

HUDDLE 2025 Session 6: Ubiquitous Global Connectivity and Digital Inclusion

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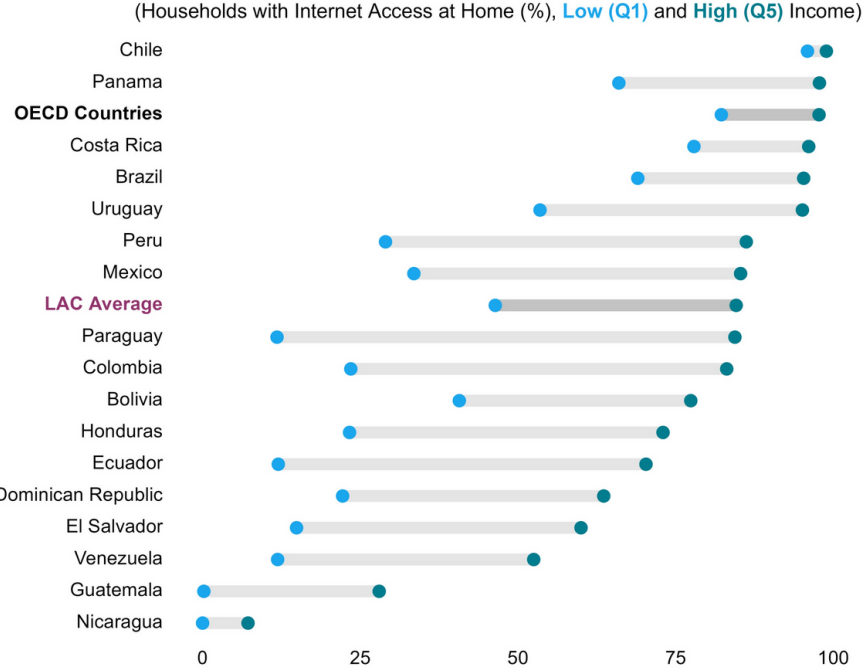
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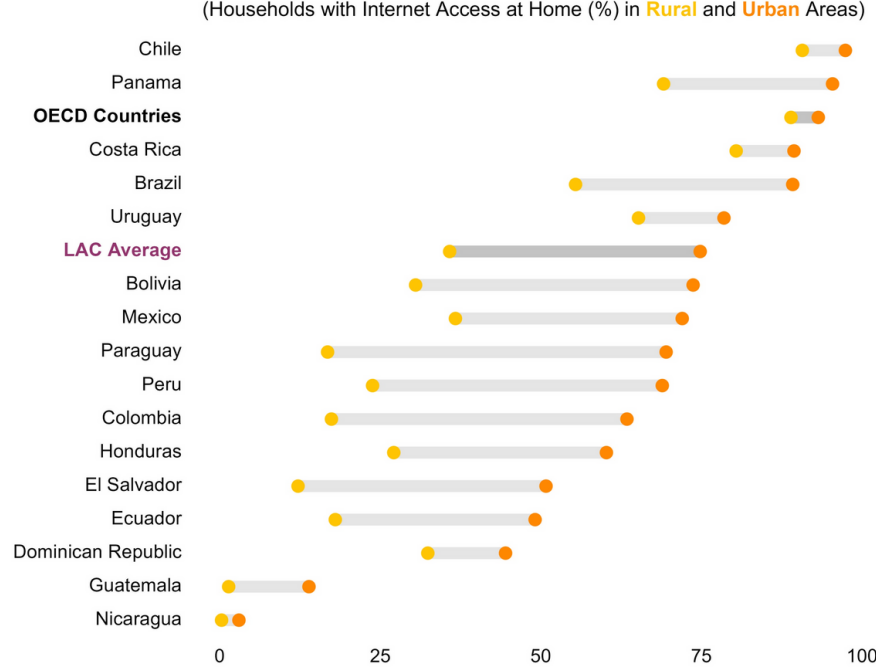
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In LAC, High-income Households Have Nearly 2X the Internet Access Compared to the Poorest Households

