MILAN, MARCH 19TH, 2024

Avio presentation Euronext STAR Conference 2024



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1. Avio Profile











Avio: propulsion for space and defence



- European heavy launcher
- Avio: partner and supplier for strap-on boosters





 Solid Rocket Motors for Defence Missiles

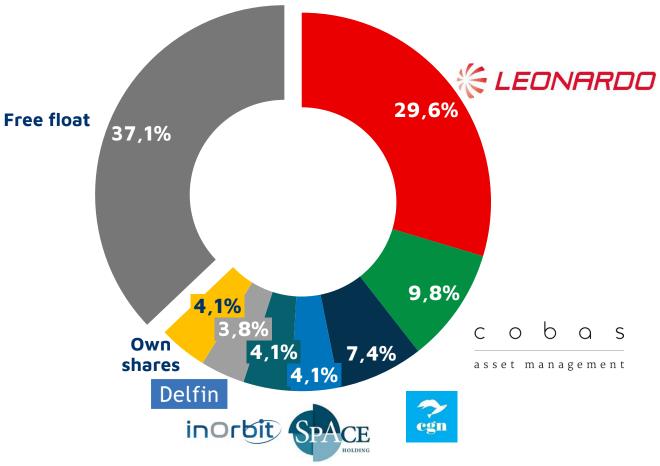


- European light launcher
- Avio: developer, manufacturer, launcher system integrator



A public company managed by a team of investors

- Public Company (IT STAR Stock Exchange Segment)
- ~4% Management share
- ~40% Free Float
- No Controlling Shareholder





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

Global space value chain





(1): Includes launcher manufacturing and launch service activities (2): Commercial services revenues only

