



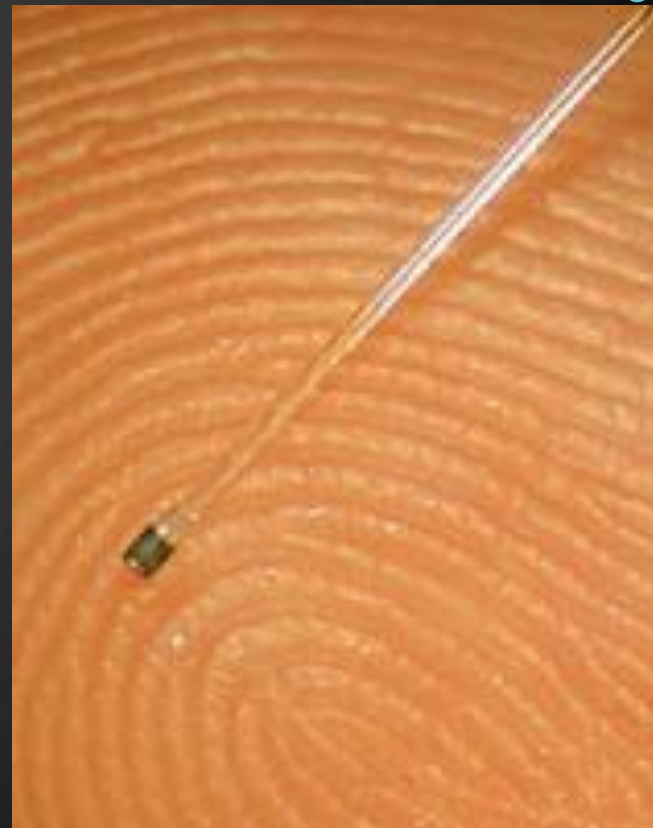
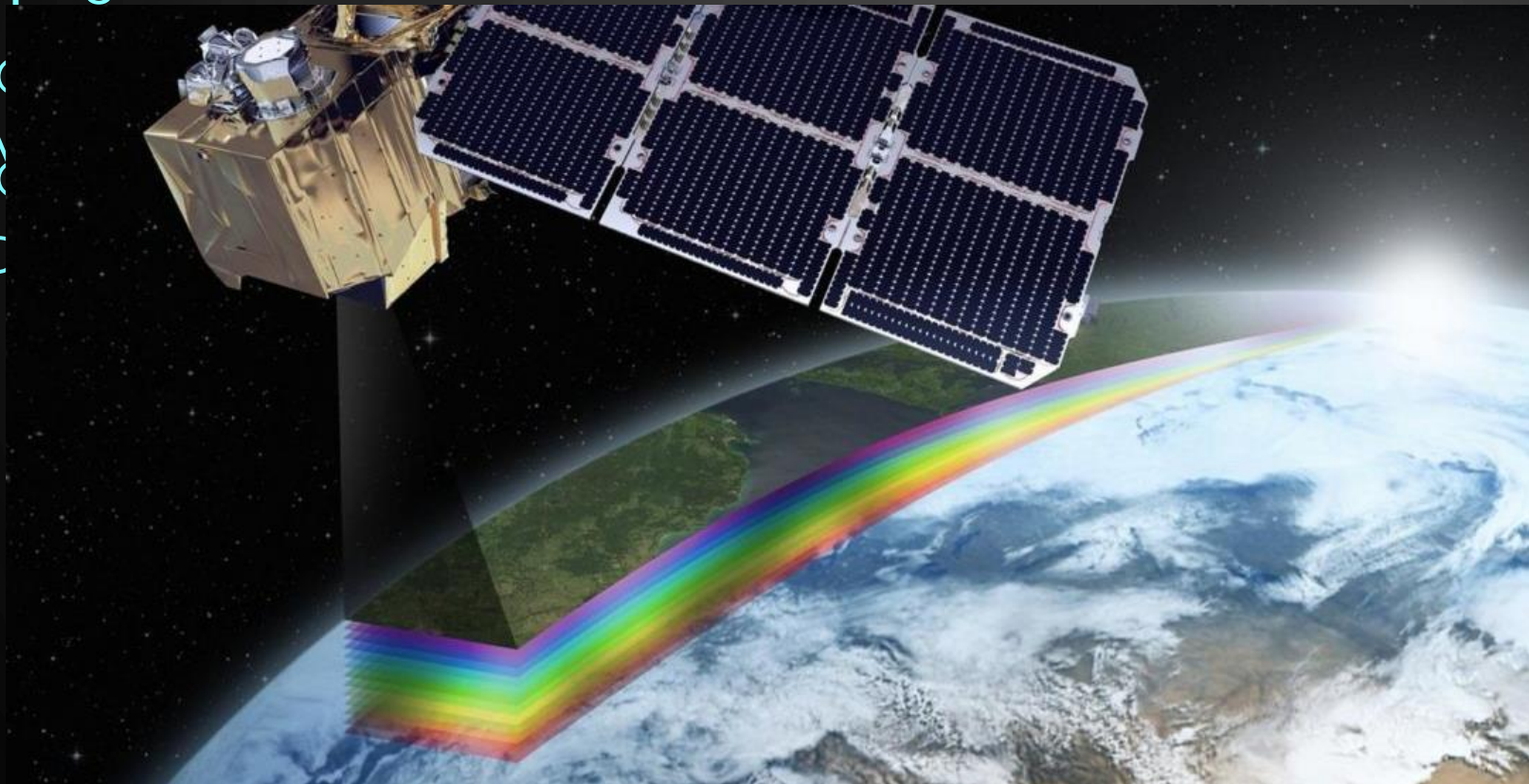
COMPUTING SYSTEM FOR PROCESSING ENVIRONMENTAL MONITORING MEASUREMENTS

