

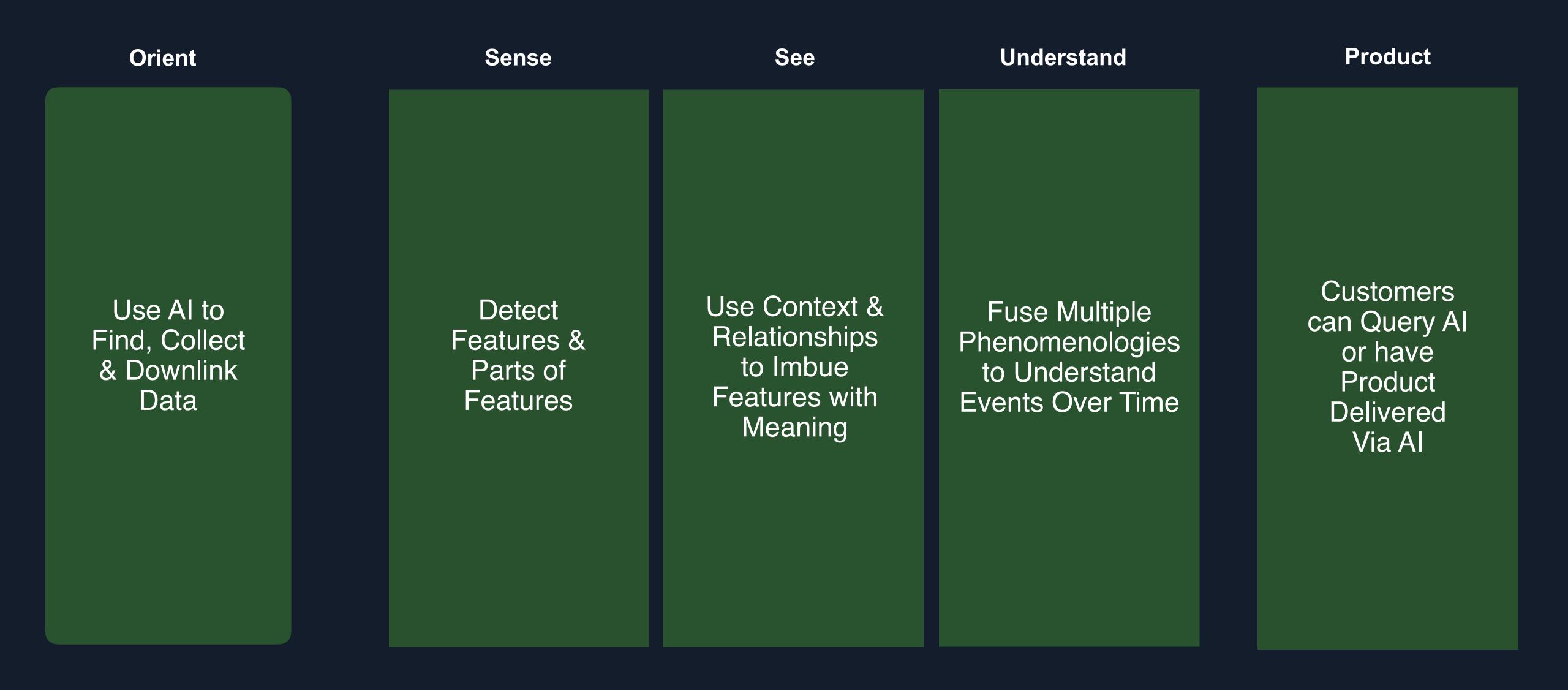
## How To Achieve the Al Multiplier Effect

McKinsey Reports 10-15% Productive Use

Primary Use Case is Feature Enhancement

Create an Al Fabric at the Systems Level

# Opportunities to Al-enable the Space Product Lifecycle



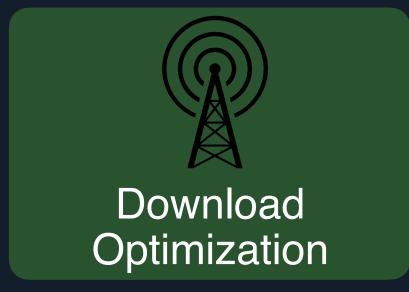
# A Variety of Opportunities to Process Space Data with Al

