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Avio Presentation Star Conference, Milan



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• Avio profile

• Market updates

• Business update

• Financials



Avio : propulsion for space and defence



European heavy launcher (10.5 tons in GTO) Avio: Strap-on boosters



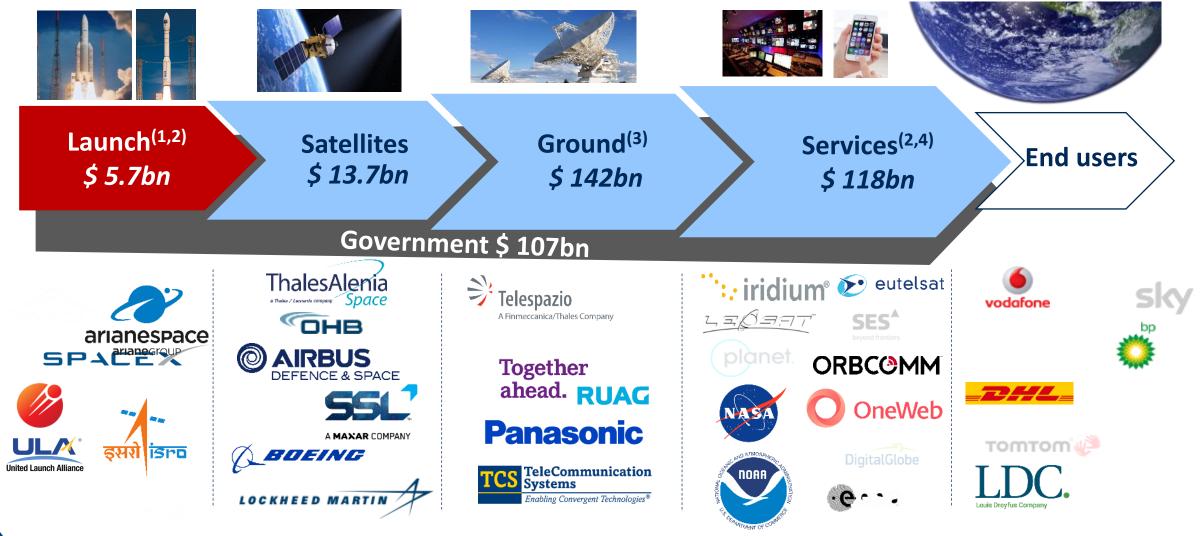
Tactical Propulsion Systems



22 European light launcher (2.3 tons in LEO) Avio: System integrator

The launch segment : the gateway to the Space economy

Global space value chain (2021)



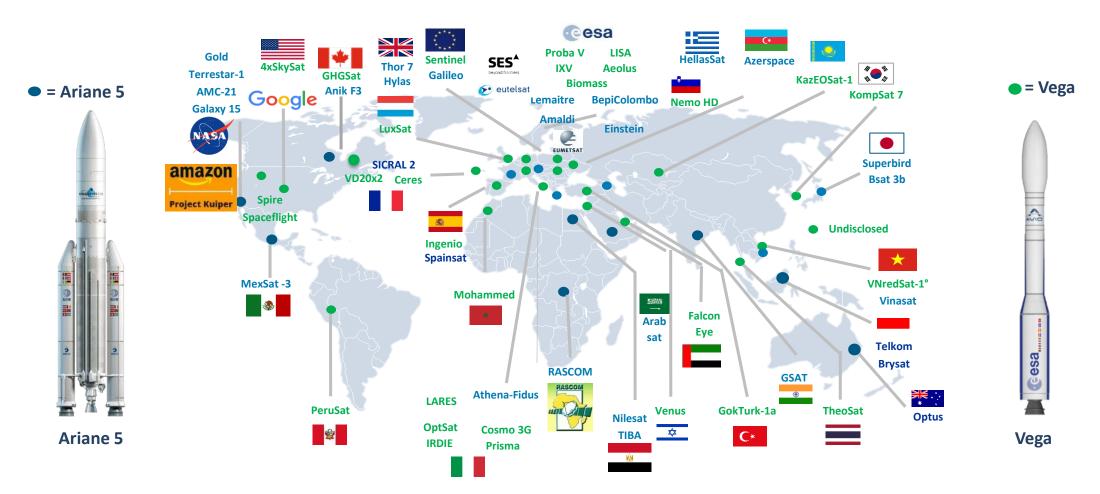
(1): Includes launcher manufacturing and launch service activities (2): Commercial services revenues only (3): Includes GNSS chipsets and Related(4): Includes commercial humanflight

