OCTOBER 22, 2024

Avio presentation Satellite Innovation 2024

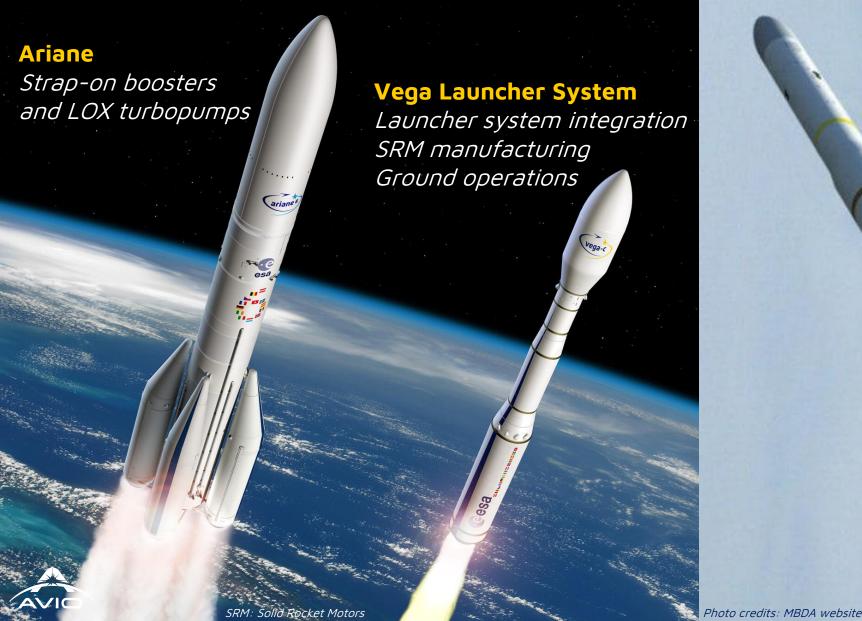


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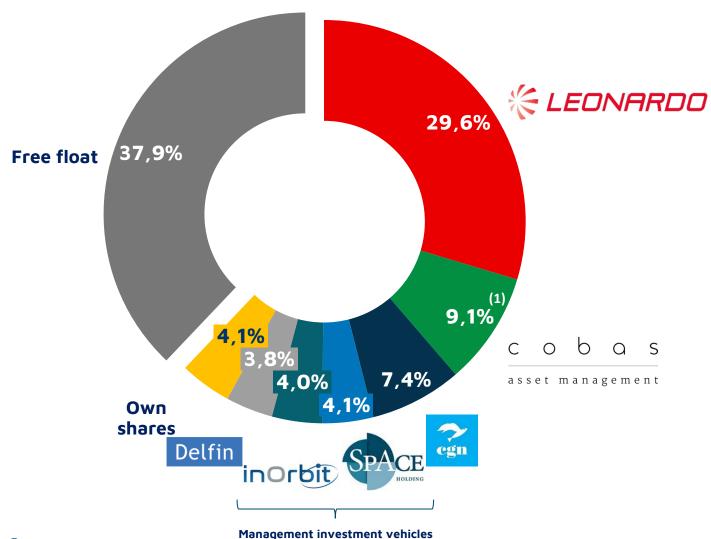


