

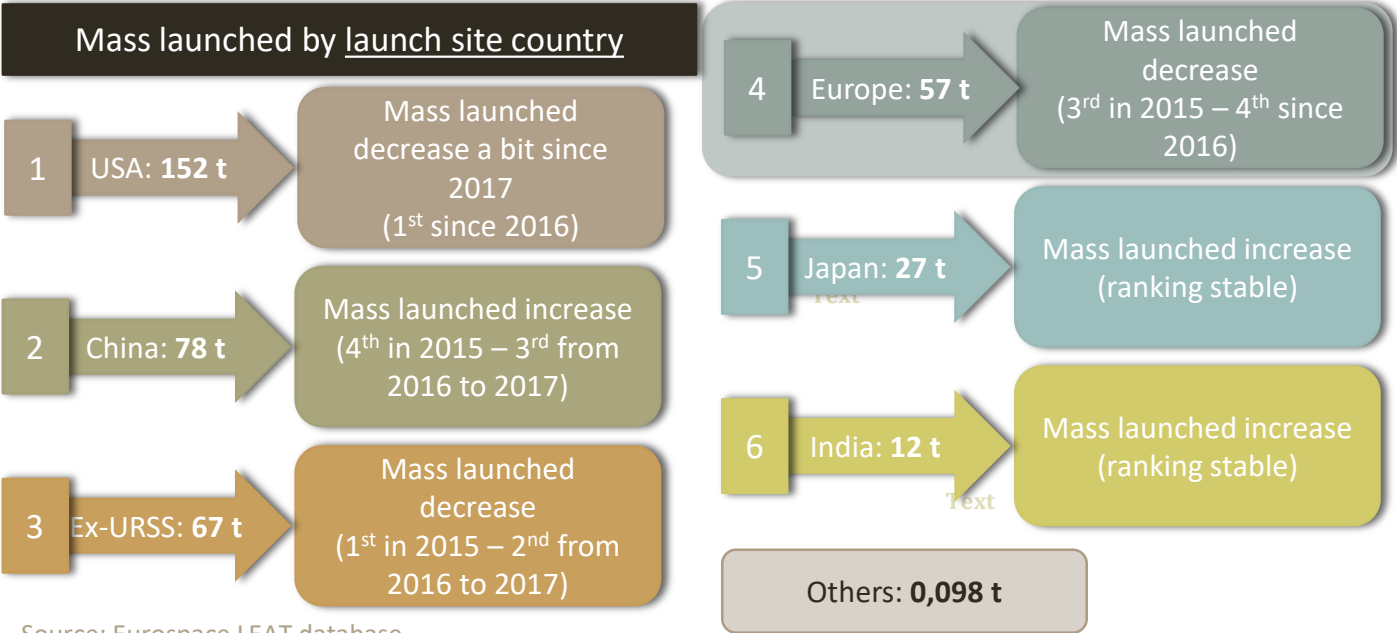
# Challenges and Trends for the Space Sector

Pierre Lionnet – Research Director

# PUTTING EUROPE IN THE GLOBAL (SPACE) CONTEXT

# Global Space Activities 2018

Total mass launched in 2018: **392,8 t**  
(in line with annual averages of the decade)

