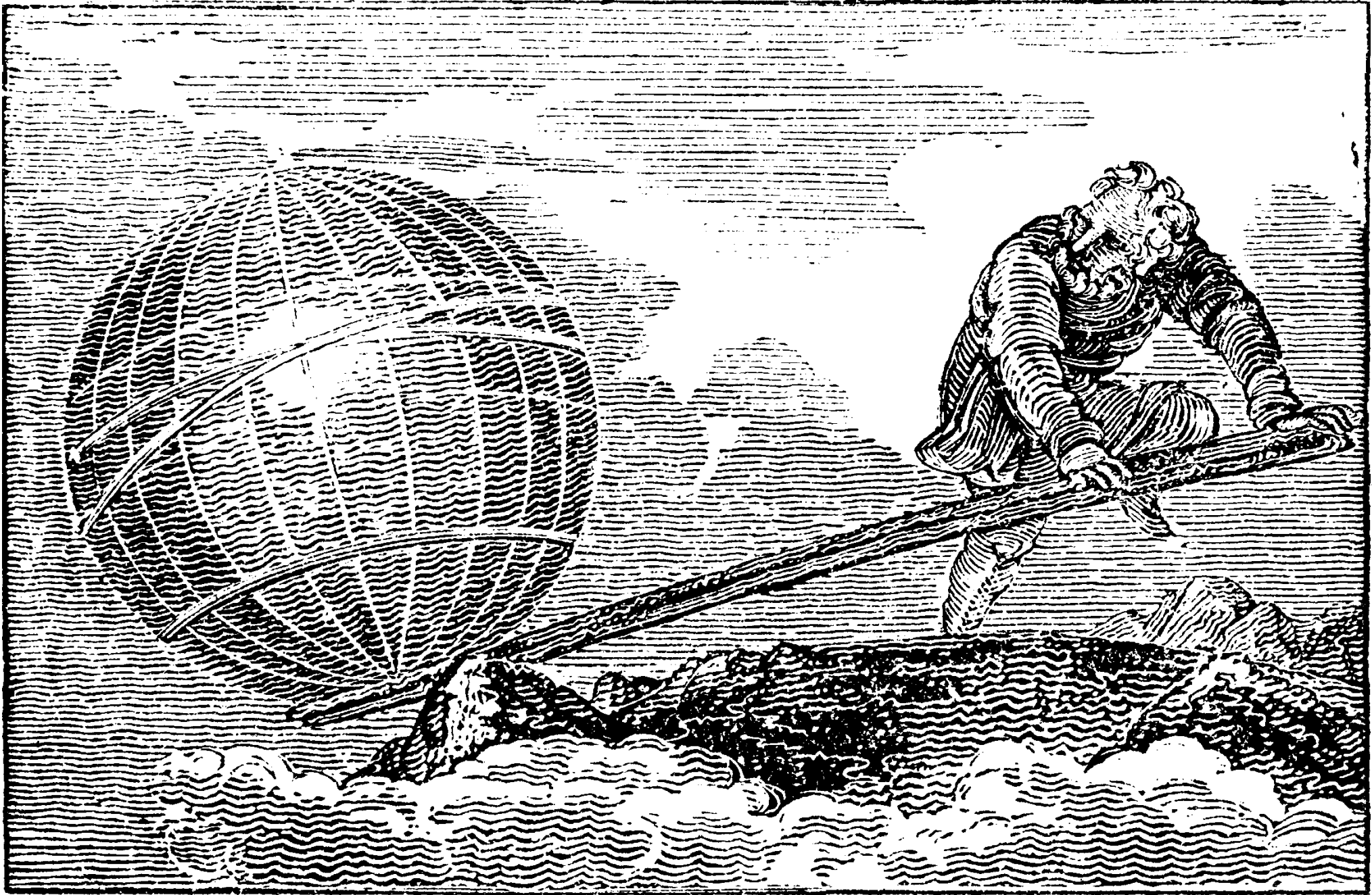




AWS and Space Innovation

Simon Elisha, Head of Solutions Architecture, A/NZ, Public Sector



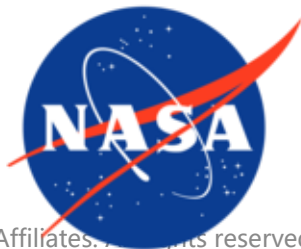
Global Space Customers use AWS as the Lever