Avio: propulsion for Space and Defense





A public company managed by a team of investors

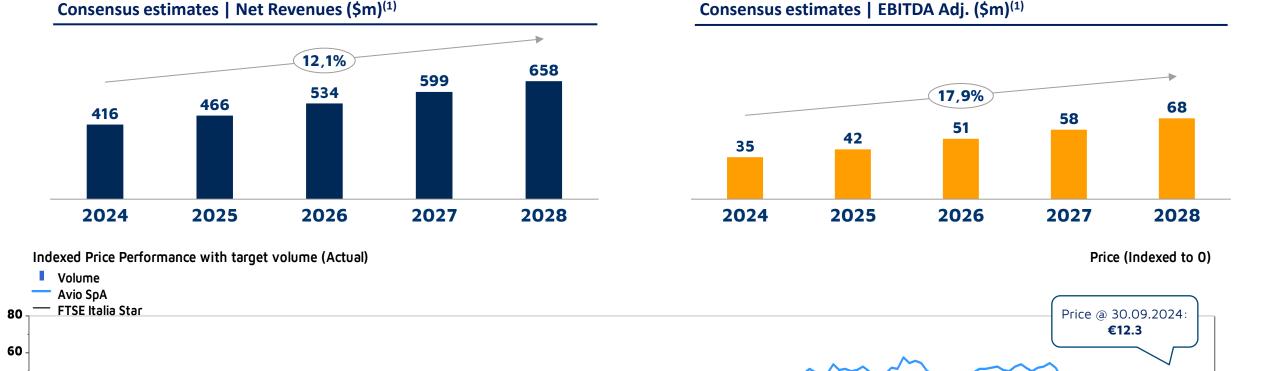


- Public Company listed on Euronext STAR Milan
- Approx. ~\$350m marketcapitalization
- ~8% Management share
- ~40% Free Float
- No Controlling Shareholder
- Key 2024E figures (2):
 - Employees: ~1,300
 - Order backlog: \$1.7bn
 - > Revenues: \$414m
 - ➤ EBITDA Adj.: \$33m
 - Positive cash position



(1) Through different funds Data as of September 2024 (2) Mid-point of 2024 guidance €/\$ FX: 1.09

Consensus estimates 2024 - 2028 and share price performance



May 06 May 20

Jun 03

Jun 17

Jul 01

Jul 15

Jul 29 Aug 12 Aug 26 Sep 09 Sep 23



500.000



Jan 29

Feb 12

Feb 26

Mar 11

40

20

Mar 25

Apr 08

Apr 22

Avio's 60 years track record in space and defense

~250 Ariane launches 24 Vega Launches

Ariane 1-3 **Separation motors**



Ariane 4 210 tons boosters



Ariane 5 240 tons boosters



Vega Launch system



Ariane 6 280/560 tons boosters



≈150k Defense SRM produced in 60 years

Zero failures during operations throughout Avio's entire history



MLRS MILAN 100,000+ SRMs 23,000+ SRMs







ASTER 30 2,200+ Boosters



MARTE 300 SRMs



CAMM-ER Series Production in 2024





Vega C improved





1980's

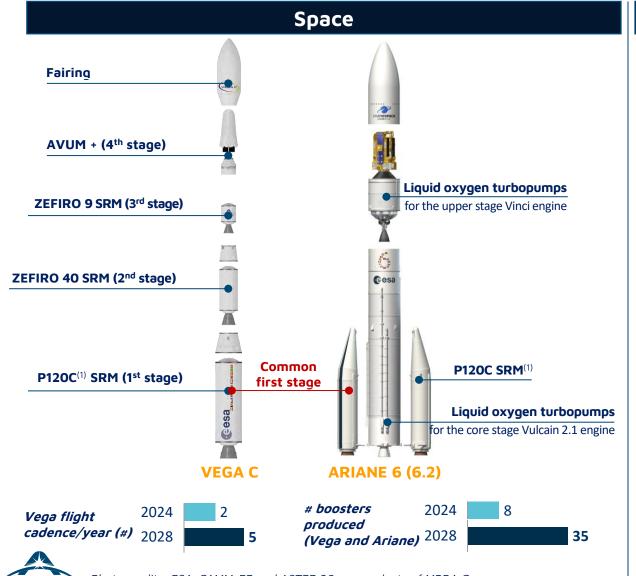
1990's

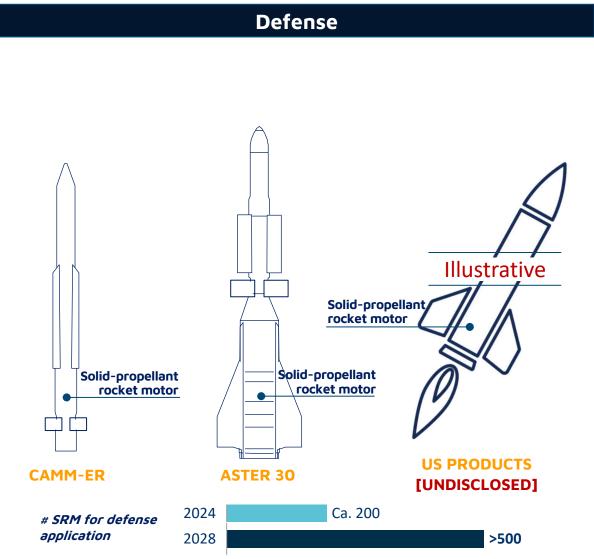
2000's

2010's

2024

Overview of Avio main products





Current industrial footprint







Europropulsion





Solid propulsion stage integration



Avio S.p.A. - Colleferro, Rome

The company's headquarters and production plants of solid and liquid propellant motors for LVs