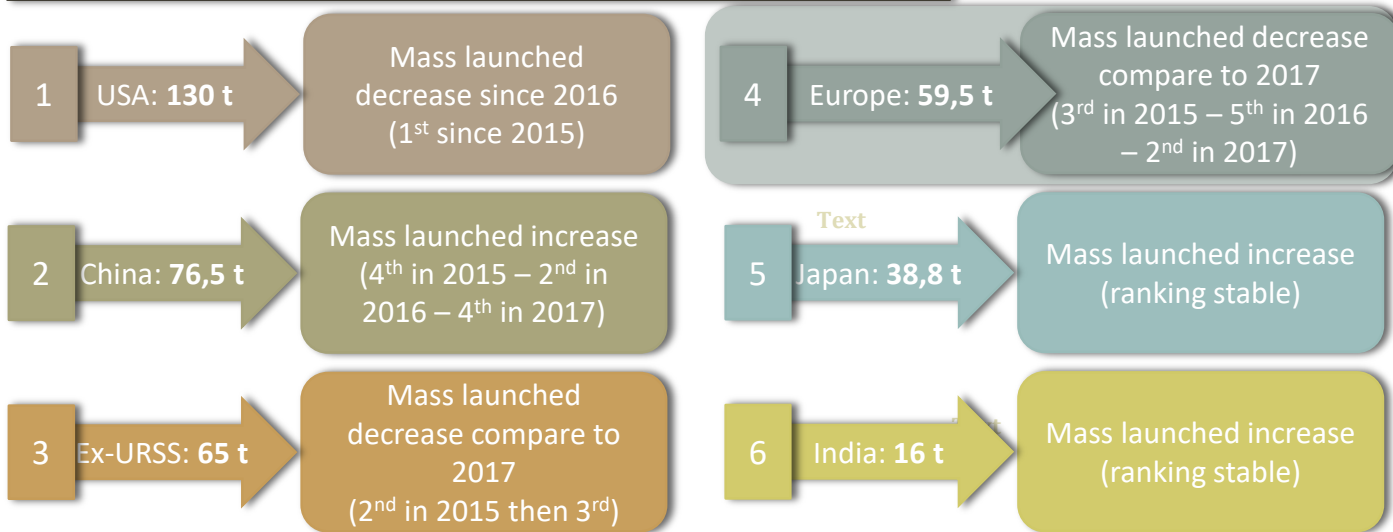


Source: Eurospace LEAT database

# Global Space Activities 2018

Total mass launched in 2018: **392,8 t**  
(in line with annual averages of the decade)

## Spacecraft mass launched by SC manufacturer country

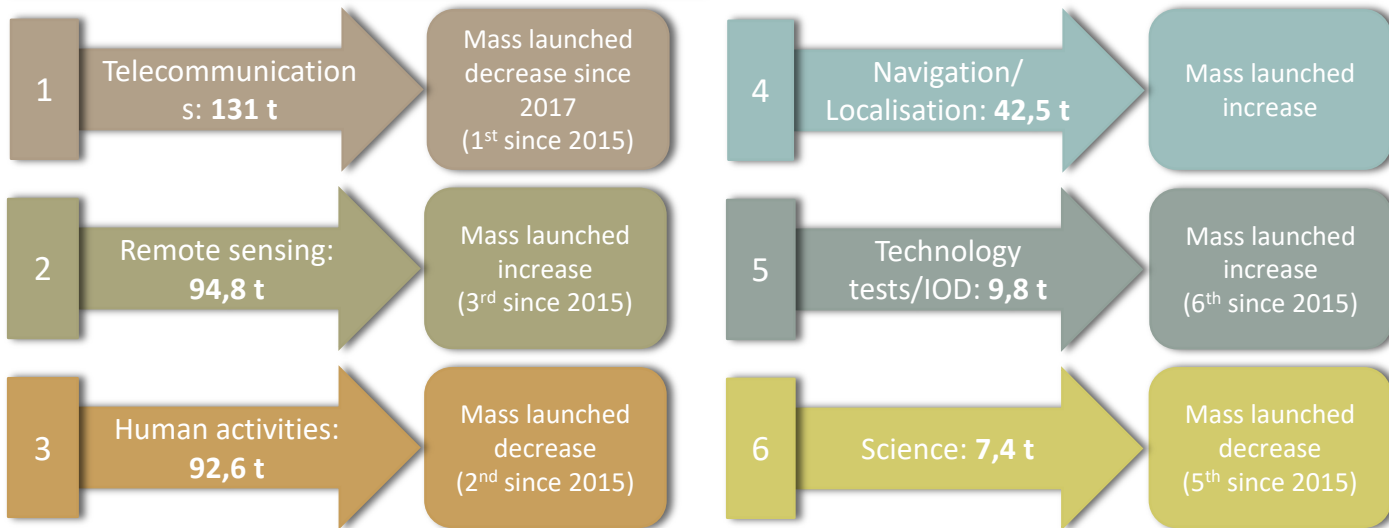


Source: Eurospace LEAT database

# Global Space Activities 2018

Total mass launched in 2018: **392,8 t**  
(in line with annual averages of the decade)