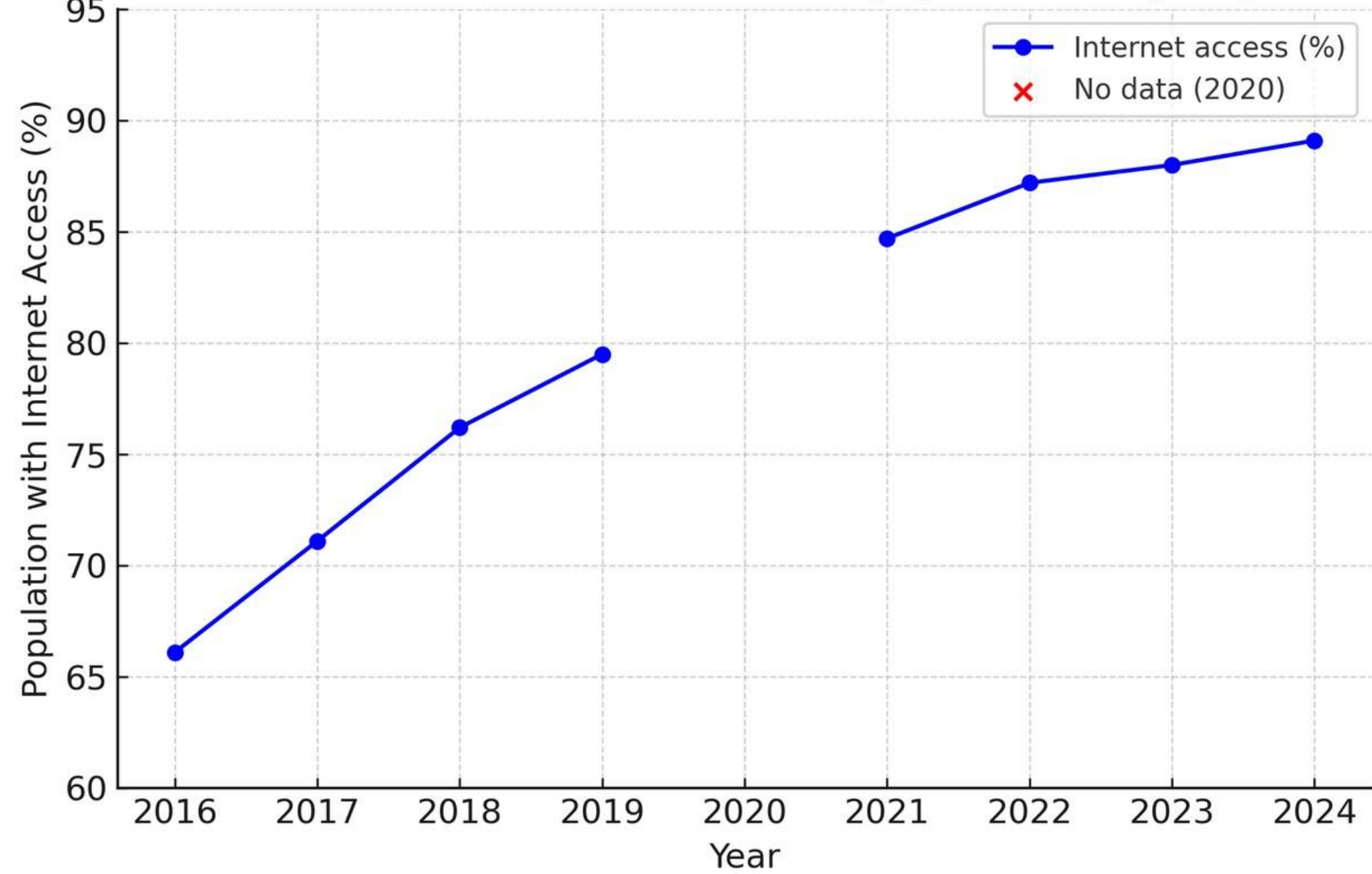


Only 4 out of 10 Rural Households in LAC Have an Internet Connection at Home, Compared to 7 out of 10 Urban