Global customers base for space launches

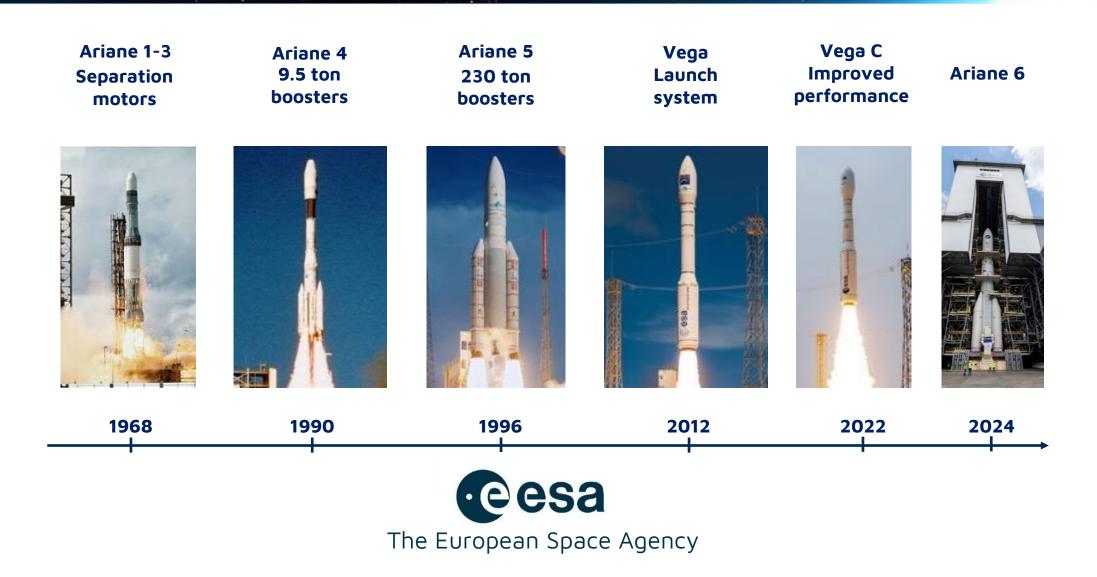
NOT EXHAUSTIVE



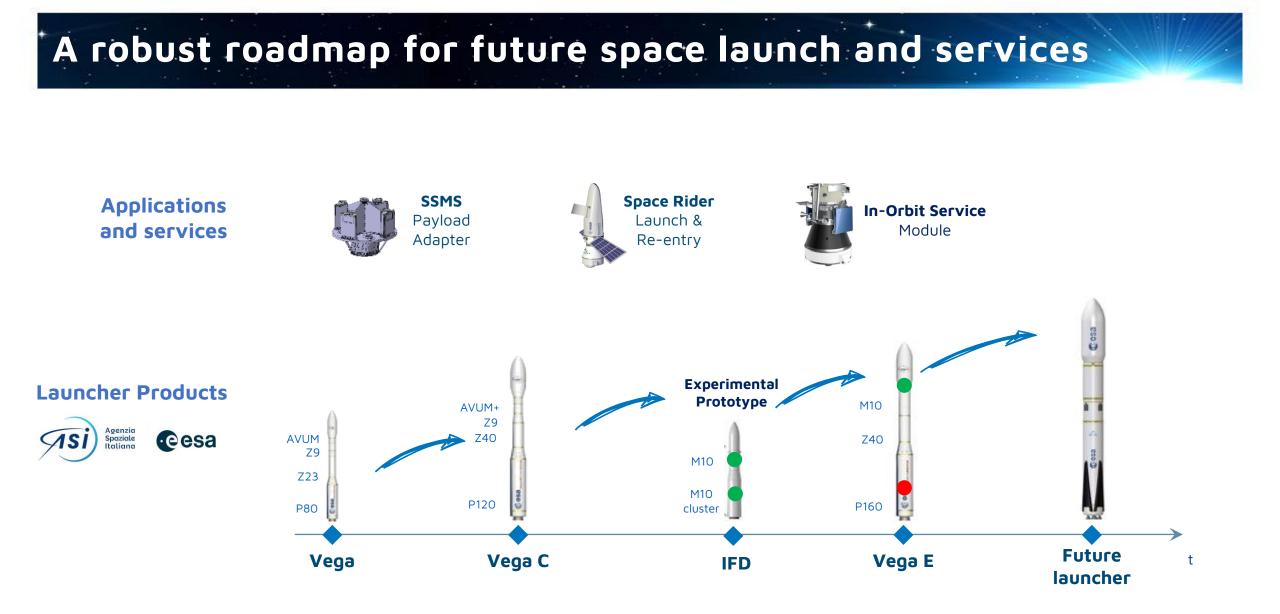




60 years track record in space technologies









Current industrial footprint



Our Tactical Products Development Roadmap

ASTER 30 B1 NT



End Products

Avio Group SRMs





2. Market Update

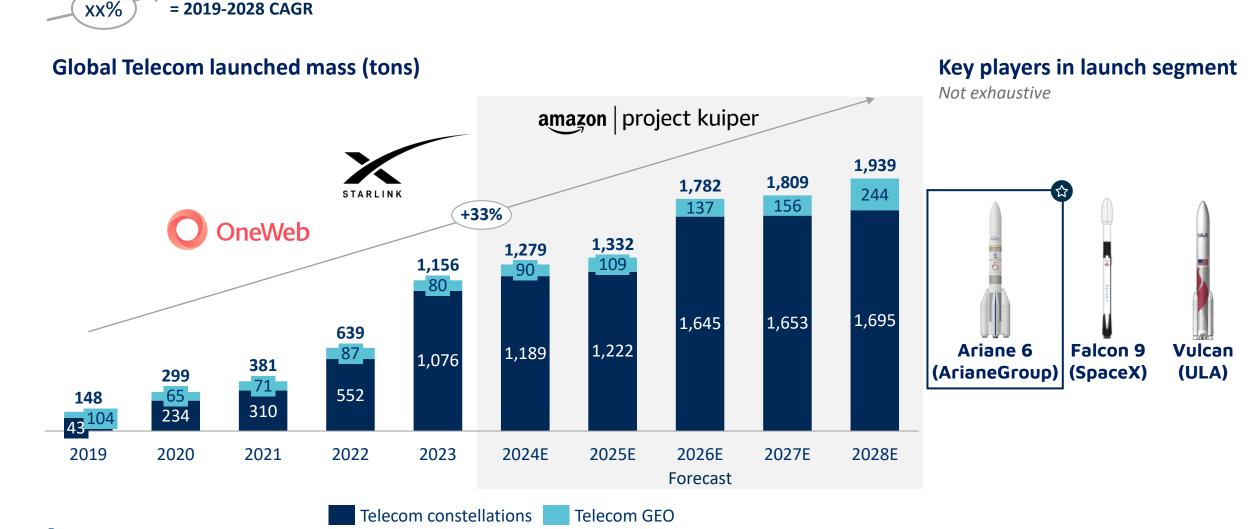








Source: Avio Analysis on Gunter's Space Page data; Euroconsult



Double-digit growth in telco mass driven by constellations

= 2019-2028 CAGR

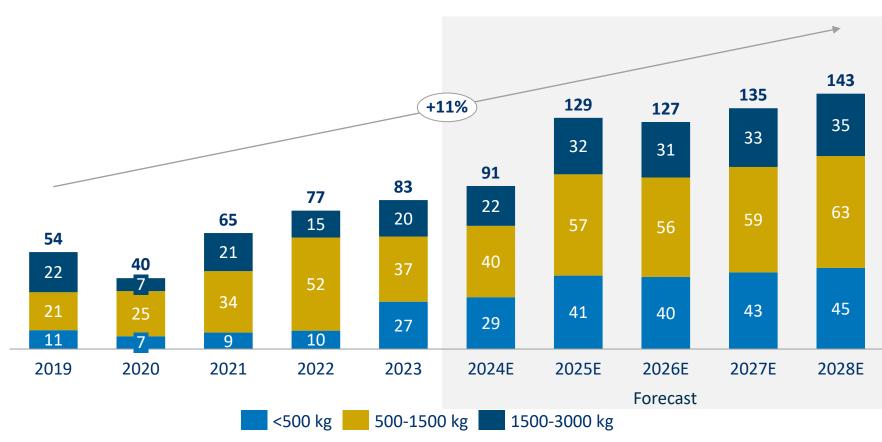
Steady growth in Vega major addressable mkt (LEO EO + Science)



Not Exhaustive - Vega C addressable market includes other segments and applications not shown in the graph¹

Global LEO launched mass for Earth Observation and Science applications (tons)

Key players in launch segment







Note: EO = Earth Observation; 1. E.g., small telco constellations, navigation, military, technology Source: Avio Analysis on Gunter's Space Page data; Euroconsult