## Spacecraft mass launched by mission



Source: Eurospace LEAT database

# CHALLENGES AND COMPETITIVENESS DRIVERS

# Key trends affecting the sector



# THE EUROPEAN SPACE INDUSTRY IN 2018

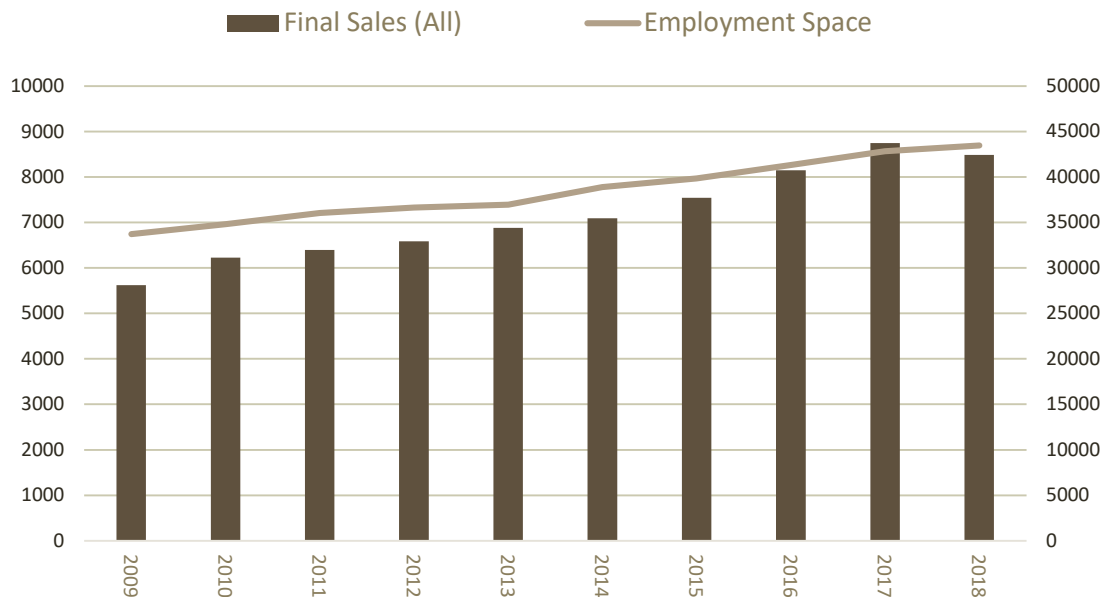


# European space industry sales & employment

**European Space Industry Sales (Current M€ - Left) & Employment (FTE- Right)**

Direct industry  
employment in 2018:  