Vega Launcher







Regulus

Kourou, French Guiana (60% Avio and 40% AG)



arianeGroup

Launch Complex















SPTF Test Facilities for Liquid Engines











A great track record with the Vega program – a solid propulsion powered launcher



Vega program main achievements

120+
Satellites deployed mission

22

launches

18 tons mass launched Success rate

1st EU launch& Re-entry vehicle



Now ready on the pad with Vega C, next launch in December



P120C arrives at the launch pad





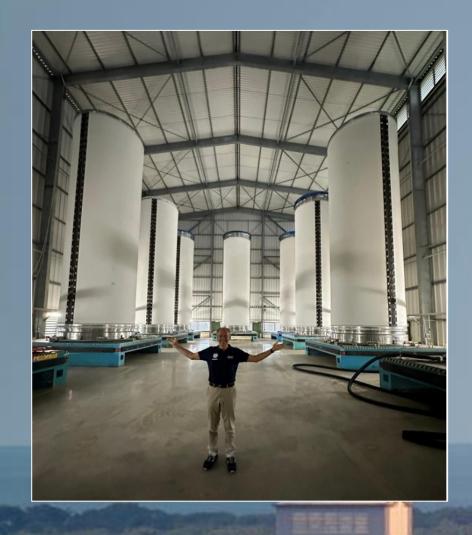
Hoisting Zefiro-40 stage



Connecting Zefiro-40 stage



And also ready to support Ariane 6 to ramp-up flight rate





What we are ready to do in defense

MBDA



MBDA



MBDA has finalised an agreement with Polska Grupa Zbrojeniowa S.A. (PGZ) for MBDA's support for PGZ's delivery of the NAREW air defence programme for the Polish Armed Forces. The agreement enables the PGZ-NAREW Consortium to make more than 1,000 CAMM-ER air defence missiles and over 100 launchers for the NAREW programme in Poland (contract valued in excess of £ 4 billion).

Raytheon



Avio signed a contract with Raytheon, an RTX (NYSE: RTX) business, leaders in defense solutions for the U.S. Government and Allied Demand, to initiate and progress the development of critical solid rocket motors for defense applications. The contract furthers the systems engineering work required to mature these solid rocket motors into a production-ready state

More info here

US Army



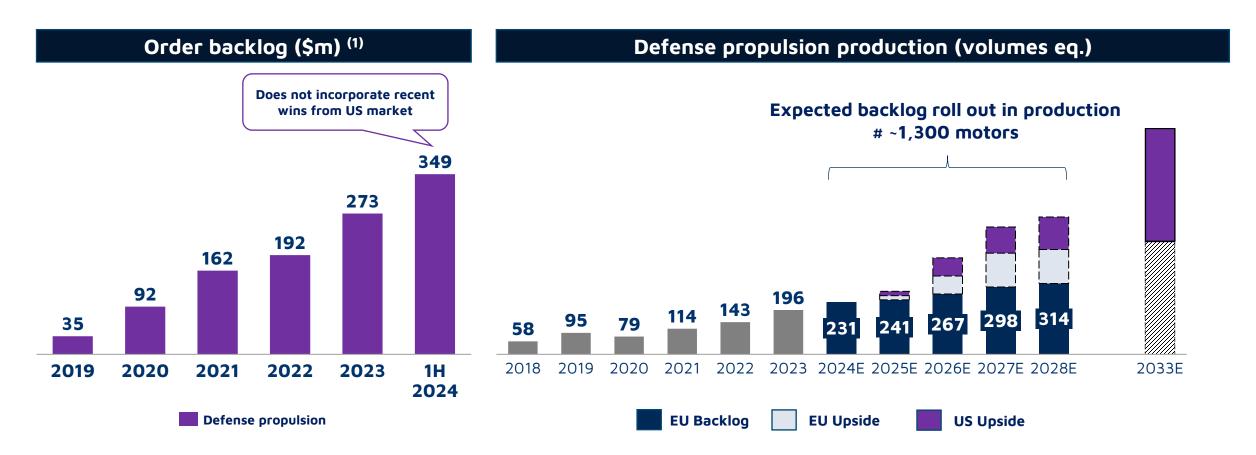
AVIO S.p.A. and U.S. Army Combat Capabilities Development Command Aviation & Missile Center partner for the development and fast-prototyping of a solid rocket motor for surface-to-air applications. The project leverages on both Parties' expertise to qualify the propulsion system in a design-to-manufacturing approach, offering possibility for a future rapid transition to Production

