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Supersizing the Space Economy



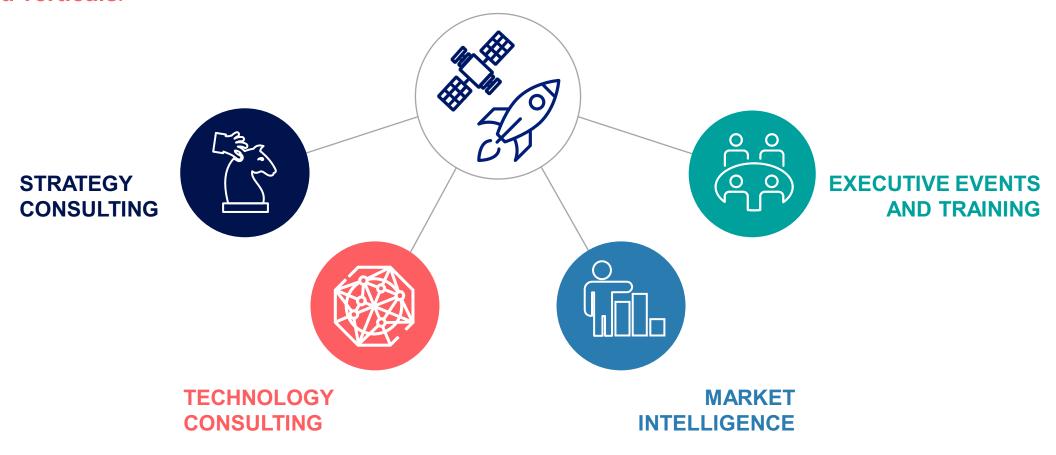
Nathan de Ruiter Managing Director





Who we are

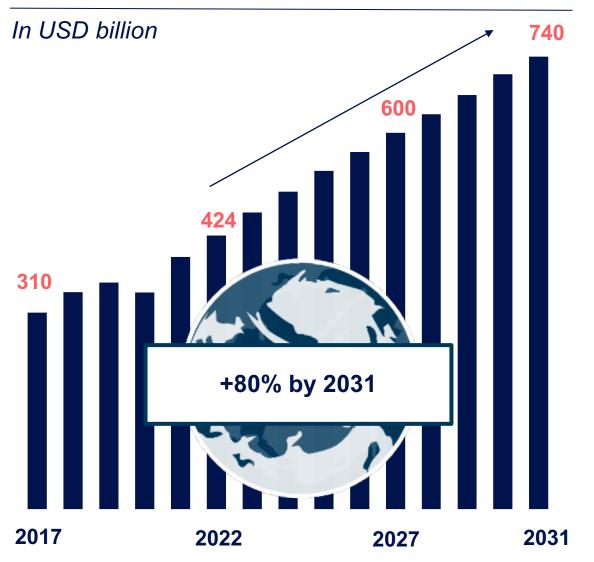
Euroconsult is the leading global consulting group specializing in the space sector and satellite enabled verticals.



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India Space Congress

Value of the global space economy (2017-2031)



A 424B\$ global space economy

The global space economy is experiencing **strong market dynamics** pushed by:

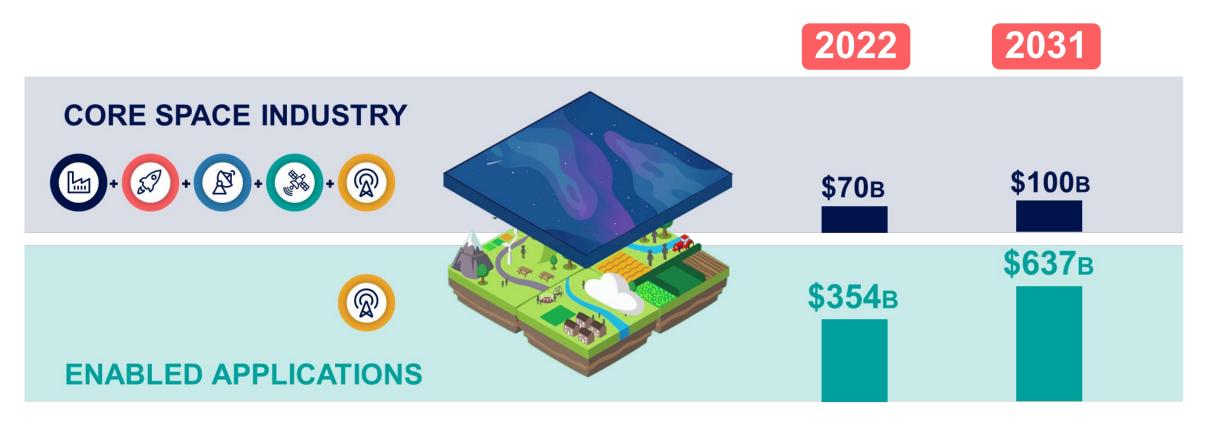
- Wew supply and demand drivers
- Disruptive innovations
- Transforming business models

Source: Euroconsult, Space Economy Report, 8th edition



Supersize me? What is the real size of the core space industry

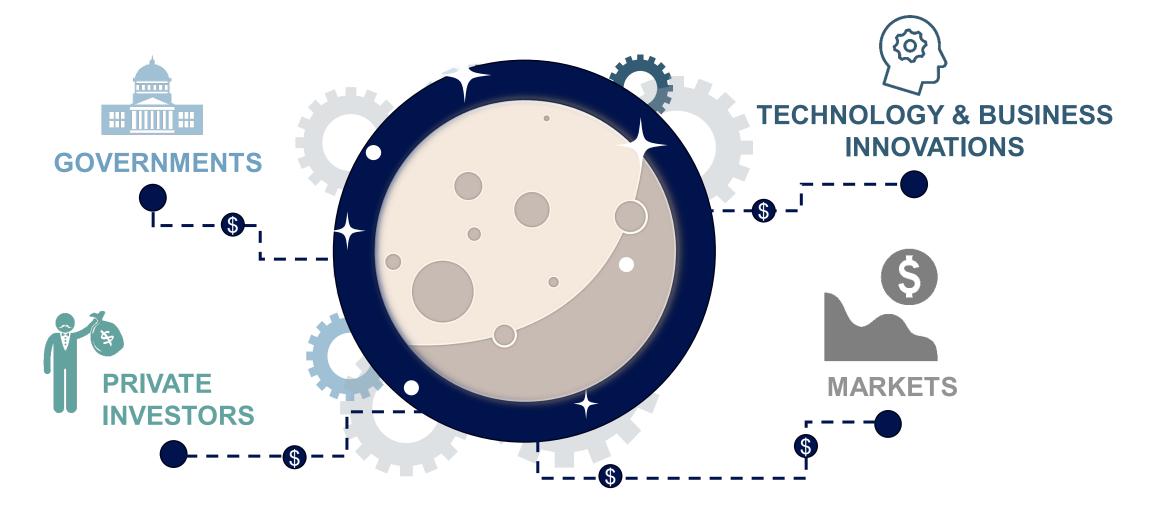
A 100B\$ sector, not a trillion!



Source: Euroconsult, Space Economy Report, 9th edition



4 Drivers Fueling the Space Economy



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Private investment trends

FUNDS RAISED BY SPACE COMPANIES Through venture capital, IPO, SPAC SpaceX's share: 18% \$17B \$5B 2018

Attractivity of the space industry for investors

+450 space companies raised \$36.7B over the last 5y

Investment slowdown in 2022

Average value of investments fell to \$31M (\$65M in 2021)