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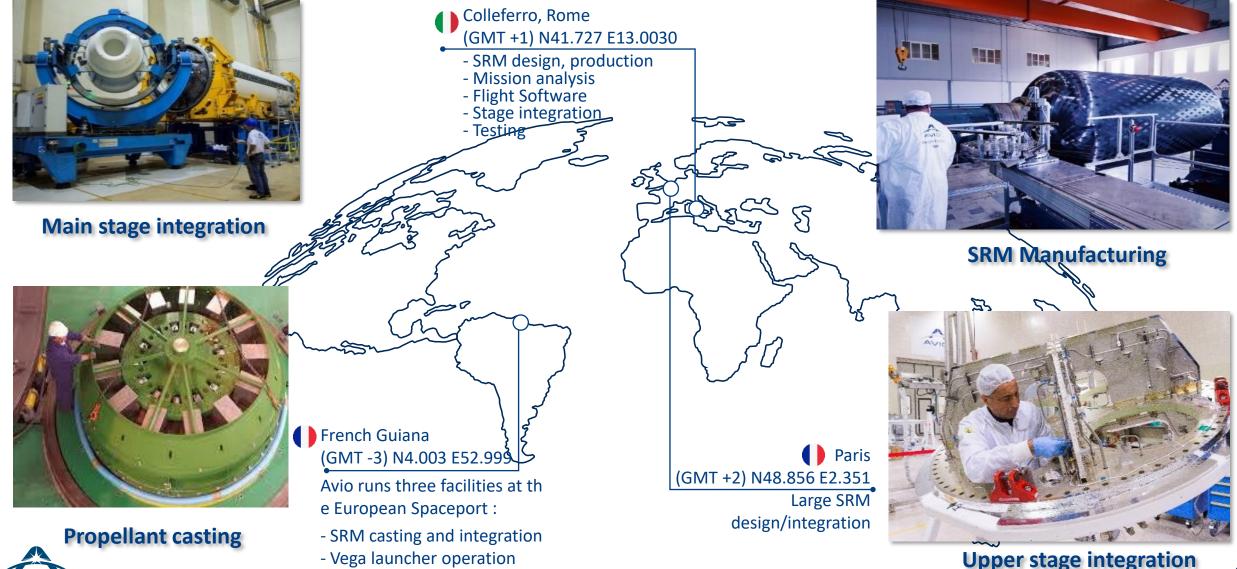
NOT EXHAUSTIVE