3. Business Update







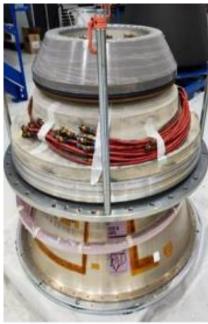
VEGA-C Return-to-flight on track for Q4 2024

Status update and next steps

- January 2024: Z40 Nozzle Critical Design Review and Technological Validation key point
- February 2024: Z40 Solid Rocket Motor Performance Key Point
- Q2 / Q3 2024: QM3 and QM4 Firing Tests
- Return-to-flight expected for Q4 2024



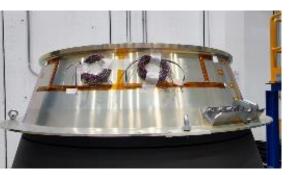
Sardinia Test Facility refurbished after Z40 QM2 failure







Carbon-Carbon nozzle throat insert (AGS)







esa

Gunt

Z40

Ariane 6 maiden flight expected for June / July 2024

- On November, 23 2023 Ariane 6 successfully completed the long-duration hot-fire of the entire flight phase of the core stage
- The main stage and the upper stage of the launcher are in the Launcher Assembly Building (BAL) at the ELA4 launch complex in French Guiana
- ESA, CNES and ArianeGroup targeting the first launch of Ariane 6 between 15 June and 31 July 2024

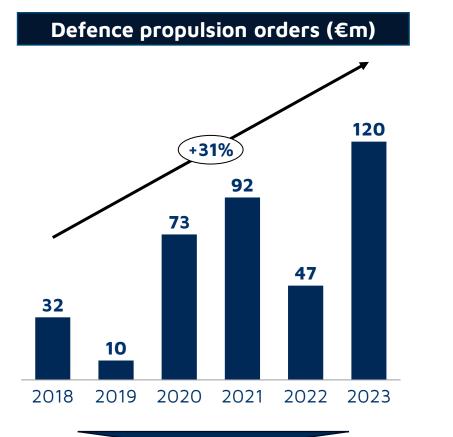


Vulcain 2.1 hot firing test on launch padThe firin French Guianaarrivin

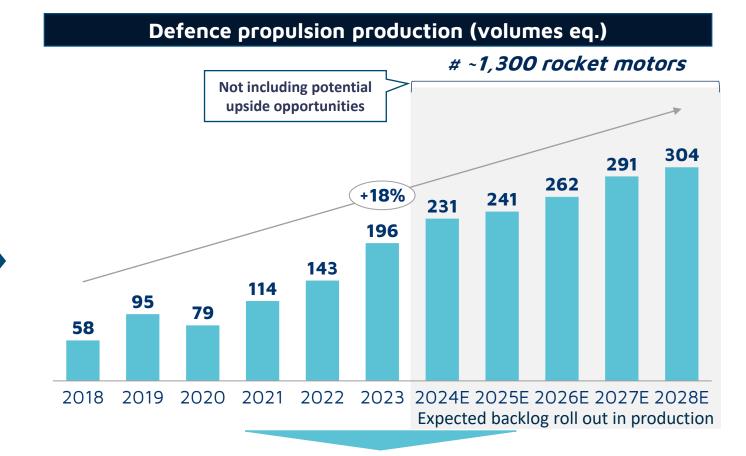
The first Ariane 6 maiden flight launcher arriving in French Guiana

Ariane 6 stages currently in the Launcher Assembly Building in Guiana

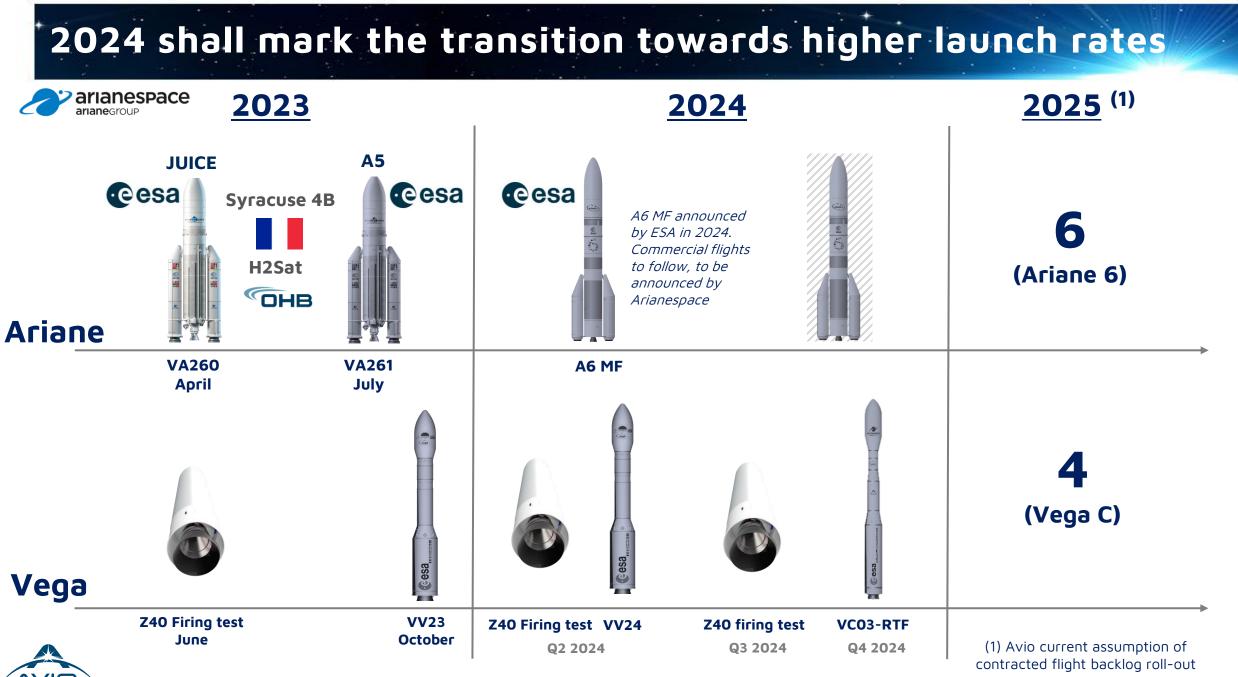
Defence propulsion: consolidating growth in both backlog and production volumes – now becoming an important profit



