

RESEARCH GRANT PROGRAM
DECOLONIZING THE INTERNET

**Joanna Kulesza and
Berna Akcali Gur**
Global Governance of
LEO Satellite Broadband

Equitable Access to
Secure, Affordable,
and Reliable LEO
Broadband Satellite
Services
- a development
perspective

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Dec. 2022

The Hebrew University of Jerusalem

Promise of the Tunis Agenda

Agenda for the Information Society – Tunis 2005

C. Internet Governance

- 29. We reaffirm** the principles enunciated in the Geneva phase of the WSIS, in December 2003, that the Internet has evolved into a global facility available to the public and its governance should constitute a core issue of the Information Society agenda. The international management of the Internet should be multilateral, transparent and democratic, with the full involvement of governments, the private sector, civil society and international organizations. **It should ensure an equitable distribution of resources, facilitate access for all and ensure a stable and secure functioning of the Internet, taking into account multilingualism.**
- 30. We acknowledge** that the Internet, a central element of the infrastructure of the Information Society, has evolved from a research and academic facility into **a global facility available to the public.**
- 31. We recognize** that Internet governance, carried out according to the Geneva principles, is an essential element **for a people-centred, inclusive, development-oriented and non-discriminatory Information Society.** Furthermore, **we commit** ourselves to the stability and security of the Internet as a global facility and to ensuring the requisite legitimacy of its governance, based on the **full participation of all stakeholders, from both developed and developing countries,** within their respective roles and responsibilities.



Technology



2 minute read · February 27, 2022 1:17 AM GMT+1 · Last Updated 9 months ago



Musk says Starlink active in Ukraine as Russian invasion disrupts internet

By Hyunjoo Jin

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Exclusive: Musk's SpaceX says it can no longer pay for critical satellite services in Ukraine, asks Pentagon to pick up the tab



By Alex Marquardt, CNN

Updated 6:38 PM EDT, Fri October 14, 2022

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SpaceX owner and Tesla CEO Elon Musk speaks during a conversation with the E3 gaming convention in Los Angeles, California, U.S., June 13, 2019. REI

Ukraine suffered a comms outage when 1,300 SpaceX satellite units went offline over funding issues



By Alex Marquardt and Sean Lyngaas, CNN

Updated 3:44 AM EST, Mon November 7, 2022





SCIENCE | GLOBAL ISSUES

EU to launch its own communications satellite network

Clare Roth
11/18/2022

The European Union hopes to have its own communications satellite system up and running by 2027. The importance of the project became clear after Russia's invasion of Ukraine.



Negotiators from the European Parliament and EU member states agreed on Thursday to greenlight the satellite communications internet system IRIS2 (Infrastructure for Resilience, Interconnection and Security by Satellites).

The €6 billion (\$6.2 billion) project is part of an initiative to wean the EU off a bloc-wide reliance on foreign suppliers like China and Russia. EU agencies will contribute €2.4 billion to the project, which lawmakers project will enable secure communication services by 2027. The private sector is expected to

SPACENEWS

Europe reaches funding deal for sovereign broadband constellation

by Jason Rainbow — November 18, 2022



Thierry Breton, E.U. commissioner for the internal market, said in February that the planned constellation was a "Galileo moment" for Europe. Credit: European Commission

TAMPA, Fla. — The European Union reached a provisional agreement Nov. 17 to cover nearly half the 6 billion euro (\$6.2 billion) cost of deploying a secure connectivity constellation by 2027.

The European Parliament and member states agreed on a deal to contribute 2.4 billion euros from 2023-2027 for a sovereign network of satellites called IRIS², or Infrastructure for Resilience, Interconnectivity and Security by Satellite.



