

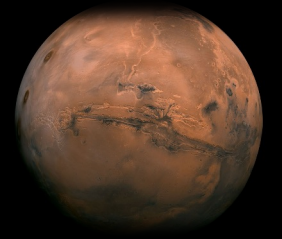
A view of Earth from space, showing the curvature of the planet and the atmosphere. The Moon is visible in the upper right corner. The background is a dark starry sky.

Introduction of the DC on the Interplanetary Internet

Yosuke Kaneko
DC-Interplanetary Coordinator

DC meeting
May 14, 2024

The human sphere continues to expand

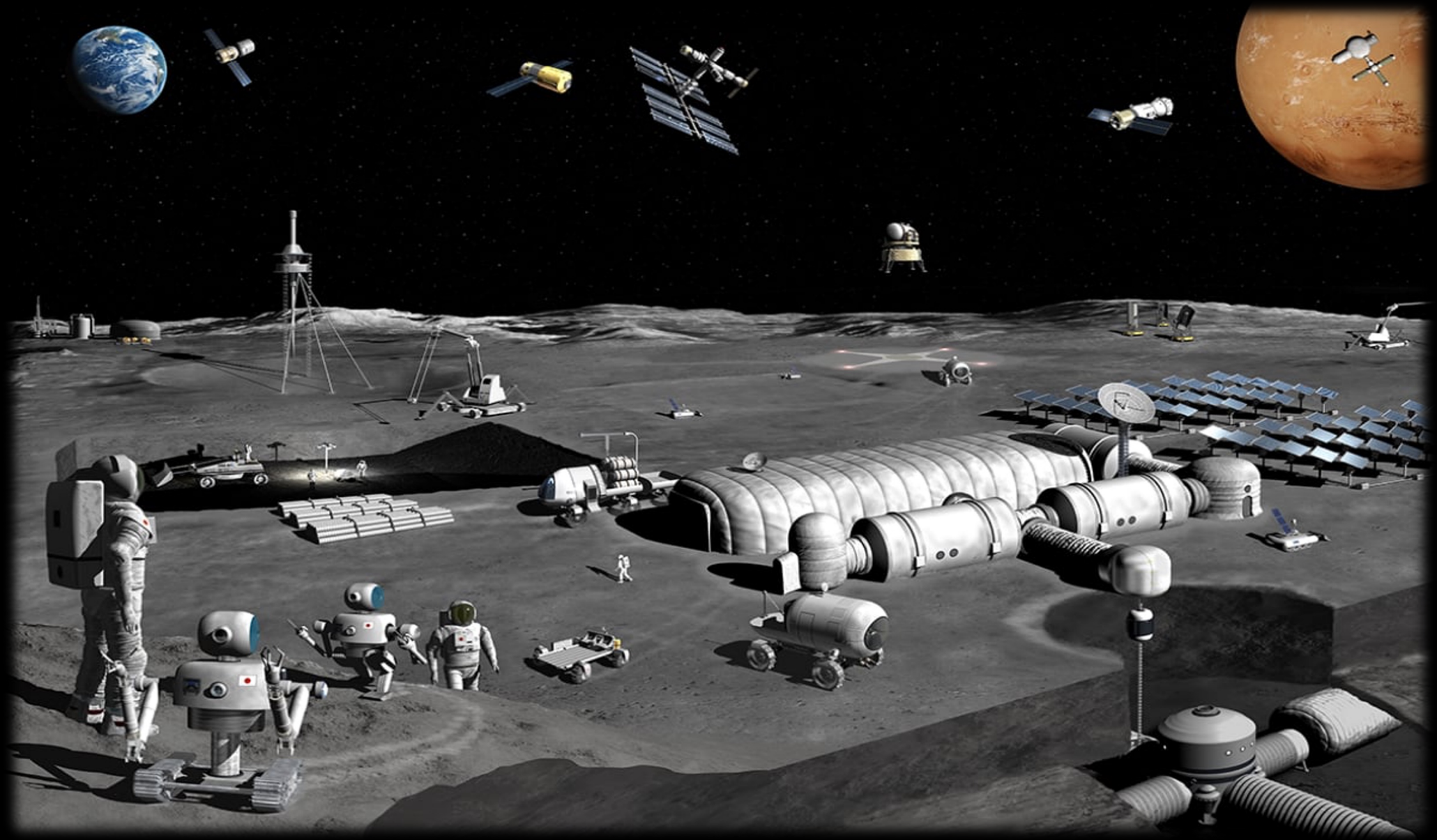


**International Cooperation
and with Industry**

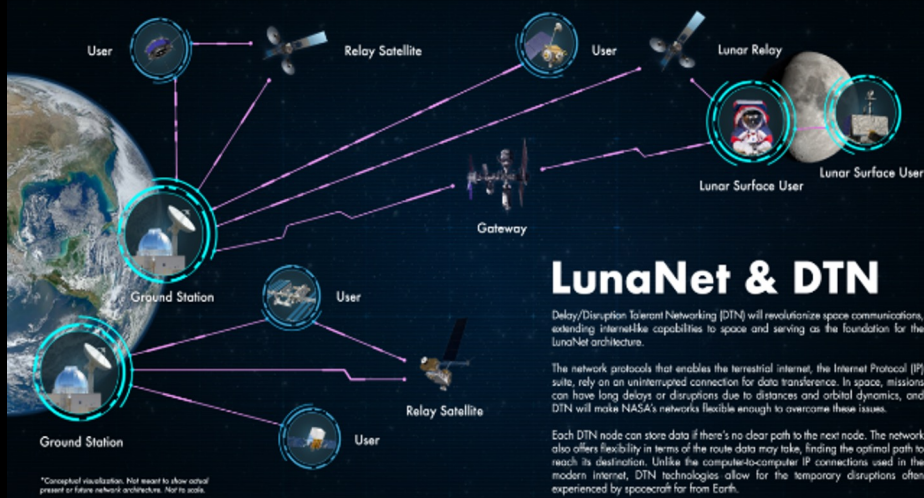


Human Presence on the Moon

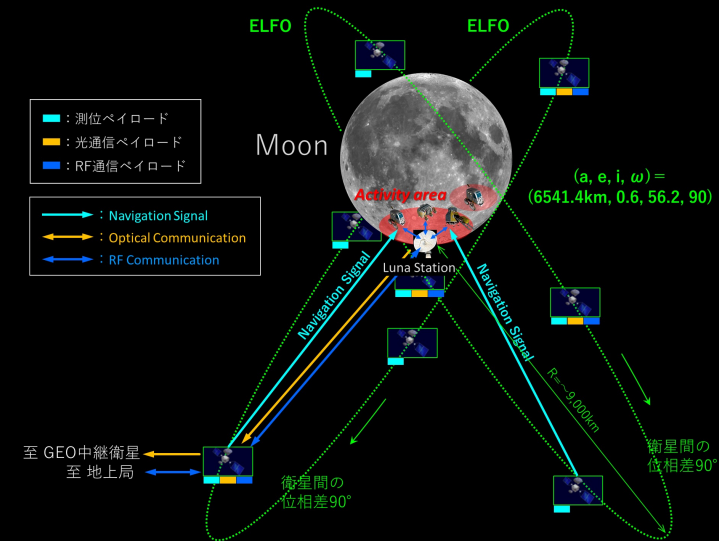
Envisioned future on the lunar surface



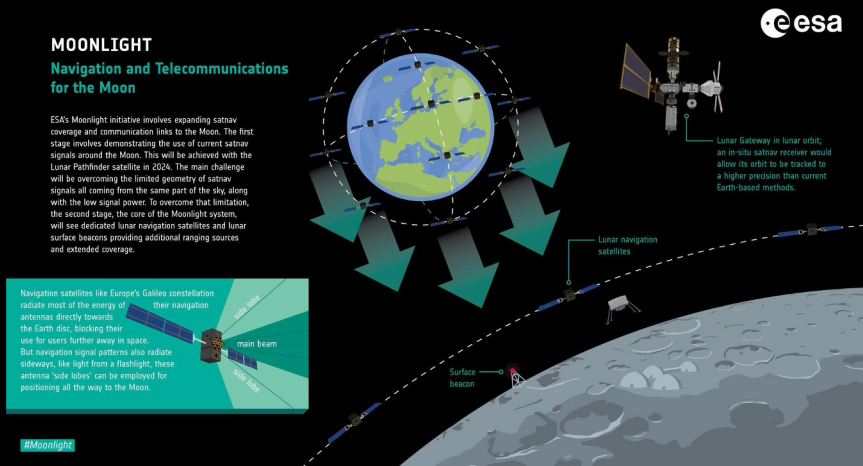
Plans for Lunar Communication Infrastructure



