



# Canada's Space Sector Industry Snapshot 2024



Credit: RADARSAT Constellation Mission image © Government of Canada [2024]. RADARSAT is an official mark of the Canadian Space Agency. Mosaic created by the Canada Centre for Mapping and Earth Observation of Natural Resources Canada.

# BACKGROUND



This snapshot, developed by the **Canadian Space Agency** (CSA) in collaboration with **Space Canada**, provides information about the space economy in Canada.

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The data is **based on an annual voluntary survey** led by the CSA and sent to **space organizations in Canada**. The facts and figures presented are limited to survey responses and supplementary internal information. The data collected remains confidential and protected by the CSA. It has not been shared with Space Canada in any way. This information is only made public in aggregate form.

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The report covers data for the year of **2023**.

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The numbers presented may not add up precisely to the totals provided because of rounding.

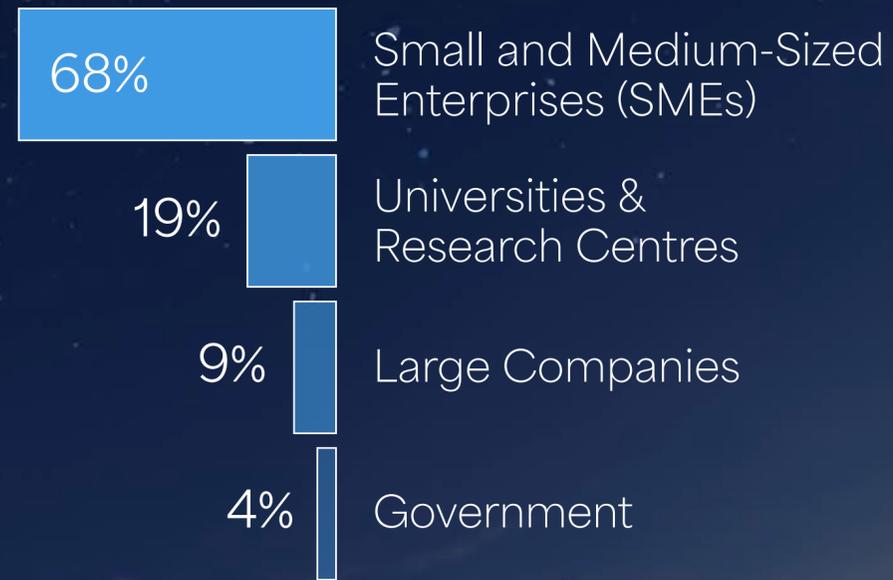
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Further details are set out in the CSA's ***State of the Canadian Space Sector Report*** published on the CSA website:  
<https://www.asc-csa.gc.ca/eng/publications/corporate.asp>

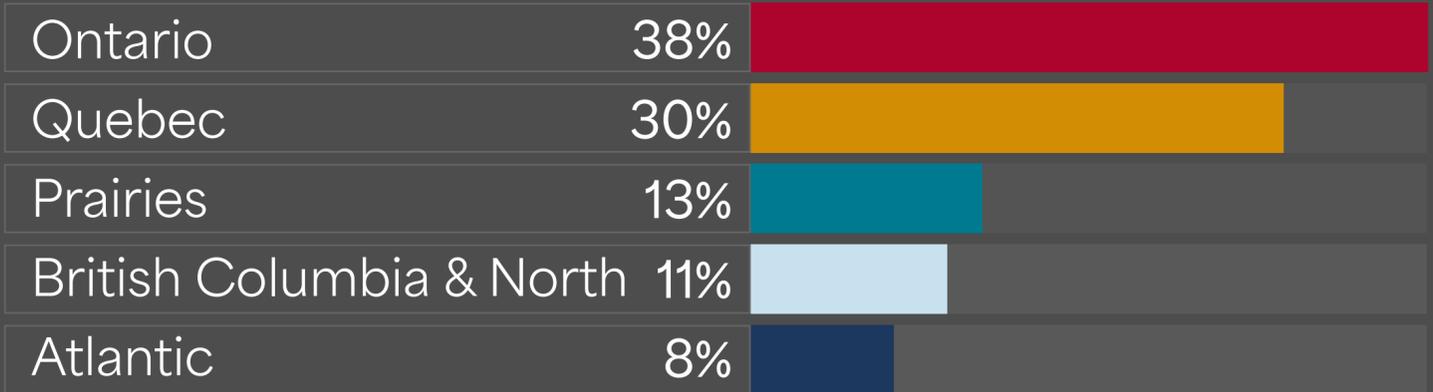
# SPACE ECONOMY ECOSYSTEM

Over 200 organizations from across Canada are involved in the CSA's Annual Space Sector Survey.