Vast Amounts of:

- Compute
- Storage
- Network Bandwidth
- Sophisticated Tooling

Available on-demand at lowest possible

cost

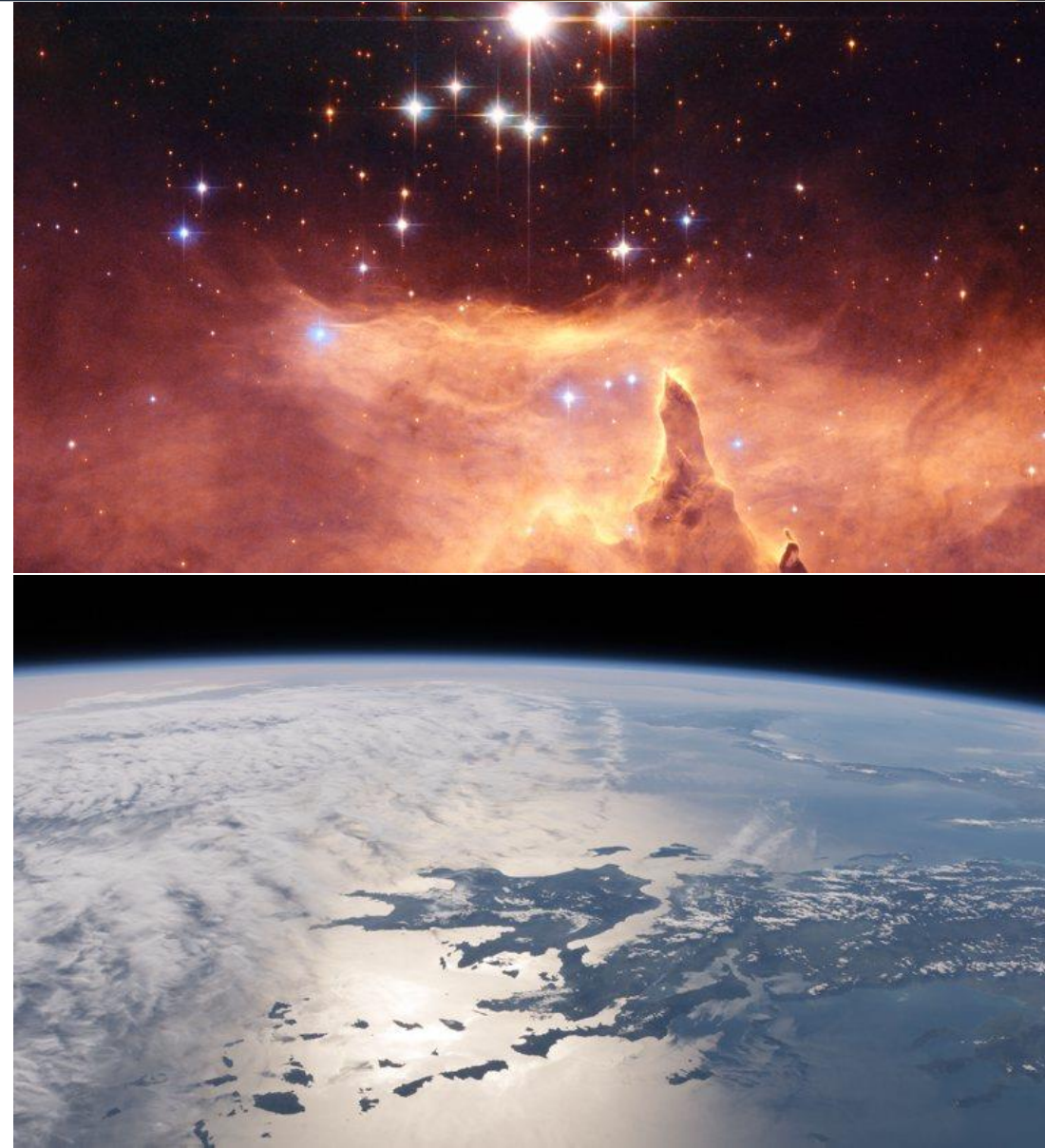


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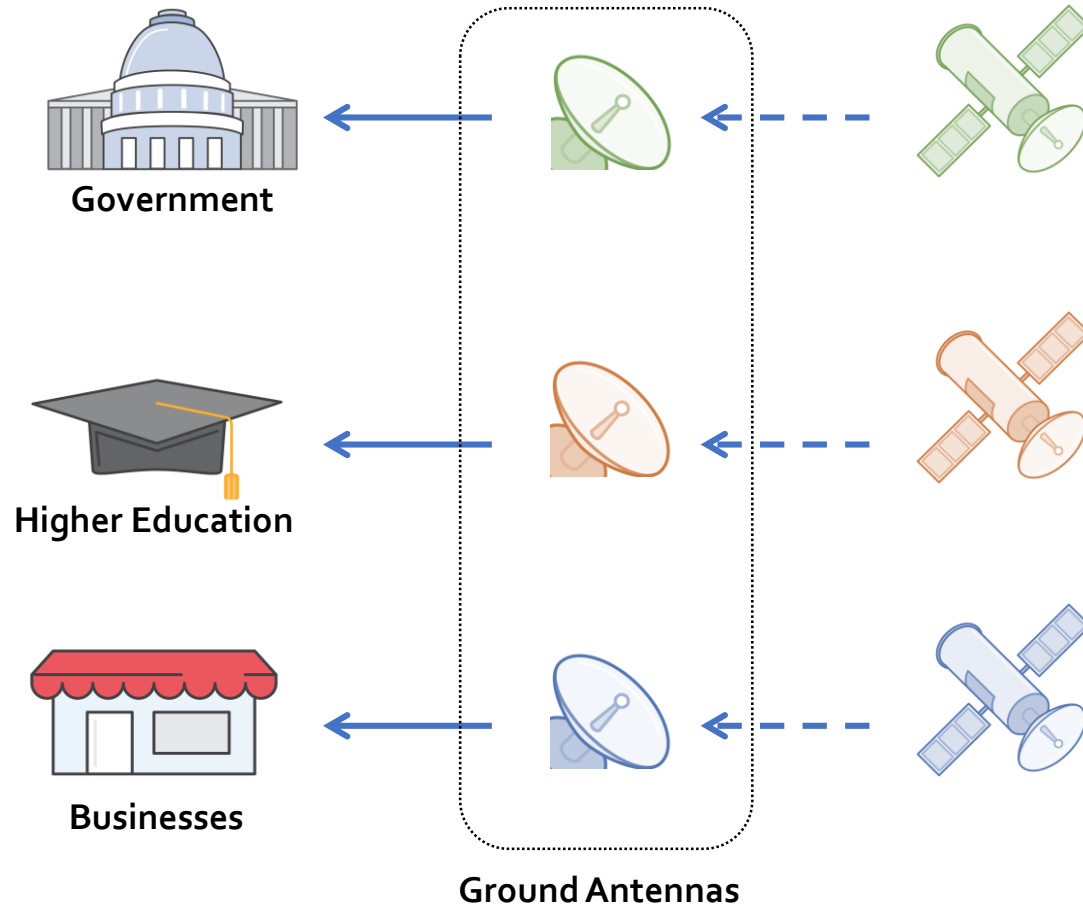


Open Data = More Research

- AWS Open Data Program
 - Cover the costs of storage and data transfer
- SpaceNet on AWS
- GOES on AWS
- Hubble Space Telescope Public Data
- Sentinel-1
- Sentinel-2
- Landsat 8
- CBERS on AWS
- MODIS on AWS
- NASA NEX
- Digital Globe Open Data Program