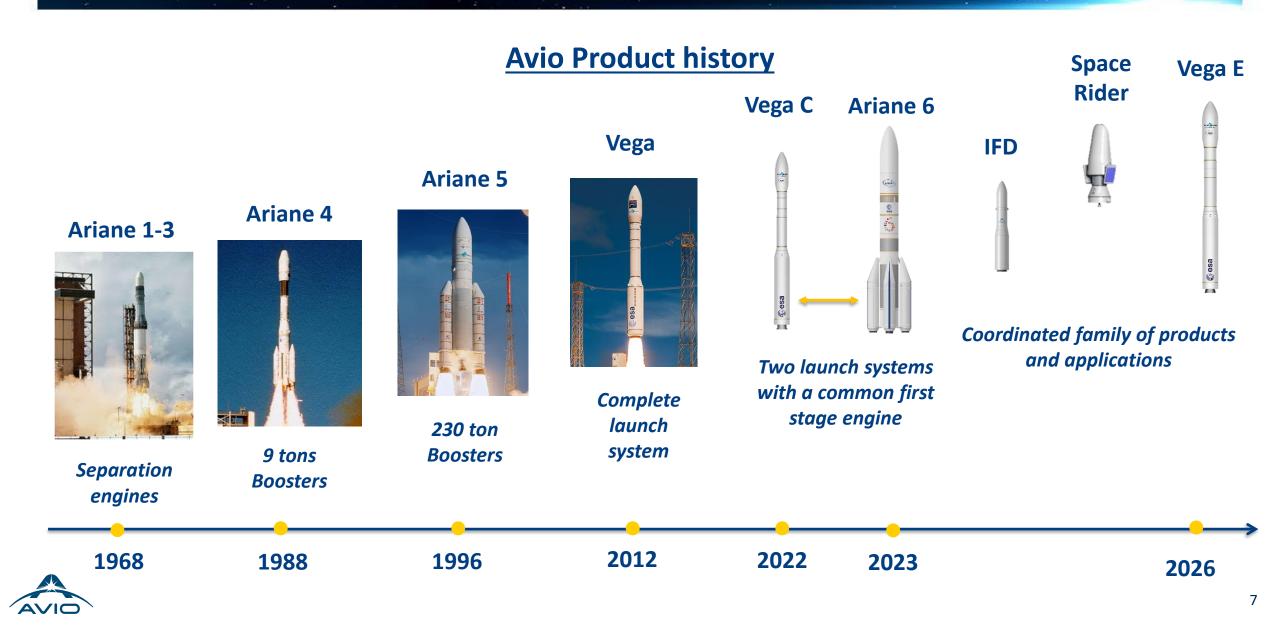


Global customer base

Industrial operations in Europe and French Guyana



55 years of track record in Space launch





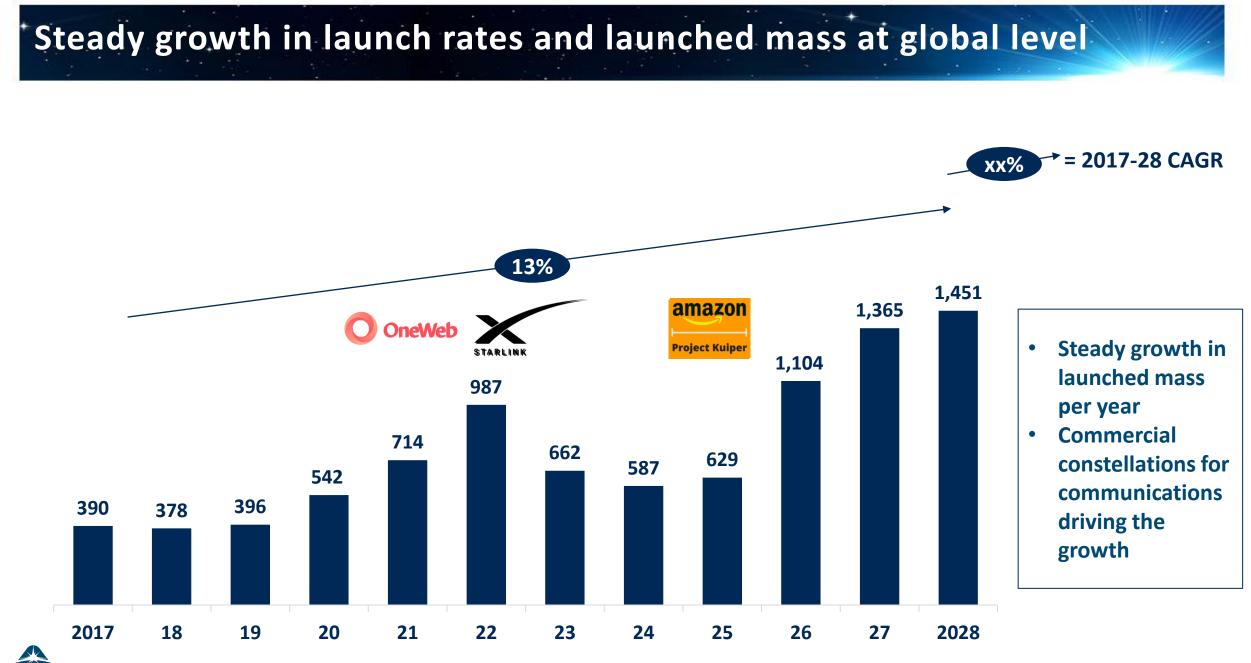
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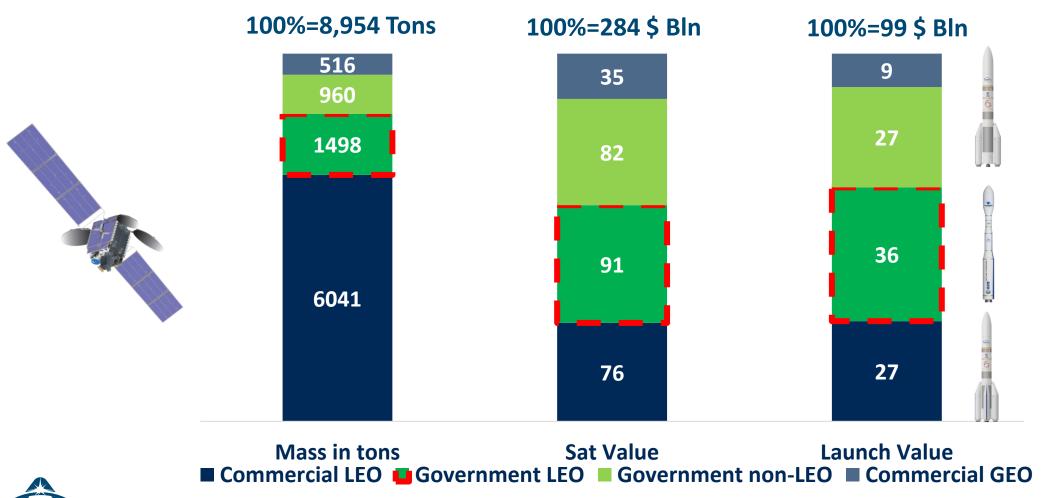




