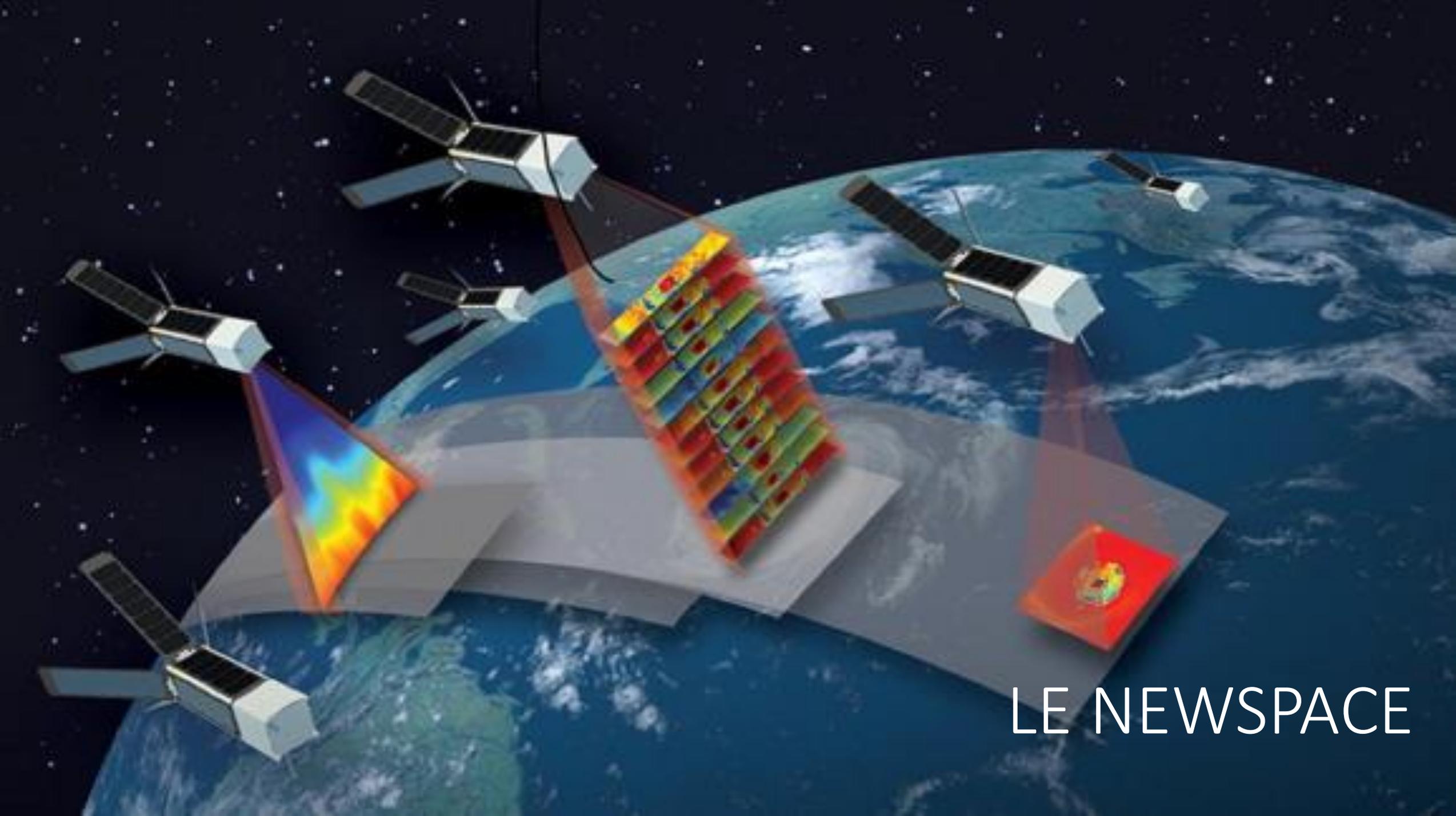


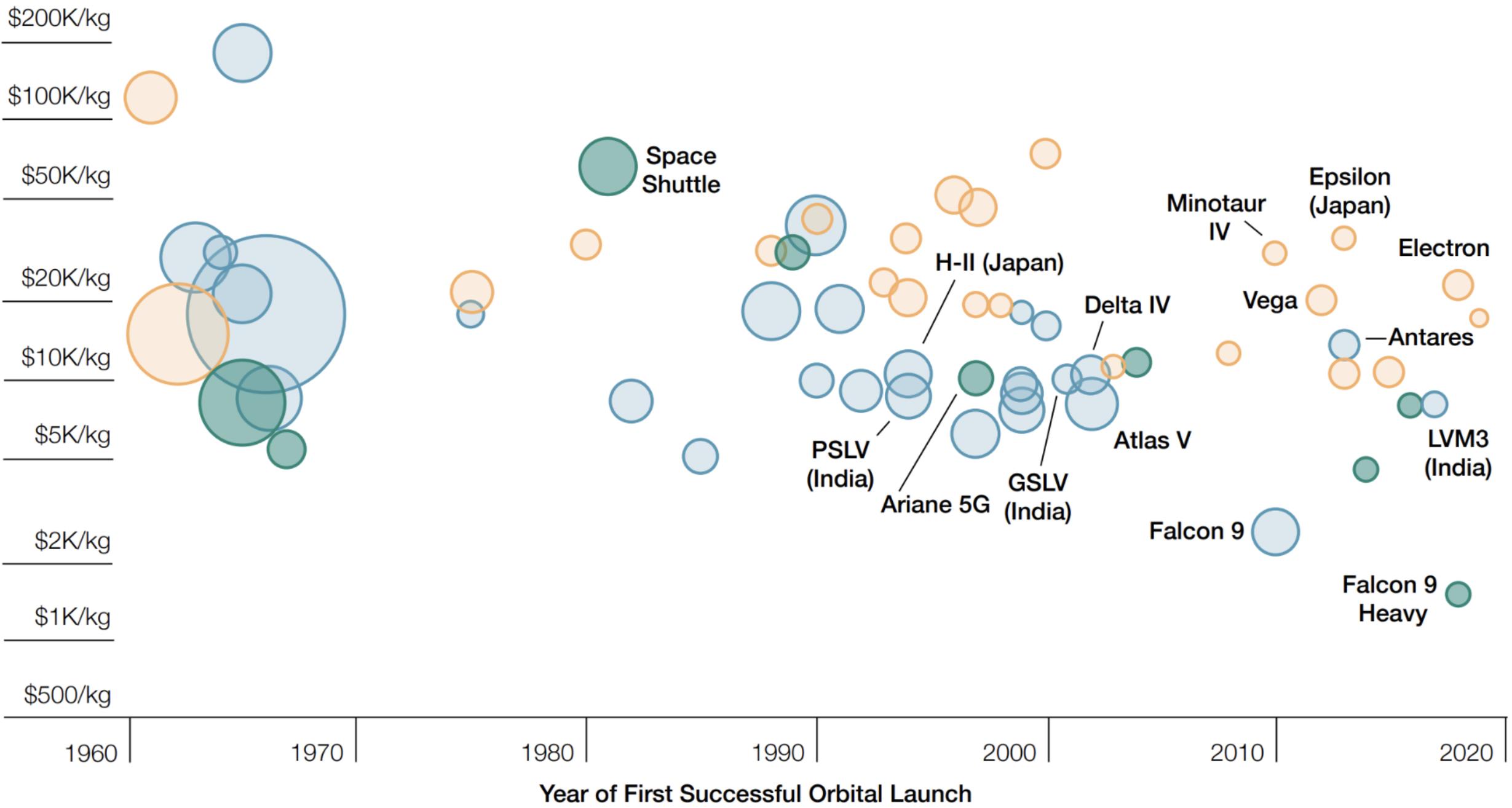
LE NEWSPACE ET LA SCIENCE





LE NEWSPACE

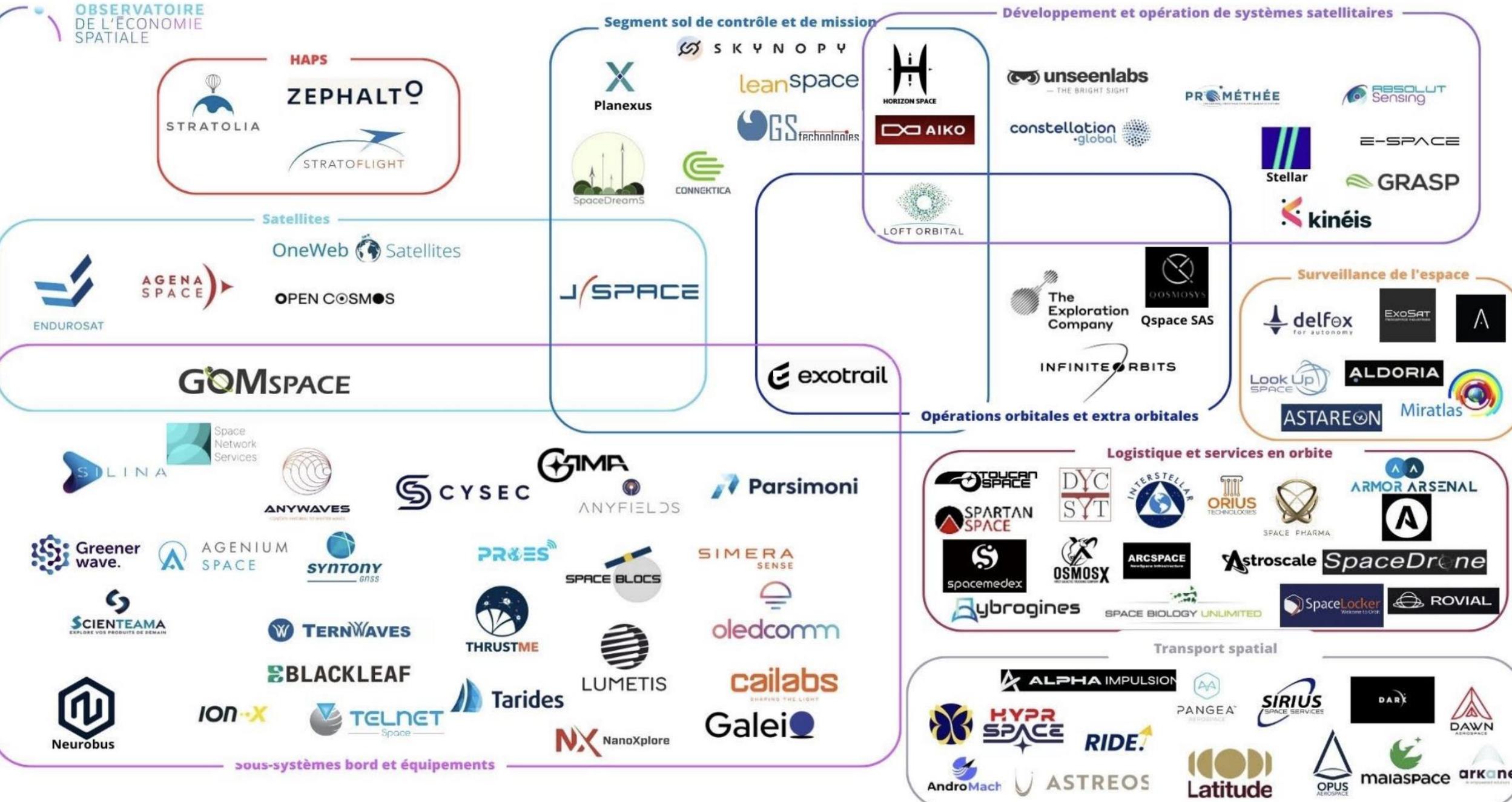




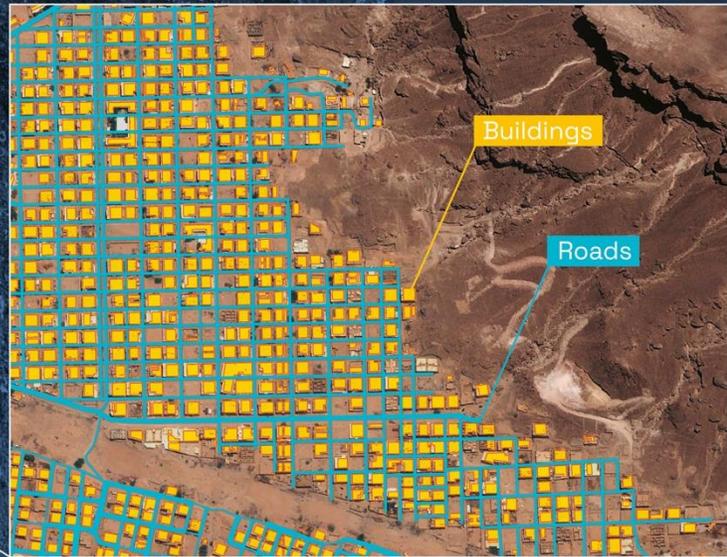
Source: Thomas G. Roberts, "Space Launch to Low Earth Orbit: How Much Does It Cost?" Center for Strategic and International Studies, September 1, 2022. <https://aerospace.csis.org/data/>