More info here

Avio will supply CAMM-ER solid rocket motors for MBDA

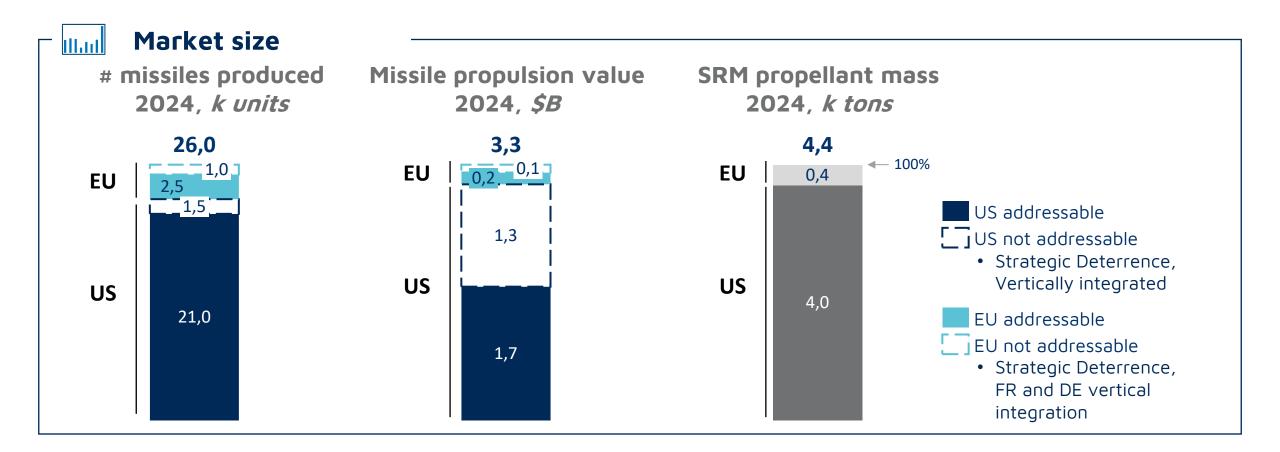


Rapid growth of defense backlog anticipates volumes surge in the next decade





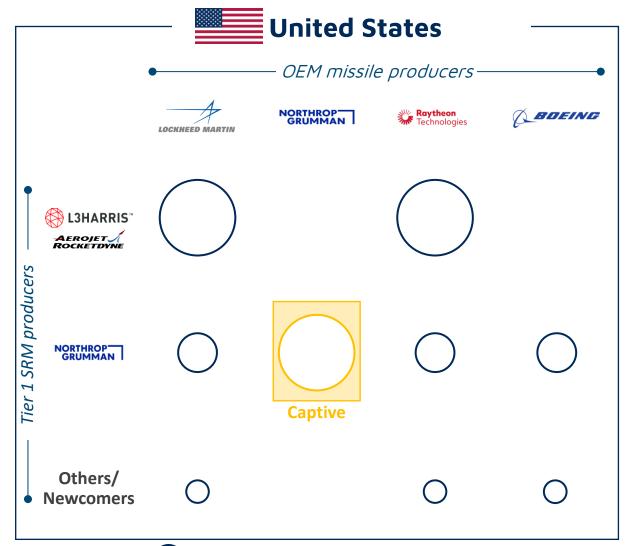
The US missile propulsion opportunity is ≈10x EU

