

# Trends in the Space Sector 2023

Capacity Building for Family Offices  
Online-WebEx, 28/09/23

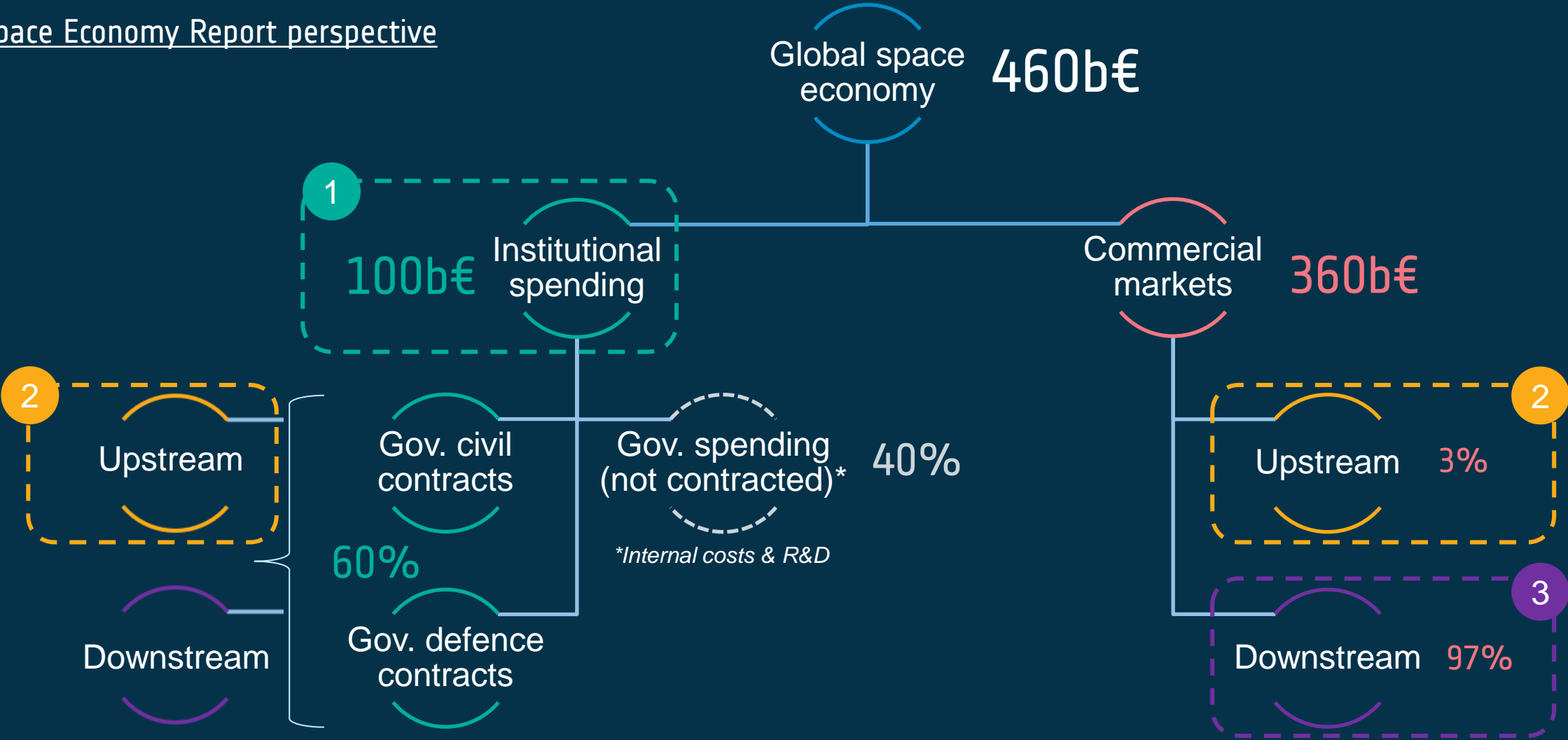
## ESA COMMERCIALISATION GATEWAY

SPACE FOR BUSINESS  
BUSINESS FOR SPACE

Jules Varma

Commercialisation Department  
Ventures and Financing Office

ESA Space Economy Report perspective



Note The overview presents rounded values.  
Source Euroconsult, Space Economy Report 2022, [Press Release](#)

