SEPTEMBER 11TH, 2023

Avio HY 2023 Results





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• Highlights (Giulio Ranzo, CEO)

- Focus on HY 2023 (Giulio Ranzo, CEO)
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Record-high order backlog and cash, improved revenues and profits

Vega launch scheduled for October 4th, subsequent Vega launch planned by spring 2024

Vega C: Independent Evaluation Board (IEB) on Z40 firing test and Vega C return to flight plan under finalization

Vega E: Preliminary Design Review achieved, DM2 engine model successfully tested on ground

Record-high order backlog (1.4Bln€) thanks to new technology development projects and tactical propulsion orders

Improved profitability driven by technology development projects and relief of energy costs

Record-high cash position (over 100M)

FY 2023 Guidance confirmed



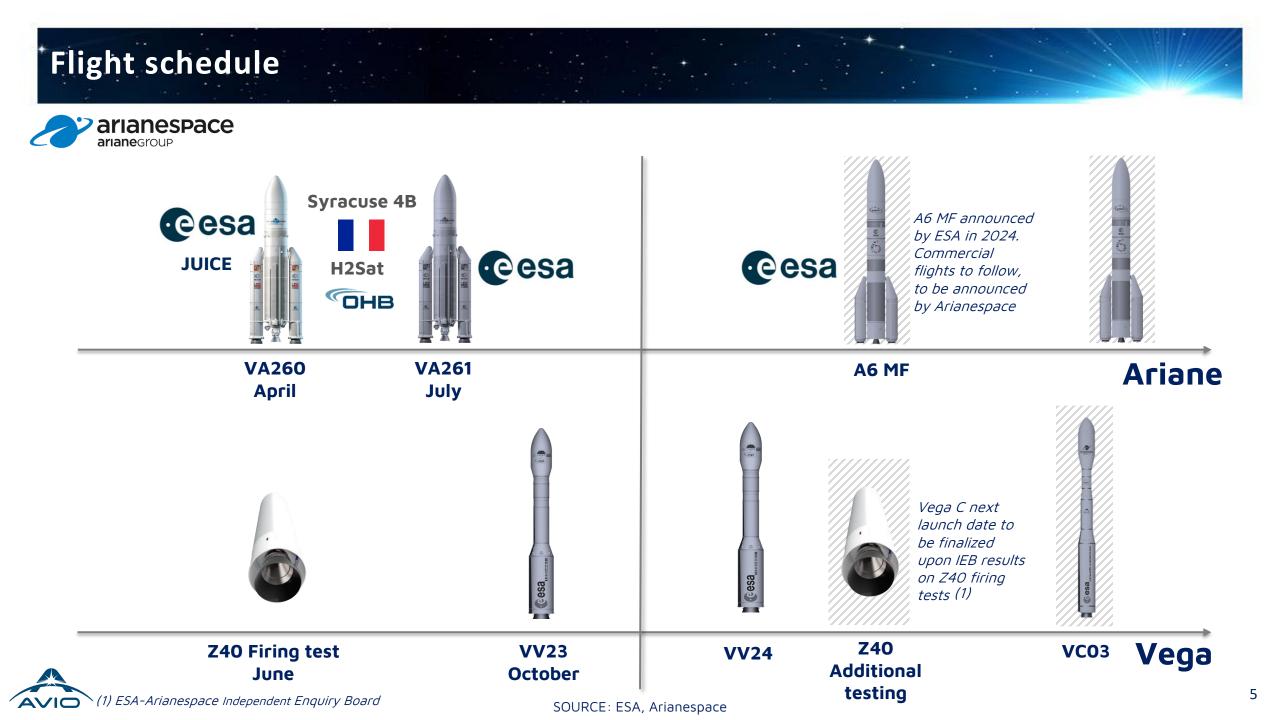


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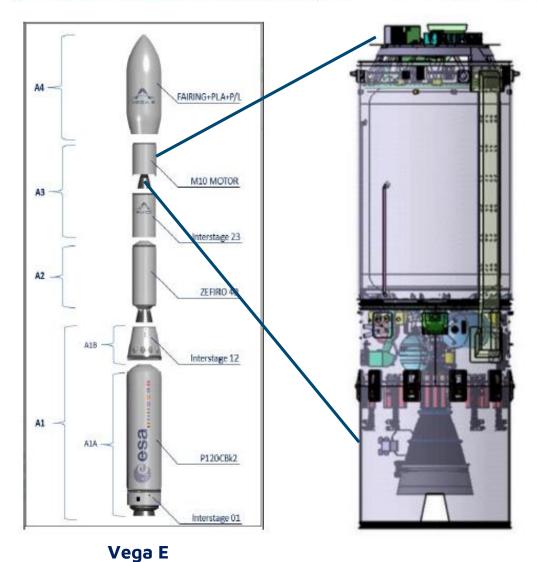
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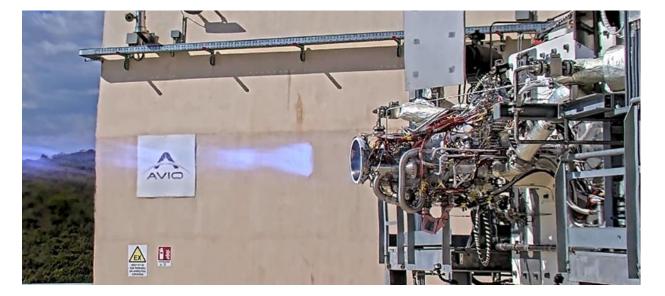
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Vega E's M10 LOX-CH engine (new model DM2) succesfully tested





The first 5 engine tests for DM2 were completed, introducing a new, enhanced, lighter, and fully throttleable version of Avio's upper stage engine for the upcoming M-10, the upper stage engine of the Vega-E launcher.

The engine is designed and built by Avio with **100kN** of thrust using liquid Oxygen and Methane. It is the first engine of this type in EU.