**43 450 FTE**

Final sales worth in  
2018: **8 480 M€**

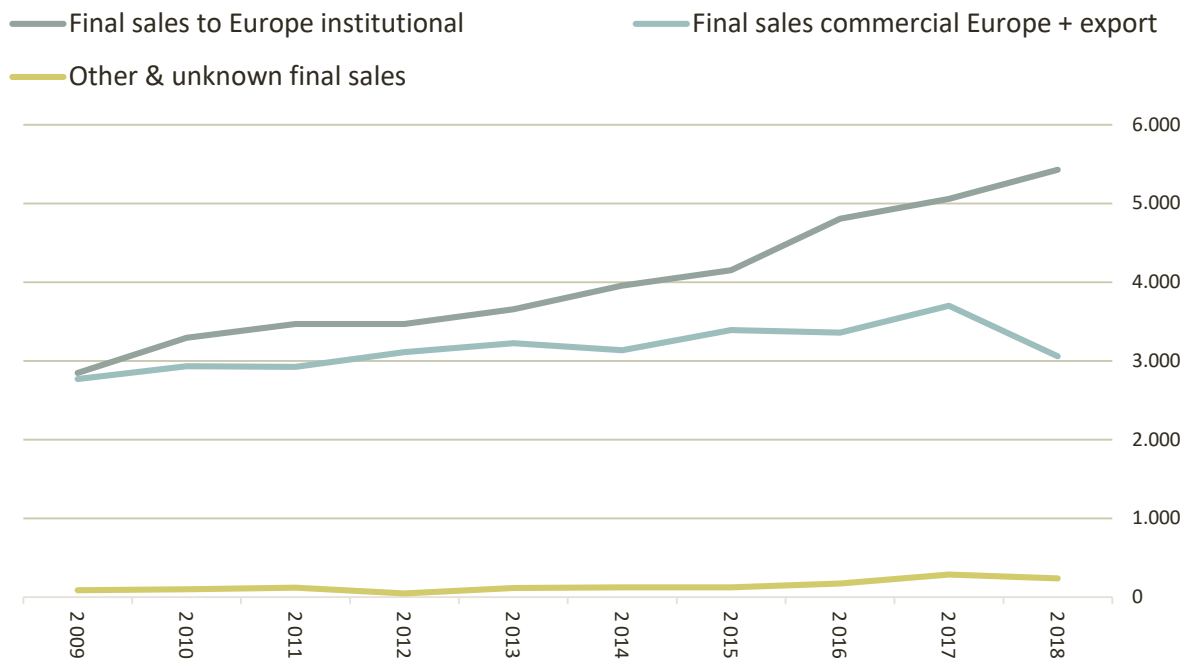


# European space industry sales by main customer segment

**European Space Industry Sales by Main Customer Segment  
(Current M€)**

Final sales to Europe institutional in 2018: **5.4 B€**

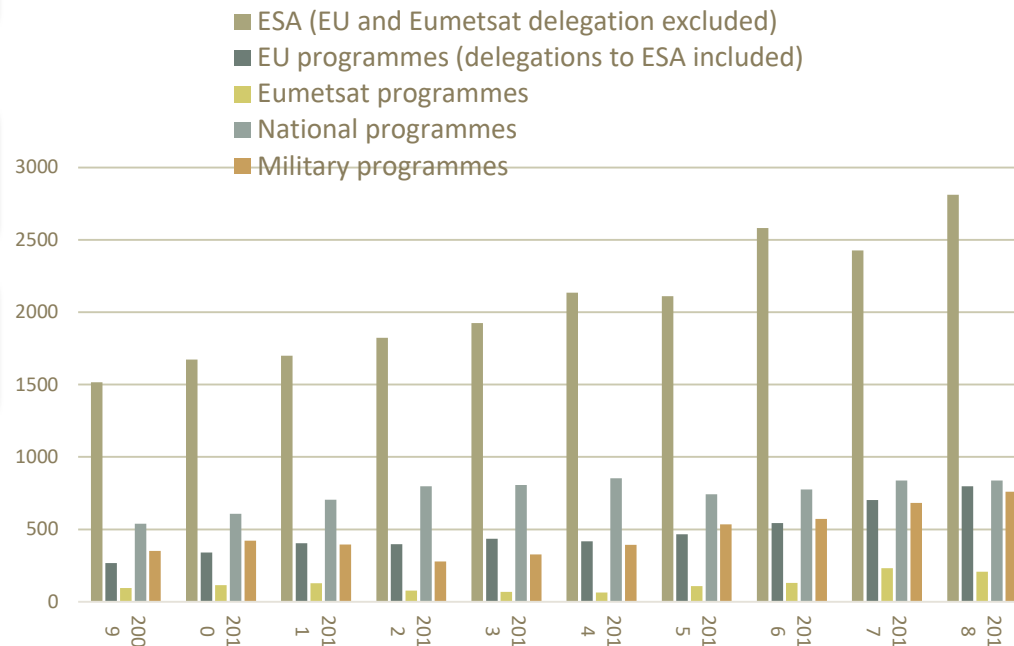
Final sales commercial Europe + export in 2018: **3 B€**



