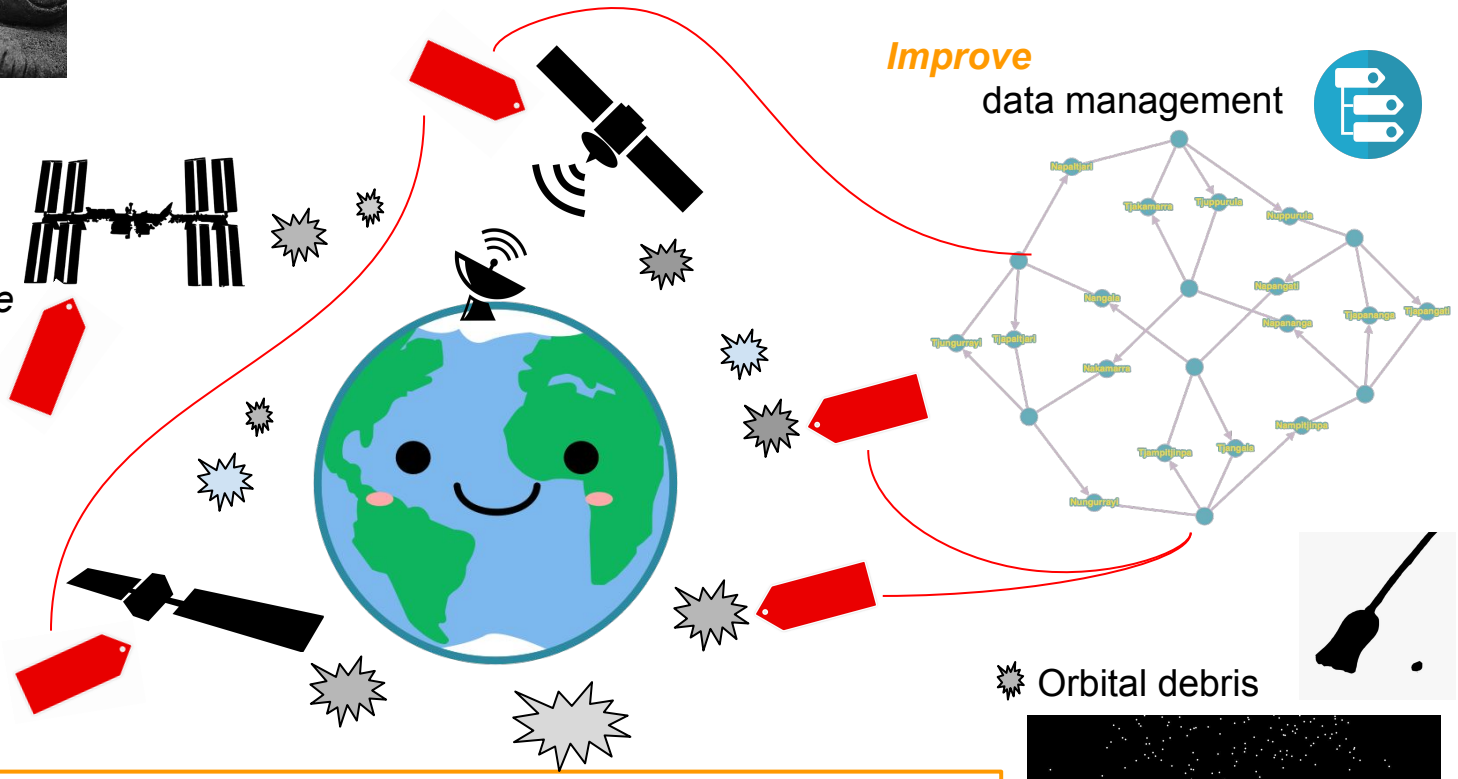
Orbital Semantic Sweep (SOS)

Semantic technology to help clean Earth orbit & make spaceflight safer

Preserve
our orbital environment

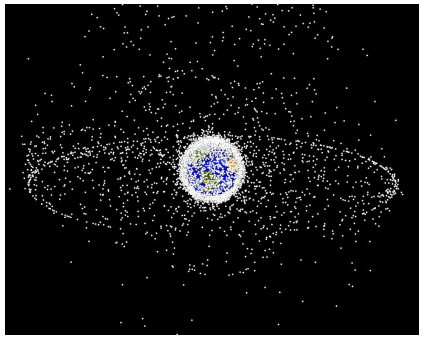
Explore *data*
search, retrieve, inference

Protect
our astronauts



Improve
data management

Orbital debris



- **Tag** data & **Model** phenomena with **semantic metadata** and **knowledge representation** (***AI***) systems
- ***Link data*** → *better env. awareness*!
- Taxonomies, terminologies, ontologies, graphs
  - *In-progress ontologies* - need contributors, mentors, looking for PhD studentship or work opportunity to sustainably work on this (http://purl.org/space-ontology)

ESIP res. presentation "Astronautical Knowledge Representation/Modeling to improve spaceflight and data mgnt"

by Robert J. Rovetto