# 1 Public investment in space 2022

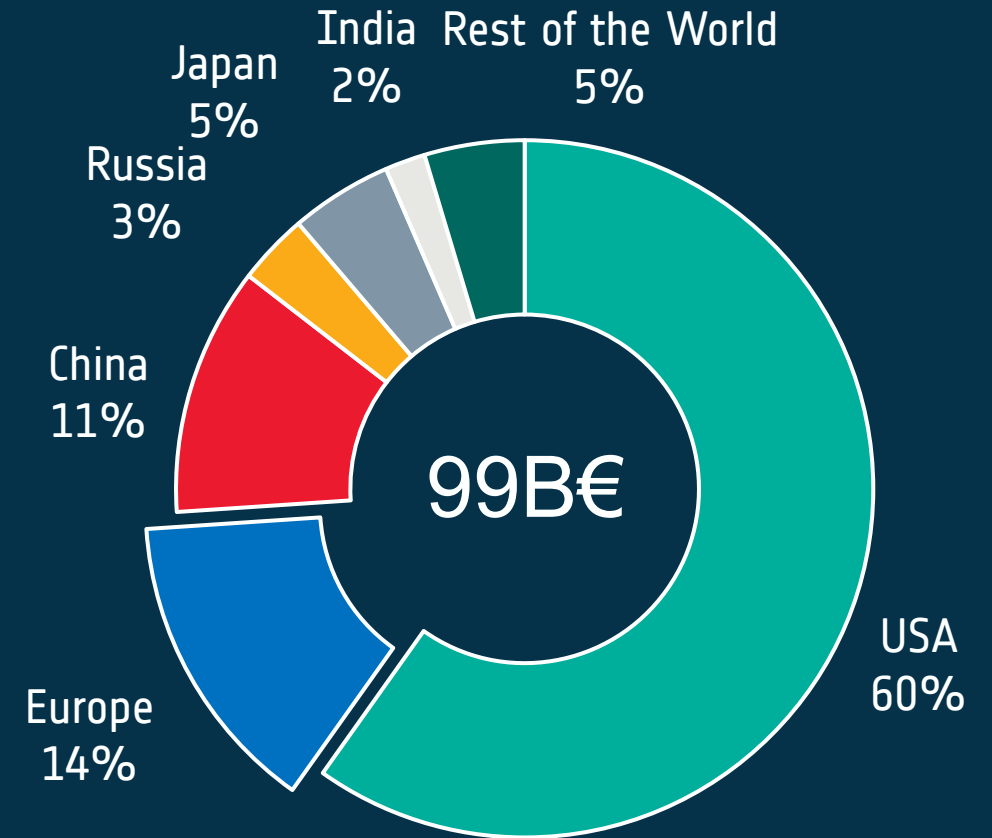
- **€99 billion (+9%)** of global public space investment in 2022 (civil and military)
- Growth largely **driven by defence** space budgets
- Continuously **underestimated Chinese and Russian space budgets** due to lack of publicly available data



**€14 billion (+3%)** of European public space investment in 2022

Public investment in space 2022 (civil & military) (%)

Source: Euroconsult



Note Year-over-year variations based on the US dollar values, to avoid misleading evolutions due to the strong variations of the Dollar-Euro exchange rate from 2021 to 2022.

Source Euroconsult, Government Space Programs 2022, [Press Release](#)

## 2 Upstream overview 2022 Manufacturing & Launch

- 186 launches (+28%) in 2022
- 2,507 satellites launched (+36%) of which 95% of smallsats (<500kg) and 87% from commercial operators