- 2023 record year for defence propulsion orders
- Current backlog beyond €300m
- providing visibility for 5+ years



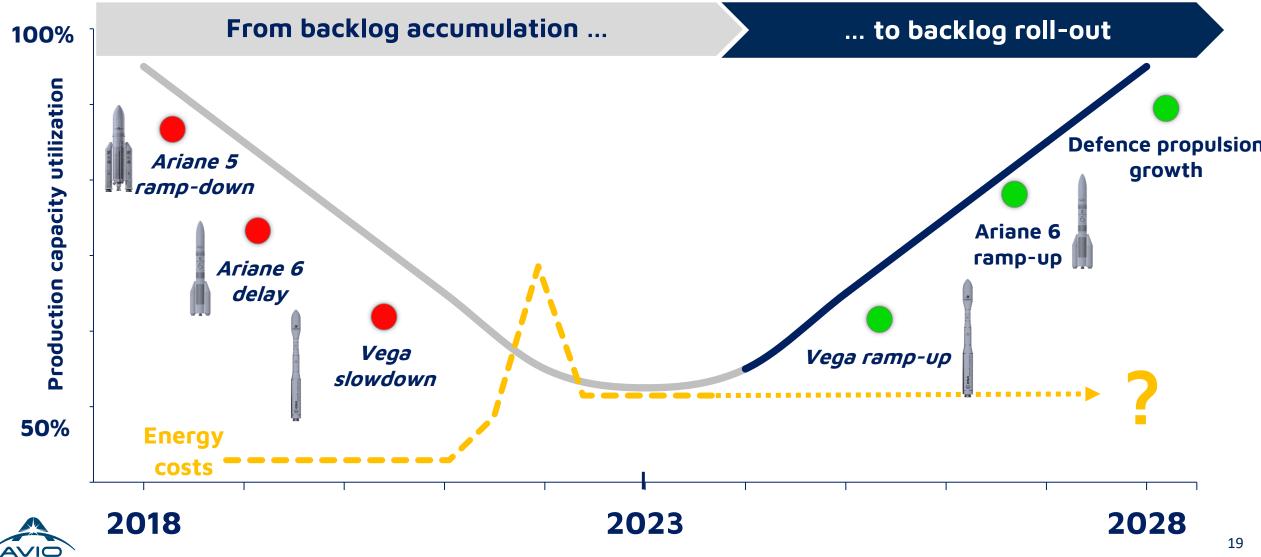
- Steep increase in Aster, CAMM-ER and MARTE production
- Excludes development contracts (e.g., NAREW) and other potential upside opportunities under discussion



SOURCE: ESA, Arianespace

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Where is 2024 along the cycle



Beyond 2024

- Net Order backlog to remain high and stable in spite of growing annual revenues
- Potential new product lines possible to enable orbital services businesses



- Sustained growth both in space launch and defence propulsion
- Growing volumes in P120/P160 production to sustain Ariane 6 / Vega C ramp-up
- Completion of technology innovation projects to expand future product range



- Margin expansion objectives linked to three main drivers:
 - > Progressively higher utilization of installed production capacity
 - > Insourcing of «Launch service provider» and «Launch operator» activities
 - Higher contribution from the defence propulsion business
- Upside opportunities in the defence propulsion activities
 - > New product developments for existing customers
 - New markets/customers for additional production activities



Exploring upside potential opportunities in the US defence market

- The defence propulsion business is experiencing an accelerating growth globally
- Avio has received an increase in orders for Aster / CAMM-ER and new sub-system developments
- The US market is facing a production capacity gap due to the substantial acceleration in demand
- Avio has started to explore the US market for medium-term opportunities:
 - ✓ Established 100%-owned subsidiary (Avio USA) with USD 3 million capital to start operations
 - \checkmark Hired a US team with deep sector competencies and relevant experience
 - ✓ Started to map opportunities with a view to engage in discussions with prospective customers
- Avio is continuing on this effort in the course of 2024