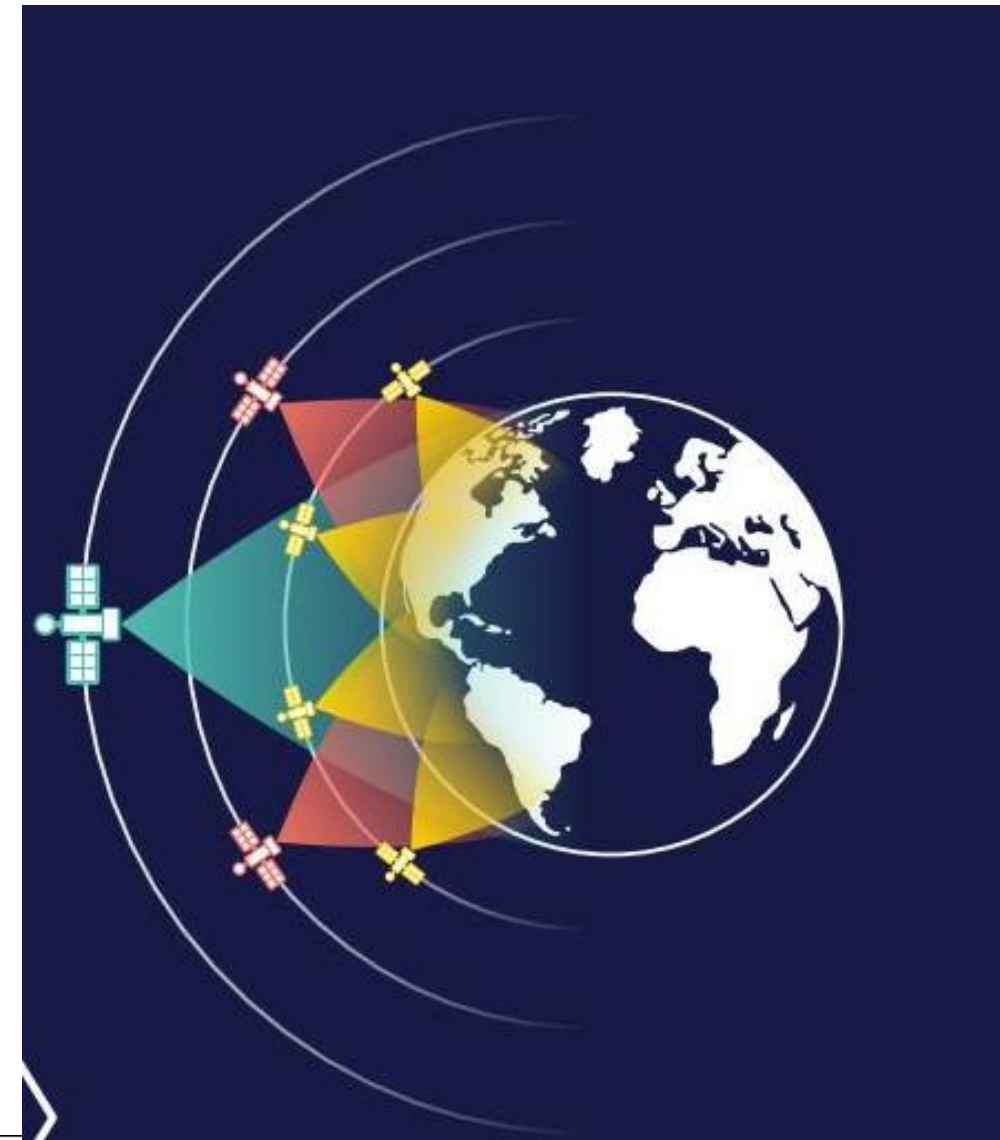