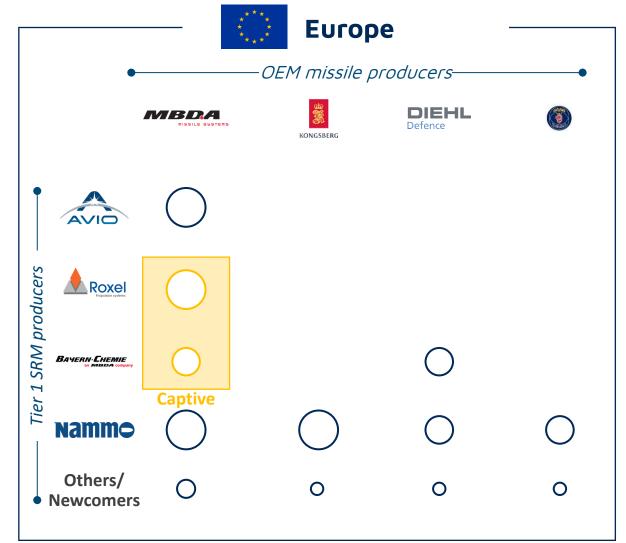




There are only few merchant suppliers of SRMs









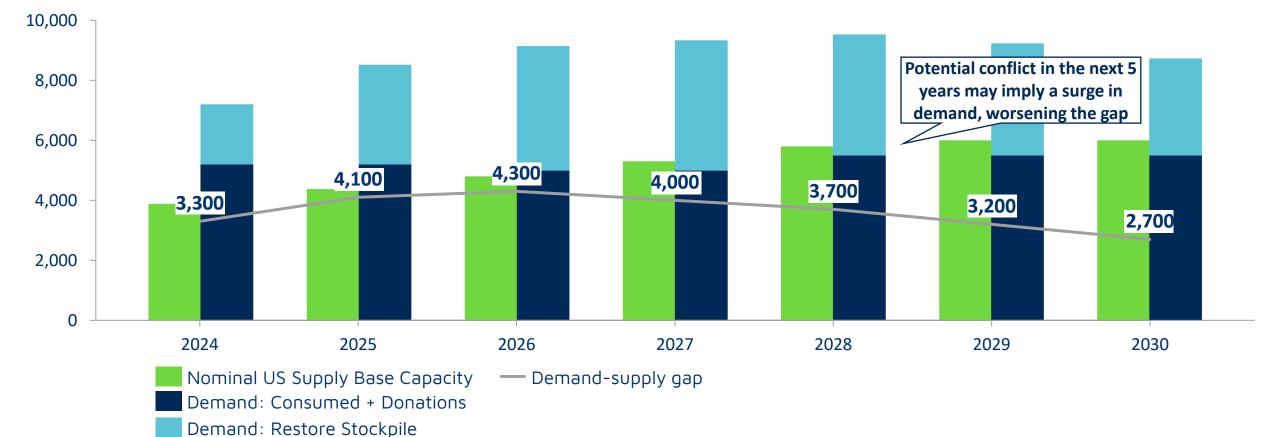
SRM propellant mass - *illustrative*, not in scale

The US supply / demand gap is substantial

US missiles SRM propellant demand and production 2024-2030, tons

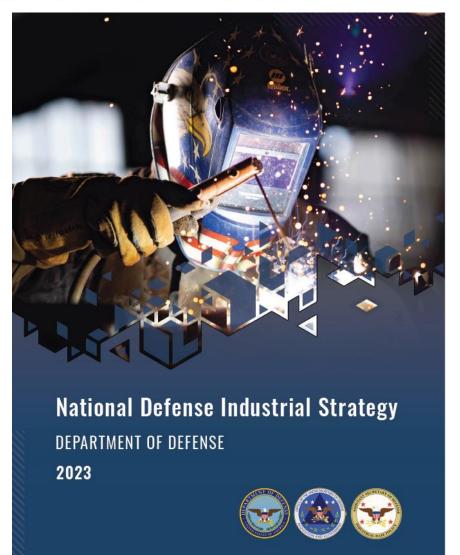
Estimate

-> > 25k tons cumulated gap demand vs supply of US missiles SRM propellant 2024-2030





US DoD fosters collaboration with affiliated countries to overcome current US industrial base shortfalls



"Inadequate Domestic Production: Uncertain DoD funding, [...], and disincentives to modernize manufacturing processes or maintain excess capacity has resulted in DoD's overreliance on single or adversarial foreign sources for key materials and production capacity."