2023 results in line with guidance, Backlog and Net Income beyond expectations

Figures in €m

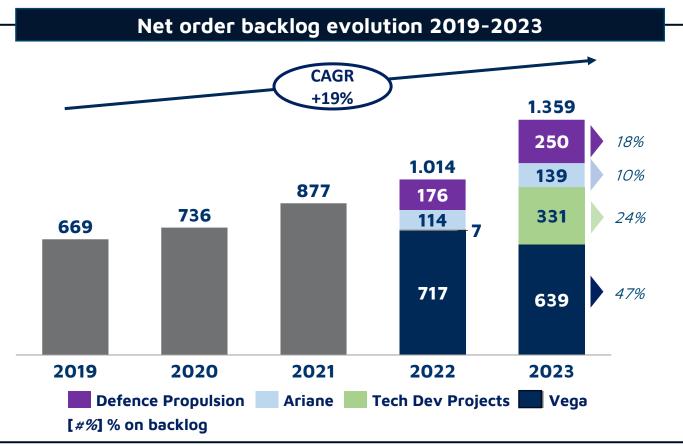
-	2022 Actual	2023 Actual	_	2023 Guidance
Backlog	1.014	1.3 59	•	1.150 - 1.250
Revenues	357,3	338,7	•	330 -350
EBITDA Reported	21,4	20,5	•	19 - 25
EBITDA Adjusted	27,8	28,0	٠	25 - 31 *
Net Income	1,3	6,6	٠	2 - 6
Net Financial Position	74,4	76,1	٠	45 - 66 **



*Projected on the EBITDA Reported Guidance plus the indication of €5 M of Non-recurring costs given in September 2022 **Min & Max values of consensus

2023 record in terms of orders intakes and backlog

Figures in €m



Vega and **Defence propulsion** accounts for 50% and 20% of 2023 yearend backlog. 60% of backlog is for production and 40% for development activities

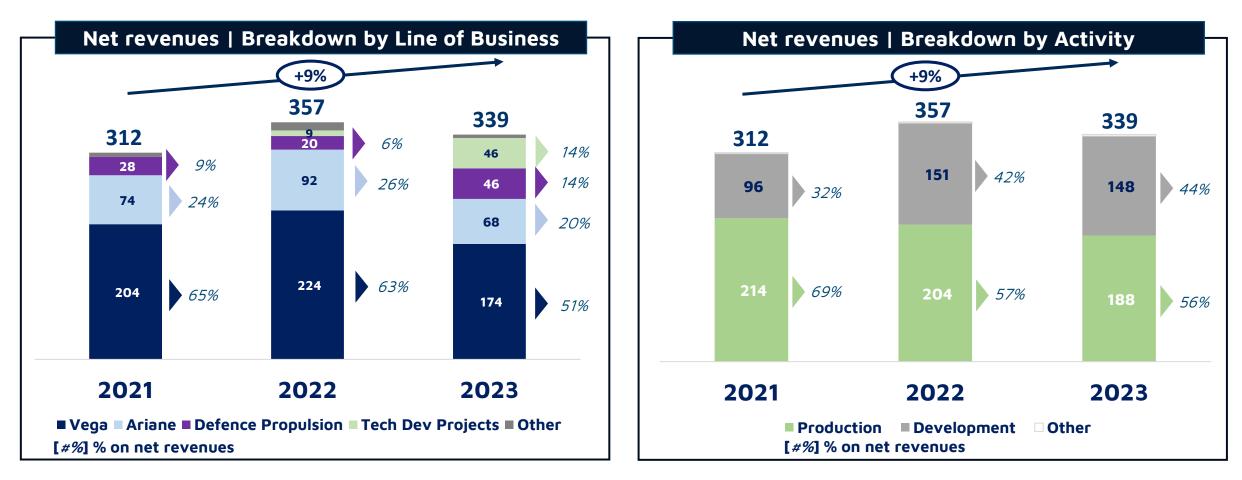
Main comments

- Record-breaking backlog scoring €1.4bn (+34% vs. 2022)
- New contracts signed in 2023 for ~€0.7bn (~+40% vs. 2022) mainly referred to:
 - Technology Development projects for
 ~€370m (e.g. in-flight demonstrator, High
 Trust Engine, Multi-Purpose Green Engine)
 - ➤ Defence propulsion production (i.e. ASTER, CAMM-ER) for €120m
 - P120C development and production activities for ~€100m
 - ➤ Vega C / Space Rider production and development activities ~€100m
- Growth in order backlog associated with growth in cash advances



Net revenues evolution 2021-2023

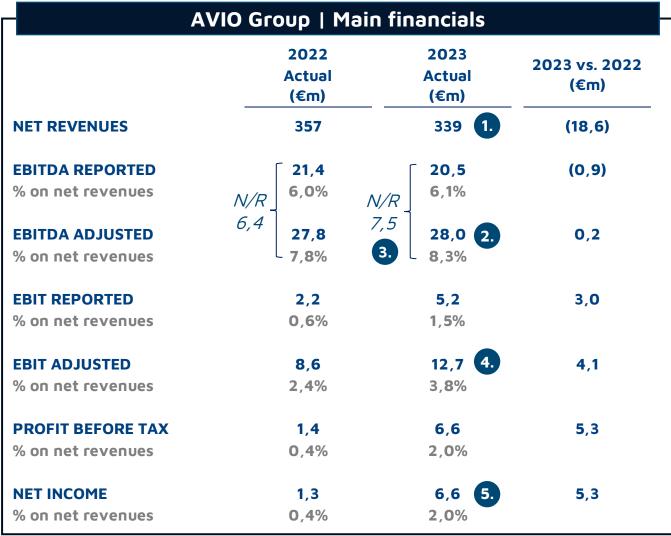
Figures in €m



In 2023 production revenues lower than 2022 for P120 and Vega C (due to return to flight activities) partially offset by increase in Technology Development projects and defence propulsion activities