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Space is
the future

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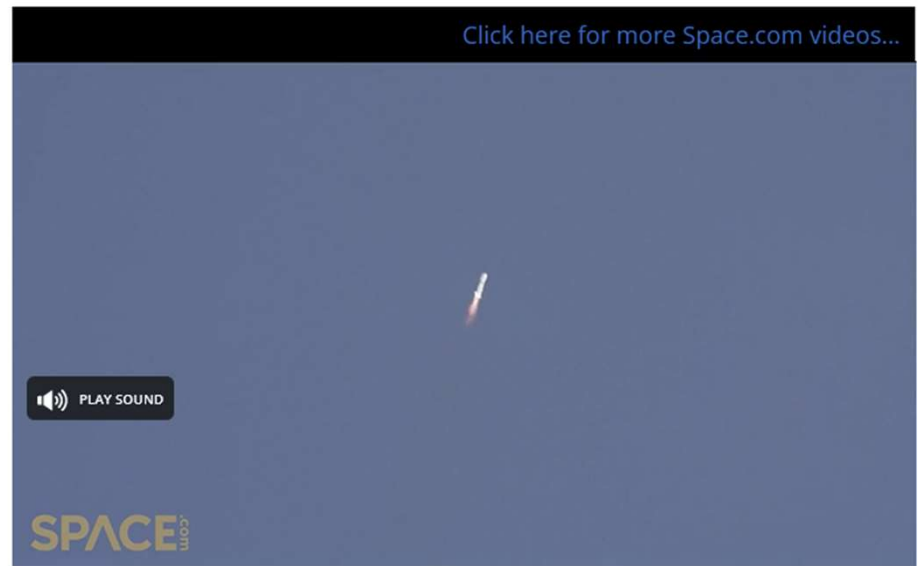
China launches 3 communications test satellites to low Earth orbit (video)

By [Andrew Jones](#) published May 23, 2022

The nation is looking to build its own version of SpaceX's Starlink broadband network.