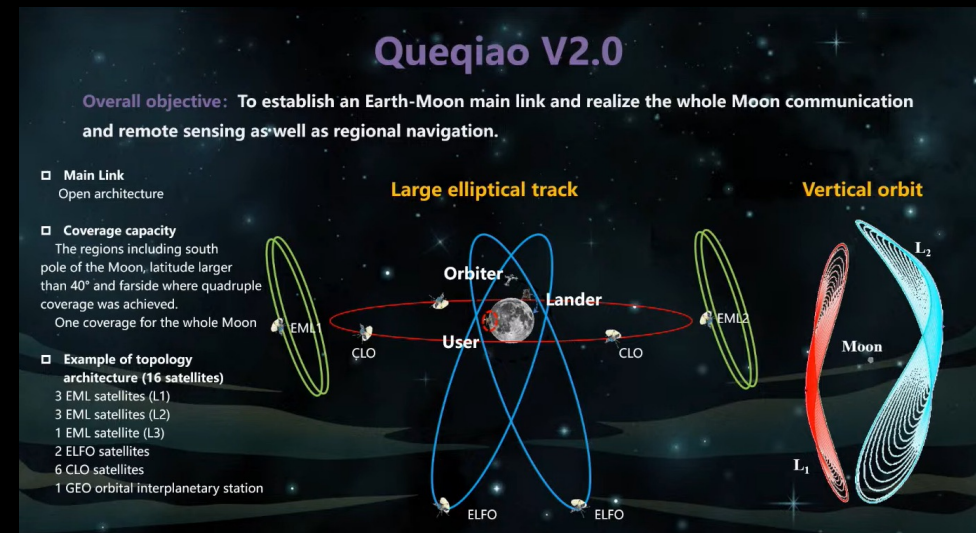
NASA - LunaNET



Japan – Stardust program

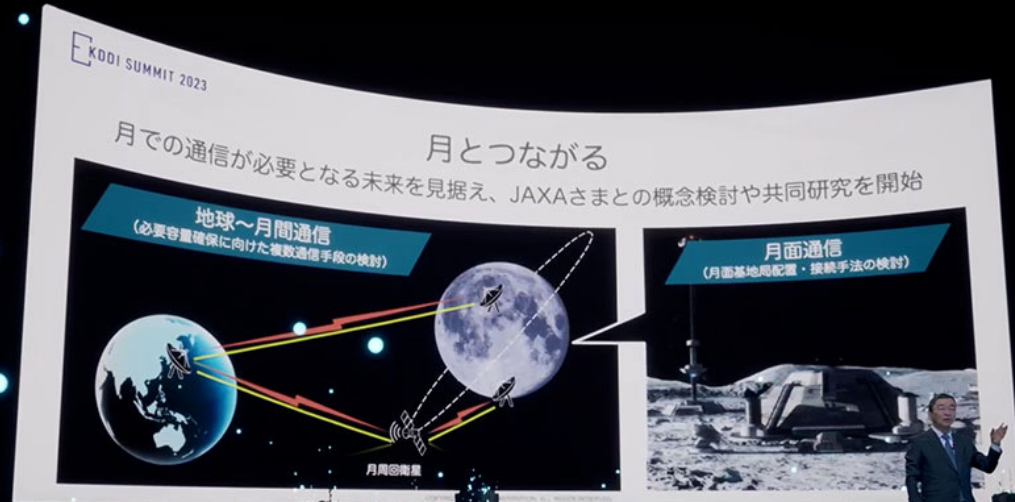


ESA - Moonlight



China – Queqiao

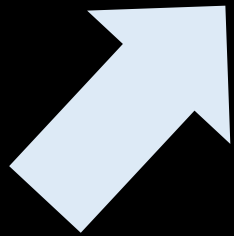
Industry's plans



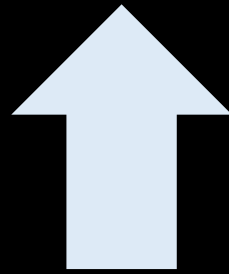
Nokia demonstrating Lunar 4G

KDDI toward Lunar Cellular network

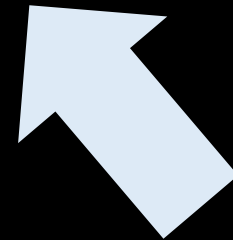
Could we achieve a
common and shared network even in Space?



