Microsoft

LAB597:
Make More Informed Decisions with Geospatial Intelligence

Prasad Komma
Principal Technical Program Manager, Planetary Computer
prasadkomma@microsoft.com

Lab Proctors

Gustavo Hidalgo
Senior SWE

Qianqian Wang
Senior SWE

Emilio D'Angelo
Senior SWE

Martin Tuip
Senior PMM
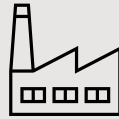
Everyone has Geospatial questions

Civil Government

Who is at risk of flooding?

Defense

What are my adversaries doing?

Retail

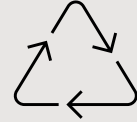**Where** are my supply chains vulnerable?

Energy

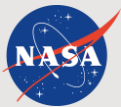**When** and Where should I trim vegetation?

Financial Services

Why are wheat futures down?

Insurance

How much should I price that premium?

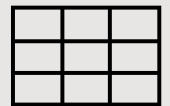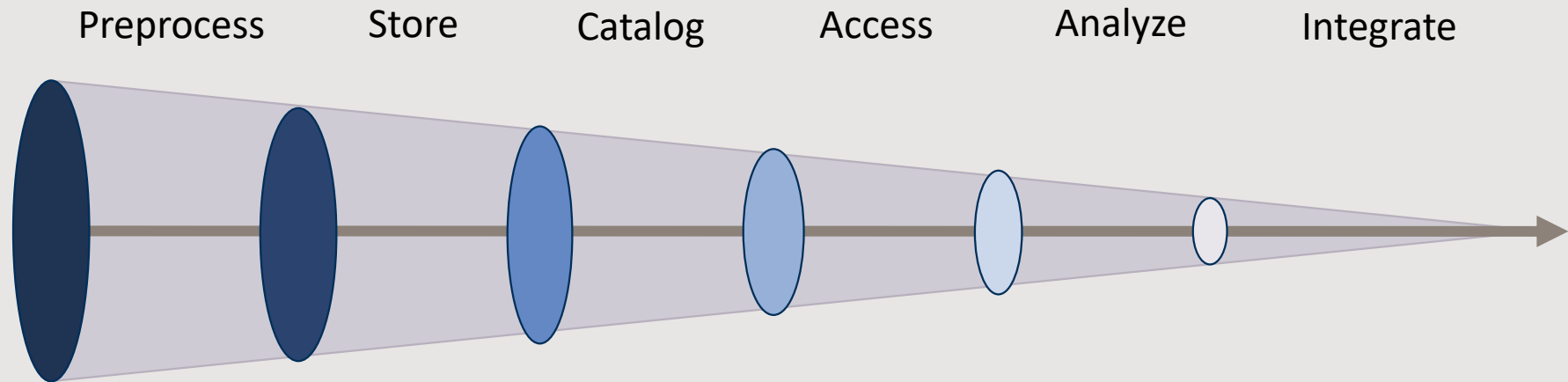**But answering geospatial questions requires extracting insights from geospatial data...**