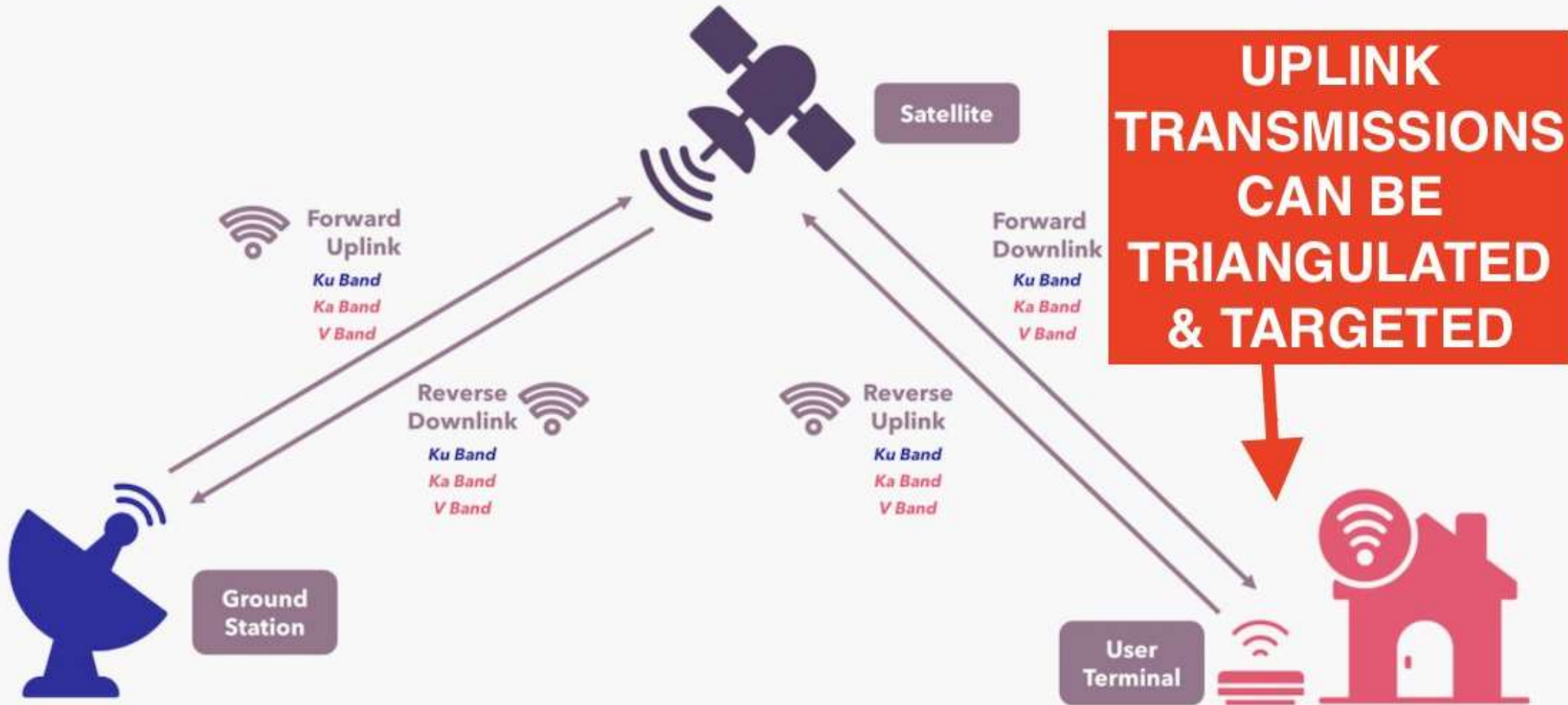


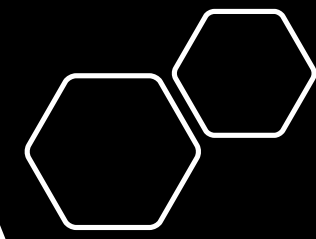
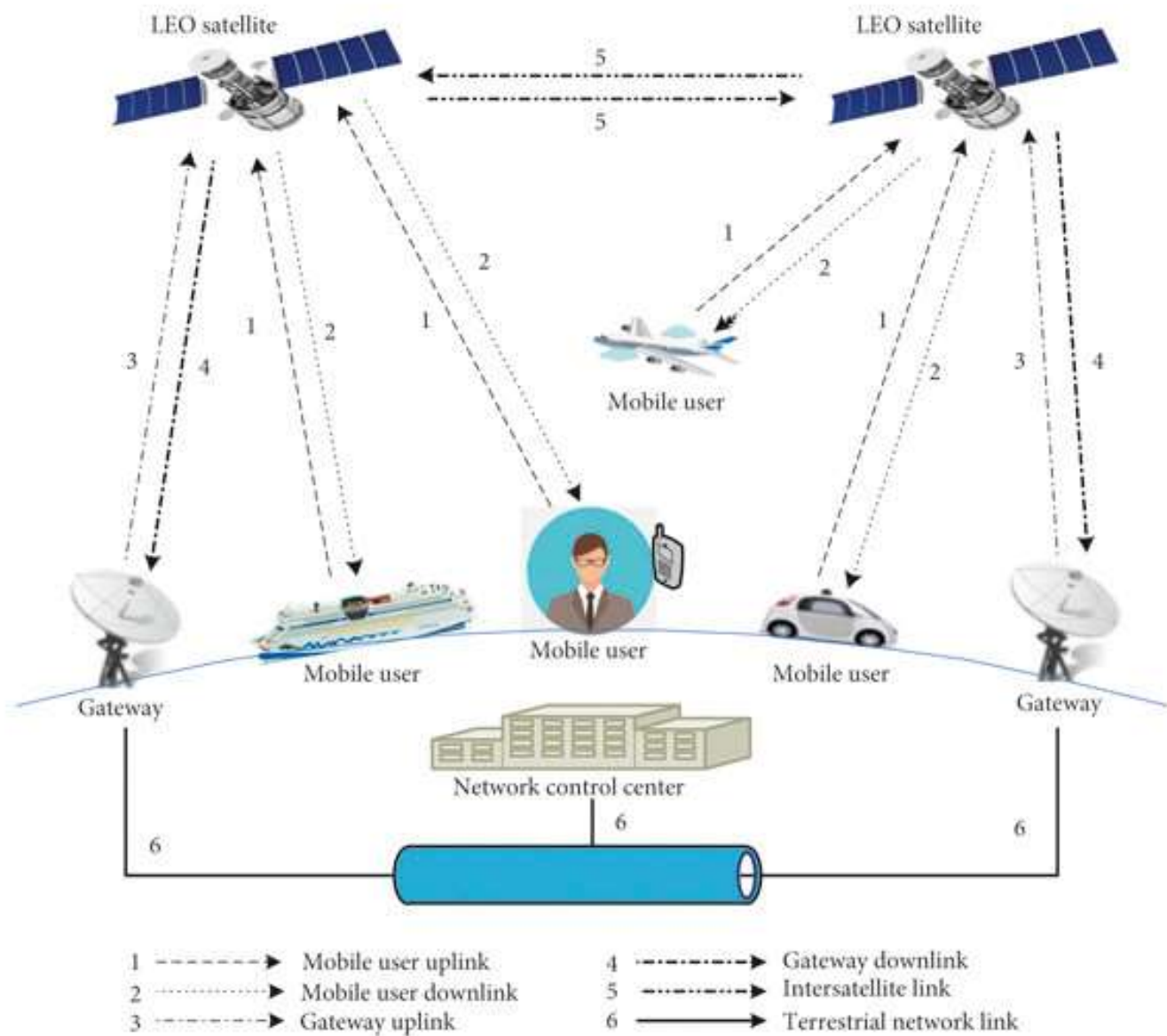
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China launched three new test communication satellites to low Earth orbit as the country looks to build its own version of SpaceX's Starlink broadband