**Product & Delivery Attention & Perception Object Recognition Movement Recognition** Sensing Natural Context & Multi-Modal Tasking Signal Language Characterization Feature Features Queries Al-Data Parsing Pattern of Feature Complex Generated Recognition Feature Life **Products Fusion** Download Mission Events Single Feature Feature Meaning Al Fabric

# Al Satellite Tasking & Collection Control

Sensing

> Data Blocks Identification



**Attention & Perception** 

**Object Recognition** 

**Movement Recognition** 

### Al Facilitates Detection & Identification

### Sensing



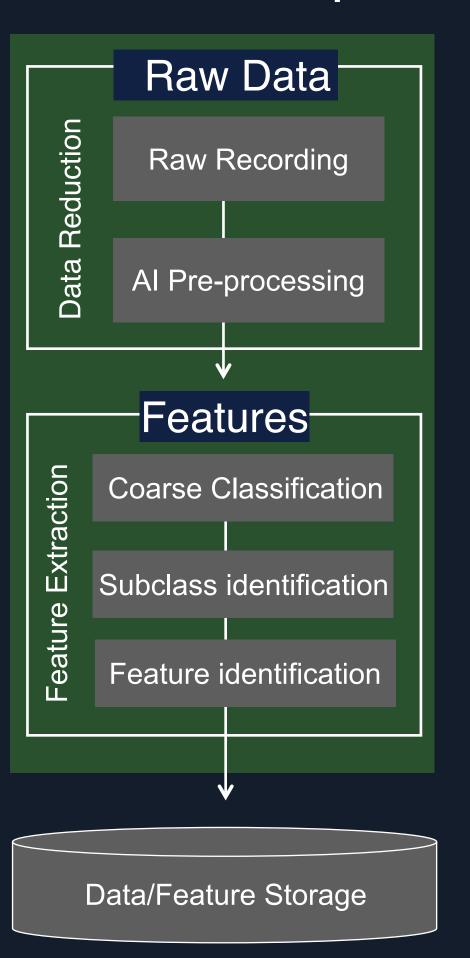
Data Blocks Identification



**Attention & Perception** 

**Object Recognition** 

**Movement Recognition** 



### Al's Role in Satellite Product Fabrication

Sensing

**Movement Recognition Attention & Perception Object Recognition** Raw Data Associated Data Reduction Ontology Graph Phenomenologies Raw Recording Al Pre-processing Fused Phenomenology Feature Relatedness Actor Tracking ML Fusion Augmentation -Features-Coarse Classification **Temporal Product** Frame of Reference Linking Subclass identification Path Recognition Feature identification Complex Feature Identification Geospatial Foundation Product & Context Graph Data/Feature Storage . Models (GFMs)