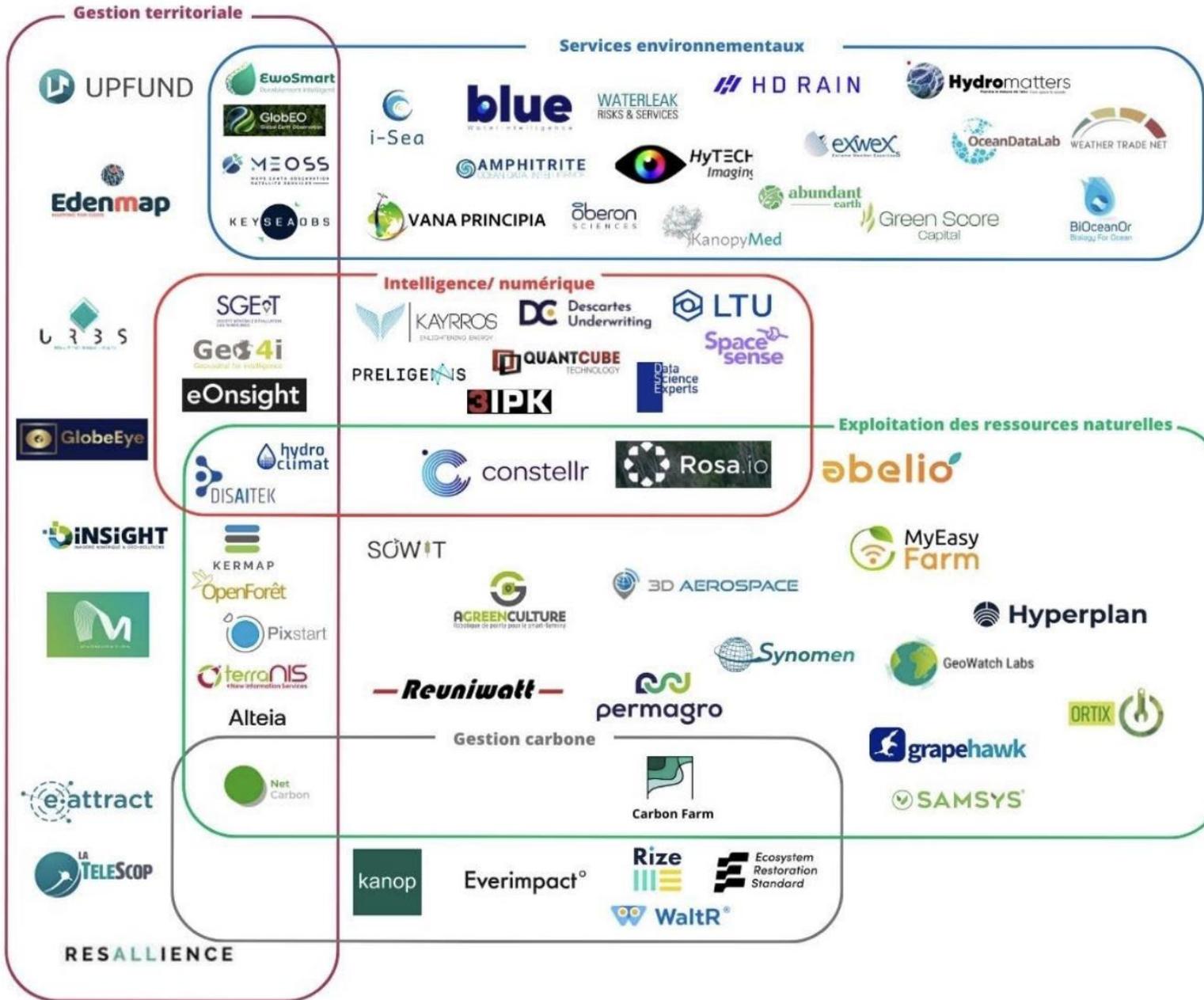


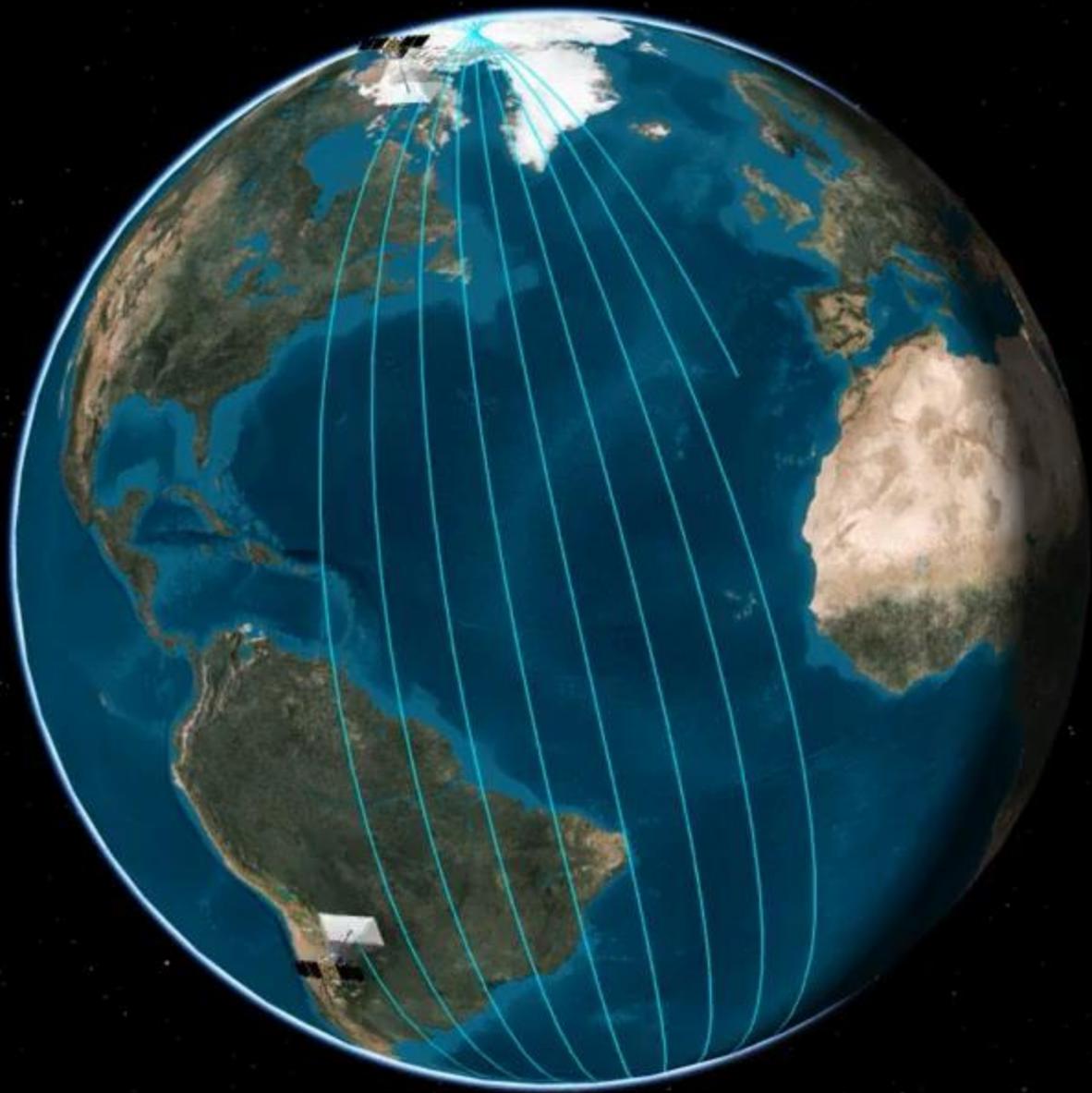
95 Entreprises

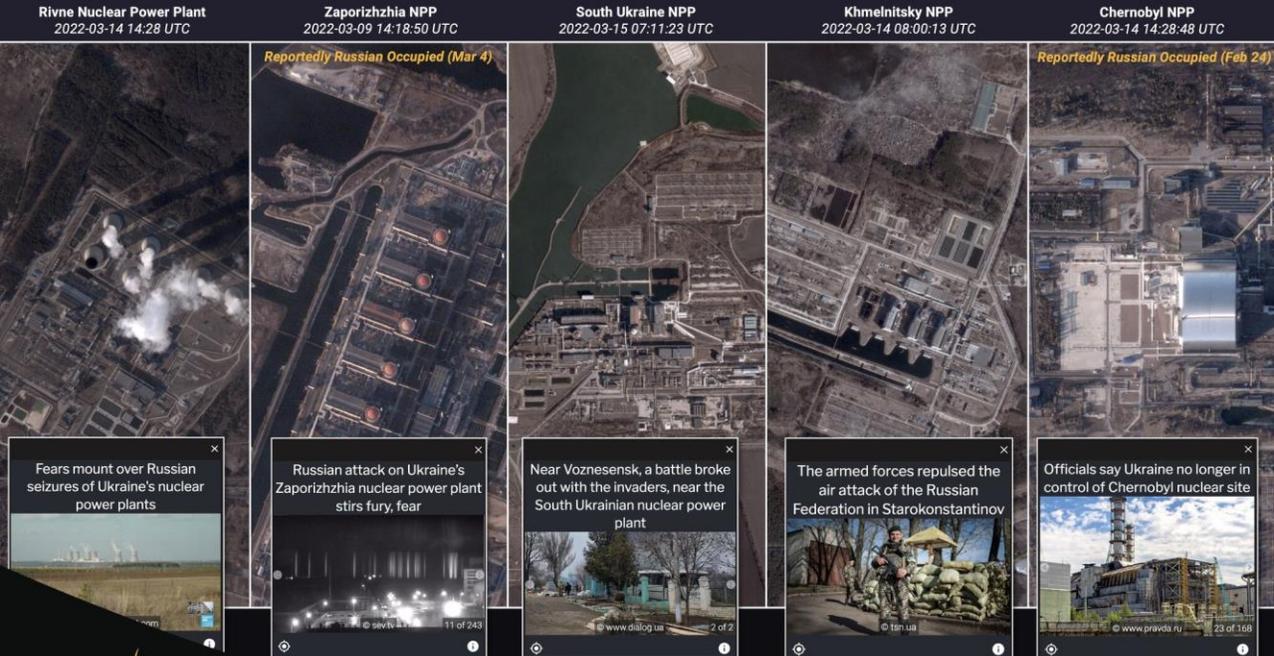












Ukrainian Nuclear Power Plant Monitoring