FY 2023 results vs 2022



Main comments

- Slightly lower revenues (-5%) as a result of lower Vega C (due to return to flight) and P120 production activities partially offset by **boost in technology development projects and defence propulsion**
- 2. EBITDA adjusted in line with previous year for the combined effect of lower energy costs and lower utilization rate of production facilities for slow-down of launchers production activities
- 3. Non-recurring costs mainly related to Vega C return-to-flight and exploration of new potential business
- Positive effect on EBIT also driven by lower depreciations following the review of economic useful lives of certain production assets in connection with the phase-out/phase-in of both Ariane (A5>A6) and Vega (Vega>Vega C)
- 5. Net result at ~€7m also benefited from positive financial incomes (also thanks to cash advances) and neutral tax burden



Cash from new contracts contributes to a structurally negative working capital

Figures in €m

AVIO Group Sources and uses						
	2022	2023				
	Actual	Actual				
	<u>(€m)</u>	<u>(€m)</u>				
WORKING CAPITAL	(140,9)	(171,0)	1.			
DEFERRED TAX ASSETS	81,5	81,2				
PROVISIONS	(62,9)	(52,8)	2.			
GOODWILL	91,8	89,2				
FIXED ASSETS	257,4	285,6	3.			
FINANCIAL RECEIVABLES	2,0	2,0				
NET INVESTED CAPITAL	228,8	234,2				
NET CASH POSITION	74,4	76,1	4.			
EQUITY	(303,3)	(310,4)	5.			
TOTAL SOURCES	(228,8)	(234,2)				

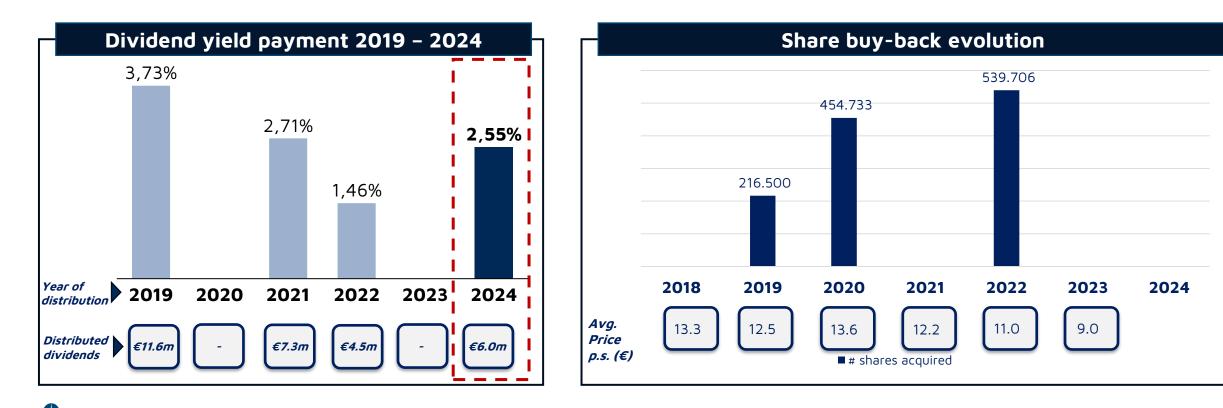
Main comments

- Working capital structurally negative thanks to cash advances from order intakes
- 2 Decrease in provisions mainly related to extraordinary costs for Vega C Return to Flight activities (net of ESA compensations) and for the execution of future programs provided for in previous year
- 3 Mainly for capex for Vega cadence increase, technological innovation projects, A.I. and development of new launchers of Vega family, net of depreciation
- 4. Net cash position in line with 2022
- 5. Increase in equity mainly for net income 2023



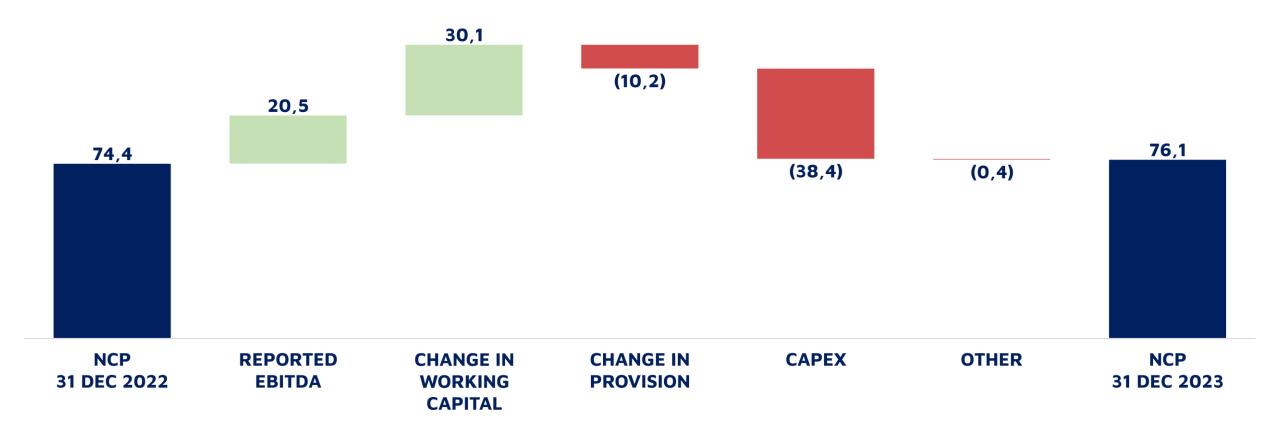
Proposed dividend distribution in 2024 and shares buy-back