# European space industry sales: Institutional Programmes



**European Space Industry Sales (Current M€) - Institutional Programmes**



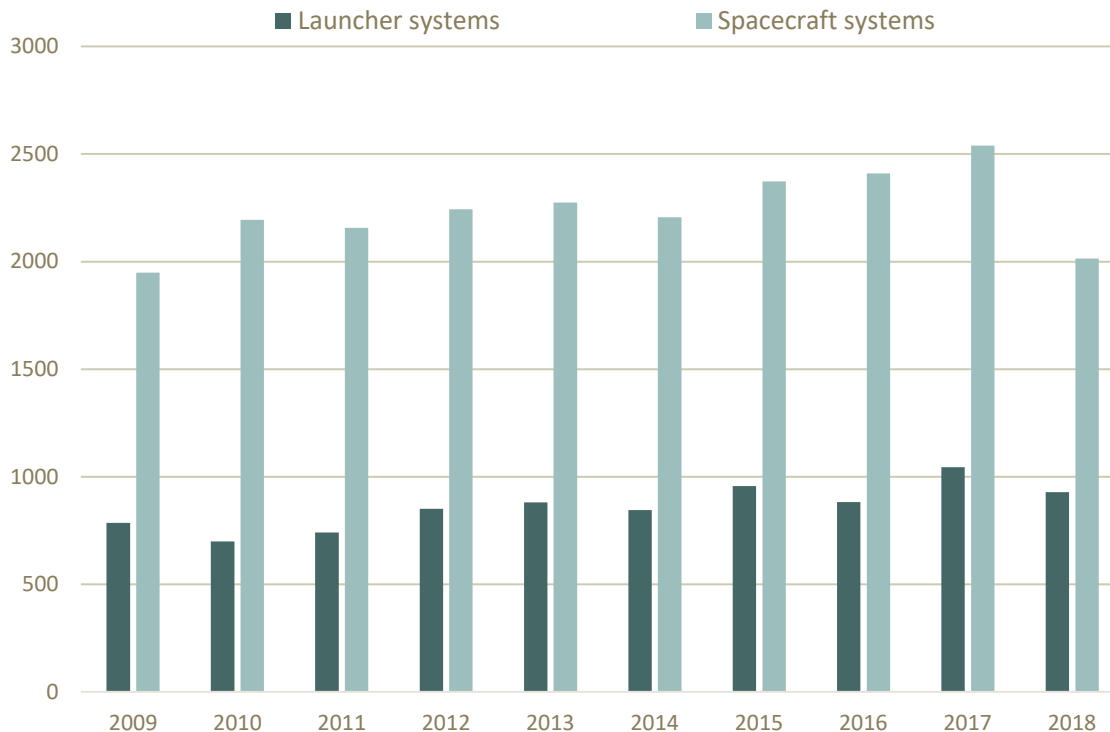
# European space industry sales: Commercial systems

Commercial systems: Europe + export (Current M€)

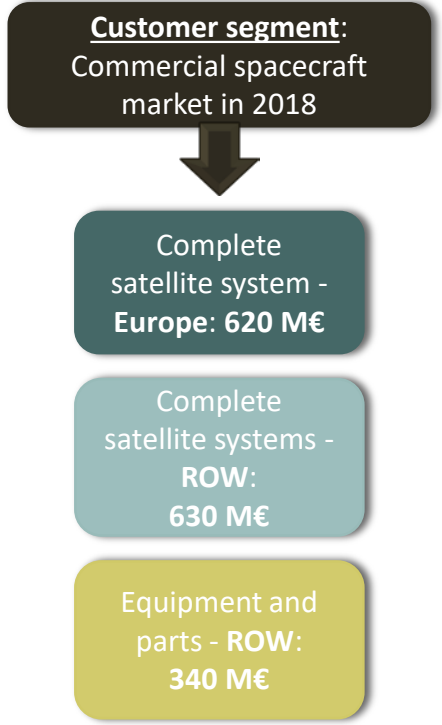
Final sales commercial Europe + export in 2018: **3 060 M€**