Seven Collects in Seven Hours

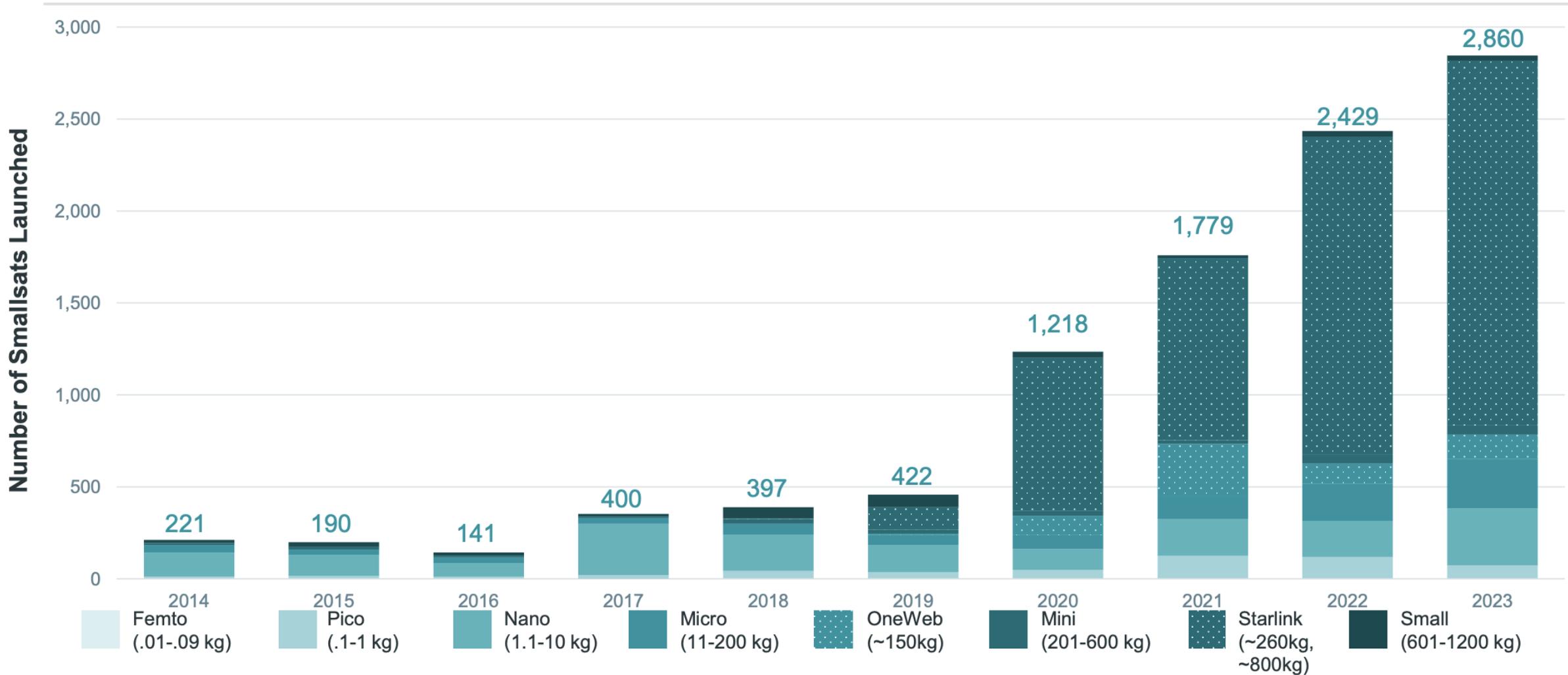
08:09 Local Time Rapid Revisit Collection Spectra AI Derived Insights 15:24 Local Time