Space Rider successfully passed its Critical Design Review





| | | ALEK + RM |
|--|---------------------|-----------|
| | Height [m] | 7,15 |
| | Max diameter[m] | 2,4 |
| | Lift off mass [ton] | 3,3 |
| | Power [KW] | 3,7 |

Achievements:

Design phase completed in July 2023:

- System critical design review successfully passed
- Subsystems and components critical design reviews completed (no red flags)

• Qualification loop started:

AOM HWIL test facilities in Colleferro completed

Next steps:

- AOM HWIL tests will start in Sep 2023 (duration 1 year)
- AOM Mechanical Tests: HW production ongoing, test foreseen in Apr 2024
- AOM+RM combined tests (mechanical, functional, EMC) from Sep 2024 to Feb 2025

Maiden flight readiness targeted in 2H 2025:

- Integration in Kourou (French Guyana) in July 2025
- Launch targeted in 2H 2025



New technology development projects started to prepare next-gen launchers

Space Transportation Systems: €185 M

- In-flight demostrator of a LOX-Methane two stage to orbit small launcher
- Two experimental launches (single stage and two stage respectively)
- Composite cryo tanks, simplified Avionics (software-based) and non-pyro separation systems



<u>High Thrust</u> Engine: €100 M

- 60ton thrust class LOX-Methane engine
- Innovative thermodynamic cycle, delivering high specific impulse

Multi-Purpose[™] Green Engine: €55 M

- Highly versatile engine for orbital propulsion
- «Green» engine for inorbit services and logistics

Propulsion for IOS Module: €35 M

- Propulsion techs for an In-Orbit Servicing Mission
- In partnership with TASI, Leonardo, Telespazio, D-Orbit