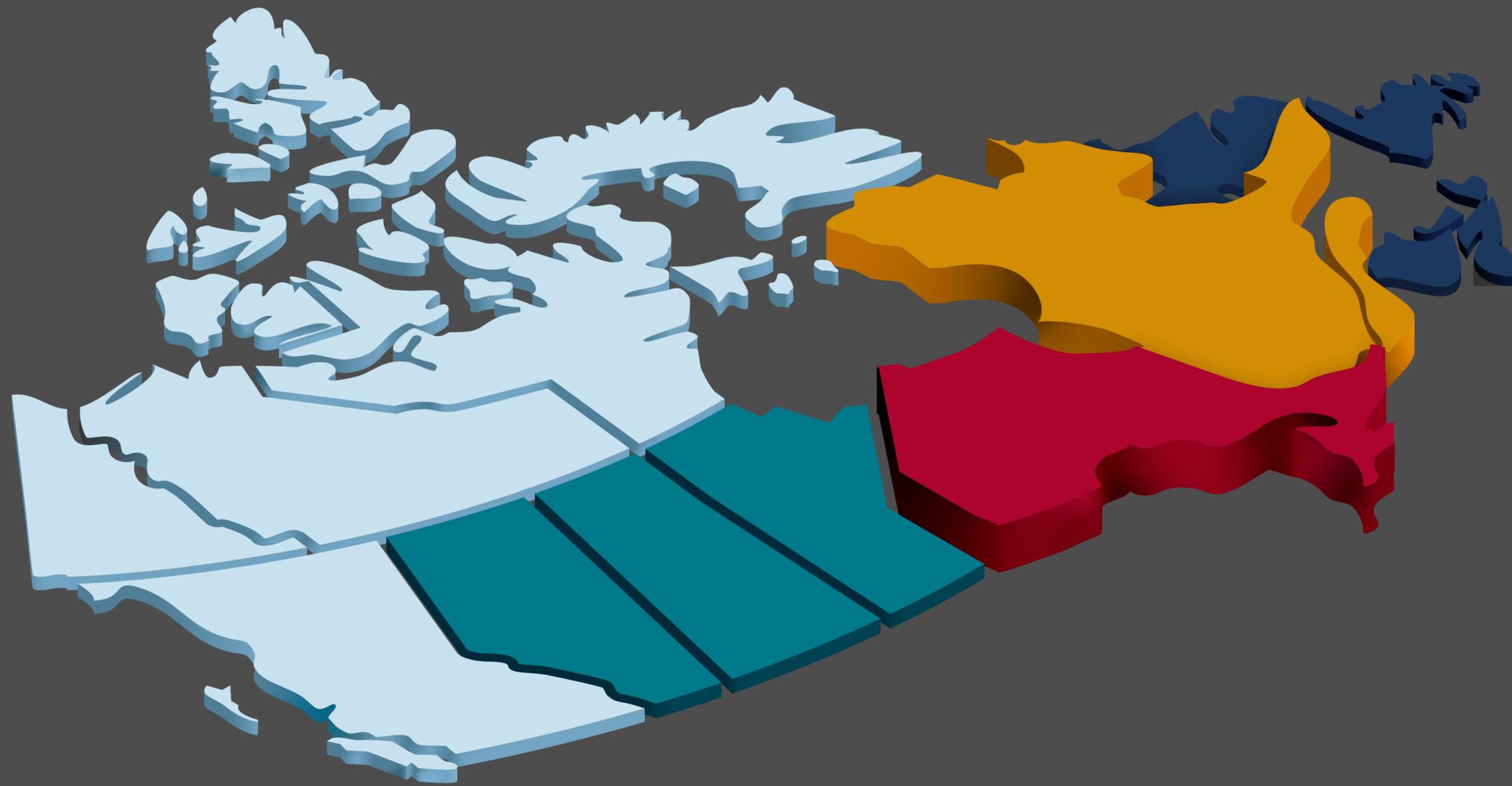


## Distribution of Space Organizations by Region

(excluding government)