Smallsats in Context



Smallsats 2014 – 2023, by Mass Class, Starlink and OneWeb Breakout

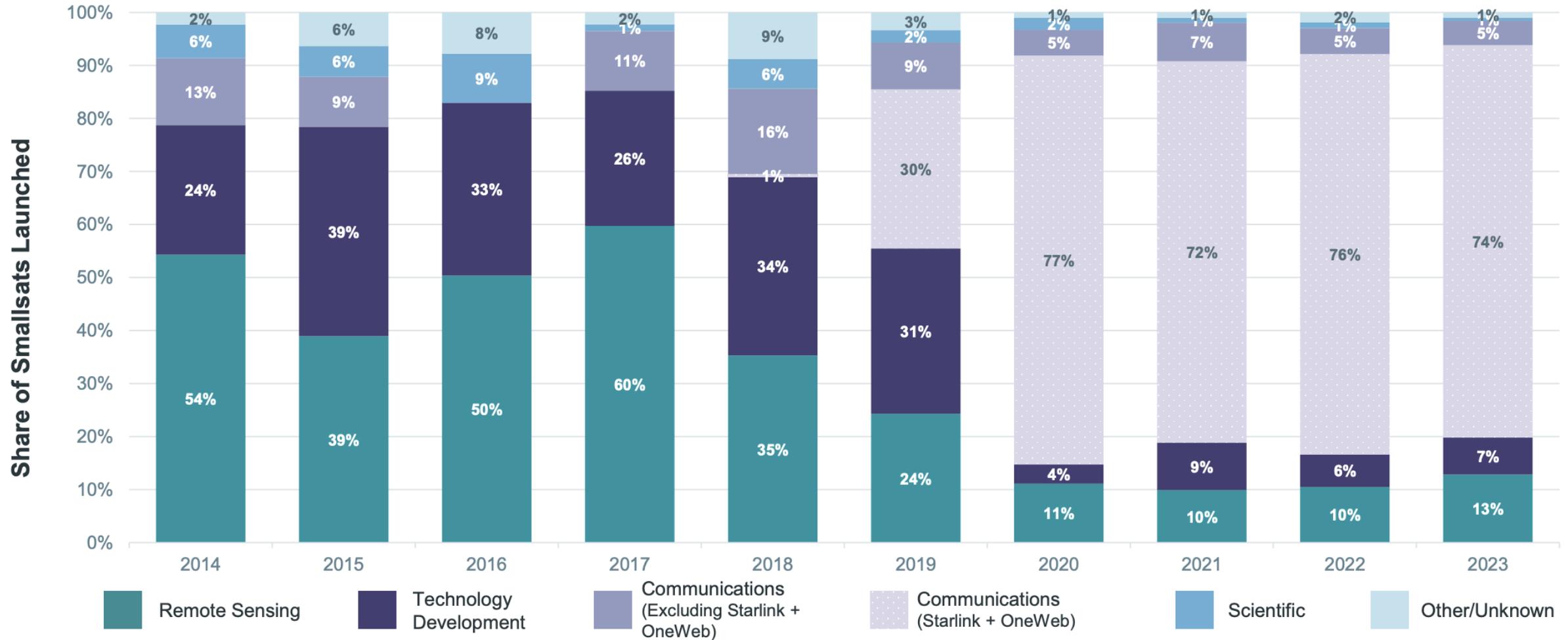


Most growth in smallsat deployments is attributable to broadband constellations, but deployments of non-broadband constellation spacecraft have increased as well