Government Data

Commercial Satellite Imagery

Drone

Preprocess   Store   Catalog   Access   Analyze   Integrate
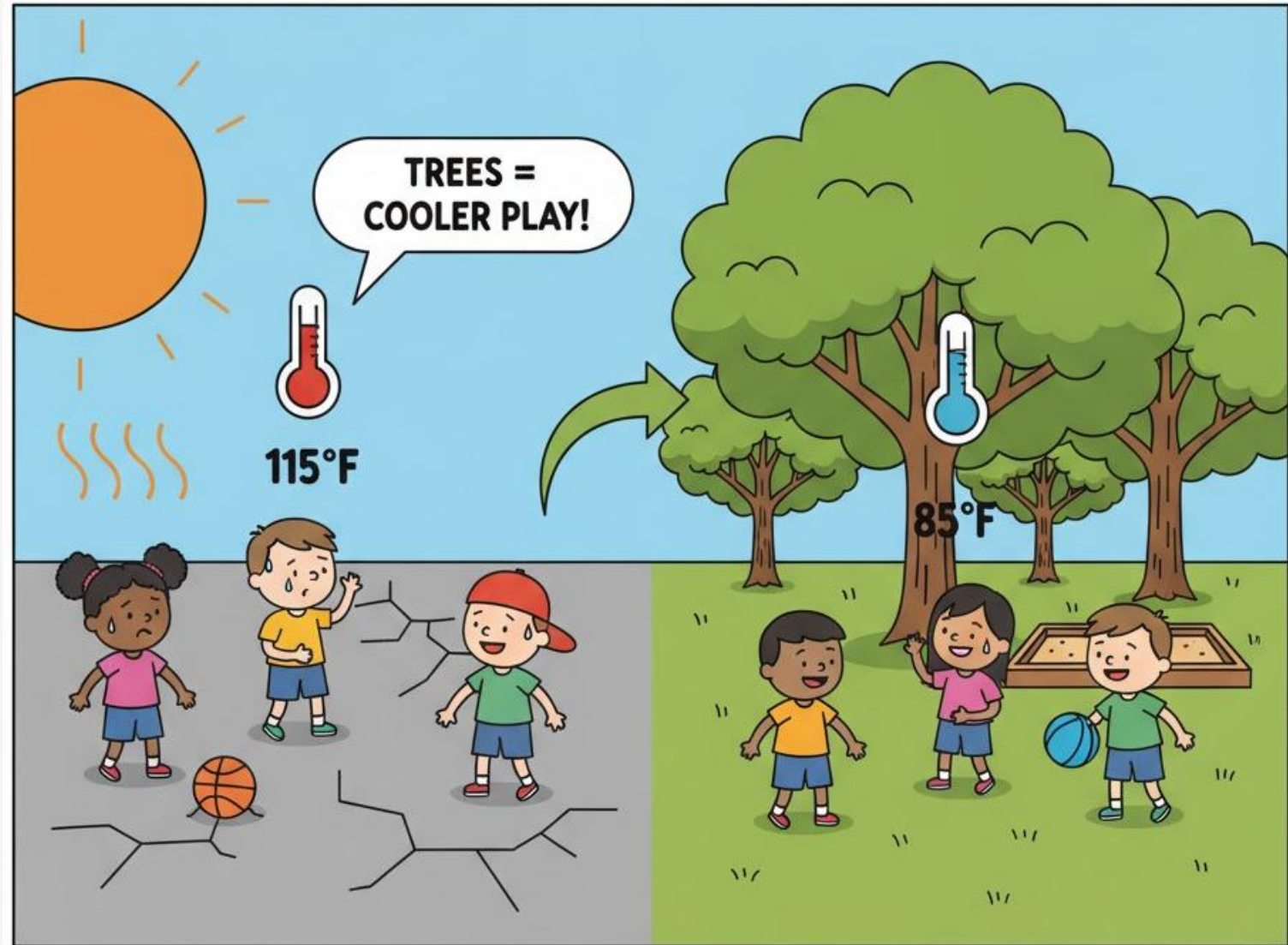
Tabular Data

Maps

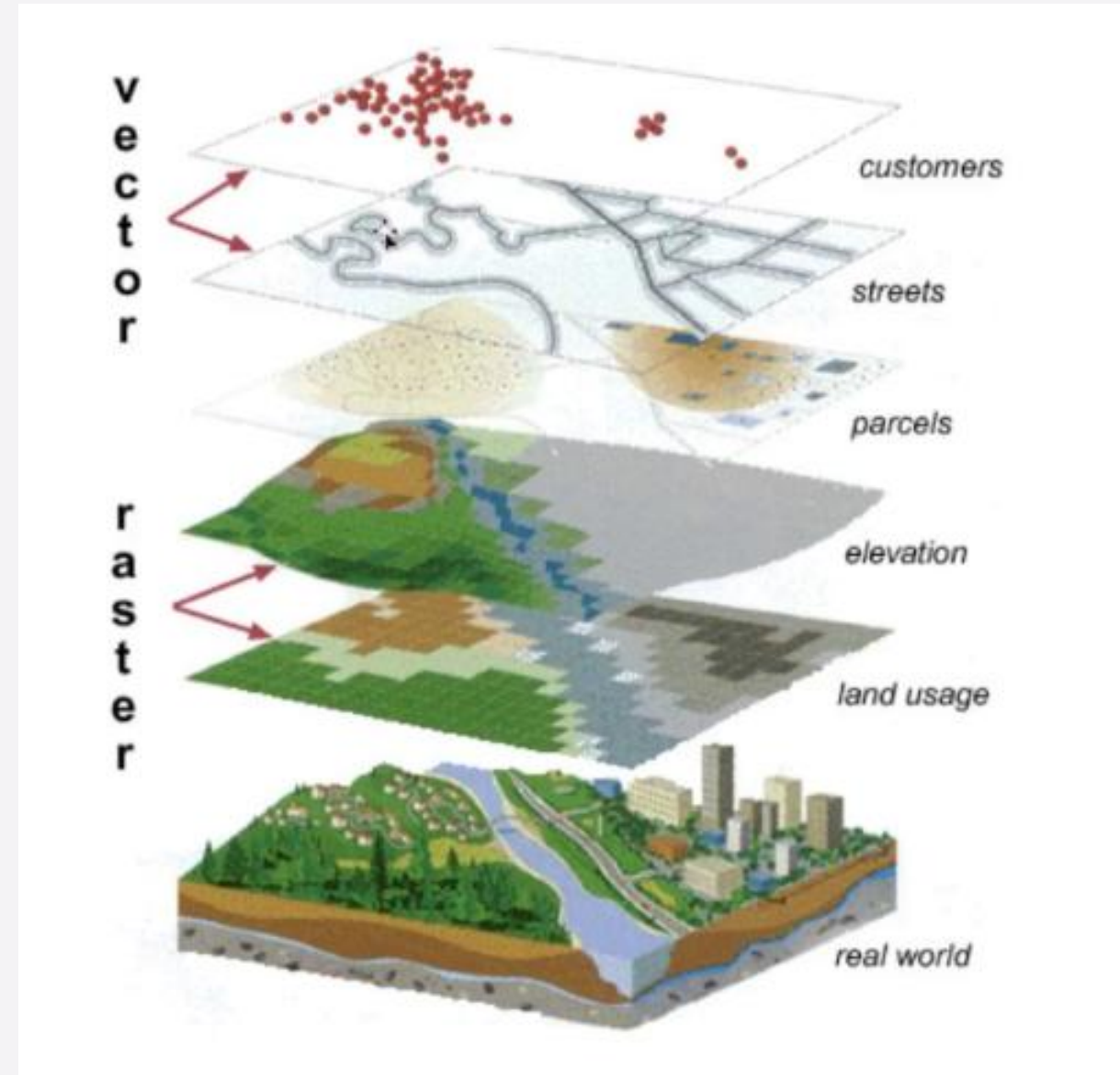# Lab Scenario: Mitigating Urban Heat Islands