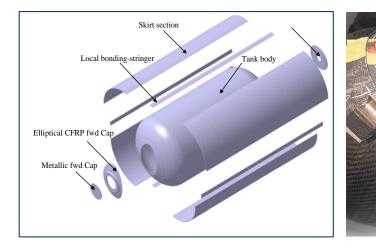


to be developed within 2026



Space Transportation Systems – New Technologies and Sub-Orbital Demo Flights

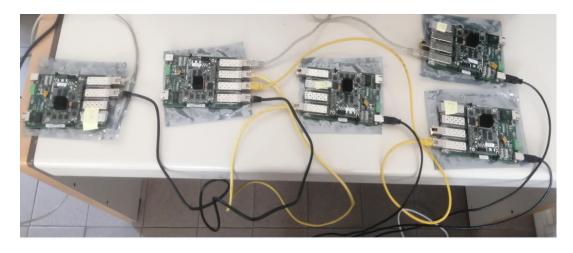
Cryogenic Composite Tank





IFD#1

SIA : System Integrated Avionics

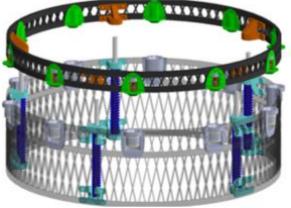


In-Flight Demonstrators



M10 LOX-Methane based Engines

NDSS : Non-Detonic Separation System





9

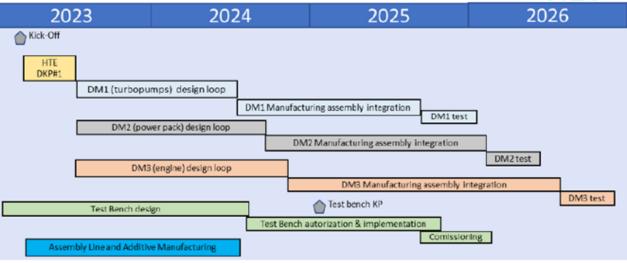
High Thrust Engine – The 60 tons thrust class LOX/Methane

Weight, kg



The most innovative component of the M60 engine is the "Liquid Oxygen Powerpack" which, via a dedicated gas generator, will supply the necessary power to the oxygen line.

Copper-based alloys represents a key element for the development of new Technology HT engines, such as 60-tons class LOxMethane cryogenic engine.





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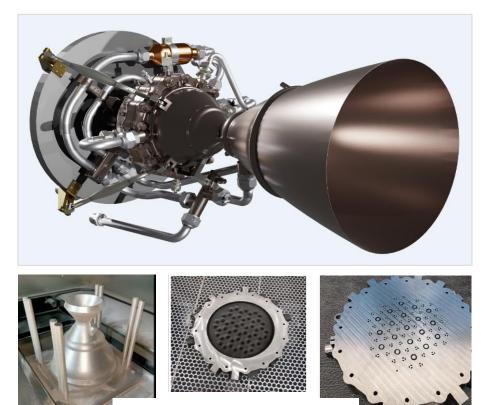


Copper Alloy CC

MPGE – Multi Purpose Green Engine for orbital propulsion and In-orbit Services

2 different engine variants (2000N class) using green propellants

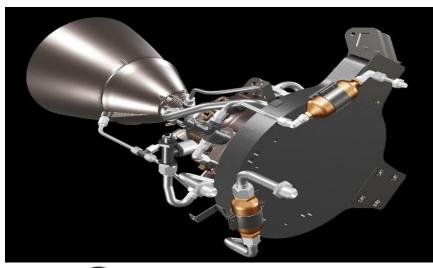
`GE-C' orbital engine (same class as Vega C current upper stage)



First Prototypes in ALM

`MPGE' as a throttable evolution of the GE-C

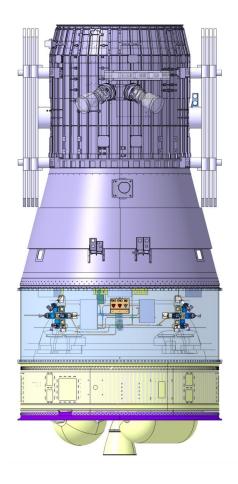
(Space Rider, Kick Stage Vega E, IOS)







Contribution to In-Orbit Services Demo missions by 2026 using Vega C



Orbital Support and Propulsion Module (OSPM)