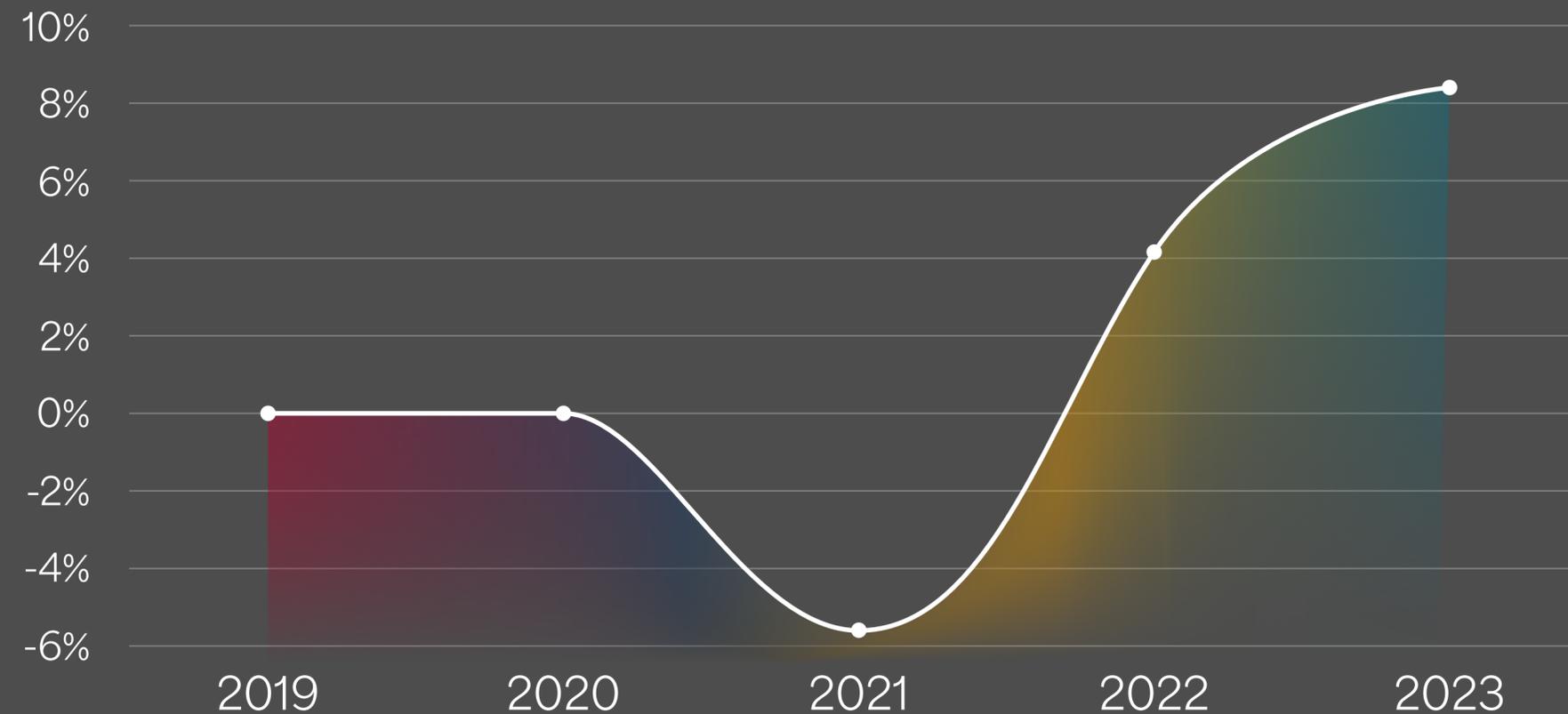


Note: The North (Yukon, Northwest Territories, and Nunavut) has been integrated with B.C. due to the small number of respondents. However, no regional information was received from the North this year.



The space sector contributed  
**\$3.4B** to Canada's GDP\*  
- increasing 8.4% since 2019

Indexed growth of space sector  
GDP impact 2019-2023 (adjusted for inflation)



\*This represents the unduplicated value of goods and services produced in Canada by the space sector (growth adjusted for inflation), and by other industries as a result of the Canadian space sector's supply chain purchases and of associated employees' consumer spending.