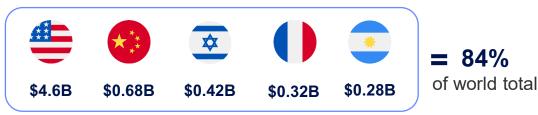
SPAC activity dried up in 2022

Only two deals closing and two cancellations (12 in 2021)

TOP 5 COUNTRIES BY PRIVATE INVESTMENT*





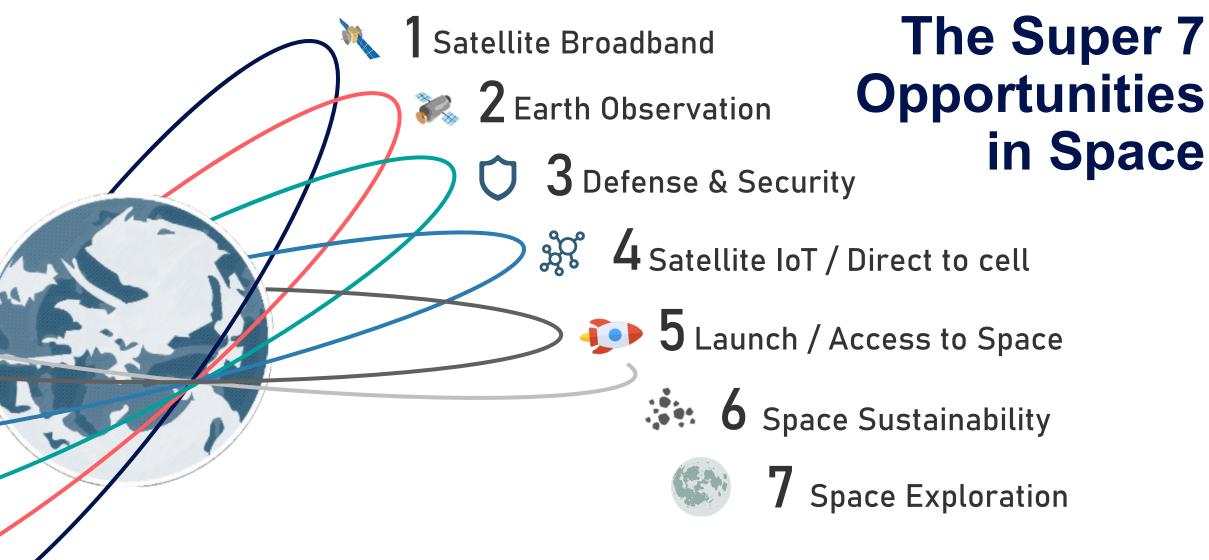




*Excluding debt, government grants, and personal investment in Blue Origin from Jeff Bezos

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#1: Satellite Broadband Connectivity

"Connecting the unconnected" is the largest market opportunity for satellite services

15% VSAT penetration

Mobile Broadband

~750k vessels and planes beyond the reach of terrestrial networks



1



Aero Milsatcom

12%

VSAT penetration

Fixed Broadband

Up to 600M
Unconnected population globally









Untapped market opportunity

Source: Euroconsult, Satellite Connectivity and Video Market, 29th edition



#2: Earth Observation

New constellations providing diversified sensors & resolutions impact data price points & new capabilities to build data products & analytics

Key growth factors



New satellite supply and constant monitoring



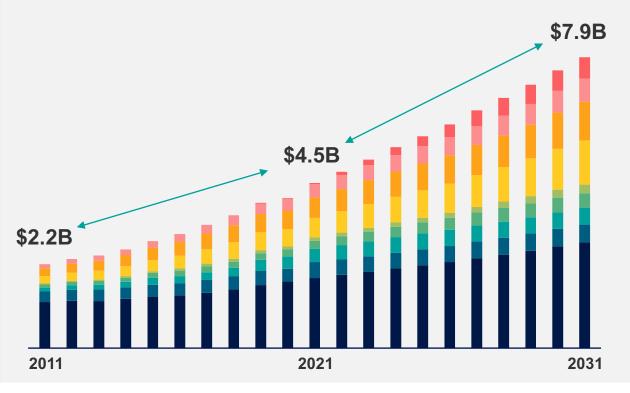
Cloud-based services: Change detection at scale