"The DoD seeks to catalyze generational rather than incremental change in order for our industrial base to meet the strategic moment.

We must solicit entrants of all types: large and small, domestic, and foreign, and those with no previous relationship to the DoD or defense production."

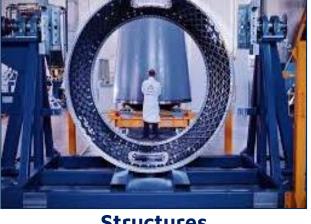
"Actions to achieve resilient supply chains:

- Incentivize industry to improve resilience by investing in extra capacity
- · [...]
- Diversify supplier base and invest in new production
- Engage allies and partners to expand global defense production and increase supply chain resilience"



Avio fields unparalleled capabilities in SRM product design, manufacturing and testing ...









Booster cases

Structures

Thermal protection

Nozzle manufacturing









SRM testing

SRM casting

Composite materials

Automation



... as well as in plant design, manufacturing and maintenance

New plant, built in 2018

≈25 acres of buildings

Dedicated machines manufactured upon Avio design















1800G mixer



Multi-purpose Skidder



Nozzle integration robot





Avio USA to play a pivotal role in engaging the US market

 Avio established Avio USA, a wholly owned subsidiary headquartered in Arlington, Virginia, which is structured to operate in compliance with US security and export-control regulations and is governed by a US-led board of directors





Marty Bollinger - Chairman of Avio USA

- Ret. Senior Partner at Booz Allen Hamilton
- Extensive consulting experience in US Aerospace & Defense
- Lecturer for Navy Officers



James Syring - CEO of Avio USA

- Ret. US Navy Vice Admiral
- Former Director of the US Missile Defense Agency
- Former President, USAA Insurance Company