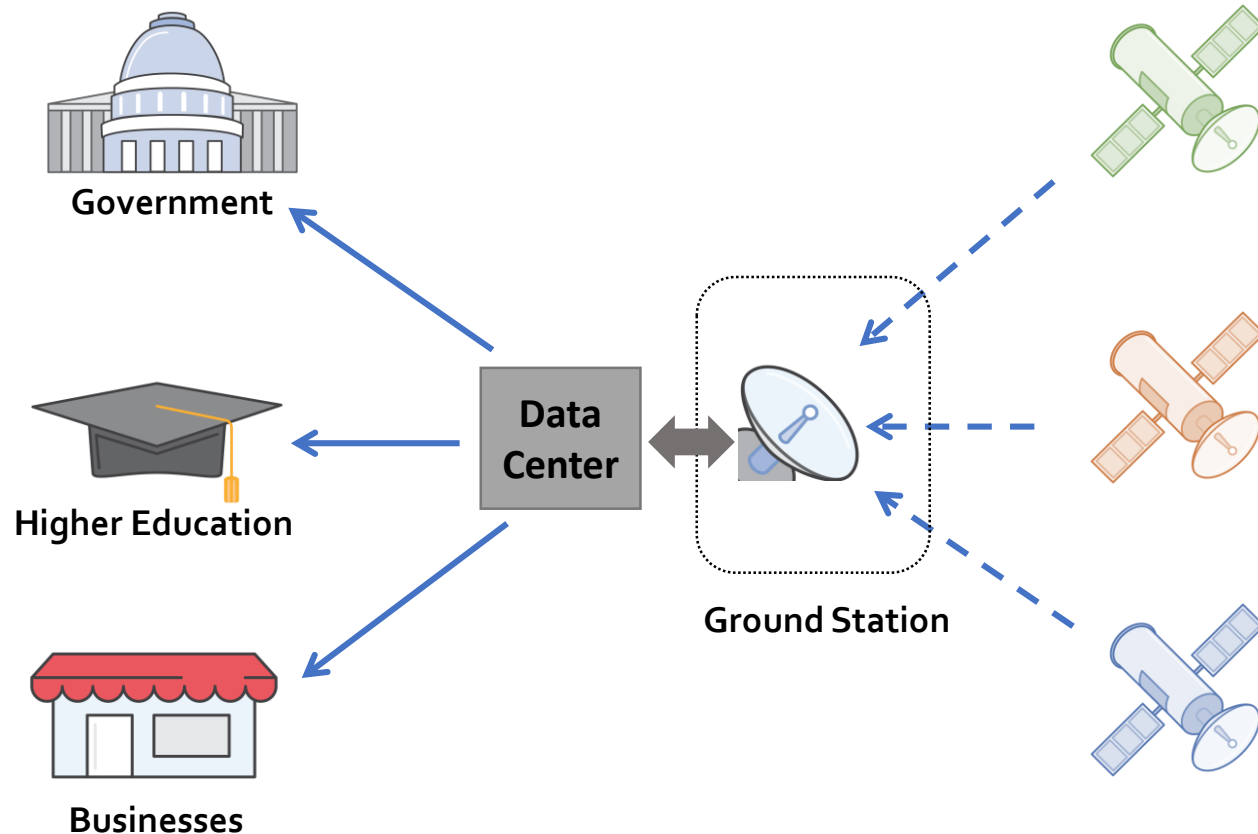
Customer Challenges



Ground Stations:

- Are expensive to build and difficult to maintain
- Require high CAPEX investment to scale
- Experience network latency and scheduling conflicts
- Have opaque pricing

What Customers Want



Ground Stations with:

- No CAPEX commitments
- On-demand scalability
- Minimal data latency
- Direct access to cloud services
- Simple and transparent pricing

Customers Wanted More: AWS Ground Station



- Supported orbits:
 - Low Earth Orbit (LEO)
 - Medium Earth Orbit (MEO)
- Frequencies supported at Launch:
 - Simultaneous narrowband S, X and UHF band uplink/downlink
 - Simultaneous wideband X-band downlink
- Global coverage:
 - 12 locations GA in 2019
- PAYG Pricing
- Self-Service Scheduling; simplified data storage



Opportunities for Local Industry

Research Local, Export Global

- Access to the latest processing capabilities with vast storage capacity
- Faster research cycles & collaboration
- Work with local startups, research collaborators and consultants

