

Embracing AI in Land Administration

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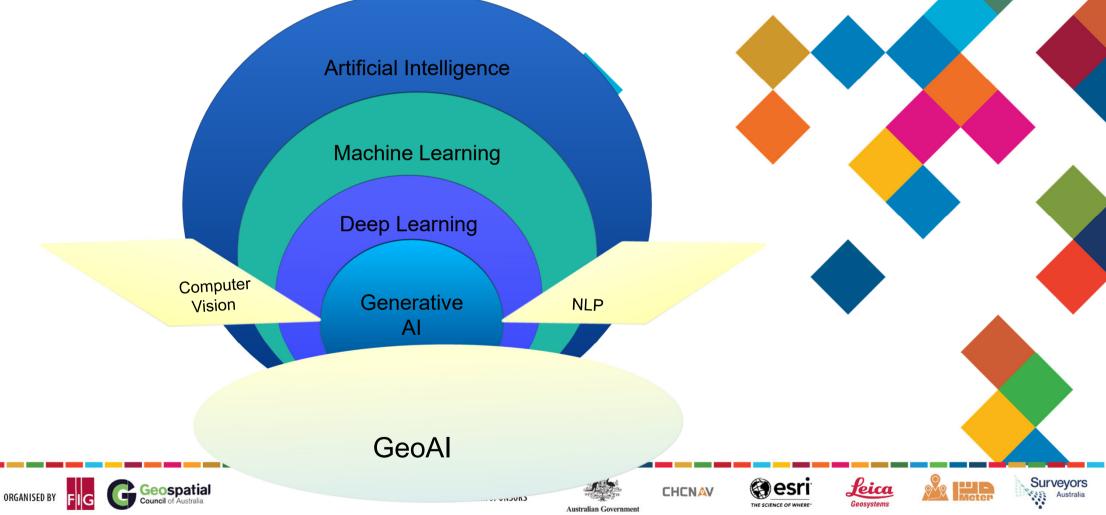
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GeoAl

Advancing the <u>Science of GIS</u>, with Al models, tools and techniques, to automate data extraction at scale and uncover valuable insights faster than ever.

AI Assistants

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GeoAl in GIS



Extracting data

- Computer vision on Imagery, 3D, and Video data
- Natural Language Processing on Unstructured Text data

Analyzing data

Machine learning and deep learning on
Vector, Tabular, and Time series data



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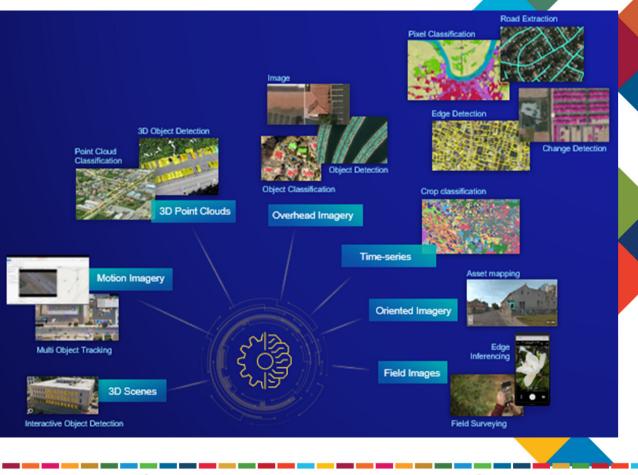
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Extracting Spatial Data

Feature extraction from Imagery, 3D, and Video

Highlights

- Model training wizard
- AutoDL
- Multi-feature extraction
- Attachments
- Time-series
- SuperRes New Model (Pro)
- SAMLoRA fine-tune (Pro)
- Prithvi fine-tune (Pro)
- Text prompts for labelling
- Multi-GPU inferencing
- 3D Object Detection





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GIS Living Atlas of the World

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Road Extraction (Global)