How Does Starlink Work?





Graphic by: Huang, Huihui & Miao, Xuyang & Wu, Zehui & Wei, Qiang. (2021). An Efficient ECC-Based Authentication Scheme against Clock Asynchronous for Spatial Information Network. Mathematical Problems in Engineering. 2021. 1-14. © CC BY 4.0

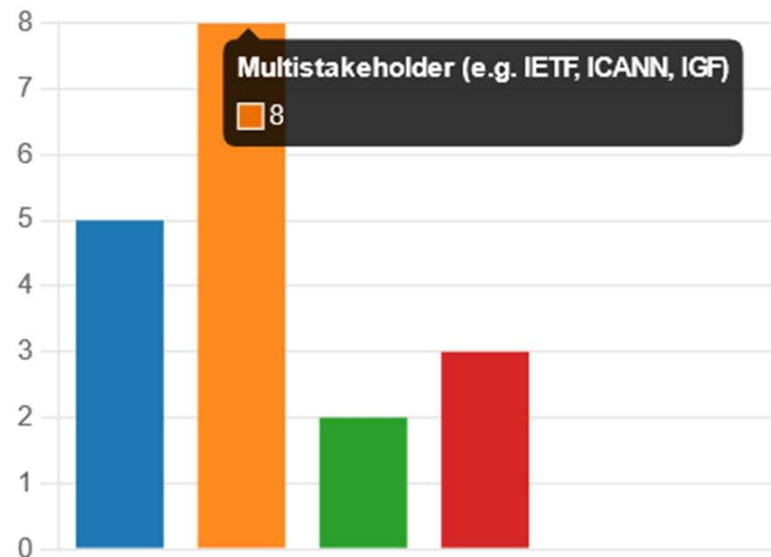
Policy questions to consider

- LEO Satellite Constellations and **Sustainable Development Goals:**
 - **Meaningful Connectivity /** Regulatory Limitations and Concerns?
 - **Equitable Access** to Space and Space Resources?
 - **International Telecommunications Law** and Satellite Broadband?
 - Equitable Access Principle in **Internet Governance**
 - Multistakeholder governance
 - **Second-order Internet governance** - lessons learnt from multistakeholderism
 - **Privatized Internet governance?**
-
- cybersecurity
 - supply chain security and critical infrastructure protection (5G relevance?)
 - privacy and data protection
 - space debris and int. liability