Launcher systems: **930 M€**

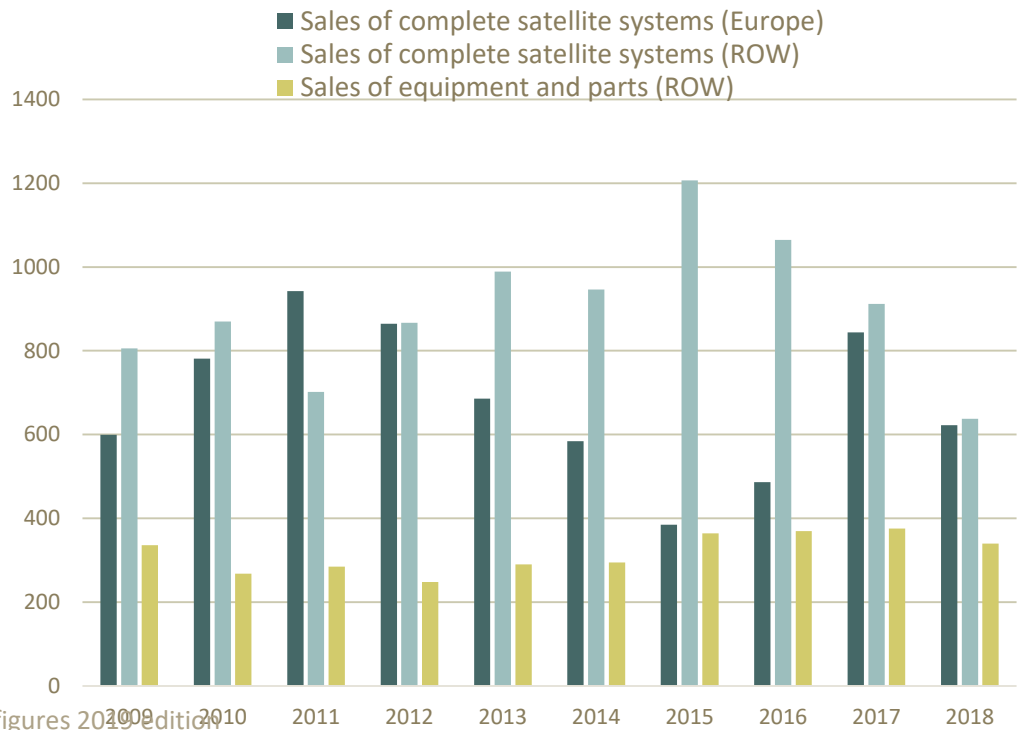
Spacecraft systems: **2 100 M€**



# European space industry sales: Commercial spacecraft market by customer segment



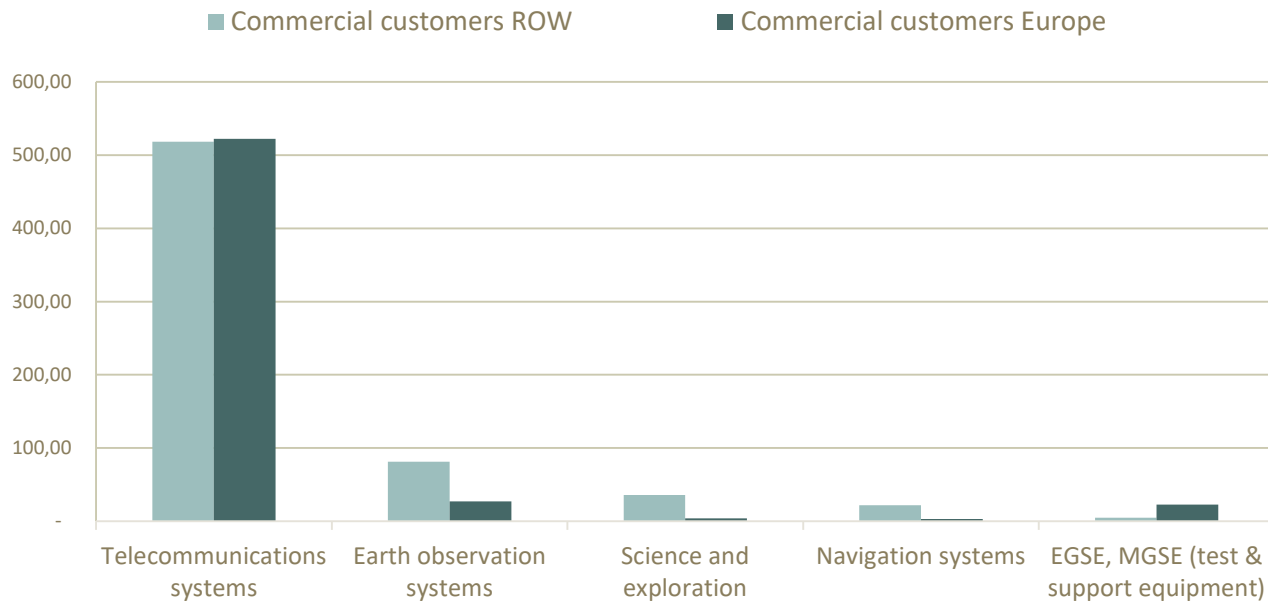
**European Space Industry Sales – Commercial Spacecraft Market by Customer Segment (Current M€)**