Pretrained GeoAl Models





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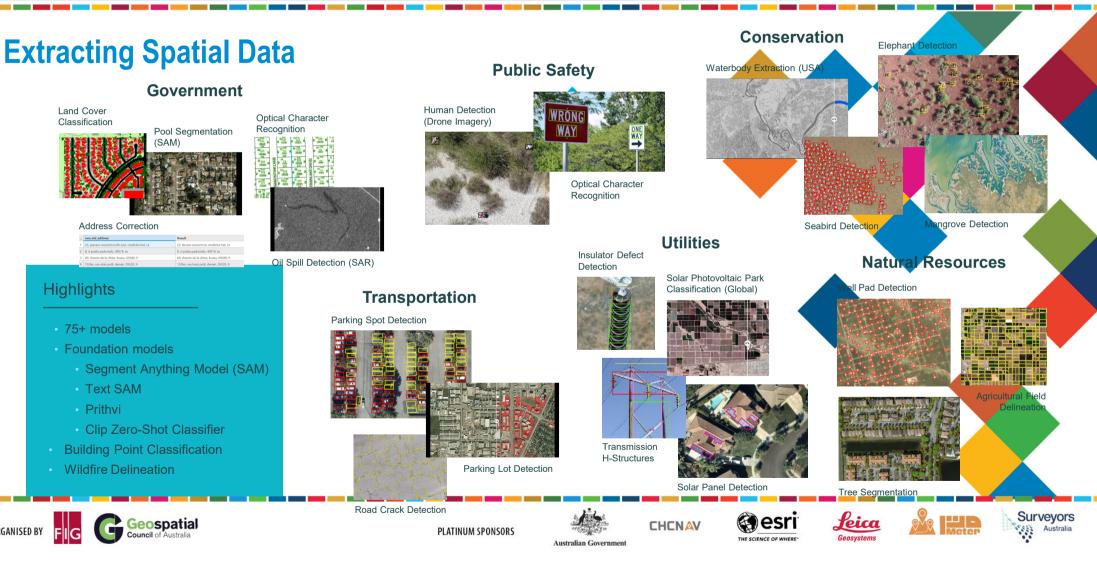


Collaboration, Innovation and Resilience: Championing a Digital Generation



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Change Detection & Building Feature Extraction









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Building Extraction

City of Cape Town

- Informal Settlement
- Drone Imagery





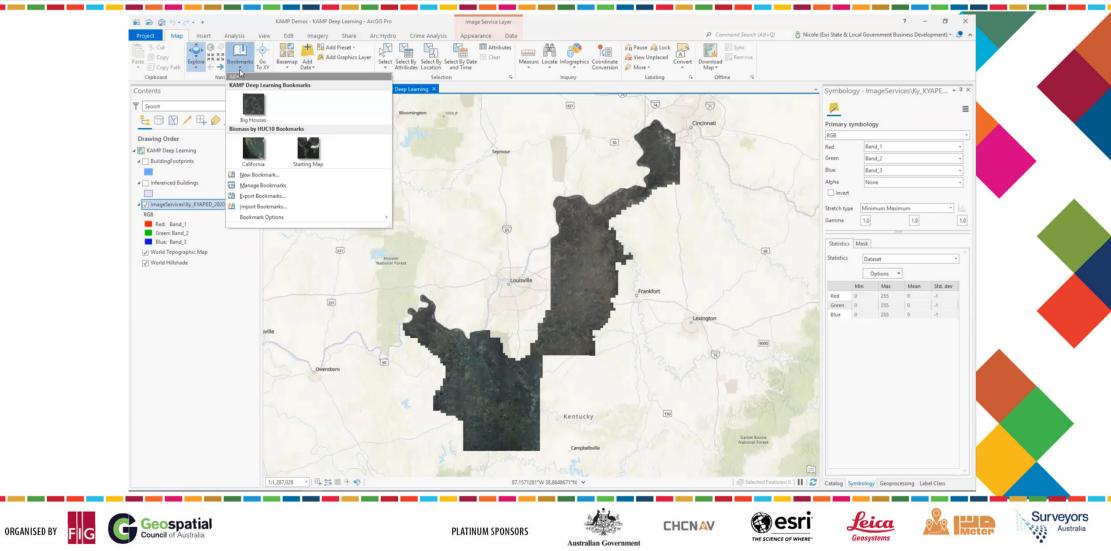
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0850014980Deed with Limited Warranty (Pine Trace Village remaining land) v01