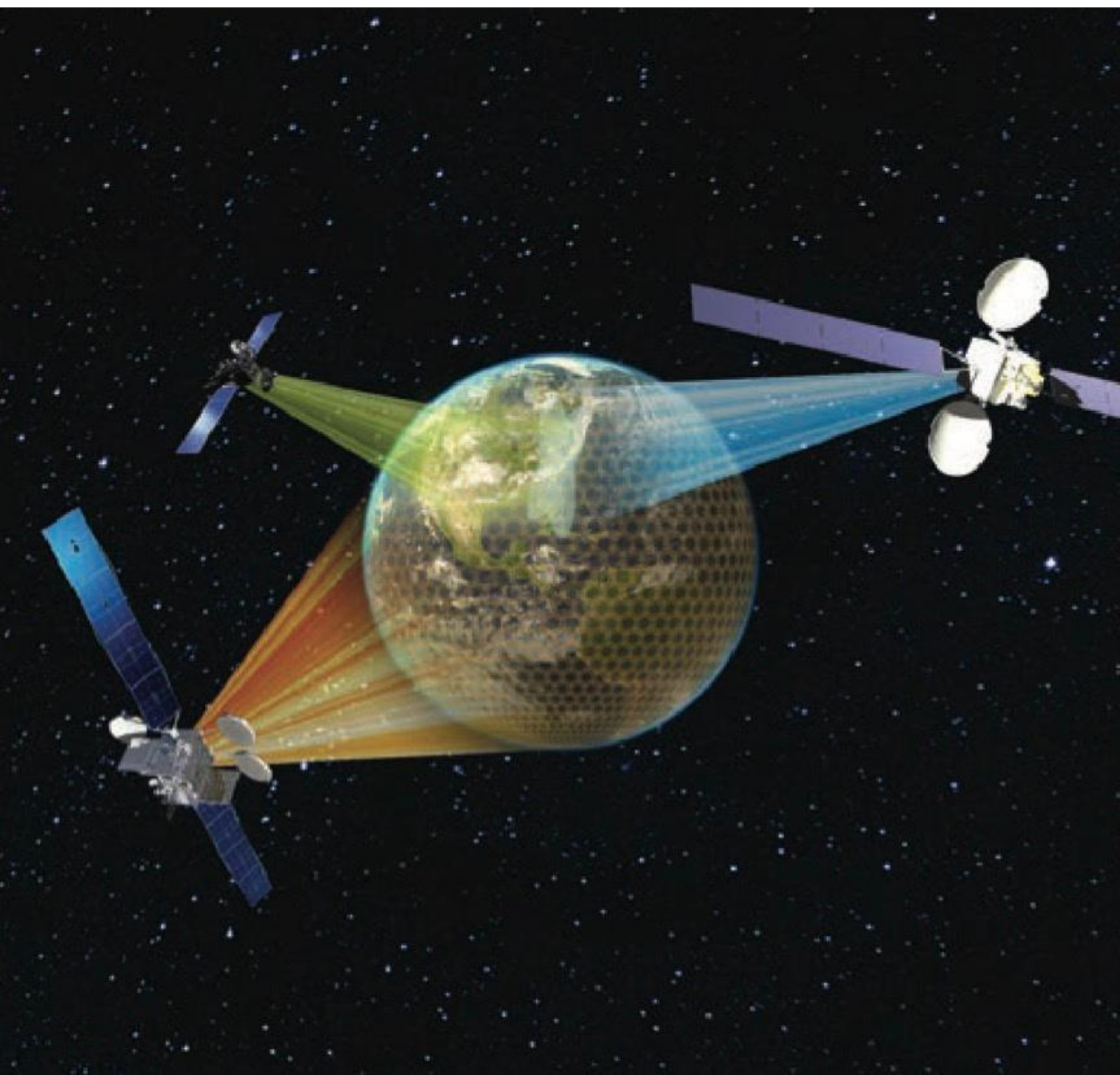


