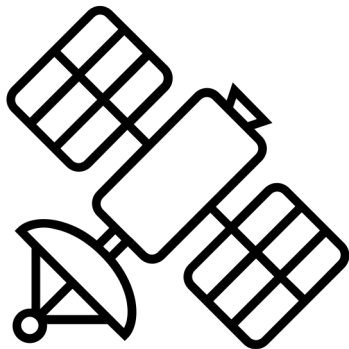




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TECHNOLOGY CONVERGENCE POWERING DOWNSTREAM SPACE SEGMENT

GEOSPATIAL WORLD FORUM 2024

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The background of the slide features a close-up, shallow depth-of-field photograph of network infrastructure. In the foreground, several network cables with RJ45 connectors are plugged into a white patch panel. The cables are in shades of blue and yellow. The background is softly blurred, showing more of the network equipment and the grid-like structure of the patch panel.

UPSTREAM EARTH OBSERVATION SPACE TECHNOLOGIES

Sensor Modalities (EO, SAR, RF, LiDAR,
Combinations)

Constellations

Orbits

On-board processing

Downlinks (ISL's, Laser Comms)

Ground Station Networks

Frequency/Cost of Launch vehicles

MID-STREAM EARTH OBSERVATION SPACE TECHNOLOGIES

Cloud (scale, speed, security)

Platforms (API's, Aggregators, Business Models)

Analytics Ready Data (ARD)/Data Cubes

Calibration (Geometry and Spectral)

Data fusion

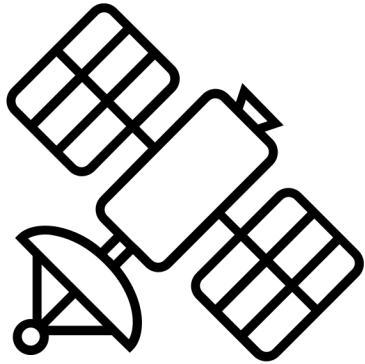
Adjacent Technologies (Gaming, AR/VR, NLP,
LLMs, AI/ML)



DOWNSTREAM EARTH OBSERVATION SPACE TECHNOLOGIES

AI/ML Workflows for downstream applications
Transformation of Geospatial workflows
Multi-Scale frameworks

Inference at and beyond the speed of human cognition (speed and accuracy)



THANK YOU

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