Source : Avio Analysis on Gunter's space Data; Euroconsult

Future launch market value is concentrated on Government LEO sats

2022-2031 Expected satellite market by operator type

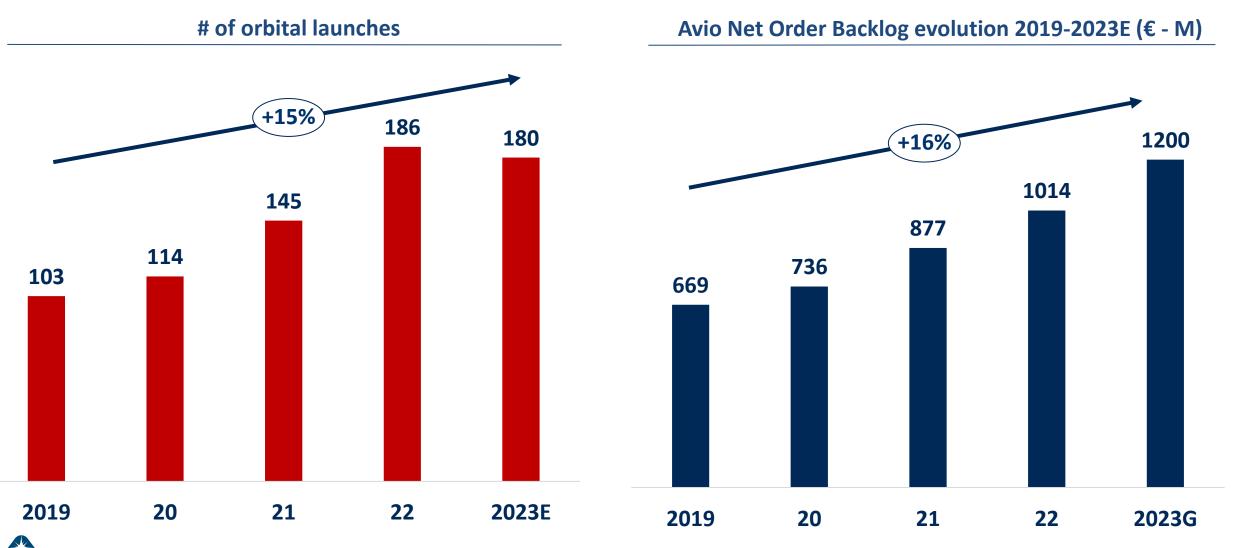


Excludes Academic and niche markets. Source : Avio Analysis on Gunter's space Data; Euroconsult