- part of the IOS Spacecraft, it provides
 - Electrical Power Subsystem to the Spacecraft
 - Attitude and Orbit Control System hardware (AOCS)
 - Reaction Control System for Rendez-Vous position and attitude control
 - Main Propulsion for orbital manoeuvres

Software components

- Guidance Navigation and Control for orbital manoeuvres and far range rendezvous
- Subsystem management

Applications:

- De-orbiting/Debris removal
- Re-location/Re-orbiting/Life extension



Investment in T4i Technology for Propulsion and Innovation





On 4th September 2023 Avio invested ~**2.5** $M \in$ in T4i's capital, equal to approximately **17%** of the shares of T4i.

T4i, spin-off of the University of Padua, was founded in 2014 and it is specialized in 'green' storable chemical propulsion systems, electric propulsion systems, and attitude control thruster.

The agreement will enhance the effectiveness and timeto-market for the introduction of new functional propulsion systems in our strategic plan for application on:

- GEC/MPGE Engine
- IOS propulsion module
- Vega upper stage propulsion



P160C activities update

Garlane 6 (Cosa

The P160C is going to be the booster of **Ariane 6 Block 2**, with the main purpose to meet the needs of **Kuiper's constellation** and the **first stage of the next configuration of Vega Launcher**, to increase its performance, competitiveness and also versatility.

Update of the P160C activities at 30 June 2023:

- procurement of process machines, tools and means
- acceptance and process validation
- QM3 (s/n 01) manufacturing

Next steps:

- April 2024: first IMC shipment from Colleferro
- Mid of 2024: casting at Regulus plants
- End of 2024: static firing test





The new winding machine



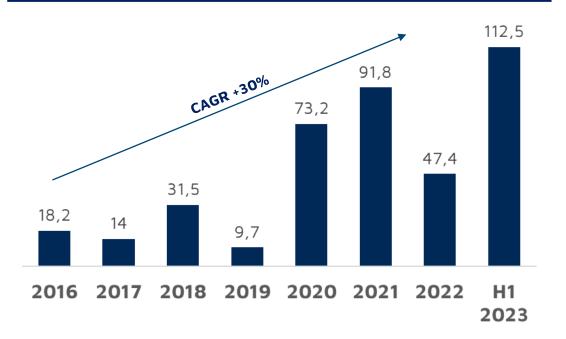
The new autoclave



Tactical orders steadily growing, clear future roadmap



Historical Tactical Orders



- Signed 90 EUR Million of new contracts for Aster 30
- Total orders for defense currently around € 300 MIn providing visibility for the next 5 years