- **Problem:** too much heat makes it hard for kids to play outside safely

- **Question:** Which schools can benefit the most from greening efforts?

What is Geospatial Data?

· Data tied to a location on Earth.

· Describes where things are and their attributes.

· Used in everyday apps like maps and weather

· Enables analysis and decisions based on place.

Microsoft Planetary Computer Pro

Supporting enhanced decision-making using geospatial insights with the power of the cloud

Democratize access to geospatial data and empower your workforce

Allow experts from different industries to collaborate using geospatial data, automate business processes, and improve decision making.

Accelerate insights with a turnkey platform

Manage geospatial data at scale and focus on business-critical decisions.
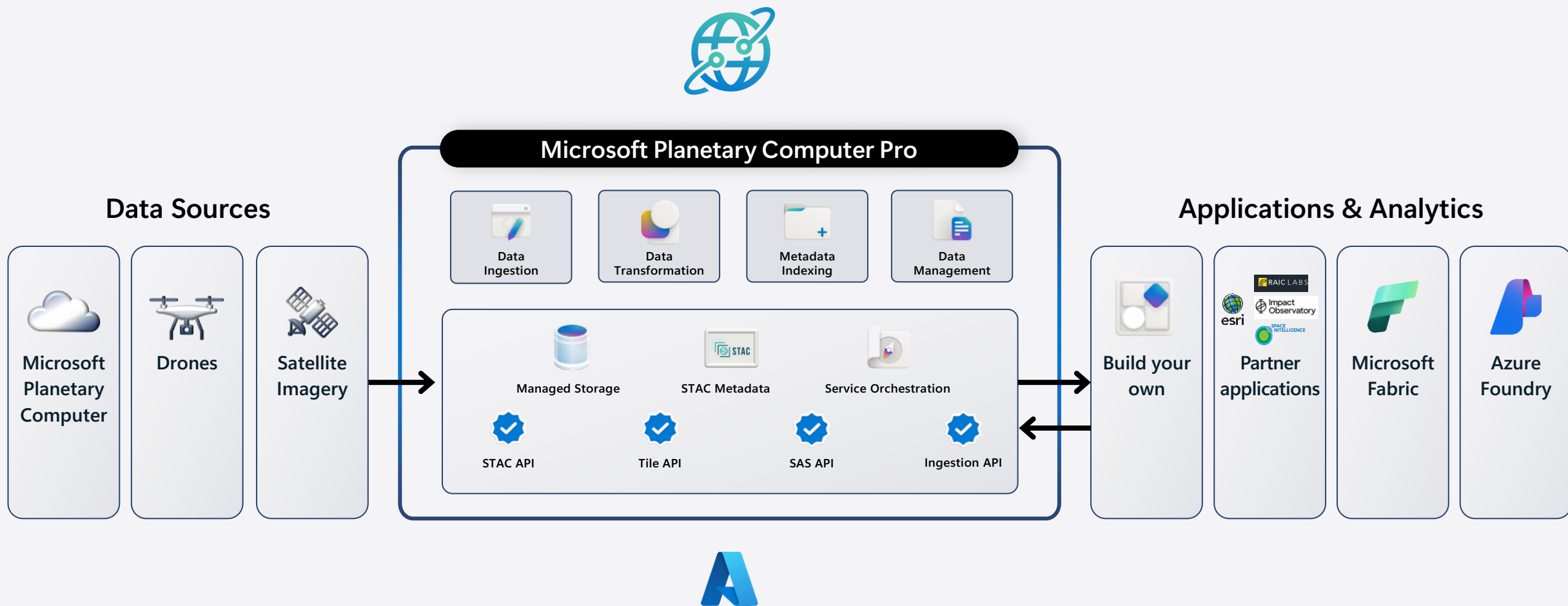
Optimize for AI and analytics

Rapidly standardize and process diverse geospatial datasets in a secure, cloud-native environment, creating a foundation for applied AI.