= Vega C/E

Target market

Evolution of the number of global launches and Avio backlog



2023G = 2023 Guidance



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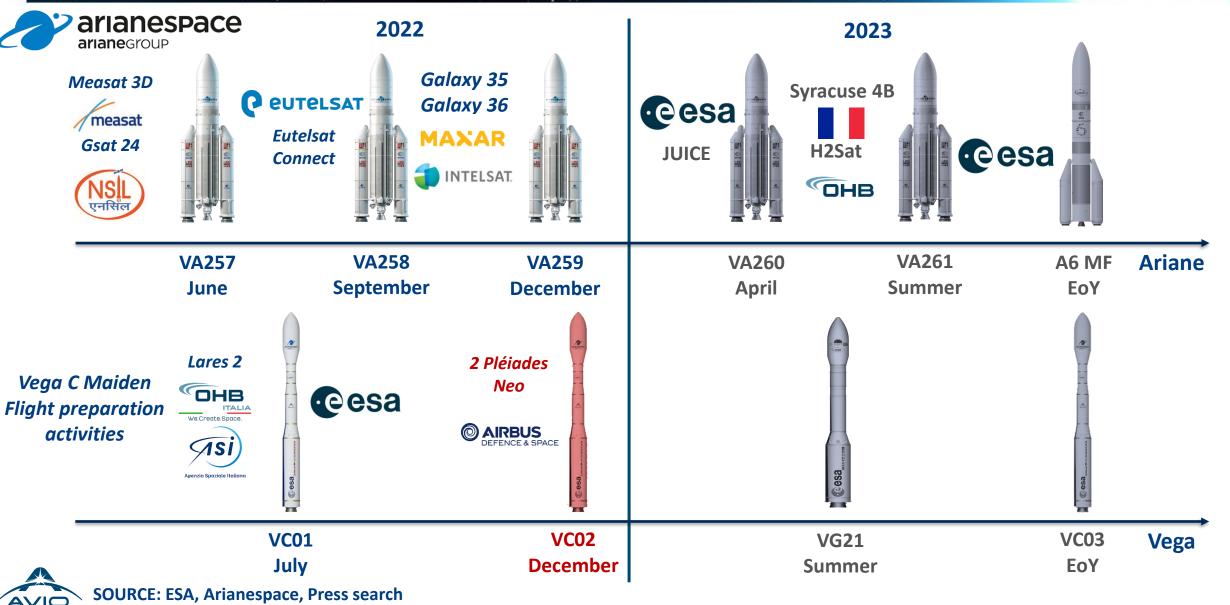
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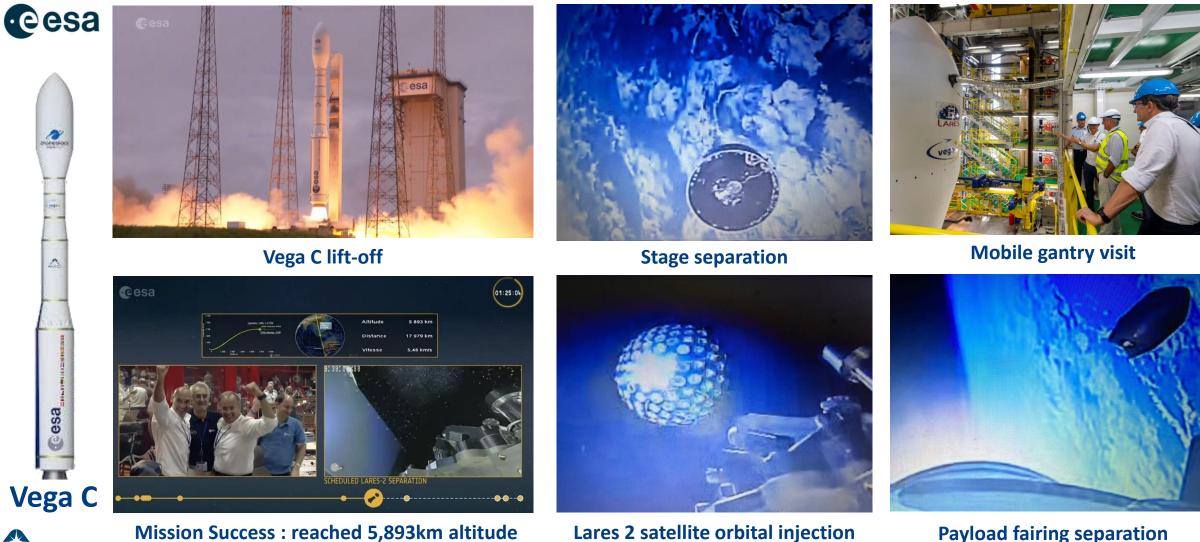
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2022-23 flight schedule



Successful Vega C Maiden Flight : a boost for its commercial appeal





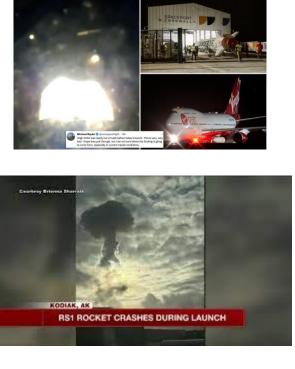
Lares 2 satellite orbital injection

Payload fairing separation

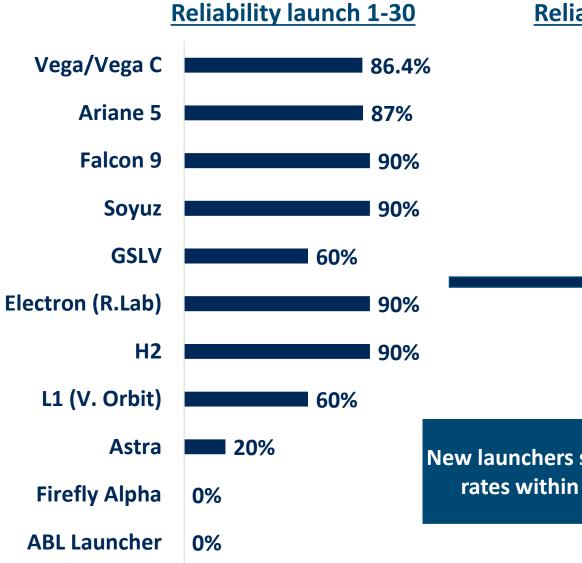
Launchers reach product maturity after ~30 flights

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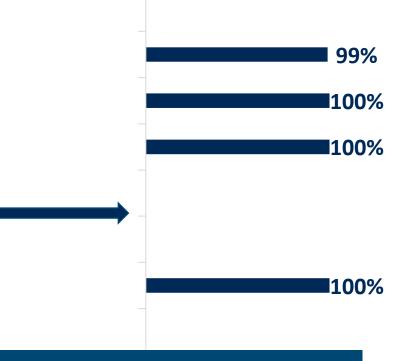
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Reliability launch 30-onwards