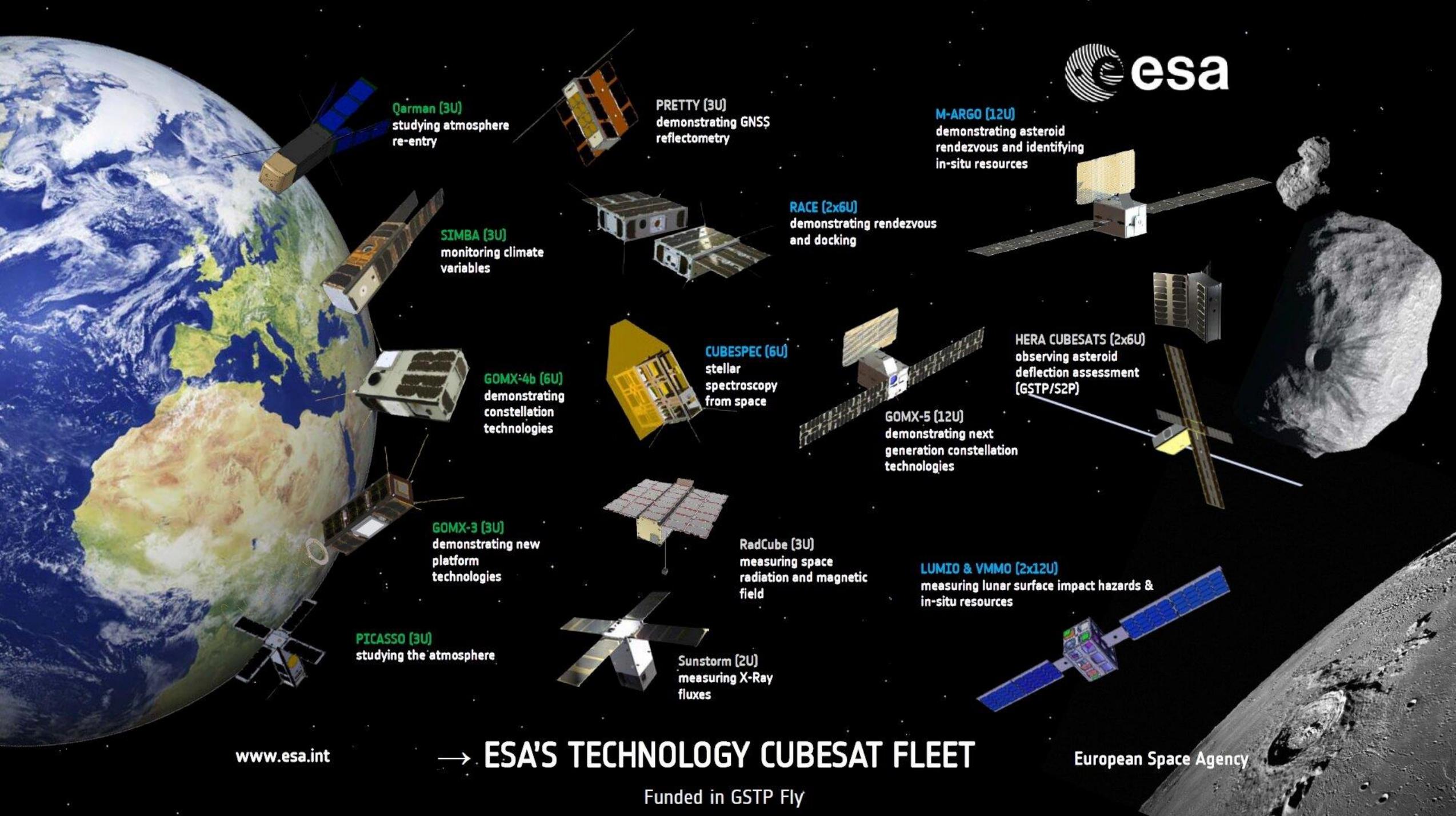
Operator and Mission Type Trends



Smallsats 2014 – 2023, by Application, Including Starlink and OneWeb



Communications satellites constitute the largest share of smallsats in 2023. Relative share of remote sensing and technology development smallsats has decreased due to launch of LEO communication smallsats



Qerman (3U)
studying atmosphere re-entry

PRETTY (3U)
demonstrating GNSS reflectometry

M-ARGO (12U)
demonstrating asteroid rendezvous and identifying in-situ resources

SIMBA (3U)
monitoring climate variables

RACE (2x6U)
demonstrating rendezvous and docking

GOMX-4b (6U)
demonstrating constellation technologies

CUBESPEC (6U)
stellar spectroscopy from space

HERA CUBESATS (2x6U)
observing asteroid deflection assessment (GSTP/S2P)

GOMX-3 (3U)
demonstrating new platform technologies

GOMX-5 (12U)
demonstrating next generation constellation technologies

PICASSO (3U)
studying the atmosphere

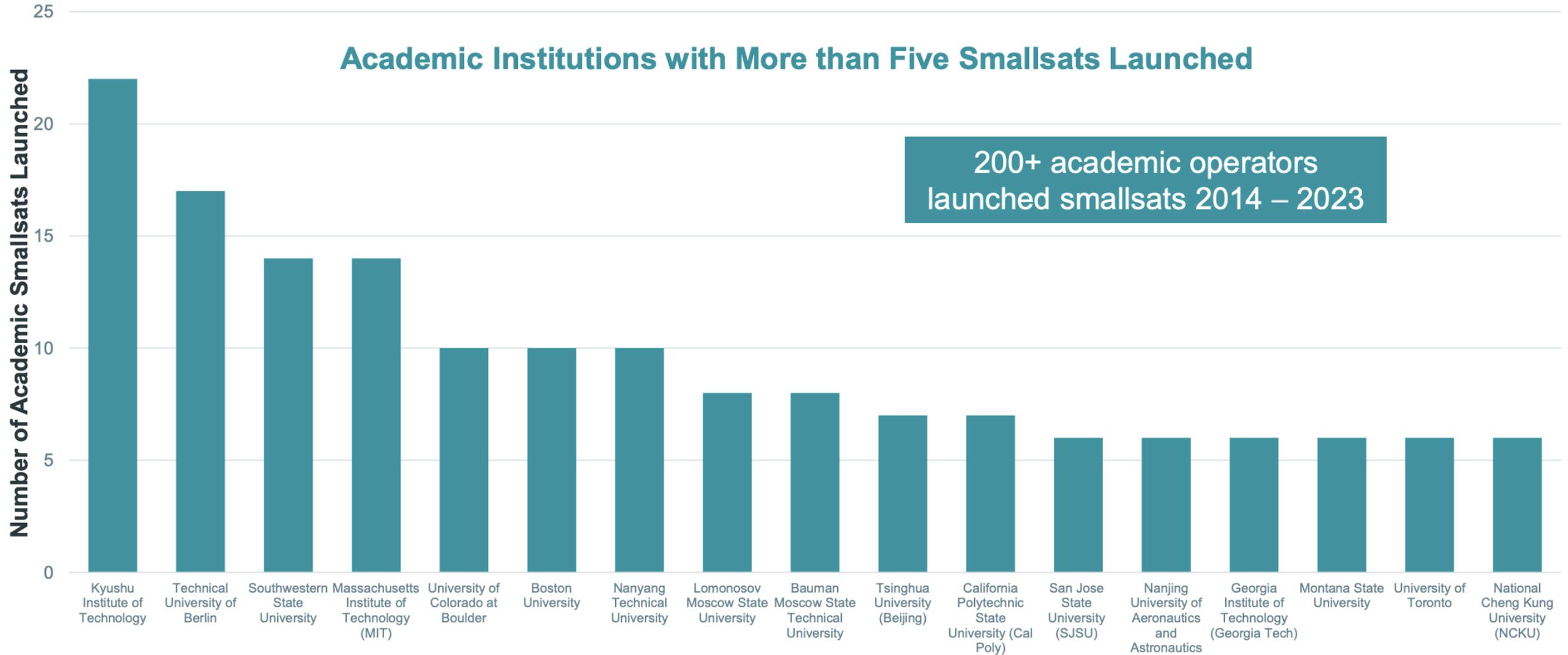
RadCube (3U)
measuring space radiation and magnetic field

LUMIO & VMMO (2x12U)
measuring lunar surface impact hazards & in-situ resources

Sunstorm (2U)
measuring X-Ray fluxes

Operator and Mission Type Trends

Number of Academic Smallsats 2014 – 2023, by Institution



The background features a complex technical diagram with various elements: a large circular scale on the left with numbers from 140 to 260; a central vertical axis with a dashed line; a network of intersecting lines and circles; and a stylized number '3' on the right. The overall color palette is dark blue and purple.

1

2

3

QUELS CHALLENGES ?