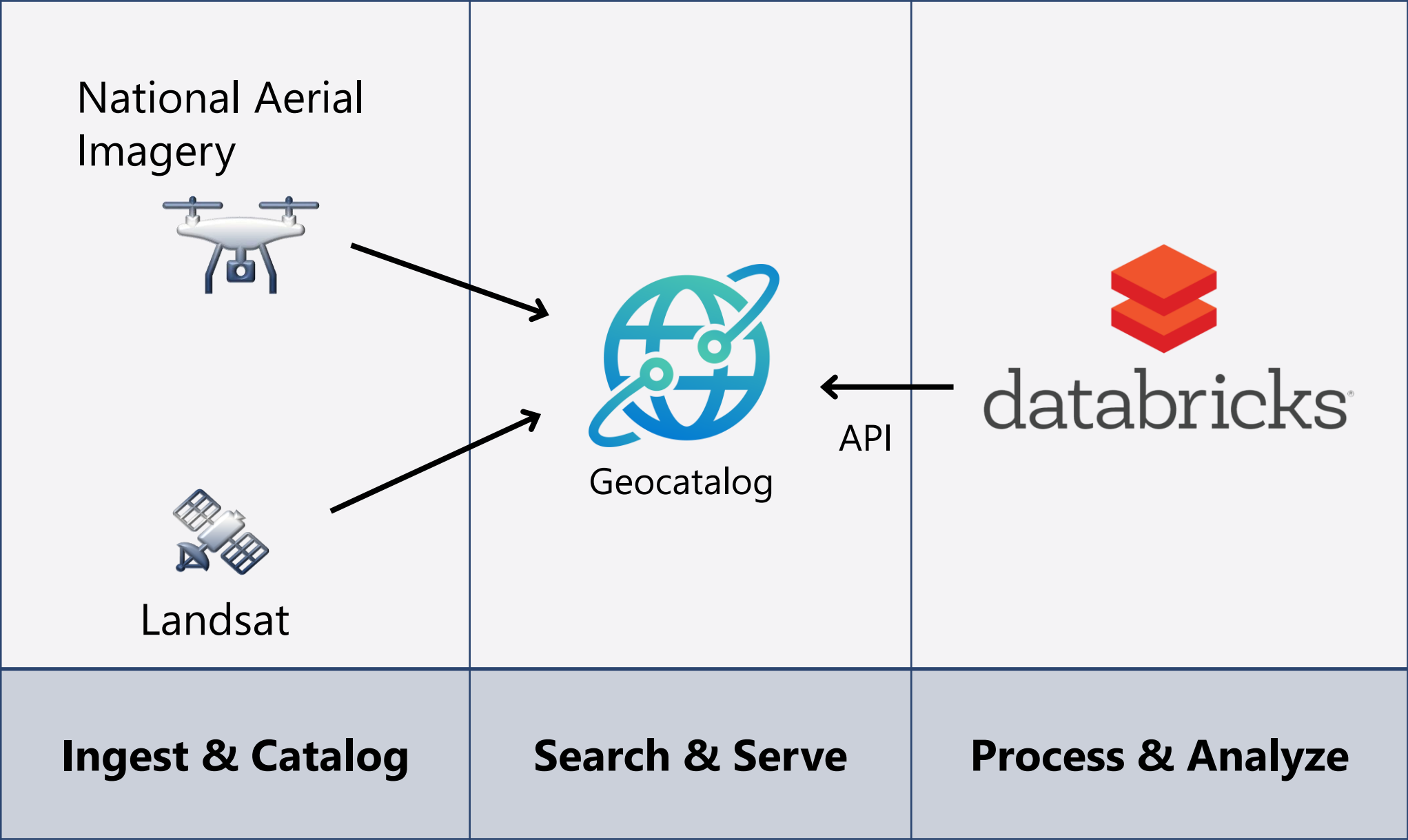### Unify geospatial data with enterprise systems

Combine and enrich your organization's data assets and IP with geospatial data, using current IT infrastructure investments and procedures for security, access, and integration.

Geospatial Data in Azure

Lab Scenario Architecture:

National Aerial Imagery

Landsat

Geocatalog

API

databricks

Ingest & Catalog

Search & Serve

Process & Analyze

Microsoft

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