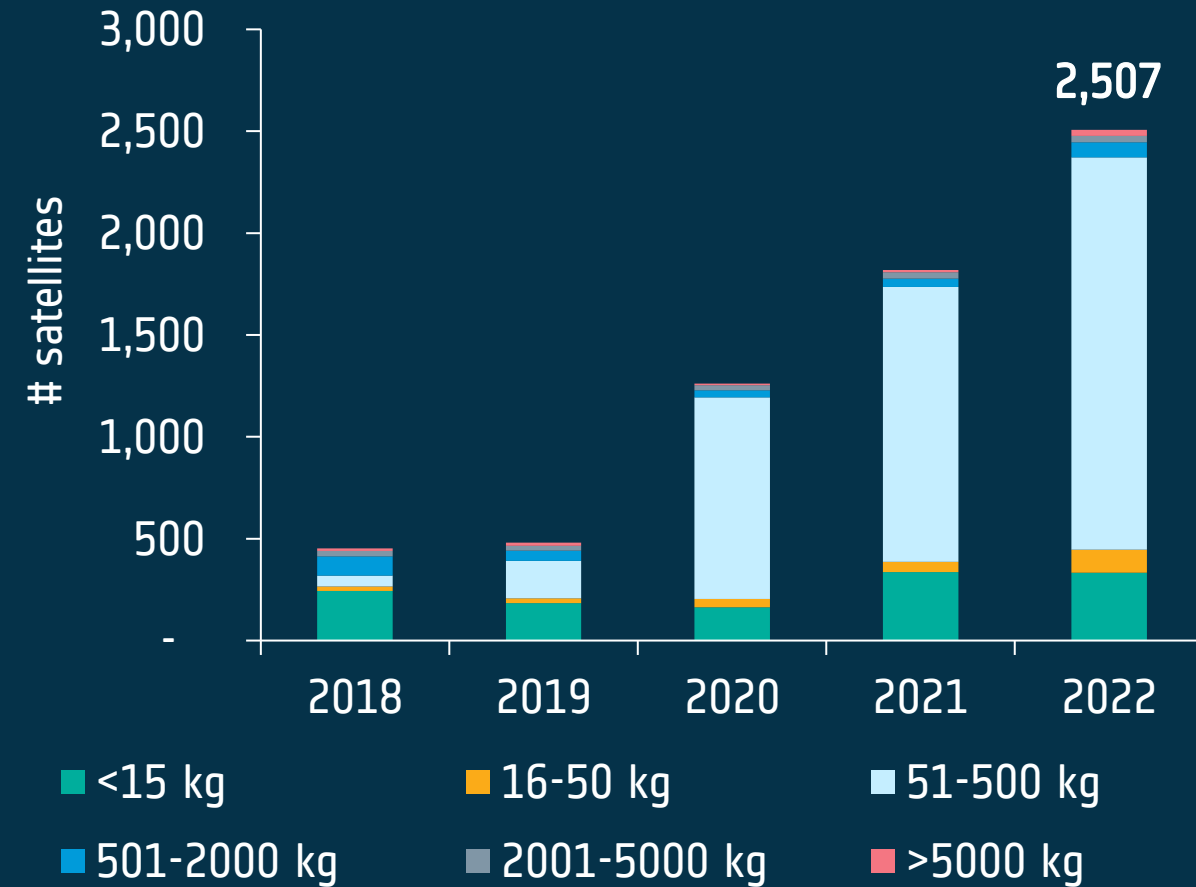
With 6 launches, Europe captures 3% of the launch volume and 12% of the launch value



With 114 satellites launched, European prime manufacturers capture 5% of the manuf. volume and 19% of the manuf. value

Satellites launched, by mass category

Source: Euroconsult



- €339 billion\* (8%) of global *commercial* downstream revenues in 2022
- 4% generated by revenues from *commercial* satellite *operations*
- 96% generated from *commercial* *service* revenues, of which satellite navigation accounts for 67%; satellite communication for 32% and EO 1%



With ~€80 billion\*, Europe captures ~24% of the global commercial downstream market in 2022.

\* Excluding user terminals (broadband antennas, TVRO and satellite radio equipment)

Note Year-over-year variations based on the US dollar values, to avoid misleading evolutions due to the strong variations of the Dollar-Euro exchange rate from 2021 to 2022.