New launchers suffered from high failure rates within the first few launches

VC02 anomaly and path to return to flight

Independent Enquiry Commission findings

- VC02 anomaly caused by an over-erosion of the Z40 Carbon-Carbon nozzle throat insert likely due to the inhomogeneity/weakness of the material
- The acceptance criteria used were not sufficient to detect the type of defect. However, **no weakness of Z40 design** has been revealed.
- The launcher Safety System (SAS) behaved nominally
- The failure does not affect the Vega launcher (with uses different material for Z23), which will return to flight by the summer.
- Vega C launcher will return to flight by end 2023 with new C-C material (already ordered and in delivery now), after a static firing test of Z40
- A robust Return-to-Flight plan has been defined by the Commission. The European Space Agency announced a dedicated program to cover costs, funded with ~30M € drawn from available ESA funds
- Risks associated with implementation of RtF plan accounted for within risk provisions in Avio accounts

Nozzle throat

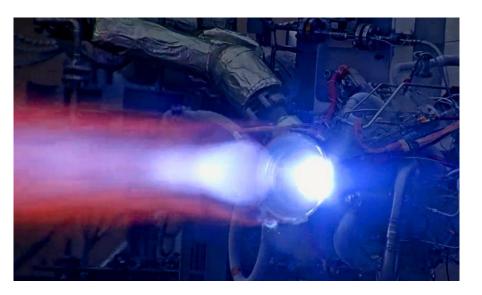




Successful tests of Vega E's M10 : 1st LOX-Methane engine in Europe

Vega E:

- M10 engine first prototype (DM1): first 24 firings completed in summer 2022
- More than 1,300 seconds of cumulative testing, all successful
- Development at completion funded at ESA 2022 MC
- Second set of static firing tests on development model 2 (DM2) in 2023