Governments



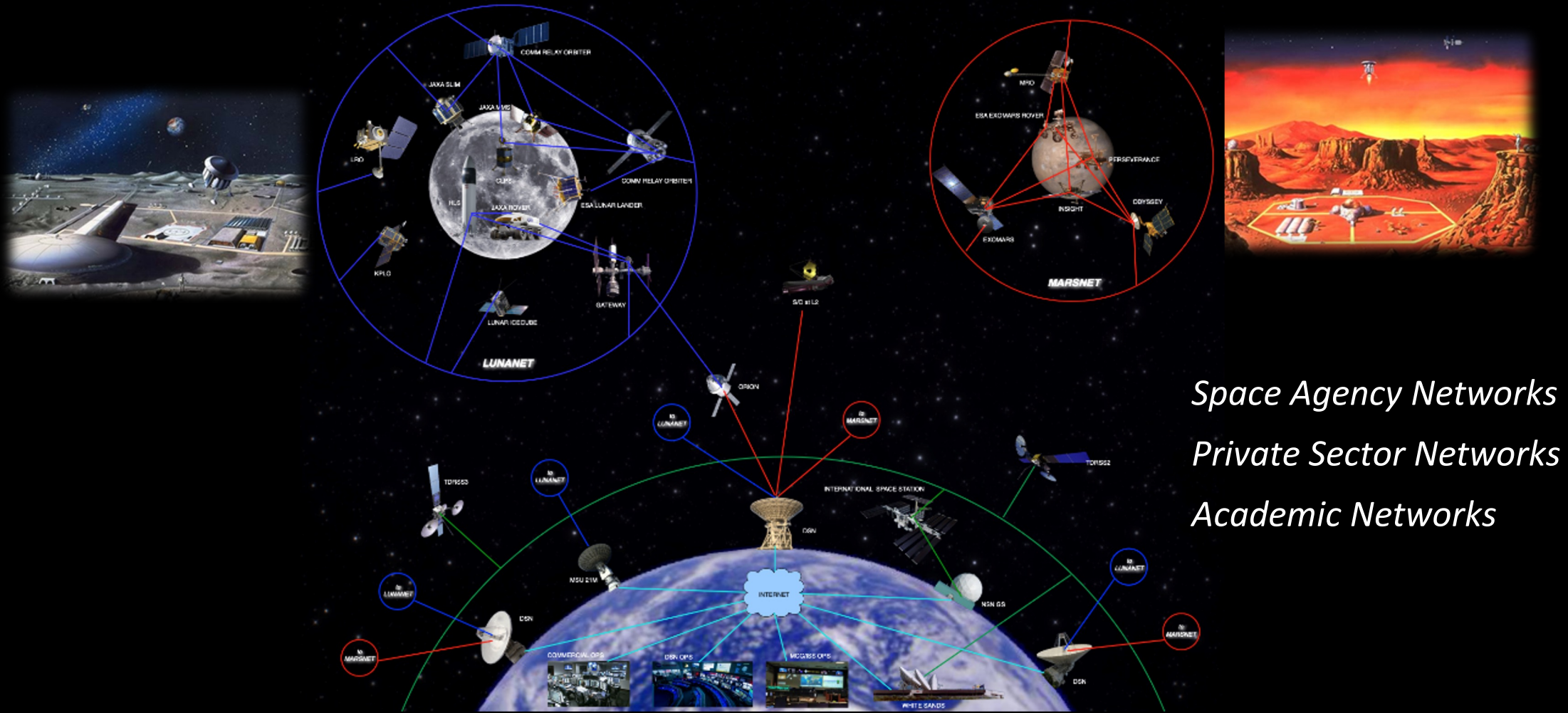
Space agencies



Private Sectors

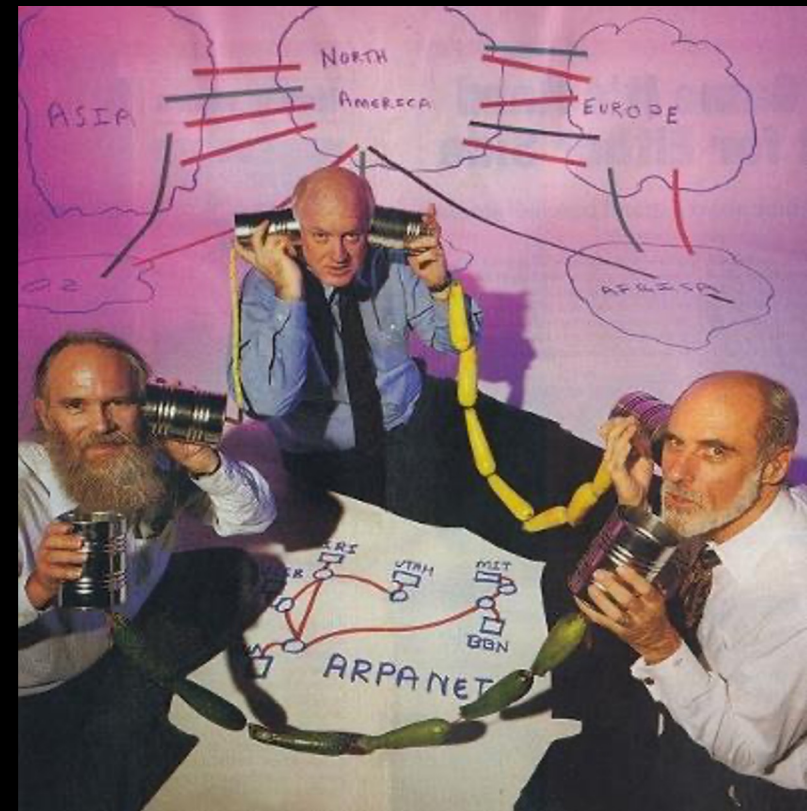
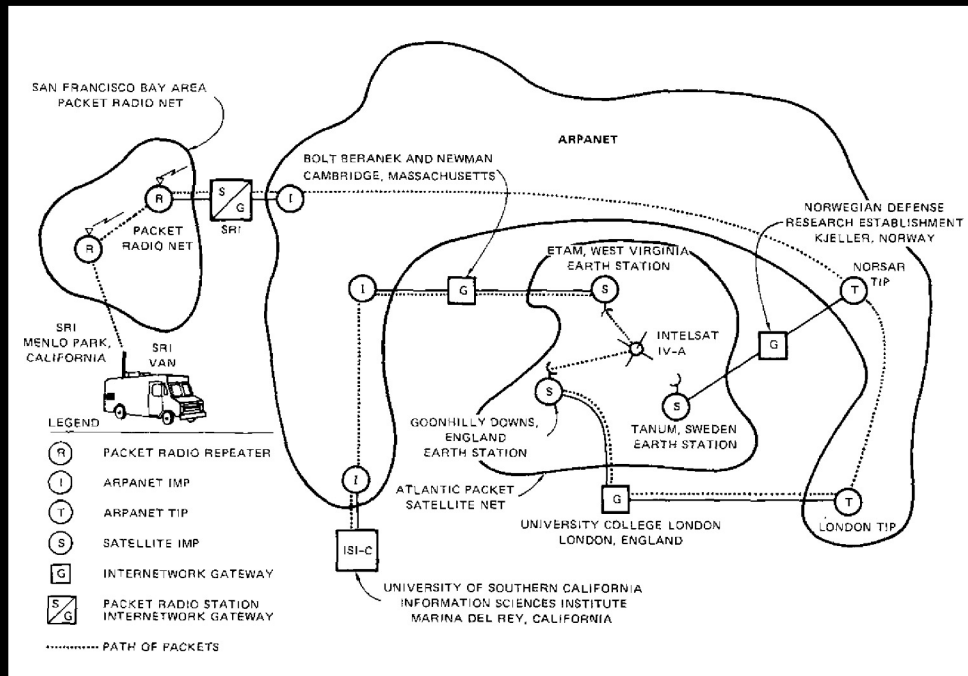
The Interplanetary Internet

Toward a "Common Structure"



Analogy

- 1983 Jan 1st, TCP/IP protocol ran on ARPANET, SATNET, PRNET via Gateways.
 - ➡ the **“Internet”** became Operational
- Likewise, the age of **“network of networks in Space”** is expected
 - Different networks from Different actors



Work Plan (rough)

- Share the work on Interplanetary Internet governance so far
 - Initial study done at the IPNSIG*
*The Interplanetary Networking Special Interest Group
- Cultivate “Multistakeholderism” toward the Interplanetary Internet
- DC Session proposal made to the IGF 2024 in Riyadh

