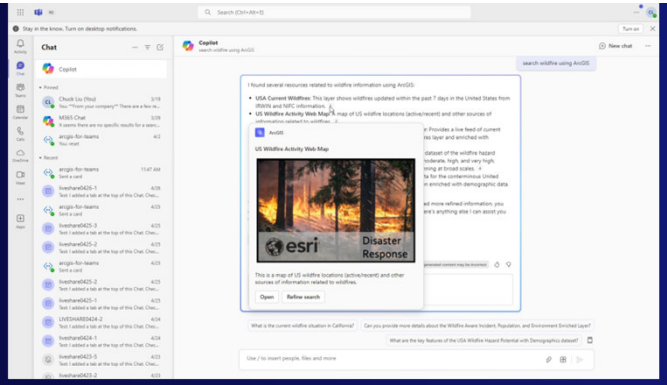


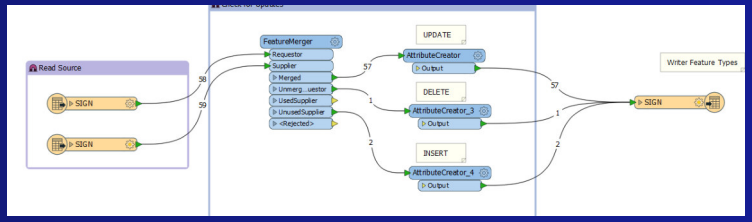
GroundingDino + GPT-4o

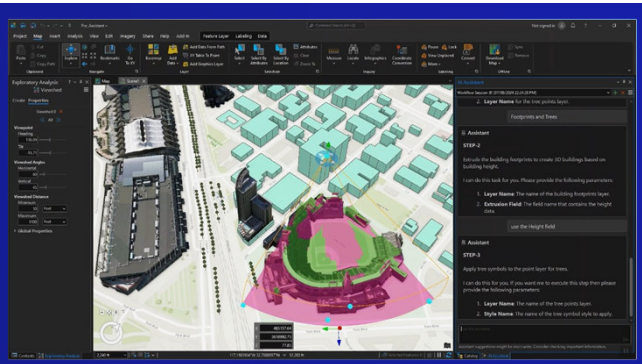
Where are we at with AI? Where are we going?



ArcGIS Hub + OpenAI

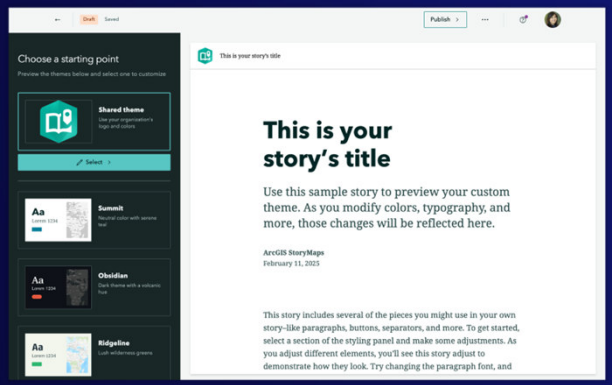


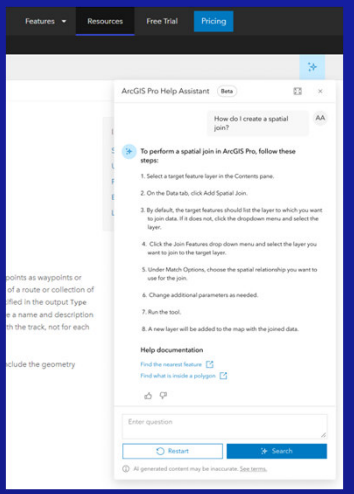


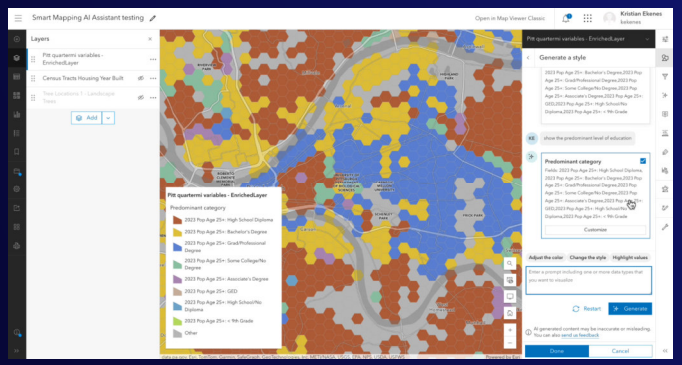


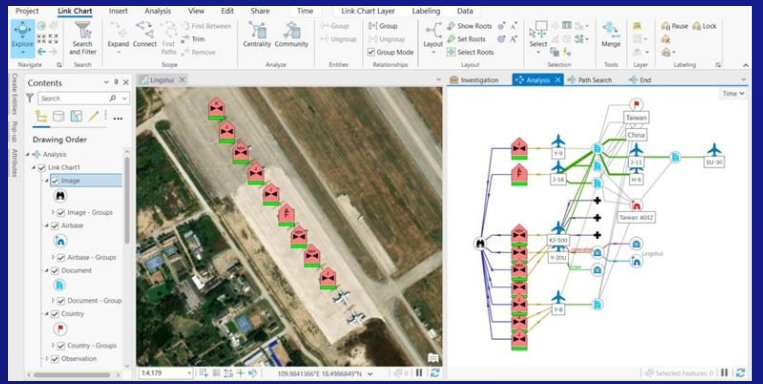
What's coming…

- Code assistants in ArcGIS Pro - *SQL, ArcPy, Arcade*
- Documentation assistants
- Metadata assistants
- ArcGIS Workflow Manager
- ArcGIS Knowledge - *Cypher*
- ArcGIS Data Interoperability – *SQL, RegEX, Python*
- Web Map style/query assistant
- ArcGIS for Teams
- ArcGIS StoryMaps









Tracking and responding to disease

Democratising access to geospatial data

Optimise community development

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

AI is ready to solve Geospatial Problems, but…