### Al-Enhanced Satellite Product Architecture

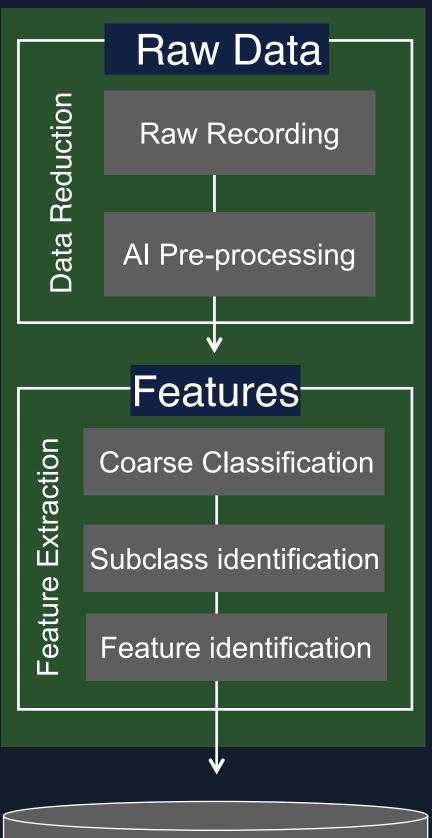
#### Sensing



Data Blocks Identification

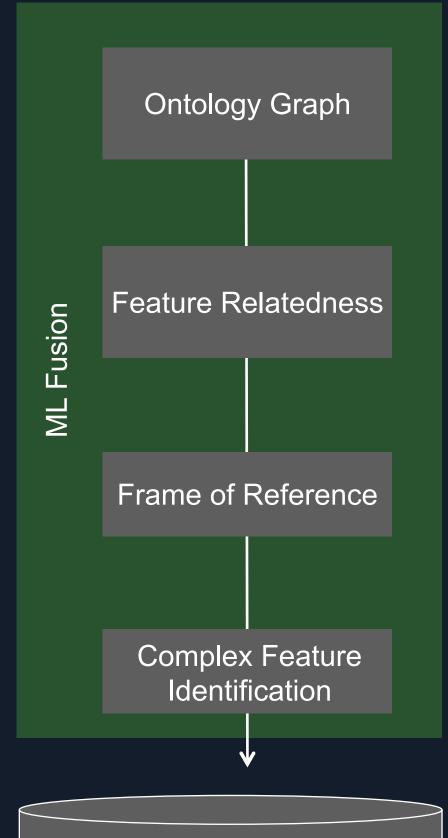


#### **Attention & Perception**



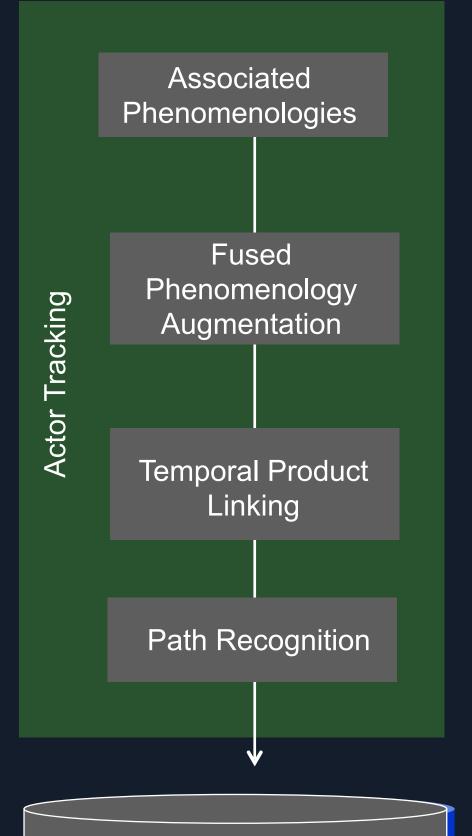
Data/Feature Storage

### **Object Recognition**



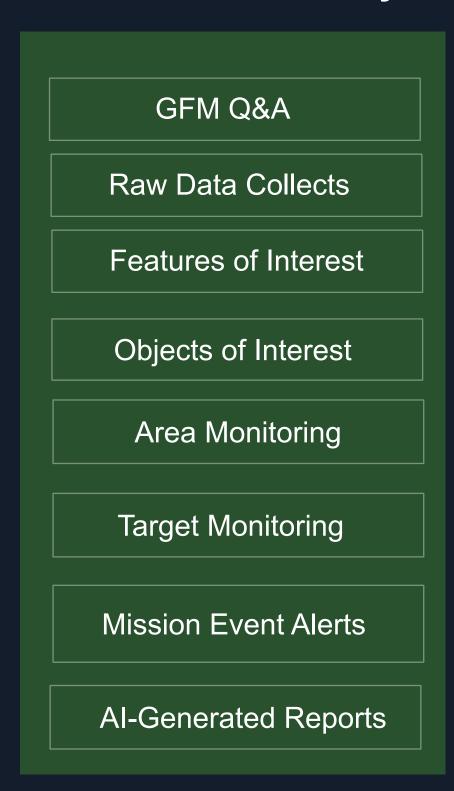
Product & Context Graph

### **Movement Recognition**



**Geospatial Foundation** 

Models (GFMs)



## An Al Fabric Unifies & Amplifies Individual Al Enhancements

