Image Source: Mechanic's Magazine (cover of bound Volume II, Knight & Lacey, London, 1824)
Global Space Customers use AWS as the Lever

Vast Amounts of:

- Compute
- Storage
- Network Bandwidth
- Sophisticated Tooling

Available on-demand at lowest possible cost

[Logos of ESA, NASA, and UAF]
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 start-ups, research collaborators and consultancies
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