- Robust 2023 net income drives proposal for return to dividend distribution in 2024
- **Board of Directors has proposed** to the Annual Shareholder's meeting on 23rd April:
 - ➢ dividends distribution for €6.0m⁽¹⁾ with dividend yield of 2.55%
 - Shares buy-back program for an amount of €4.9m



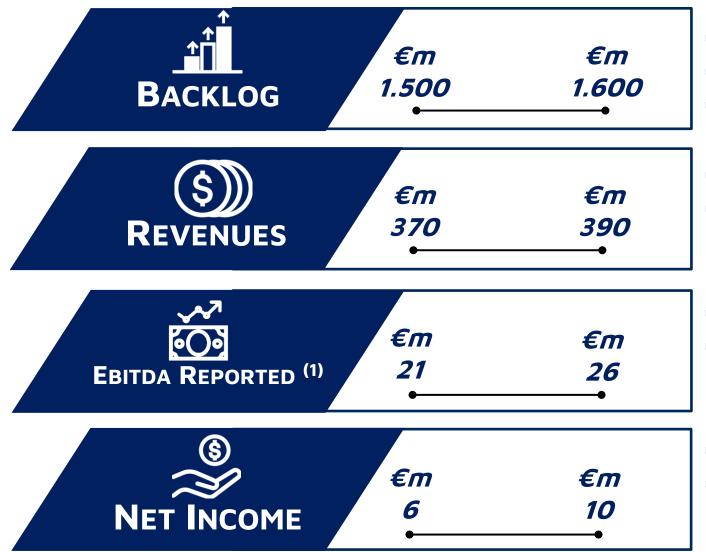
2022 – 2023 Net Cash Position bridge

Figures in €m



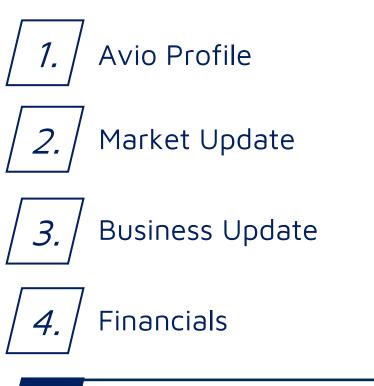


FY2024 Guidance



- 10%-15% growth vs 2023
- New orders from defence propulsion business
- Backlog expected to start roll-out
- 10% growth vs 2023
- Growth on defence propulsion activities and Technological Development Projects
- 10% growth vs 2023
- Backlog roll-out to "unlock" production and economies of scale
- 10%-20% growth vs 2023
- Marginal effect of financial charges and taxation





5. Appendix



Avio profile

AVIO

Avio technology portfolio



Solid Propulsions



Structures



Liquid Propulsion (upper stage)



Avionics



Launch operations



Composite materials



Testing and launch operations in Europe



SRM testing (Z40 and P120)

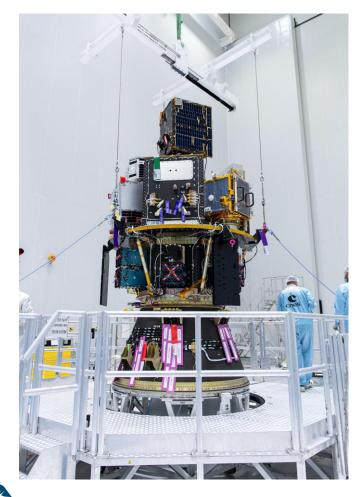
Liquid engines testing (M10)

Vega integration

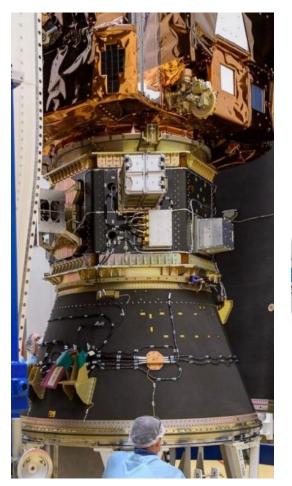


Space launch capabilities today

Vega C 2,3ton Payload in LEO



Vega C - SSMS Piggyback/Rideshare



Ariane 6 20ton LEO, 11ton GEO







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Major shift in Avio responsibilities for Vega operations by 24/25



Changes in Vega business perimeter to be implemented in 2024 :

- Worldwide Sales & Marketing with end customers (transfer from Arianespace)
- New launch pad for Vega E (ELA 3) transfer from ESA
- New launcher integration facility BIL (higher flight rate from 4/y to 6/y) from ESA
- **Flight operations** FSOA⁽¹⁾ responsibility (transfer from Arianespace)



Vega launch complex at CSG – highlight of new responsibilities



Vega E launch pad

(former A5)