Source: UNDP's calculations based on the Economic Commission for Latin America and the Caribbean (ECLAC) CEPALSTAT data (2023), and OECD Going Digital Toolkit data (2024).
Note: The ECLAC and OECD define households with internet access as those with an internet connection at home, whether through fiber or mobile devices is excluded. The regional is the most recent available: Bolivia, zuela (2014), and all other countries

Evolution of Internet Access in Brazil (population 10+ years)



Do we need LEO for everything?

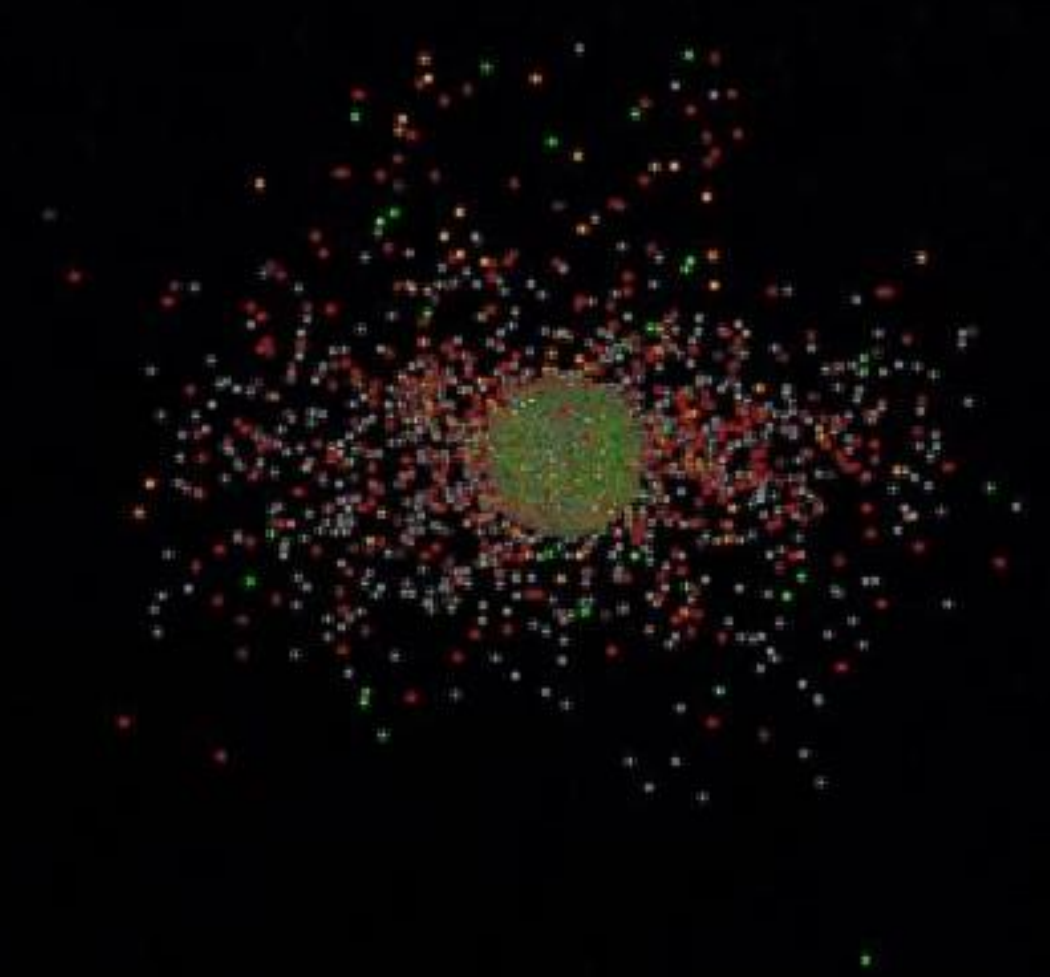
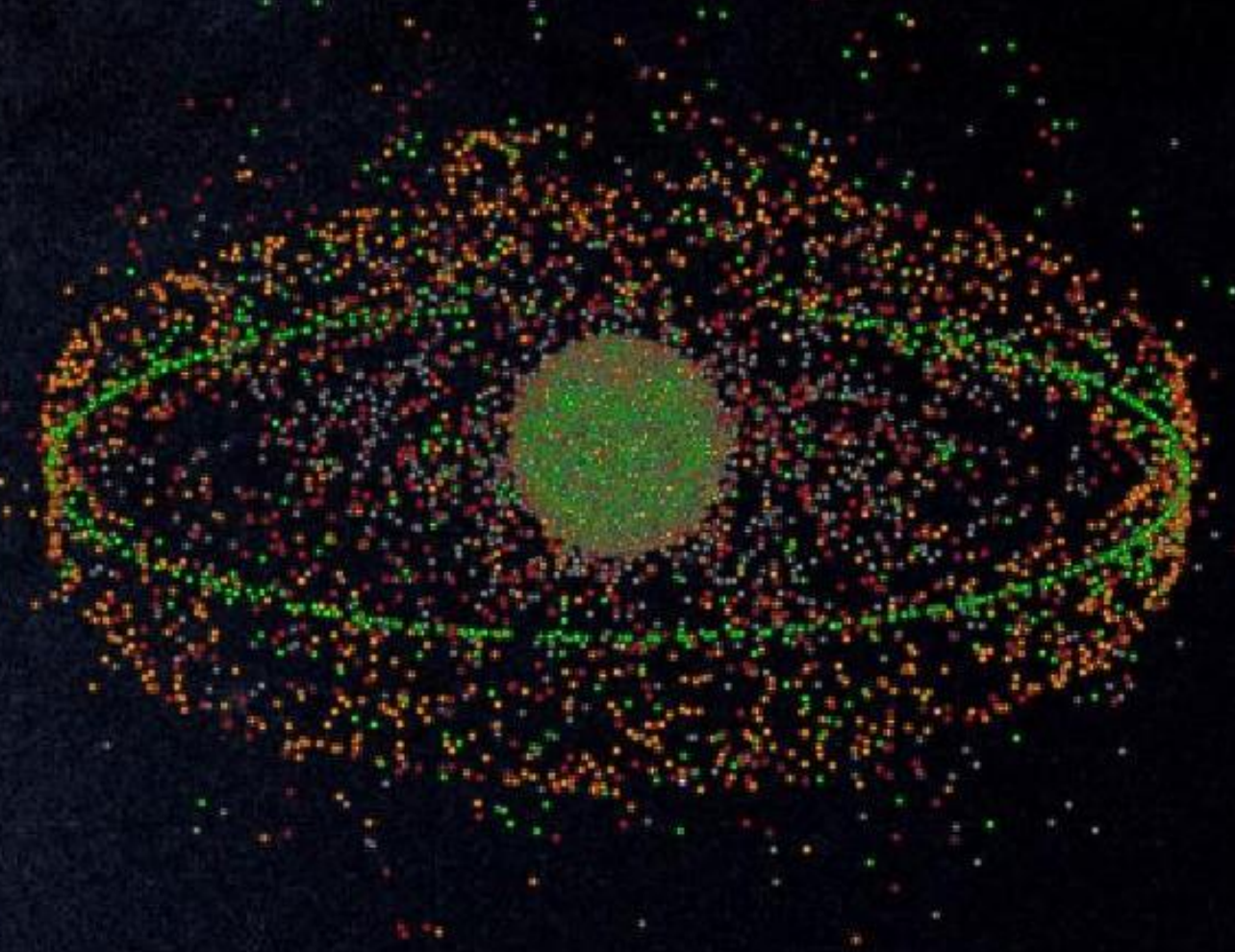