Appendix



The launch segment: the gateway to the Space economy worth almost 400 \$ Bn

Global space value chain











Launch (1,2) \$ 7.0bn

Satellites (MFT) \$ 15.8bn

Ground⁽³⁾ \$ 145bn Services^(2,4) \$ 113bn

End users

Government \$ 103bn



SPACEX





ROCKETLAB





























• eutelsat

















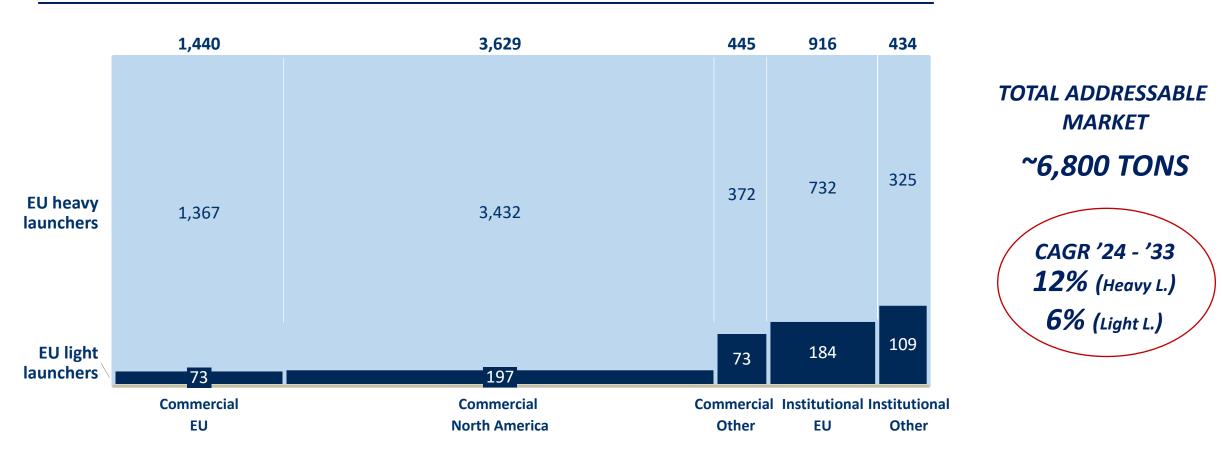






EU launchers addressable markets are large and growing

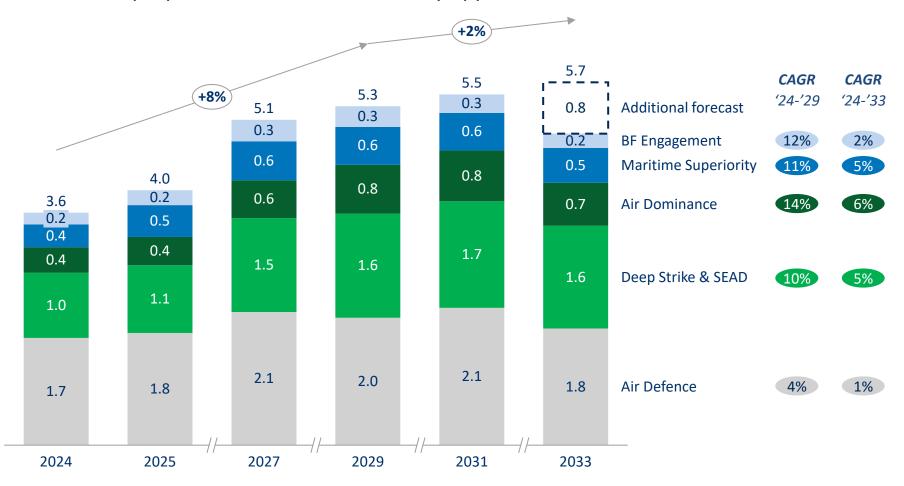
Cumulated 2024-2033 EU launchers addressable market mass (tons)





Global missile propulsion market targeting 5% growth from \$3.6B in '24 to \$5.7B in '33: Air Defence largest, Air Dominance fastest growth

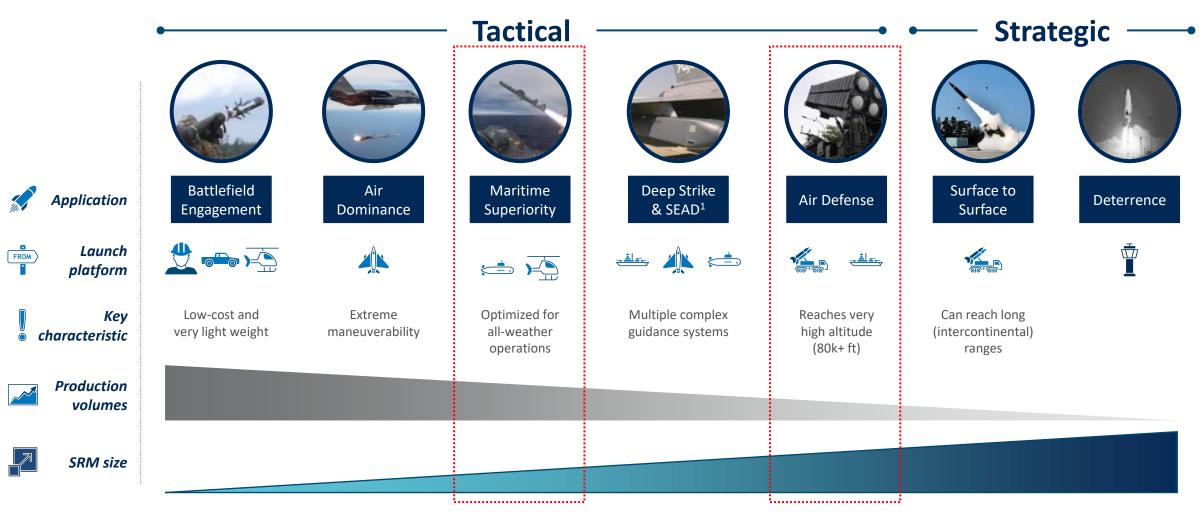
Global missile propulsion¹ market evolution by application, \$B



- Air Defence is the main segment, accounting for ~40% of the total propulsion market, followed by Deep Strike (30%) and Air Dominance (13%)
- Air Dominance expected to have the fastest growth in the decade, Air Defence below market growth
- Year-over-year market view may be misleading due to potential misinterpretation/ lack of information on multiyear (multi-billion) defence programs – more meaningful to consider the cumulative spend 2024-2033



Missiles can be split between tactical and strategic, with different applications, each with specific mission profiles



