Satellite

Vega C launch pad



Solid Rocket Motor storage

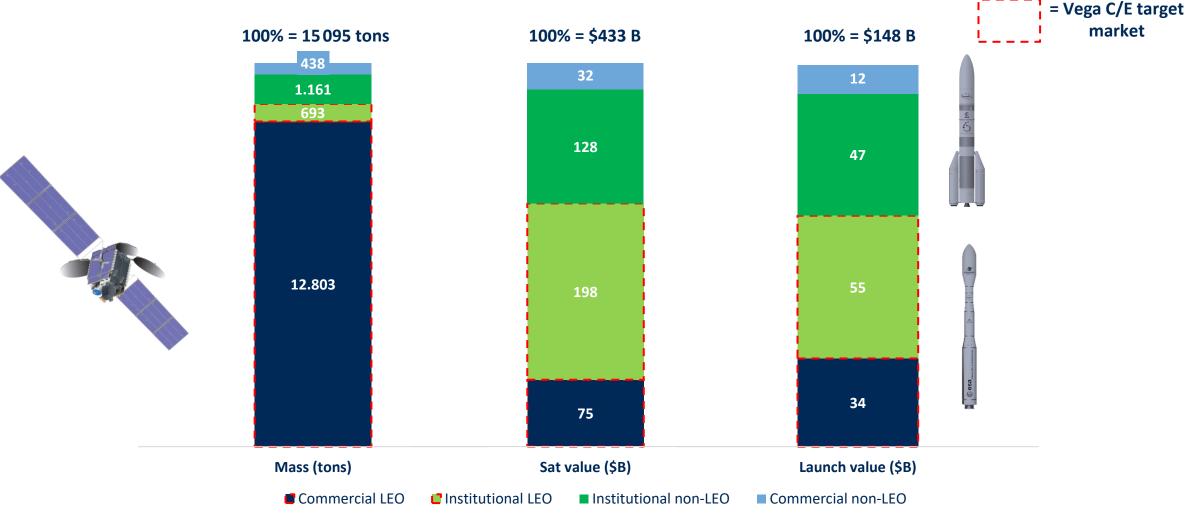


Market update

AVIO

Future launch market value concentrated on Government LEO Sats

2023-2032 expected satellite and launch markets by operator type





Business update

ÂVIČ



Customer: European Space Agency

Objective: P160C Solid Rocket Motor ("SRM") is the evolution of Qualified P120C SRM. P160C will be devoted to Ariane 6 Block 2 and VEGA-E Launch Vehicles (LV)

Status update:

SRM Critical Design Review: completed in March 2024

Qualification Model #3 (QM3): Insulated Motor Case (IMC) Manufacturing ongoing (Inspections before IMC Acceptance Tests), IMC shipment scheduled in June 2024



IMC, Thermal Protection after machining



IMC, Composite case during winding (initial phase)



IMC, Composite Case winding



IMC, Composite case after thermal curing



VEGA-E Program progressing well on both flight and ground segments

Preliminary design review

SUB-SYSTEMS PRELIMINARY DESIGN REVIEW

CRITICAL DESIGN REVIEW

GROUND QUALIFICATION REVIEW QUALIFICATION FLIGHT FLIGHT QUALIFICATION REVIEW

Customer: European Space Agency

Objective: VEGA-E Launcher aims to increase the Payload launch capability by 25% with respect to VEGA-C, leveraging the "M10" Liquid Oxygen and Liquid Methane engine for the upper stage

Status update:

Wind Tunnel tests completed in 2023 (as part of the Launch Vehicle Design Review process)

M10 Engine Firing Tests successfully performed in AVIO SPTF in Sardinia

ZL3 launch complex assigned to Vega E



Wind Tunnel tests completed in 2023 (as part of the Launch Vehicle Design Review process)



DM1 (2022) and DM2 (2023) M10 Engine Firing Tests



"ZL3" launch complex



Space Rider: the innovative spaceplane now in the ground testing phase



Customer: European Space Agency

Objective: Development of a reusable orbital and re-entry system aimed to manage multiple commercial and institutional applications (e.g. microgravity, IOV/IOD, Earth and Space Observation applications, etc.)

Status update:

HWIL campaign started in December 2023 First test tranche successfully completed





HWIL:Hardware in the Loop test campaign UCMEC:Mechanical/Environment test campaign

Availability of Avionic items for HWIL Test campaign



PSIU EM(Temis)

Magneto Meter EM (Lusospace)



PCDU EM (LDO)



ALEK cylinder (BG) manufacturing completed



HWIL Test Setup (AVUM+ALEK)



HWIL campaign step1 successfully completed

Technological Development Projects to prepare next-gen launchers and applications progressing as expected



Launcher Products acceleration





Applications and services acceleration \sqrt{si}

Agenzia Spaziale Italiana

Space Transportation Systems

High Trust Engine

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

Start of HWIL activities in apr-24

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

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 June 2024

In-Orbit Servicing module

Objective: Develop enabling technologies to fulfill in-orbitservicing mission objectives¹

Concept design architecture established

System Req. Review passed



M10 for IFD1 Flight: manufacturing on going, TCA and Nozzle Printed in house

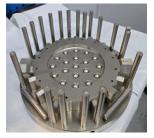






Injector section

Thrust chamber



ThalesAlenia partnership



Note: HWIL:Ha

Note: HWIL:Hardware in the Loop test campaign; 1. Satellite relocation, life extension, refueling, deorbiting

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