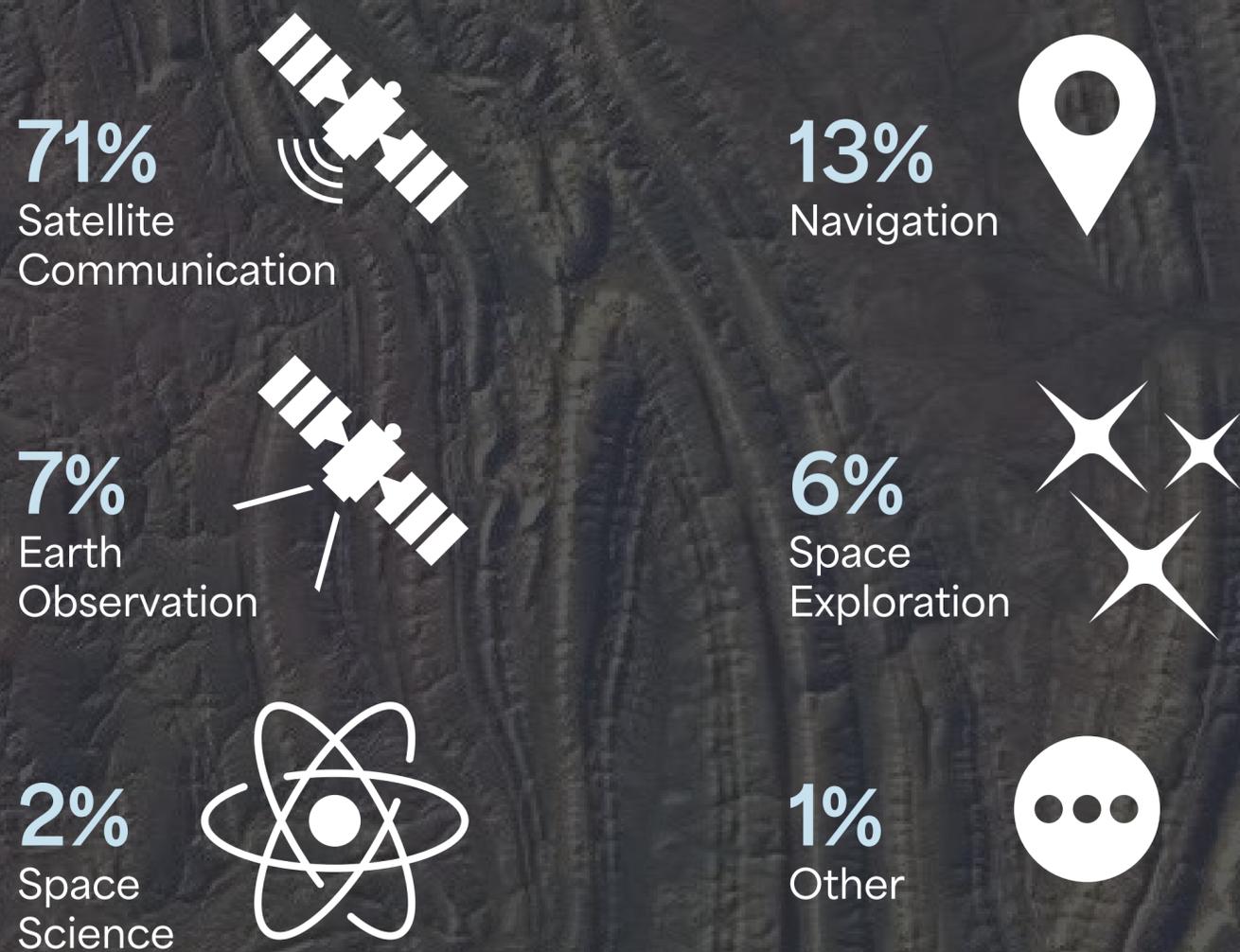
# CONTRIBUTION TO THE ECONOMY



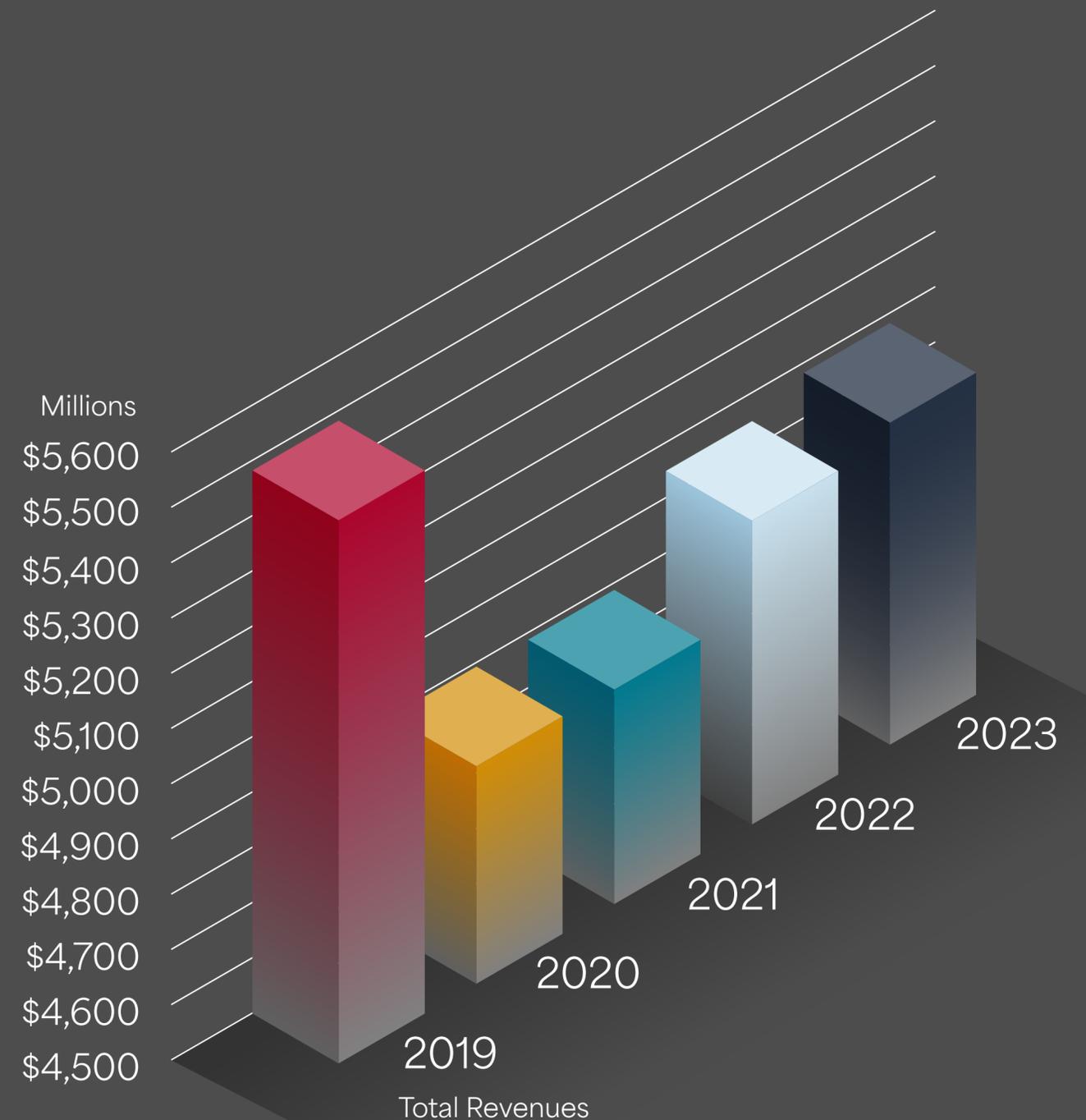
# REVENUES

Space sector revenues totalled  
**\$5.1B**

This includes:

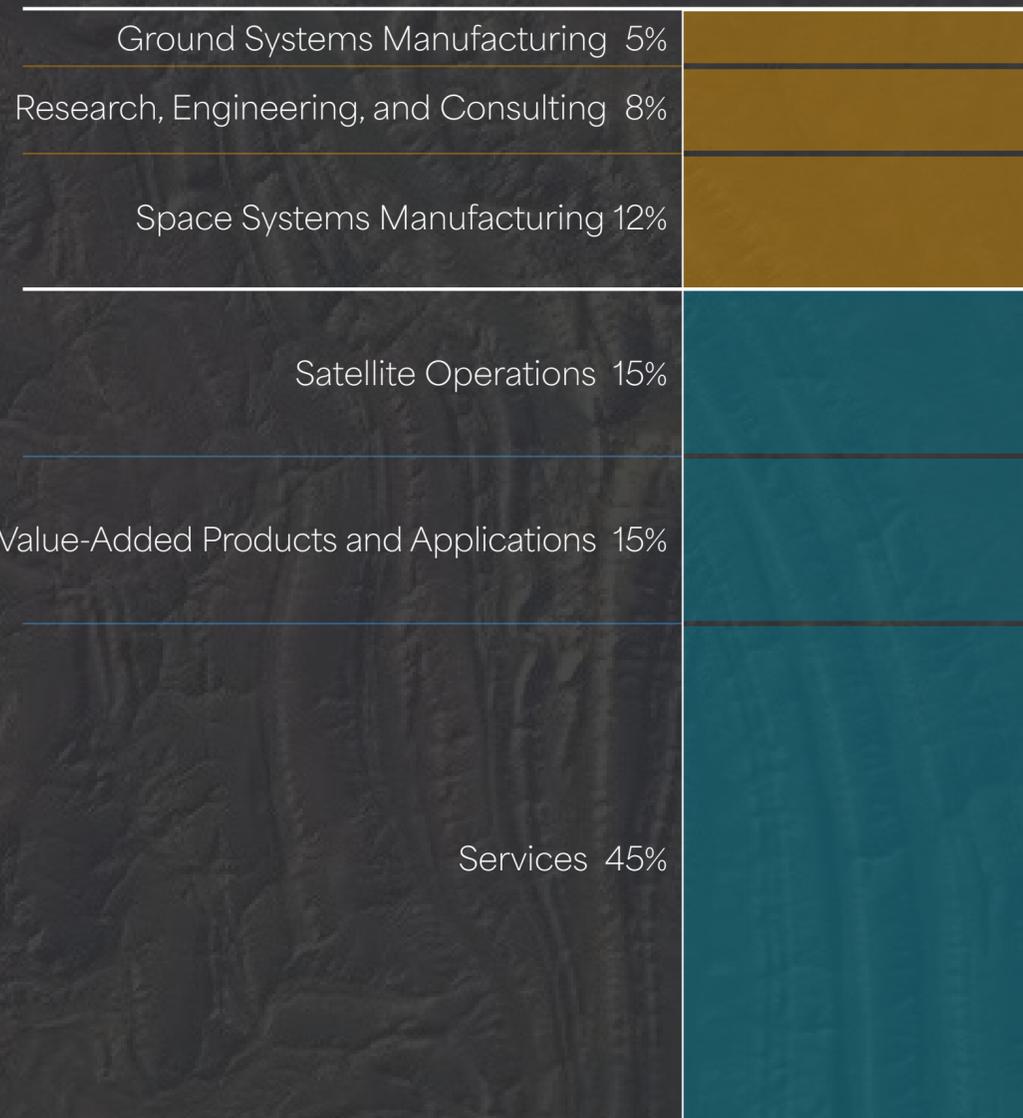


## Revenues 2019-2023 (current dollars)



# VALUE-CHAIN ACTIVITIES

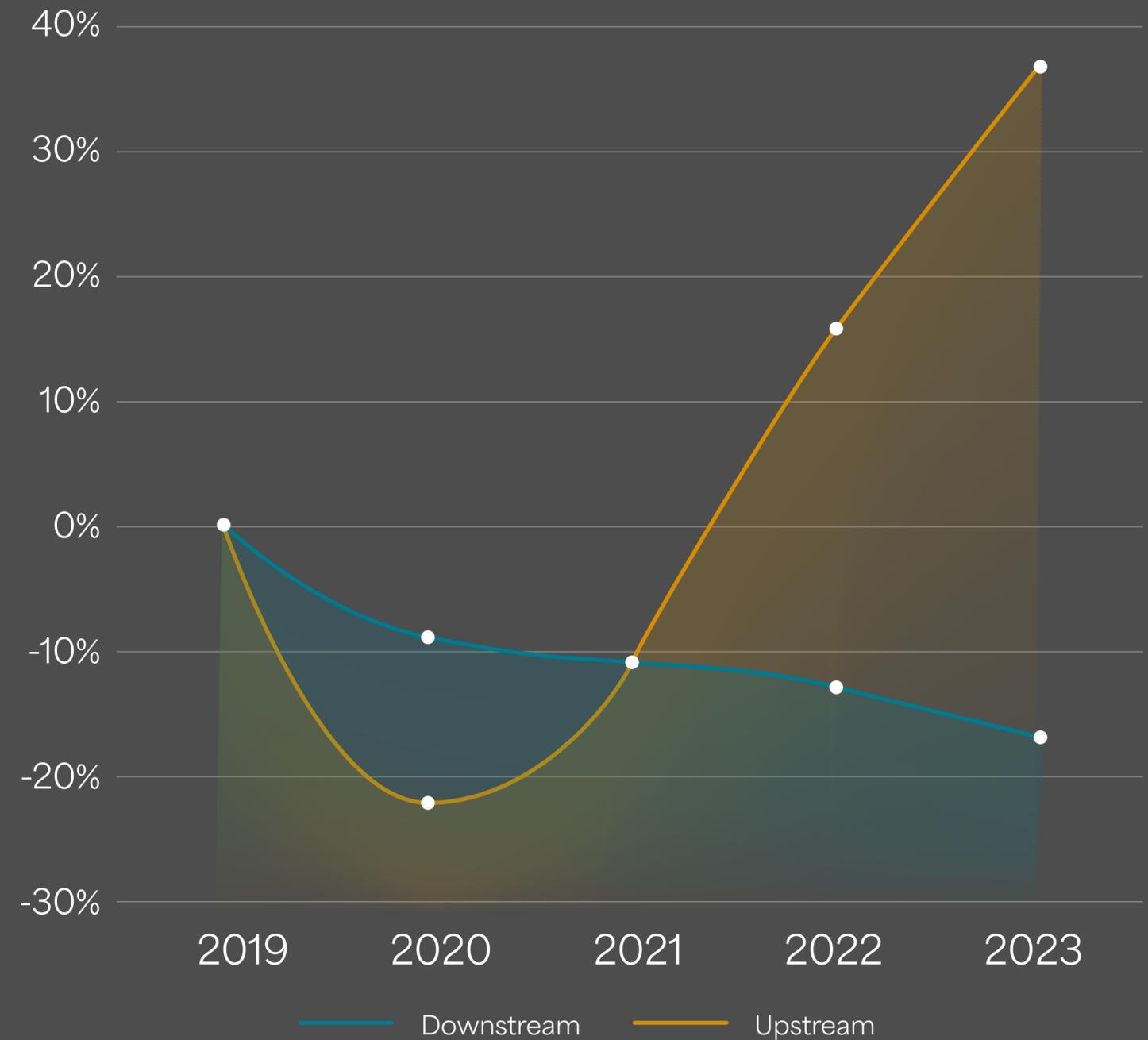
Of the total revenues:



**25%**  
were upstream  
activities

**75%**  
were downstream  
activities

## Indexed Growth of Upstream and Downstream Revenue from 2019 to 2023 (current dollars)



# DOMESTIC vs. EXPORT REVENUES

Of the total revenues:



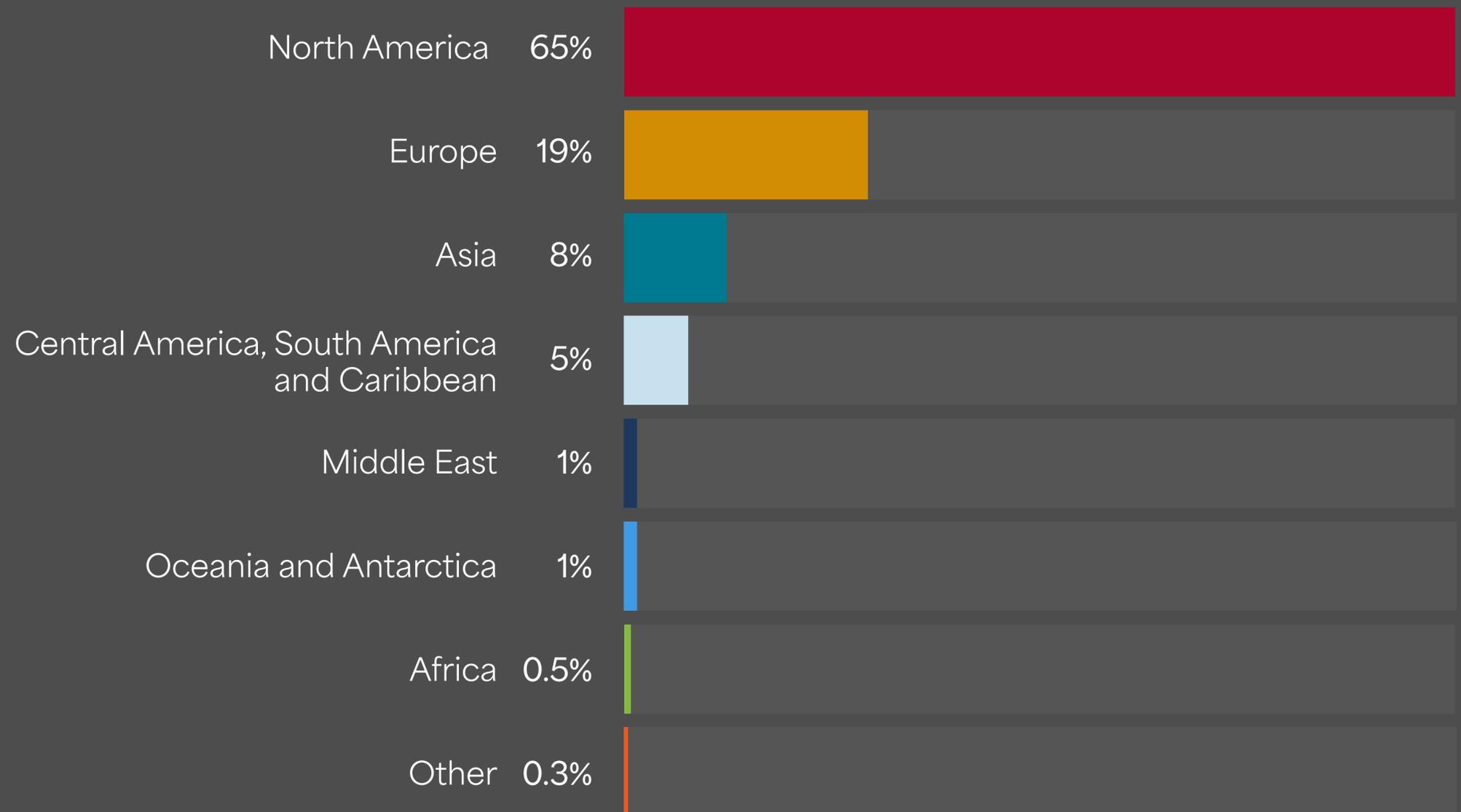
**57%**  
(\$2.9B) were  
from domestic  
sources