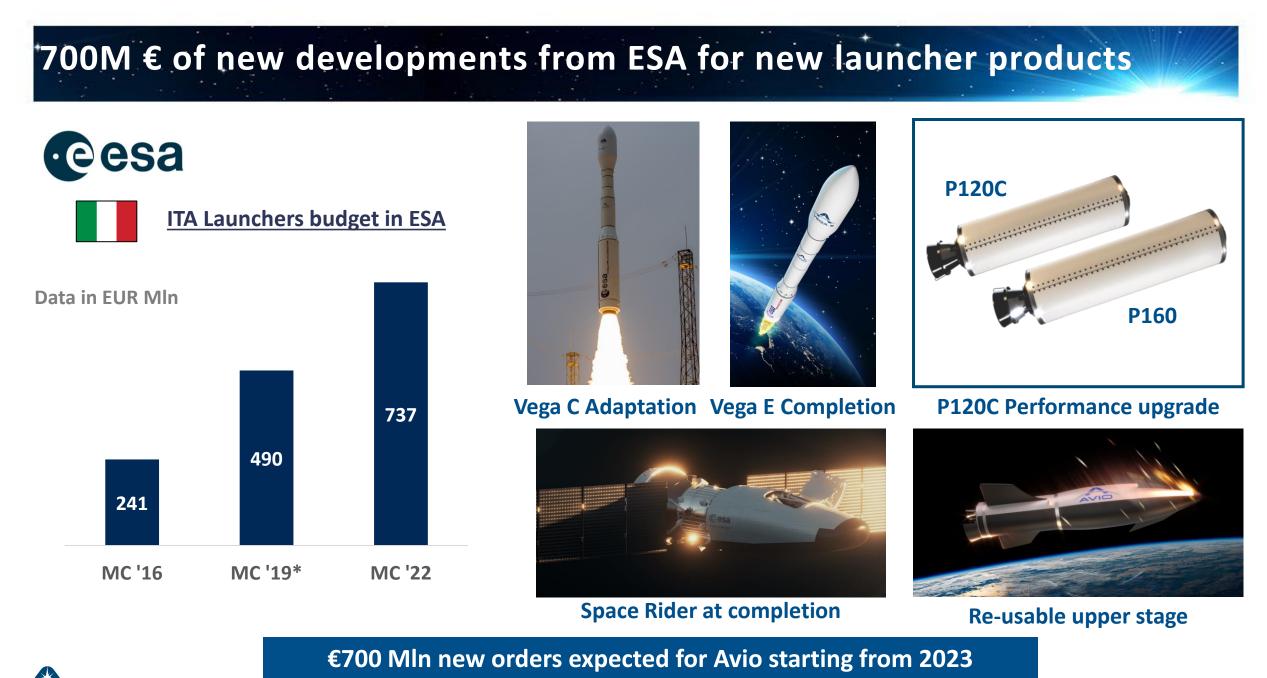




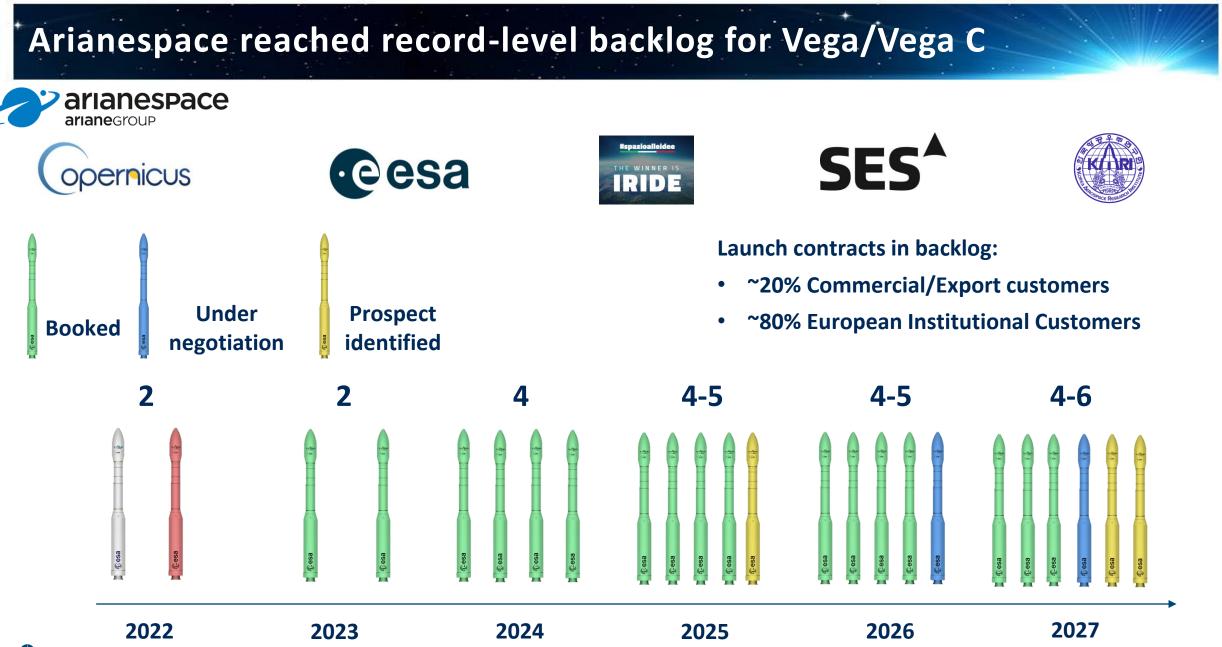




vega-



*As announced at the 2019 ESA MC SOURCE: ESA and ASI





Ariane 6 Maiden Flight slipped to the end of 2023







Ongoing A6 combined tests in Kourou



Hot firing test of the A6 upper stage in Lampoldshausen, Germany, October 2022

ESA-Ariangroup Press Briefing on October 2022 highlighting main upcoming milestones before Maiden Flight:

- Successful completion of Vinci test in Germany

- Successful Vulcain test and combined tests in French Guiana

- System Design review before launch

"Next Gen EU" projects to develop next-gen launcher technology



Space Transportation Systems (STS) : €185 M

- Technological demostrator of a LOX-Methane powered 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

High Thrust Engine (HTE): €100 M

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



Incremental orders in the defense business anticipate further growth

OCCAR

ASTER 30 Booster



Medium-Range Air Defense:

- More than 2,000 units produced to date
- New Production Orders expected in H1 2023 >€ 80 M
- Additional demand in the coming years requiring extended production rate



CAMM-ER SRM

Short Range Air Defense:

 First Production Contract for IT MoD signed in Q1 2023
 >€ 20 M

OCCAR

 Additional opportunities expected to be finalized within FY 2023

Teseo Mk2E Booster



New Anti-Ship Missile:

 Development contract signed in FY 2022 for >€ 10 M

Undisclosed

New Initiatives:

- Research Program ongoing for a new training system
- R&D for innovative propulsion systems for new European Defense Programs

Avio : medium-term opportunities outweigh short-term challenges

Opportunities Challenges Vega C+/Vega E/Space Rider roadmap P120 slower than expected ramp-up in defined and funded at ESA MC 2022 2023-24 due to Ariane 6 delay Vega backlog full until 2027 Vega C Return to flight post VV22 to slow **Robust Ariane 6 flight backlog** ۲ down Vega production for 2023 **Defense business growing** ۲ **Energy prices and inflation volatility** ۲ PNRR unique opportunity to stenghten ۲ continues product/technology base (STS, HTE) for competitiveness in the long term



Net Order Backlog ٠

Net Revenues

EBITDA Reported ٠

- Min €1,150M ۲
- Max €1,250M \bullet
- Min €330M
- Max €350M ۲
- Min €19M
- Max €25M
- Min €2M
- Max €6M