Second-order Internet governance - lessons learnt from multistakeholderism

3. What system is most appropriate way of engagement to resolve differences?

- International (e.g. UN, ITU)
- Multistakeholder (e.g. IETF, ICANN, IGF)
- Bilateral (through agreements between states)
- Regional (e.g. within a regional international organisation)
- Alliances among like-minded states

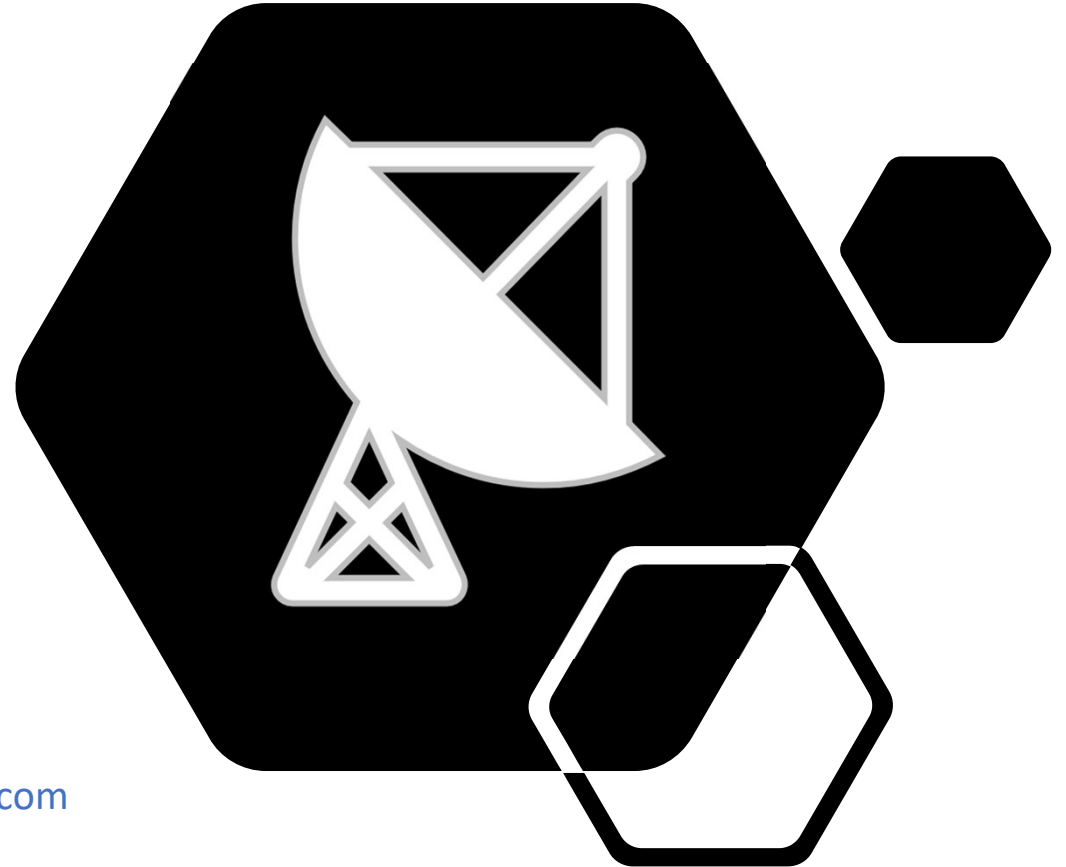


Thank you

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Please send your feedback to LEOsISOCstudy@gmail.com



This research is a product of a project funded by the Internet Society Foundation
“Decolonizing the Internet: Global Governance of LEO Satellite Broadband”.