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PERVASIVE SENSING

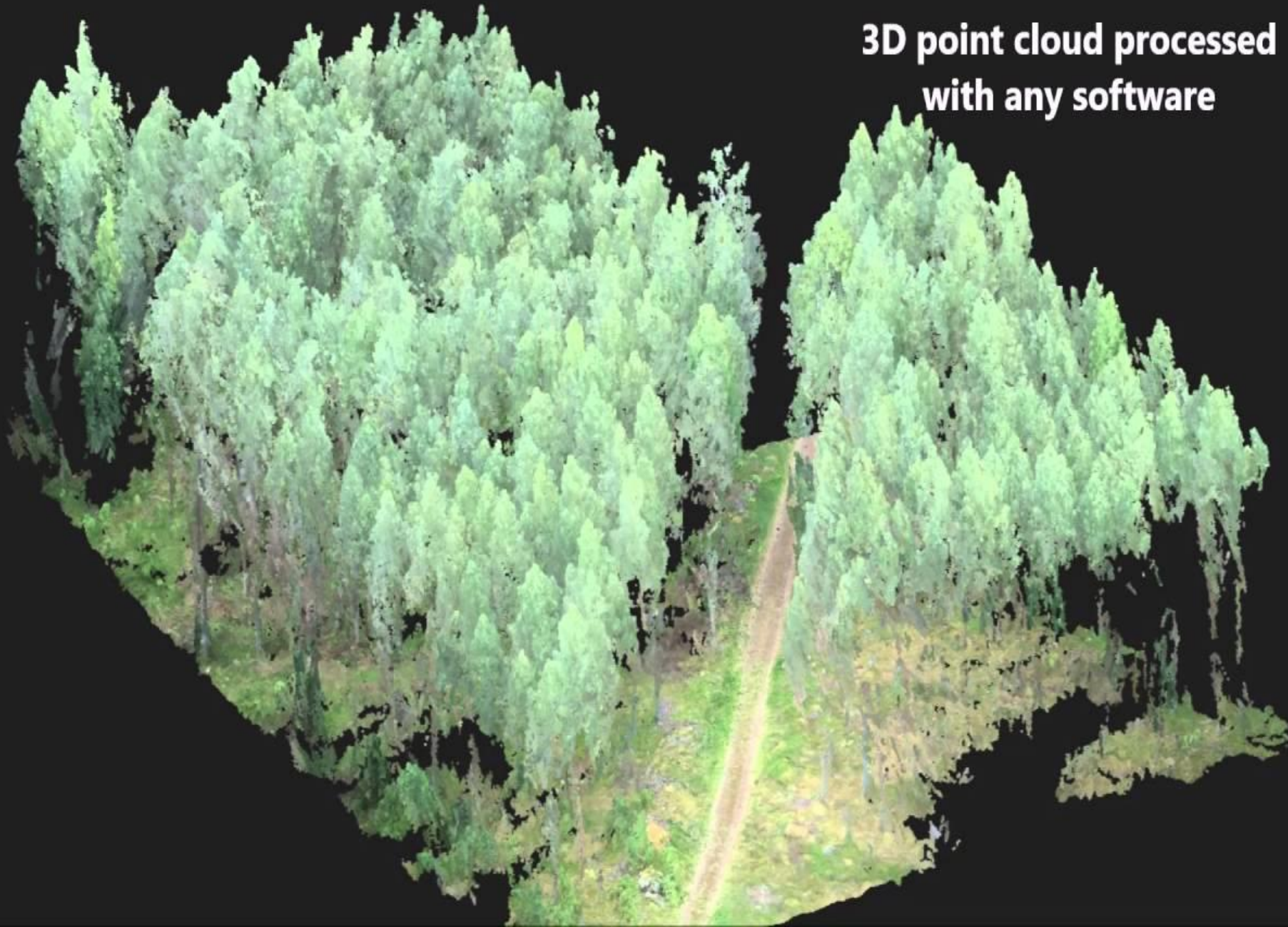
GLOBAL ECOSYSTEM DYNAMICS INVESTIGATION



The background is a solid dark teal color. In the four corners, there are decorative white line-art patterns resembling circuit traces or a stylized tree structure. These patterns consist of thin lines that branch out and terminate in small white circles.

GEDI video

**3D point cloud processed
with any software**





CONFLUENCE

Cyberphysical systems

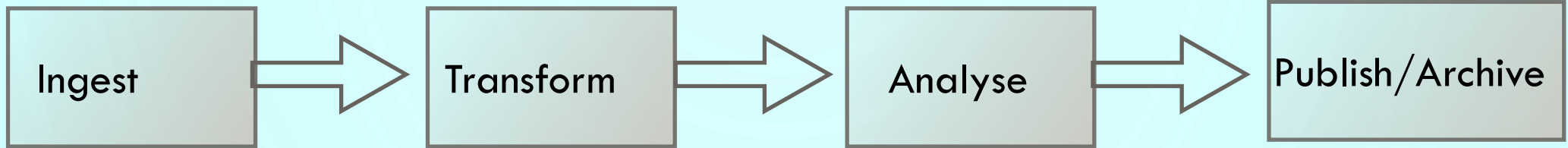
Big Data Centres

AI

GOALS

- Supporting analysis of large data size
- Usable by non data-scientists
- Accessible but access-controlled
- Extensible to heterogenous datasets
- Provenance of derived products
- Available and durable

PIPELINE



- Remote sensing datasets
- Heterogenous/non-interoperable data
- Allow selective sharing of private data
- Incremental updates

- AI-based interpolation
- Spatial slicing
- Temporal slicing
- Dynamic dataflows

- AI-based understanding
- Scalable computing
- Maintain provenance of derived products

- Version controlled
- Downloadable slices using REST API
- Integrated with developer notebooks
- Distributed across stores for redundancy
- Data available beyond project lifetime
- Reproducible computation