Global customers base for space launches

NOT EXHAUSTIVE







VEGA new facilities at CSG for cadence improvement



A robust roadmap for future space launch and services

Applications and services



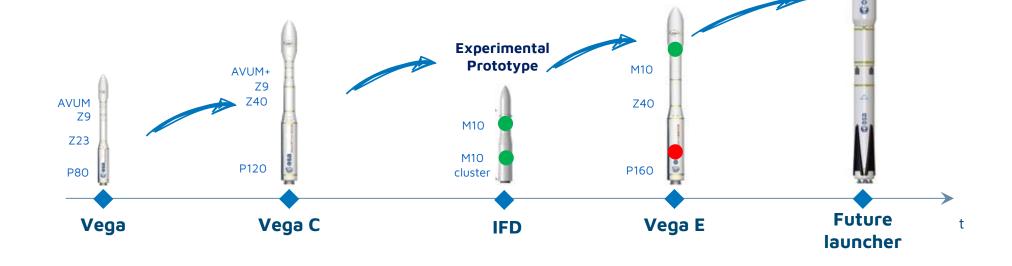




Launcher Products









NextGen EU: next-gen launchers and applications progressing as expected



Launcher Products acceleration LOX-CH technology





Applications and services acceleration Orbital propulsion technology



Space Transportation Systems

Objective: Accelerate development and know-how with 2 small Flight Demonstrators (design, manufacturing & launch)

Start of HWIL activities in apr-24

M10 firing test planned in October '24





M10: manufacturing on going, TCA and Nozzle Printed in house

High Trust Engine

Objective: Achieve full-scale hot firing demonstration of a 60ton LOX-Methane engine by 2026

Pre-burner firing test by end of March Assembly line operative by end of '24









Injector section

Multi-Purpose Green Engine

Objective: Create a highly versatile "Green" engine for orbital propulsion and in-orbit services and logistics

Manufacturing and integration of the first two engine models by Oct. 2024

In-Orbit Servicing module

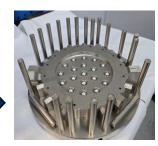
Objective: Develop enabling technologies to fulfil in-orbitservicing mission objectives

System Reg. Review passed

Preliminary Design review ongoing









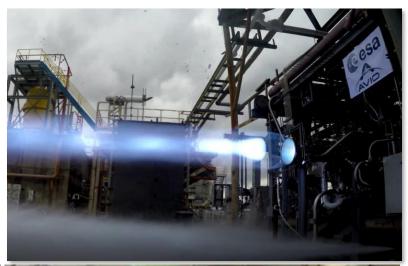


HWIL: Hardware in the Loop TCA: Thrust Chamber Assembly



Testing and launch operations in Europe









SRM testing (P120 and Z40)

Liquid engines testing (M10)

Vega integration

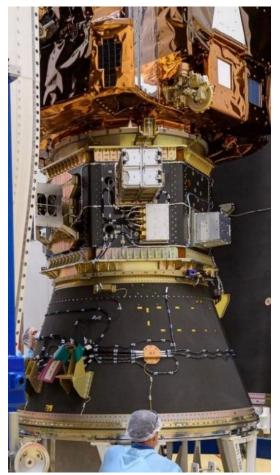


Space launch capabilities today

Vega C 2,3ton Payload in LEO



Vega C - SSMS Piggyback/Rideshare





Ariane 6 20ton LEO, 11ton GEO







Avio mastership of solid rocket motors: full vertically integrated capabilities

Full autonomy for Solid Rocket materials formulation, test and production



Propellant Casting



Filament Winding CFRP Inert Motor Cases Manufacturing

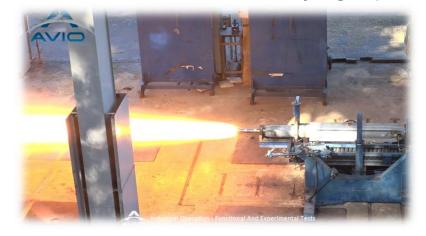


Nozzle MAIT

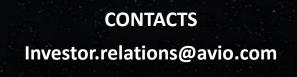




Full Spectrum of Testing capabilities (nondestructive, destructive, static firings, ...)









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