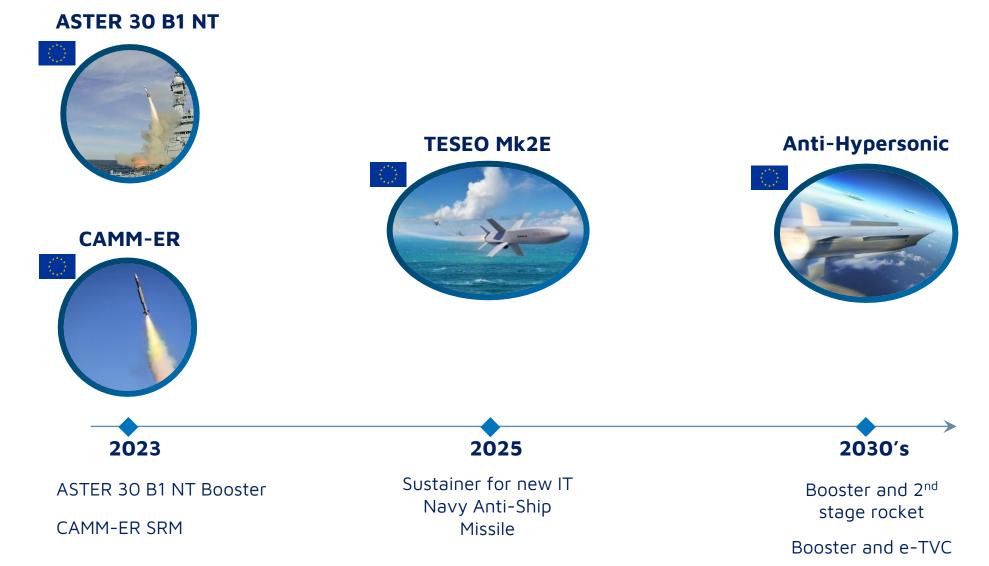




Avio is partner of the **HYDIS2 consortium** for a new endo-atmospheric interceptor. Avio is part of the consortium with other 18 partners and 30 subcontractors. The company will give its contribution in providing the European Armed Forces with the most innovative **propulsion solutions**.



Our Tactical Products Development Roadmap



End Products

Avio Group SRMs



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Record Order Backlog thanks to development technology projects earlier than expected

Order Backlog evolution FY 2022-HY 2023 (€ - M)



Order intake in HY 2023 mainly include:

Comments

- Technology development projects (~370M)
- Defense Production (~110M)

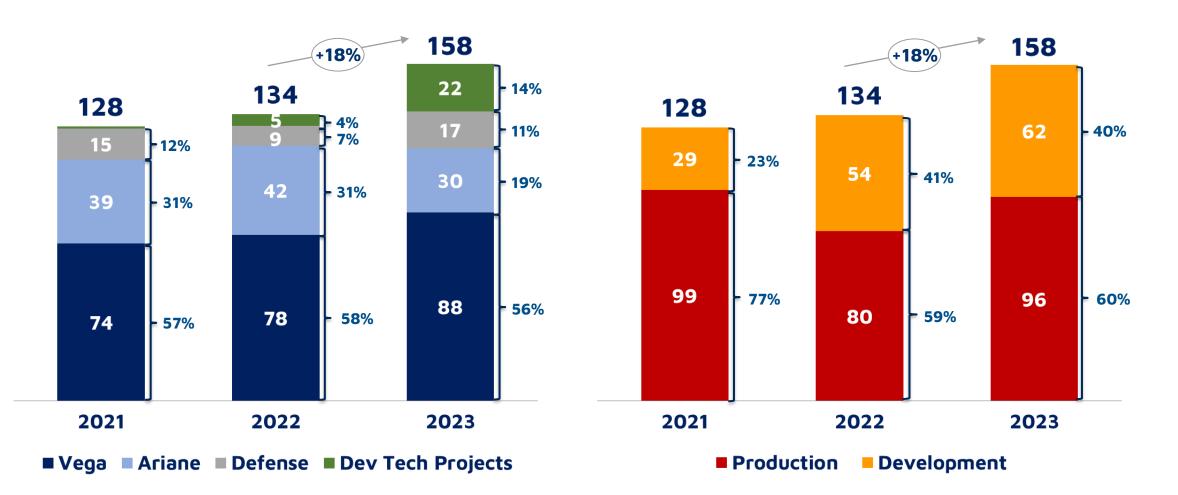
Increase in share of defense and technology development contracts



Revenues growing thanks to Technological Development projects and Defense

by Line of Business (€ - M)

by Activity (€ - M)