**43%**  
(\$2.2B)  
came from  
exports

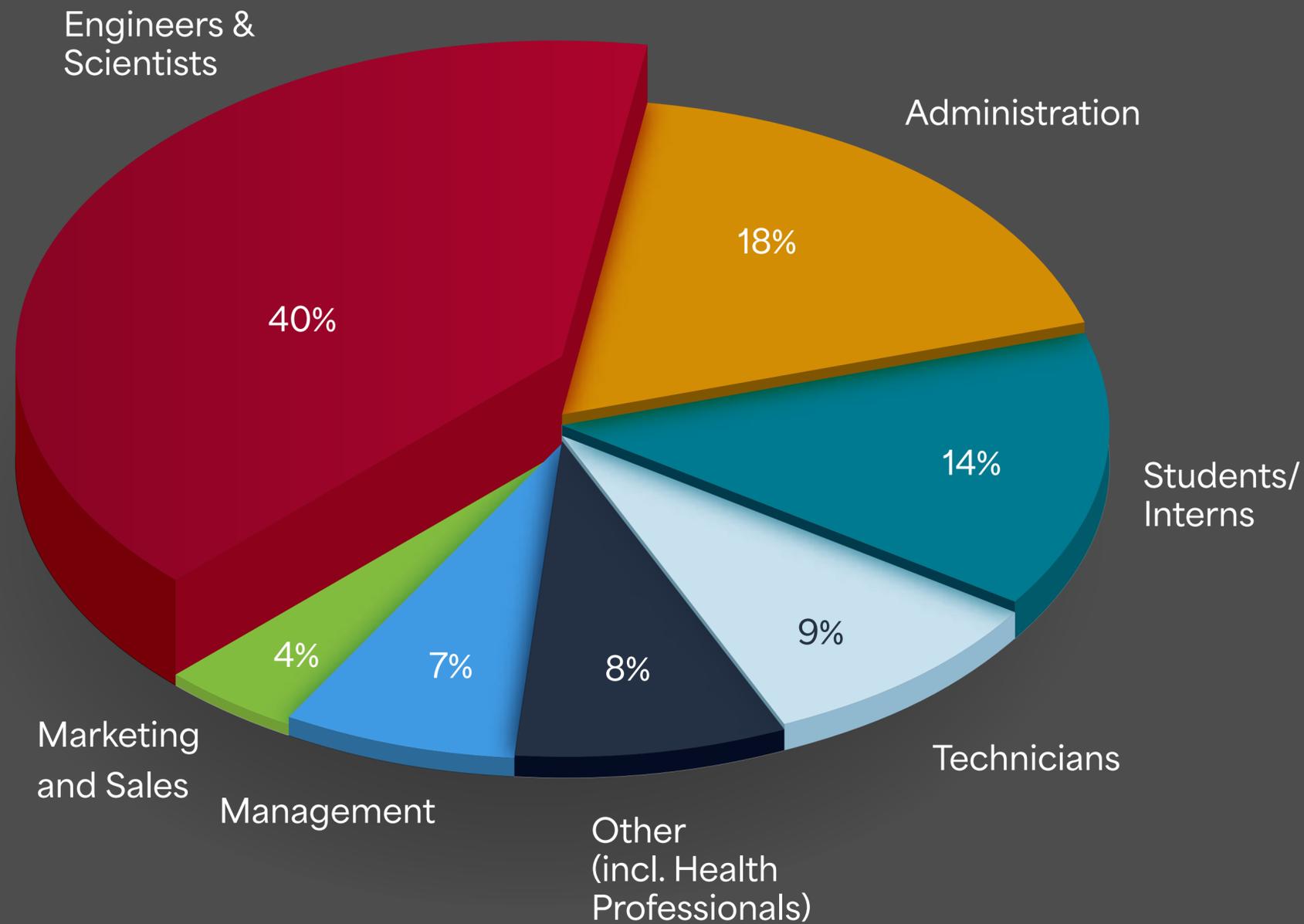
North America and Europe remain the most common export destinations.

## Export destinations in 2023



Note: Exports were reorganized by continental region this year, consistent with categorizations at Statistics Canada.

## Direct space sector occupations in 2023



# WORKFORCE

The space sector supported 26,480 jobs in Canada

Direct:  
**13,888** jobs

most of which are STEM (70%) and HQP (73%)

Indirect and Induced:  
**12,592** jobs

The space sector gender breakdown includes

**29%** ♀  
Women

**71%** ♂  
Men

**0.2%** \*  
Non-binary

STEM - Science, Technology, Engineering, and Mathematics  
HQP - Employees with at least a bachelor's degree



# RESEARCH AND DEVELOPMENT

Business expenditures for research and development\* reached **\$650M** – up 73% since 2019

\*Measures spending towards R&D activities in a company. The source of funds could include their own private investment or external funding sources.