Premium products based on highest resolutions or from complex processing (3D)



Civil government, security and defense



DISRUPTIVE

Finance LBS

TAKE UP

Natural Resources
Infrastructure

WARMING UP

Maritime

Disaster Mngt

Environment

Energy

LEGACY

Defense

Source: Euroconsult, Earth Observation Data & Services Market 15th edition



#3: Defense & Security



2015-25 growth of defence space spending

Military satellites launched >50 kg

377
Last decade



883 Next decade

Countries investing in military space capabilities





67% 2015 78% 2025

Share of global defence space spending



4% 2025



8% 2025



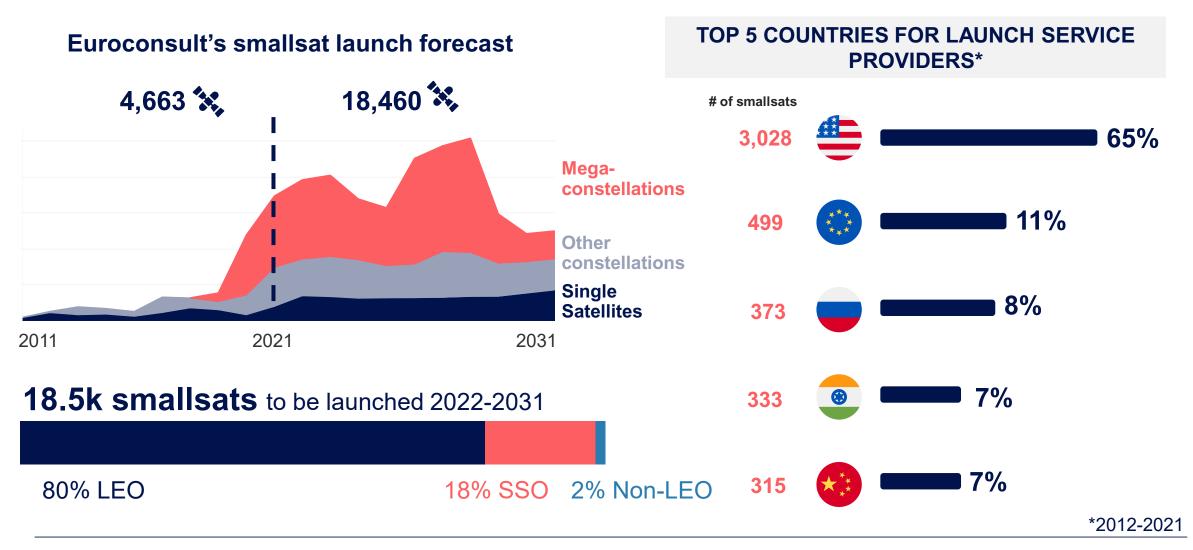
#4: Satellite IoT / Direct to cell phone

The global Satellite handheld and IOT market is undergoing a major transition

iPhone to use emergency SOS \$13.5B via satellite 2030 **Total revenue** 2022-2030 2022 Key technology for cockpit connectivity for commercial airlines Growing digitization increasing demand for M2M/IoT applications. Potential for new applications such as Direct-to-Cell phone and connected car Source: Euroconsult, Prospects for L-Band, IoT & M2M Markets, 7th edition