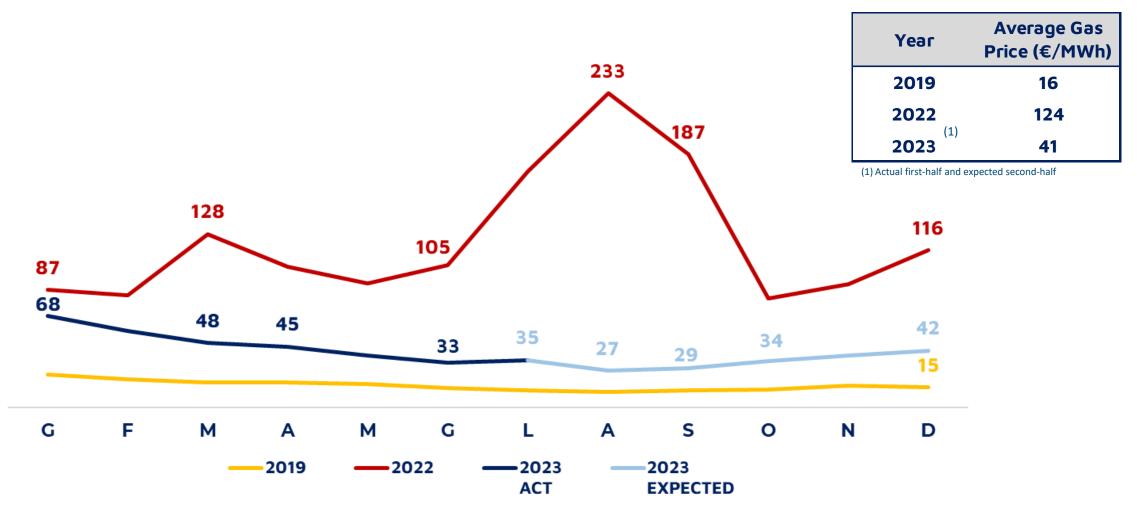
Improved results driven by development and defense activities, with decreasing energy costs

| | HY 2022 | MAIN ECONOMICS | HY 2023 | | |
|-----|---------|-------------------|---------|-------------|---|
| | € - M | | € - M | | Comments |
| | 134.0 | NET REVENUES | 157.7 | | Increase in revenues thanks to technological development projects and defense production activities |
| | 3.2 | EBITDA REPORTED | 5.2 | | Improved EBITDA driven by higher revenues and relief of energy |
| N/R | 2.4% | % on net revenues | 3.3% | N/R | costs |
| 2.5 | | | | 5 .3 | Higher non-recurring costs mainly due to provision for the Zefiro 40 |
| | 5.6 | EBITDA ADJUSTED | 10.5 🜙 | | anomaly |
| | 4.2% | % on net revenues | 6.6% | | |
| | (6.2) | EBIT REPORTED | (3.9) | | |
| | N.m. | % on net revenues | N.m. | | |
| | | | | | Depreciation unchanged |
| | (3.7) | EBIT ADJUSTED | 1.4 | | |
| | N.m. | % on net revenues | 0.9% | | |
| | (6.5) | RESULT BEFORE TAX | (3.7) | | Positive contribution from financial items |
| | N.m. | % on net revenues | N.m. | | |
| | | | | | |
| | (7.6) | NET RESULT | (3.9) | | Almost neutral tax burden |
| | N.m. | % on net revenues | N.m. | | |



Gas price decrease in HY 2023 compared to HY 2022 with positive effect on industrial production costs

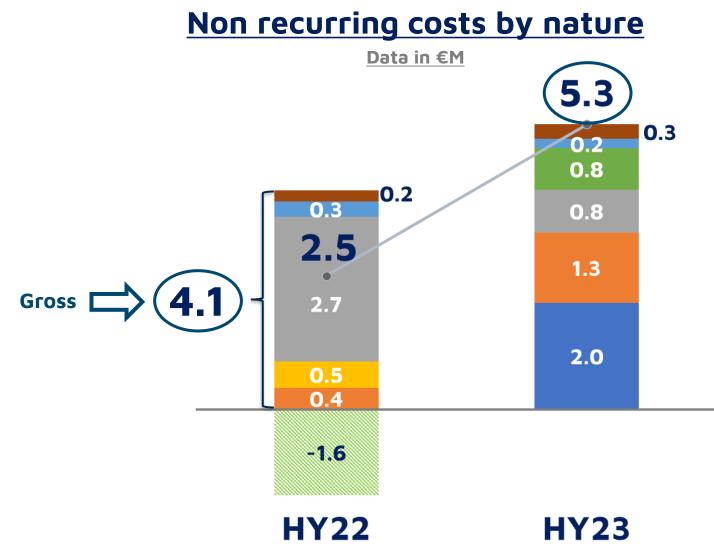
Italian average monthly gas prices HY 2023 (€/MWh)