Source: Eurospace facts & figures 2019 Edition

# European space industry sales: Commercial spacecraft market by product segment

**European Space Industry Sales – Commercial Spacecraft Market by Product Segment (Current M€)**



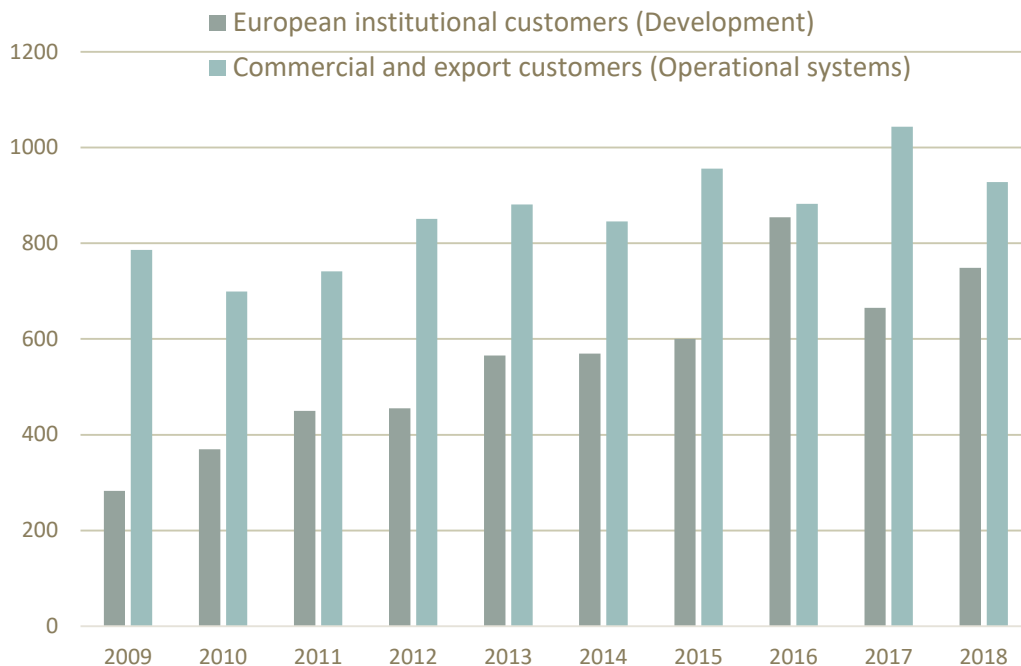
# Launcher system sales by customer segment

**Customer segment:**  
Launcher system sales in 2018

European institutional:  
750 M€

Commercial and export :  
930 M€

**Launcher System Sales by Customer Segment (Current M€)**



Source: Eurospace facts & figures 2019 edition

## Mass launched by Vega and Ariane 5 by customer segment

**Mass launched by Vega and Ariane 5 (in kg)**