Feature	LEO (Low Earth Orbit)	GEO (Geostationary Earth Orbit)
Latency	20–80 ms (typical 25–80 ms), interactive, real time and mission-critical apps	500–700+ ms, only suitable for non-interactive uses and non-real time or non-mission-critical apps
Performance	High throughput, global, mobile	Stable throughput for fixed sites, up to 100+ Gbps with VHTS
Resilience	Inherent path diversity, ISLs, agile, scalable	Requires specific additional engineered redundancy built to the site
Best For	Fixed and Mobile IoT, real-time monitoring, high altitude and polar coverage	Fixed backhaul, broadcast, steady but non-critical workloads

Current context

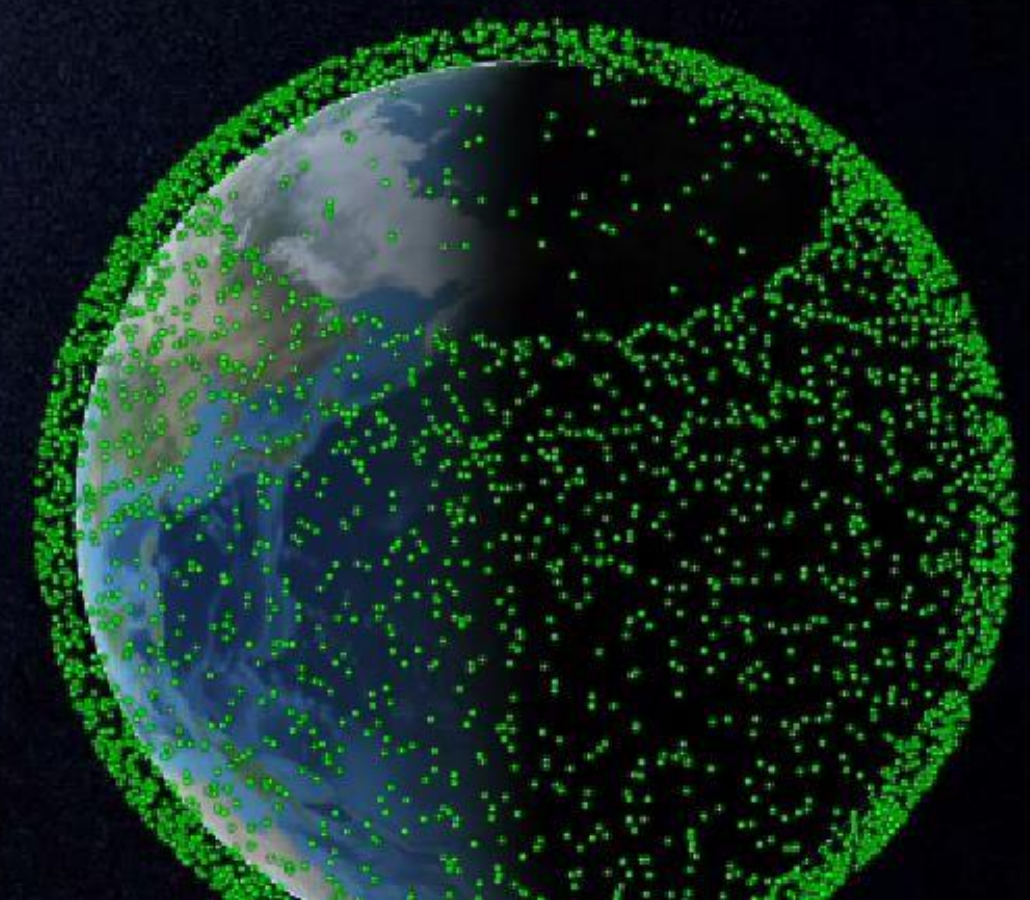
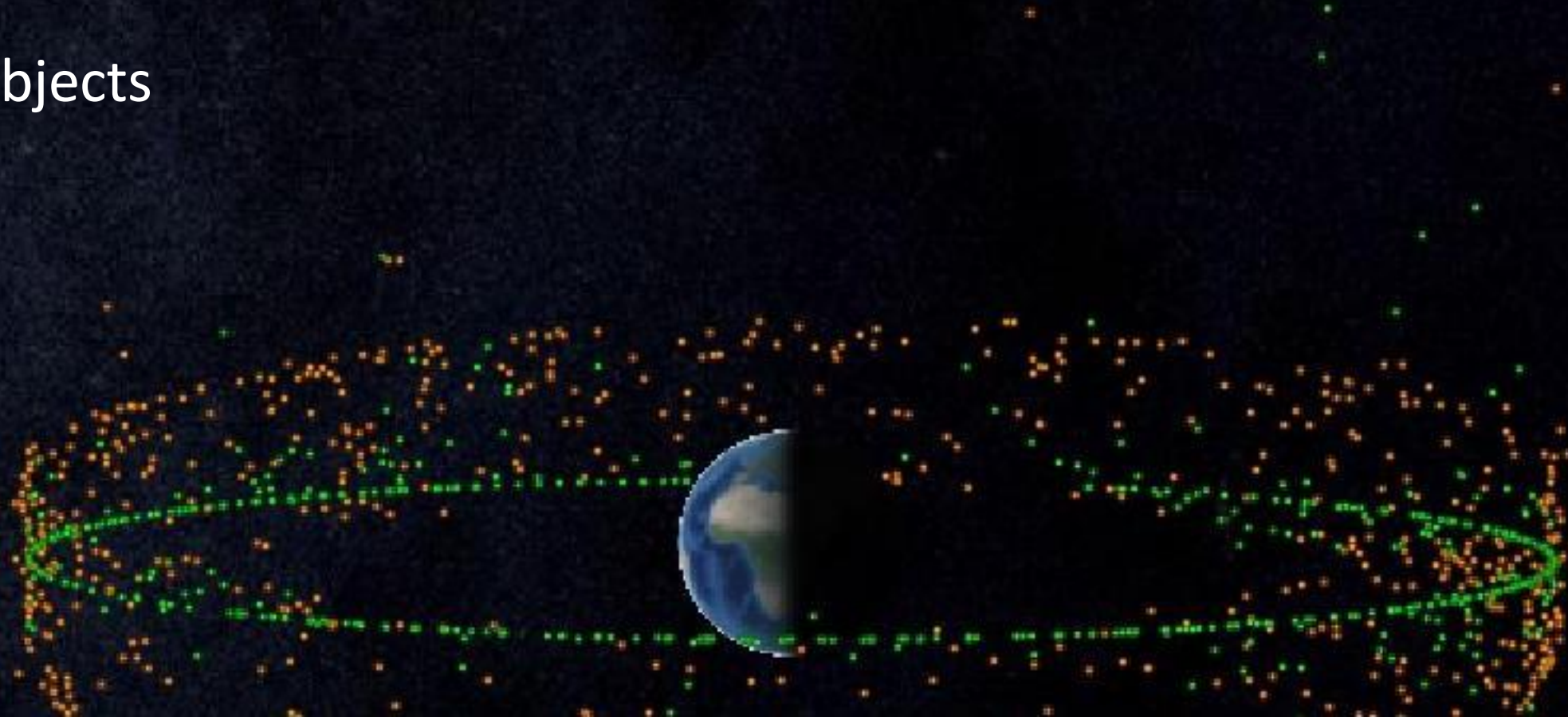
More than 30 000 objects catalogued
on orbit