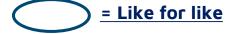




Source: GME (Gestore Mercati Energetici)

Non-recurring items impacted by the provision of the cost for an additional Zefiro 40 static firing test





Other

Series Serie

Fuel vouchers to employees

Exploration of new potential business

Vega C and other programs

Covid-19

Legal/HR/Advisory one off

■ Zefiro 40 anomaly



Like for like N/R costs increased by 1.2M€

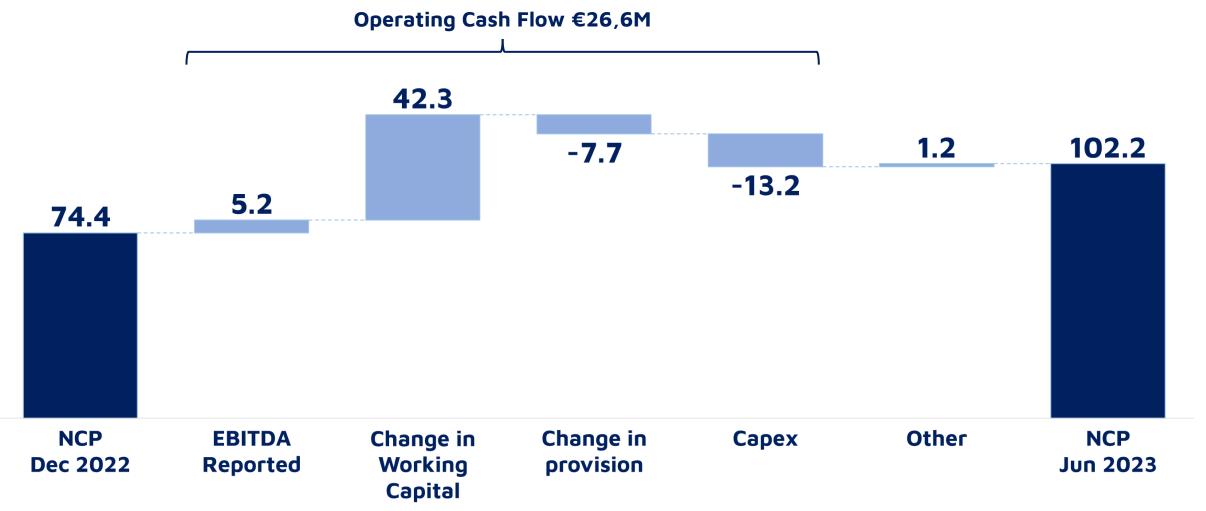
Prominent improvement in working capital and cash position

| 31 DEC 2022 | MAIN SOURCES AND USES | 31 JUN 2023 | DELTA | Comments | |
|-------------|-----------------------------|--------------|--------|--|--|
| € - M | | € - M | € - M | | |
| (140.9) | WORKING CAPITAL | (183.2) | 42.3 | Working capital structurally negative with a prominent positive trend in HY 2023 for advance payments from | |
| 81.5 | DEFERRED TAX ASSETS | 80.9 | 0.6 | development contracts | |
| (62.9) | PROVISIONS | (55.3) | (7.7) | Decrease of provisions utilized against Vega C return to flight costs and costs for delays in execution of programs incurred | |
| 64.1 | GOODWILL | 62.8 | 1.3 | in the semester and provided for in 2022 | |
| 27.6 | CUSTOMER RELATIONSHIP ASSET | 28.0 | (0.3) | Mainly for capex for P120 Vega cadence improvement, development of new launchers of Vega family and new | |
| 248.9 | FIXED ASSETS | 253.9 | (5.0) | | |
| 8.5 | RIGHTS OF USE | 8.3 | 0.2 | headquarters, net of depreciation | |
| 2.0 | FINANCIAL RECEIVABLES | 2.0 | - | | |
| 228.8 | NET INVESTED CAPITAL | 197.4 | 31.4 | | |
| 74.4 | NET CASH POSITION | 102.2 | (27.8) | Better than seasonal typical trend principally for positive contribution from working capital | |
| (303.3) | EQUITY | (299.6) | (3.6) | | |
| (228.8) | TOTAL SOURCES | (197.4) | (31.4) | | |