ATTIRER DES TALENTS ET LES FIDÉLISER

L'ÉCOSYSTÈME SPATIAL EN FRANCE VUE D'ENSEMBLE



70 000

PERSONNES



**SECTEUR
ACADÉMIQUE**

54 cursus
100 enseignants
2 400 étudiants/an



**LABORATOIRES
SCIENTIFIQUES**

154 laboratoires
600 équipes
200 doctorants
3 000 personnes



**ORGANISMES
INSTITUTIONNELS**

30 établissements
5 000 personnes



INDUSTRIE

260 établissements*
32 664 personnes



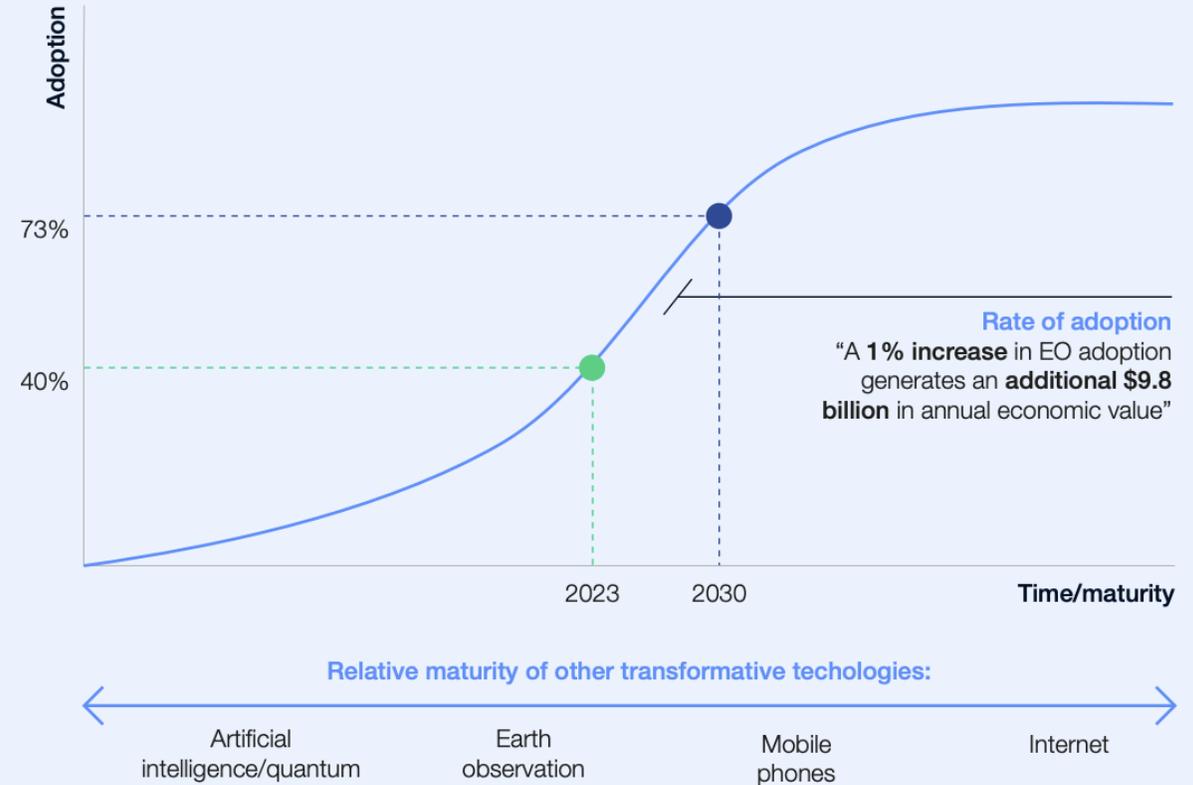
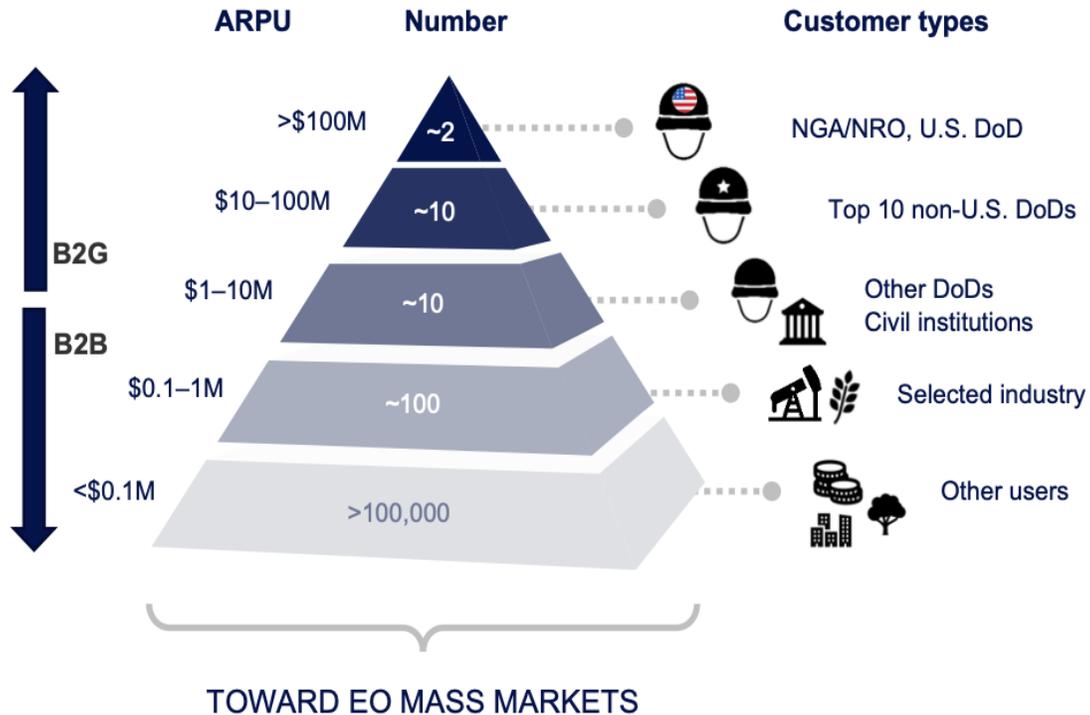
SERVICES

546 établissements*
27 314 personnes

*Établissements suivis par l'Observatoire du Spatial

FACILITER L'ADOPTION SUR UN MARCHÉ À FORT POTENTIEL

Schematic: Annual EO procurement



Sensibiliser les utilisateurs finaux aux bénéfices des services géospatiaux

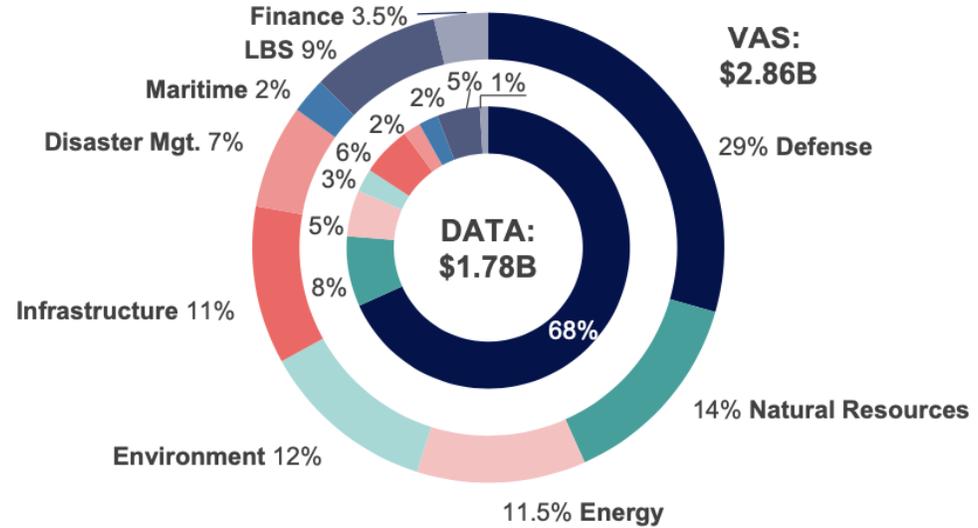
Fournir des solutions applicatives, pas de pixels pour toucher de nouveaux clients