Source Euroconsult, Space Economy Report 2022, [Press Release](#)

# Private investment in space 2022

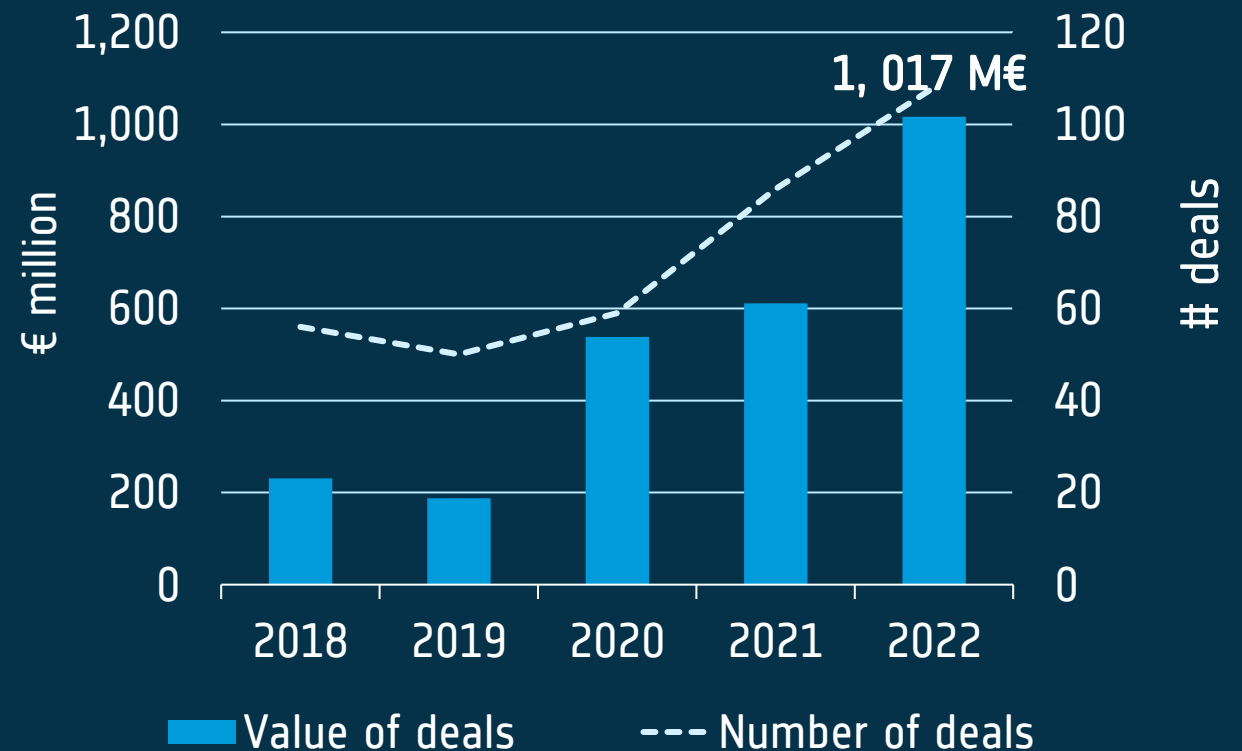
- €8-9 billion of global private space investment in 2022 (approx. -30% to 2021)
- Decrease largely driven by the US (-33% compared to 2021)



Over €1 billion of private investment in European space ventures in 2022 (+66%)

Number and value of annual deals in European space start-ups

Source: ESPI



Note Preliminary estimates

Source ESPI, Space Venture Europe 2022, [link](#)



# In 2023... we will see !



ClearSpace raises €26 million to cleanup space in a Series A round led by OTB Ventures and Swisscom Ventures



The Exploration Company

The Exploration Company Secures €40 Million Funding in a Record Series A Round for the European Space Tech Sector



Exotrail raises 58M\$ in a Series B round, to scale-up and pursue its ambitions for space mobility, worldwide.



Space company Isar Aerospace secures Series C Funding Round of USD 165m to meet global demand for access to space

Forecaster	Date	Space Economy Estimate
Union Bank of Switzerland (UBS)	2040	\$926 billion
Morgan Stanley	2040	\$1.1 trillion
US Chamber of Commerce	2040	\$1.5 trillion
Bank of America	2045	\$2.7 trillion
Goldman Sachs	2040	Multi-trillion
Satellite Industry Association (SIA) (non-official, authors' calculation)	2040	\$580 billion
Space Foundation (non-official, authors' calculation)	2040	\$1 billion
Euroconsult (non-official, authors' calculation)	2040	\$1.2 trillion



COMMERCIALISATION.ESA.INT