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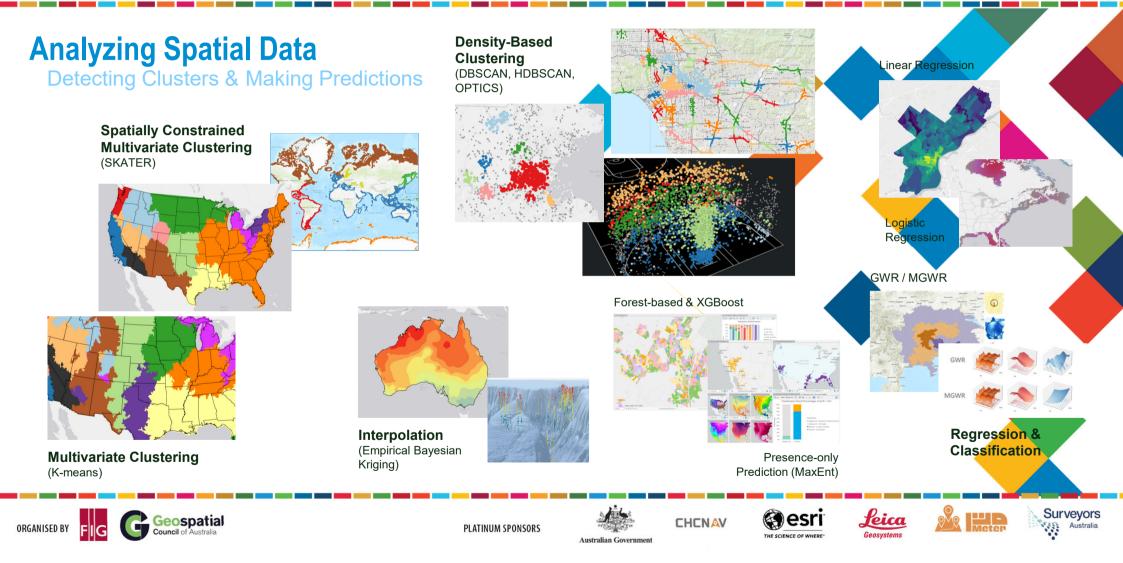






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Artificial Intelligence **Artificial Intelligence Machine Learning Machine Learning Deep Learning Deep Learning** Generative AL Surveyors Australia Leica Geosystems esri Geospatial Council of Australia ORGANISED BY FIG C PLATINUM SPONSORS THE SCIENCE OF WHERE Australian Government







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AND Locate25 WEEK 2025

WORKING

Scope and Personas for AI Assistants

Standalone AI Assistants

A completely new user experience for non-GIS experts to explore, visualize and analyze geospatial content through natural language

Mapping Analysis

GIS

Content



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AI Assistants Leveraging Generative AI to streamline your work and make GIS easier for everyone Survey123 **Documentation** Business Analys Assistants for... Smart Mapping Mapping ArcGIS Pro help Analysis • App creation Next Analysis View All Magery Dark Net Star Analysis Constraints of the second star and the second star an Data management Microsoft Tean Administration Search Learning Pro GIS Configurable Assistant Apps Boosting productivity Also in the works... ng GIS easier Enhanced search Coding assistants for Arcade and Python Streamlined metadata editor • Many more... Surveyors Beta new coming into ArcGIS in 2025 CHCNAV ORGANISED BY Council of Australia PLATINUM SPONSORS FIIG THE SCIENCE OF WHEE Australian Government



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Building Survey Form X +			- • ×
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GIS is being infused with even more AI Technologies

Enhancing the user experience, becoming a more intelligent GIS platform for organizations

Intelligent Application Experiences

Expedited Decision Making



Improving User Productivity, Providing Valuable and Faster Insights



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STEP 1: SELECT HERE THE THREE MOST RELEVANT SDGS STEP 2: COPY THE SDG INTO PREVIOUS SLIDE **3** GOOD HEALTH AND WELL-BEING 4 QUALITY EDUCATION 6 CLEAN WATER AND SANITATION AFFORDABLE AND Clean Energy 8 DECENT WORK AND ECONOMIC GROWTH **9** INDUSTRY, INNOVATION AND INFRASTRUCTURE 1 NO POVERTY 2 ZERO HUNGER GENDER EQUALITY 5 13 CLIMATE ACTION 10 REDUCED INEQUALITIES SUSTAINABLE OFFICE 12 RESPONSIBLE CONSUMPTION 14 LIFE BELOW WATER 15 LIFE ON LAND **16** PEACE, JUSTICE AND STRONG **17** PARTNERSHIPS FOR THE GOALS AND PRODUCTION INSTITUTIONS \sim Surveyors Leica esri Geospatial Council of Australia ¢ CHCNAV Australia ORGANISED BY FIIG PLATINUM SPONSORS Geosystem THE SCIENCE OF WHERE Australian Government