Increase for advances from development contracts

Data in €-M



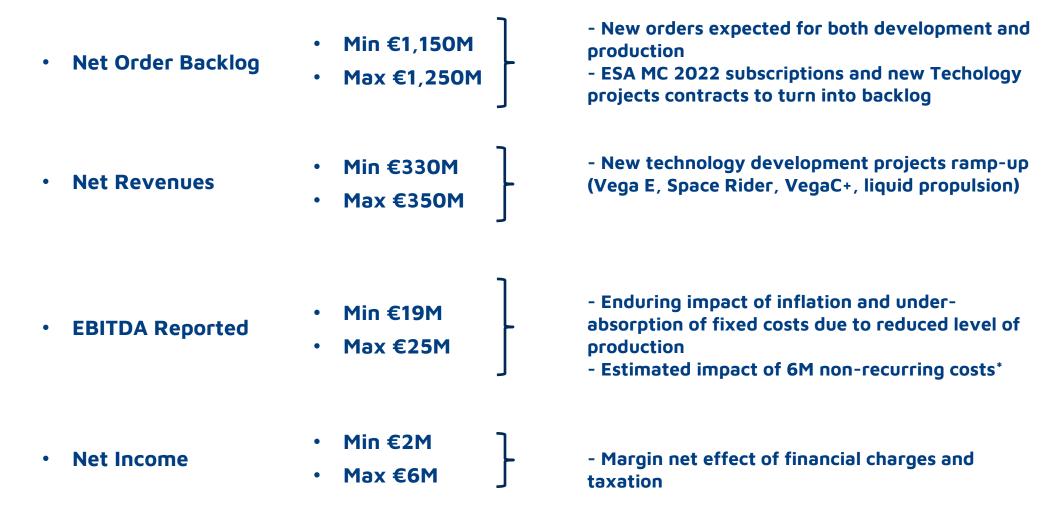




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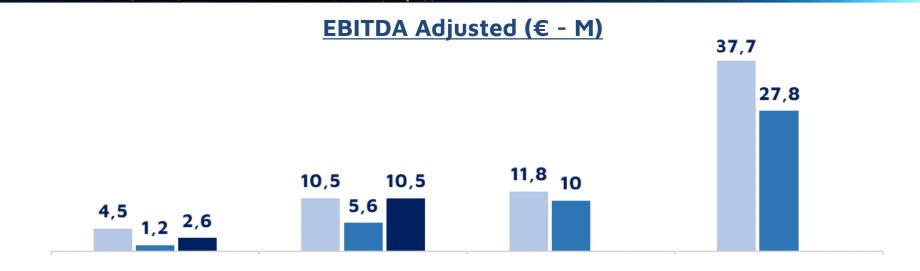


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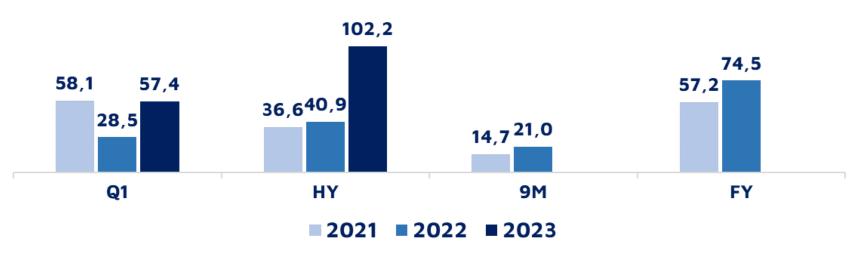
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EBITDA and Cash generation heavily concentrated on Q4s



Net Cash Position (€ - M)





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