PRENDRE EN COMPTE LE MARCHÉ DANS L'INNOVATION

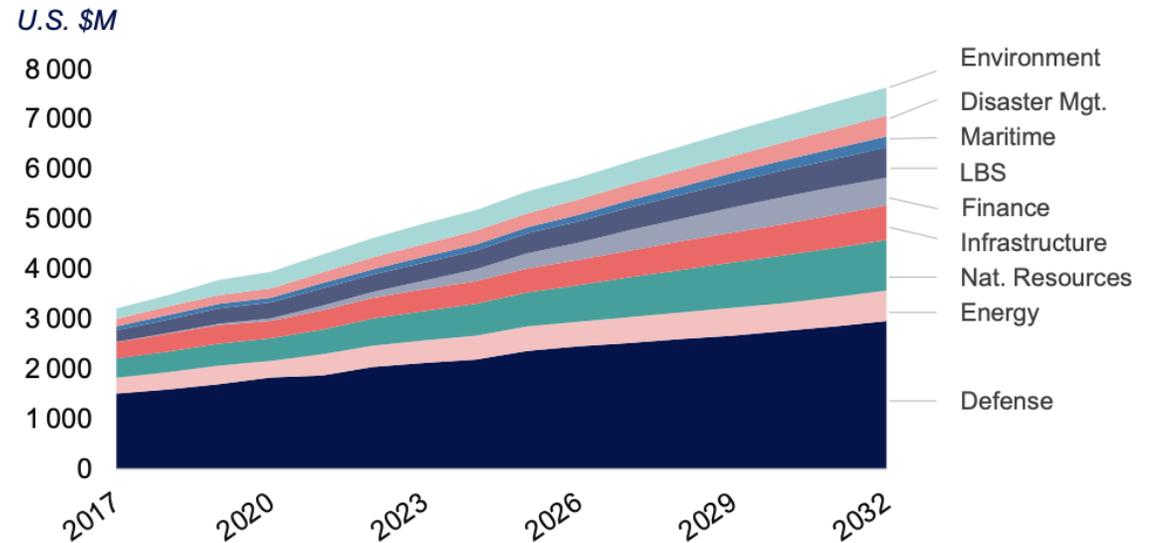
Vertical



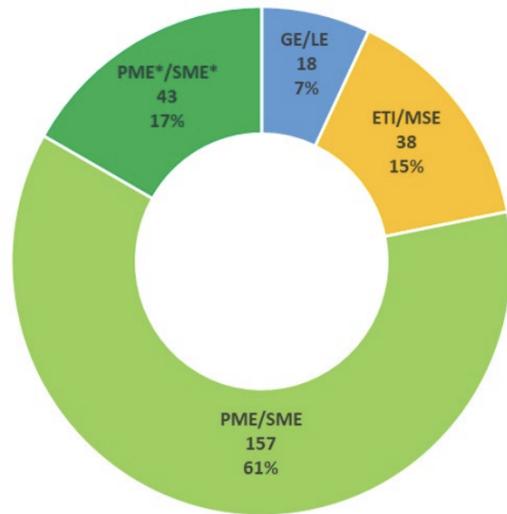
Data and VAS market: 2021



Data and VAS market 2017–2022 and forecast to 2032



RENFORCER LA COLLABORATION AVEC LE SECTEUR PRIVÉ

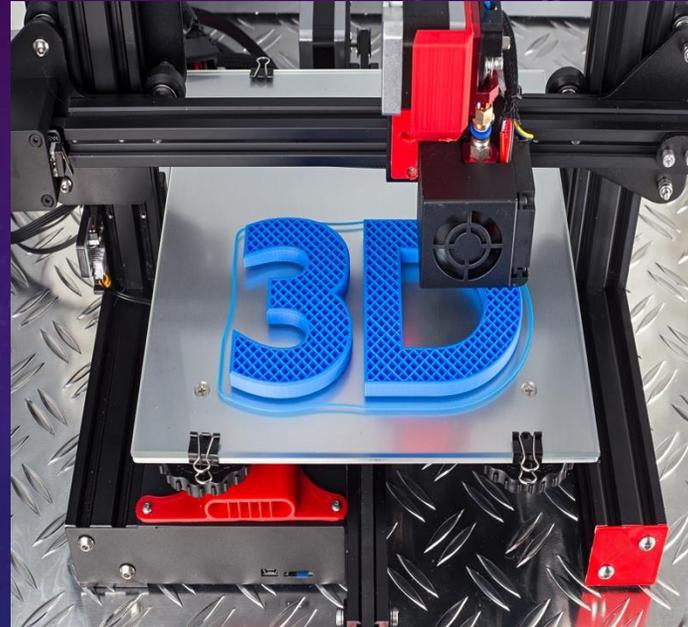


256 Entreprises françaises du spatial

Type	Staff headcount	Turnover	Total balance sheet
PME / SME Petite et Moyenne Entreprise Small and Medium Enterprise	≤ 250	≤ 50 M€	≤ 43 M€
PME* / SME* Petite et Moyenne Entreprise étendue Extended Small and Medium Enterprise	Same criteria as SME regardless of shareholding		
ETI / MSE Entreprise de taille Intermédiaire Mid-sized Enterprise	≤ 5000	≤ 1500 M€	≤ 2000 M€
GE / LE Grande Entreprise Large Enterprise	5000 <	1500 M€ <	2000 M€ <



EN CONCLUSION



EN DÉPIT DES INCERTITUDES, IL EST TOUJOURS POSSIBLE D'AGIR,
POUR SÉCURISER ET CONSOLIDER UNE FILIÈRE DU NEWSPACE
SOUVERAINE ET DE PREMIER PLAN

A digital globe of the Earth is shown from space, with a network of glowing blue lines and dots overlaid on its surface, representing global connectivity. The word "MERCI" is written in white, bold, uppercase letters across the center of the globe. The background is a dark blue space with faint, glowing circular patterns and numbers like "40 15" and "092" visible on the left side.

MERCI