The R&D intensity for space manufacturing was **12 times** higher than the average for manufacturing in Canada.



# INNOVATION

There were

**340 inventions**

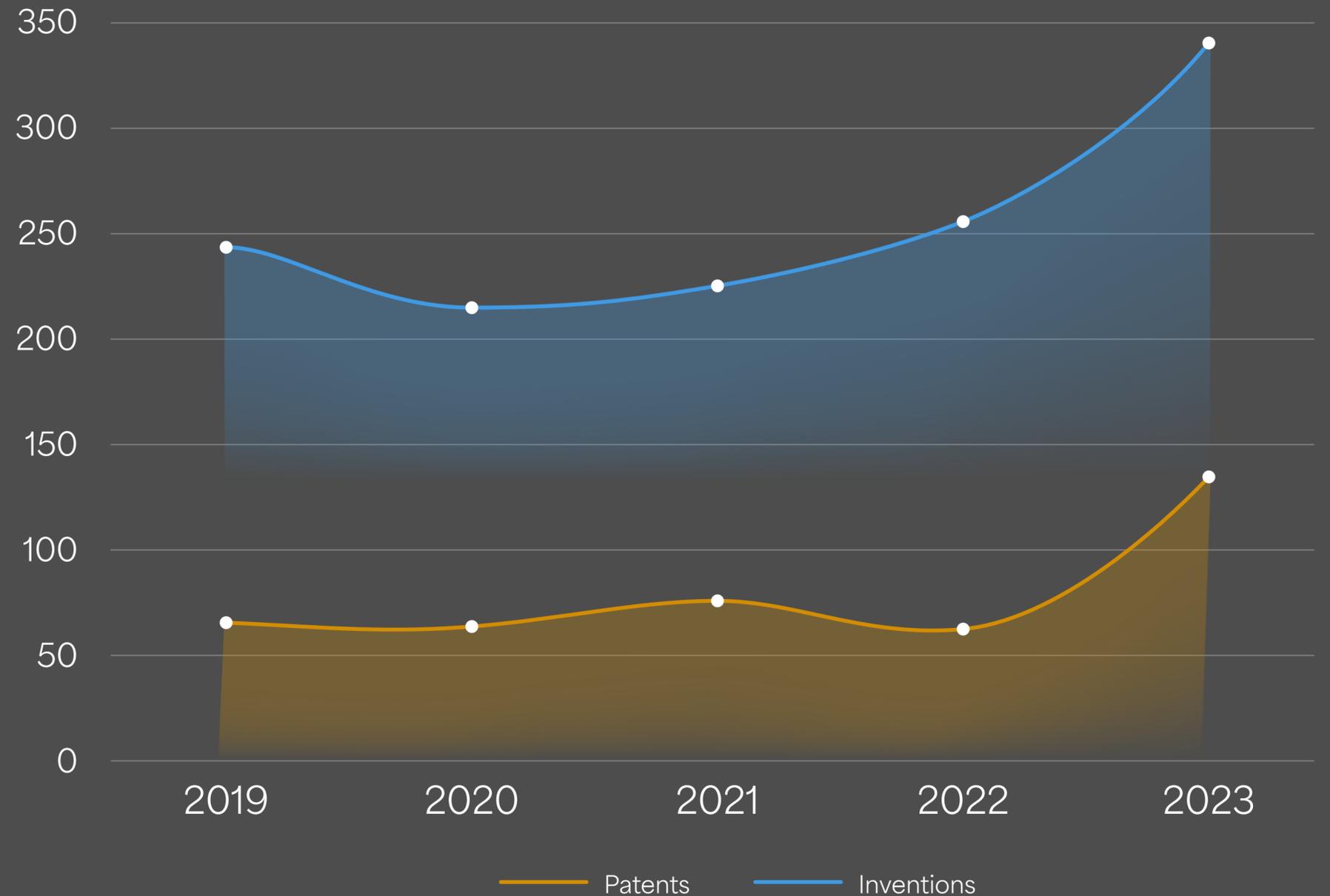
- up 40% since 2019

There were

**135 patents**

- up 105% since 2019

## Number of Inventions and Patents from 2019 to 2023



# SUMMARY

In 2023, Canada's space industry:

- ✦ Over 200 firms active across Canada generating **\$5.1B** in revenues.
- ✦ Contributed **\$3.4B** to Canada's GDP – increasing 8% since 2019.
- ✦ Included **13,888** direct jobs in the space sector – of which 70% were STEM and 40% were engineers and scientists.
- ✦ Had **\$2.2B** worth of exports, with North America and Europe as primary destinations.
- ✦ Continues to advance technology with strong increases in BERD investment – up **73%** since 2019.
- ✦ Outperformed the broader Canadian manufacturing sector in terms of R&D manufacturing intensity by **12** times – demonstrating the innovative nature of the sector.
- ✦ Made breakthroughs through inventions and patents, rising significantly since 2019 by 40% and 105%, respectively.

Ce document est aussi disponible en français sous le titre *Vue d'ensemble du secteur spatial canadien 2024*.

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