#5 Launch / access to space

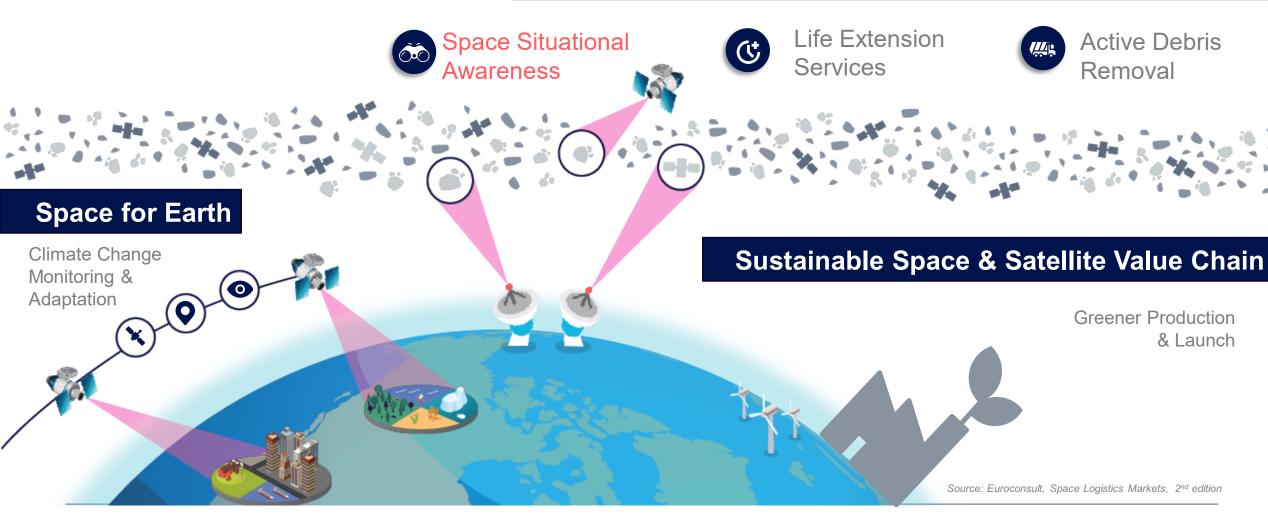


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#6 Space Sustainability

Space & Ground for Space

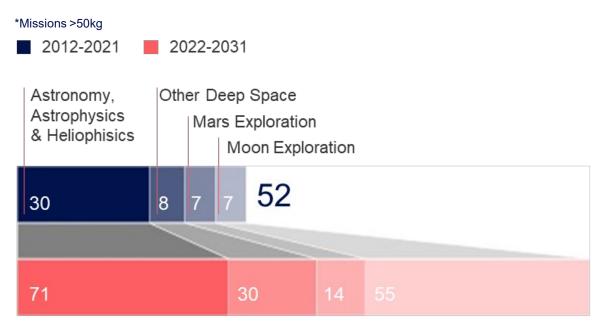


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#7: Space Exploration

An increasing number of government space exploration missions to be expected



Artemis Accords Signatories





Government funding to reach nearly \$31B by 2031 (+22%)



Moon exploration is anticipated to experience the highest sustained growth of all space exploration applications for the next decade (10.1% 10Y CAGR)

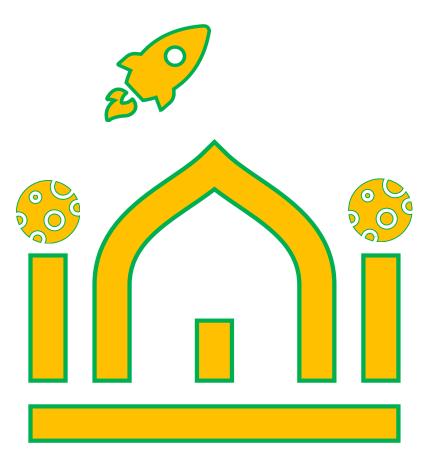
170



New contractual models between governments and the private sector will shape future exploration activities



Supersizing the Indian Space Economy





Upstream investments are required to enable the downstream value creation



India is an important target market to unlock the **Super Seven Opportunities**



India's advanced space capabilities have attracted international partners



The flourishing Indian private sector and the emergence of new space start-ups are poised to capitalize on international market opportunities

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Thank you

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