Almost 80% are in LEO;

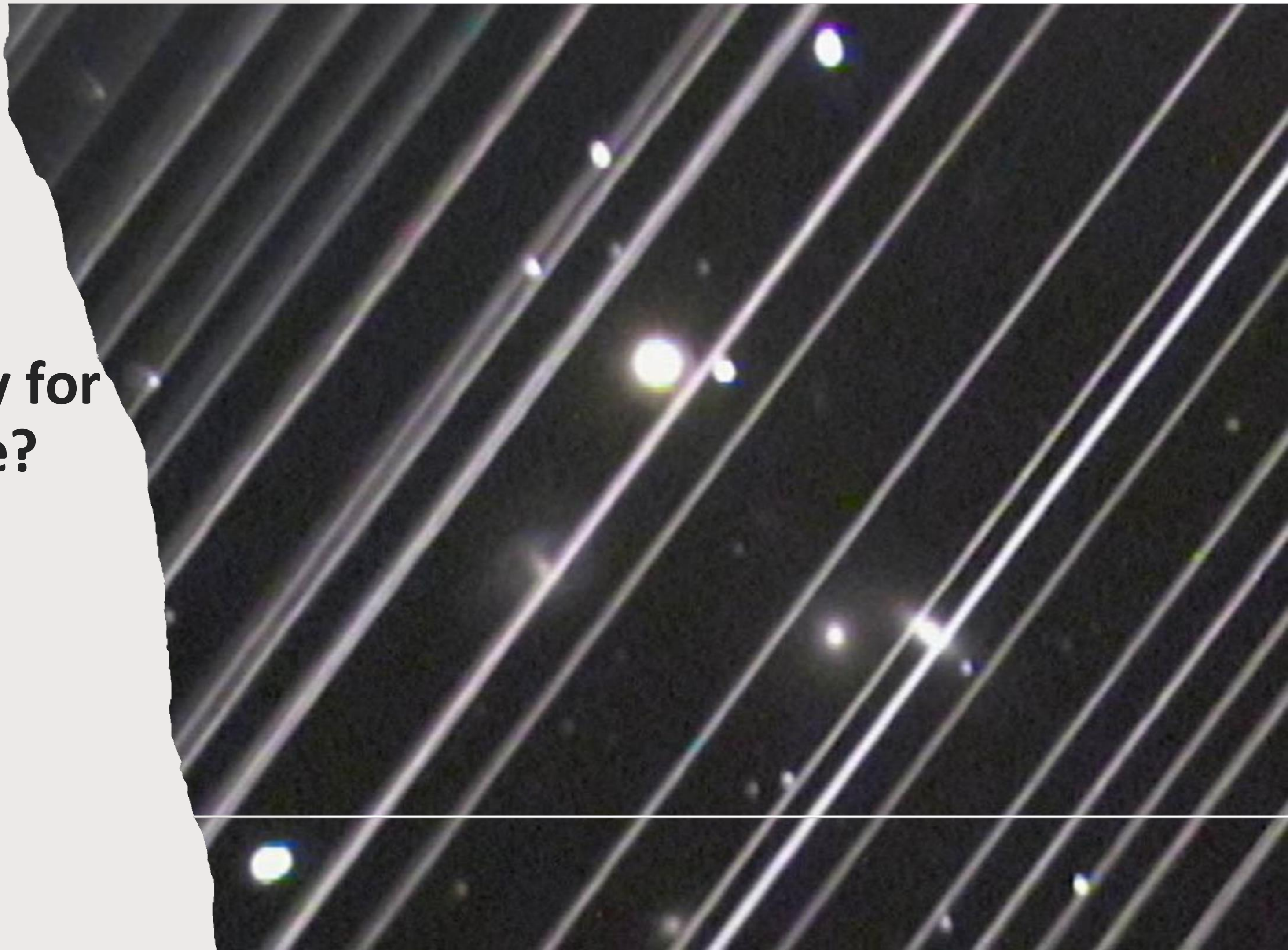


Less than 2000 objects

More than 60% of active in LEO are from Starlink



**Is the Sky only for
satellite usage?**



One Million

Question: How to use the space with more inclusion and sustainability?

Should we stop the technology evolution?

Should we limit the use of space?

Should we let part of population behind?