- New orders expected for both development and production
- ESA MC 2022 subscriptions and Italian • **PNRR contracts to turn into backlog**
- New development projects ramp-up (Vega ۲ E, Space Rider, VegaC+, liquid propulsion)
- Enduring impact of inflation and underabsorption of fixed costs due to reduced production
- **Estimated impact of 6M non-recurring** ٠ costs*
- Marginal effect of financial charges and taxation



- ٠
- **Net Income**



Increasing backlog and net cash position **support expectation for double-digit revenue** growth in 2024-27



Market **demand growing more than anticipated** (2X market growth by 2031) in both space launch and tactical propulsion – **full commercial backlog for Vega, Ariane and Aster**



Secured EU and ESA institutional funding support across the decade for both Ariane and Vega development and production support activities



PNRR (Next Gen EU) projects providing additional opportunity for **new strategic technologies and products** focus on **liquid propulsion** to open new markets



Further opportunities coming for **defense and tactical propulsion** systems due to the evolution of the geo-political situation



Improved scenario for energy prices but still challenging for inflation



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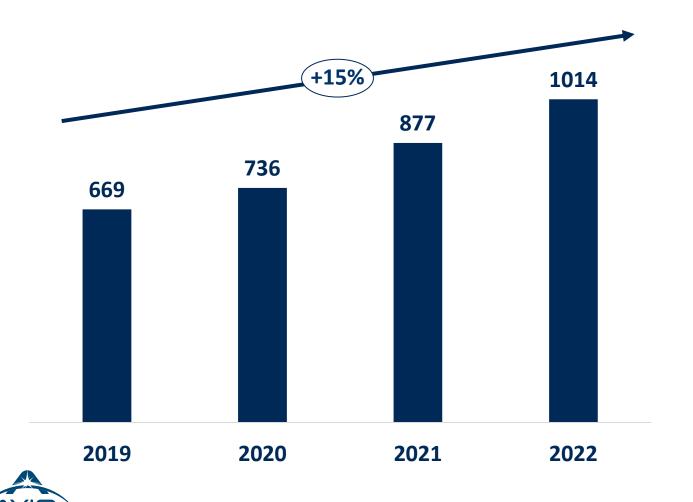
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Net order backlog evolution 2019-2022

Net Order Backlog evolution 2019-2022 (€ - M)



Comments

New contracts signed in 2022 for ~€500M include:

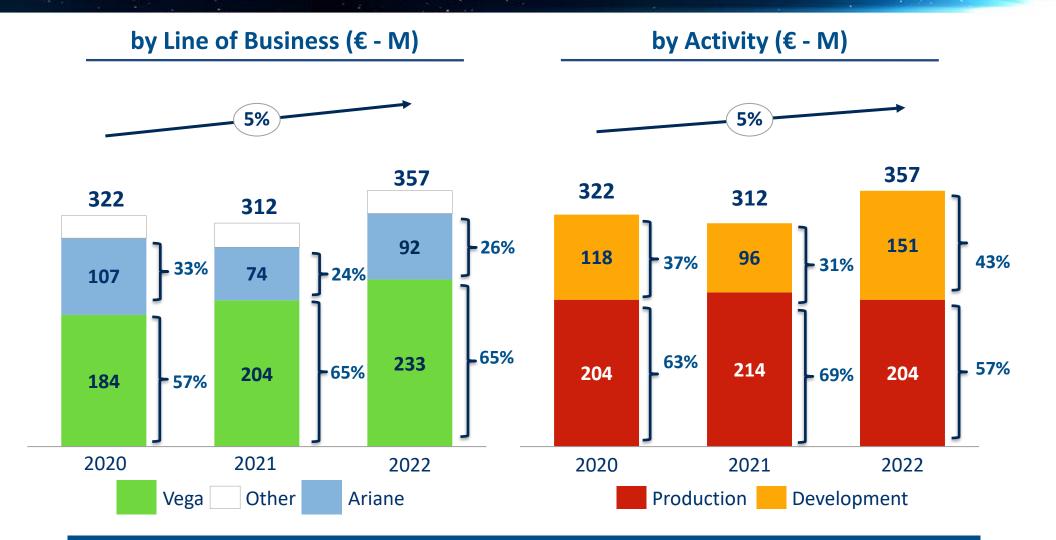
- Vega C Production B4 procurement and improvement program (~€200M)
- Vega C/E Development including PNRR contracts (~€80M)
- P120C production and development (~€100M)
- Tactical production and development (~€50M)

Order intake does not include:

- Next Gen EU/PNRR signed yesterday for >285 € M
- Effects of 2022 ESA Ministerial Council

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Net revenues evolution 2020-2022



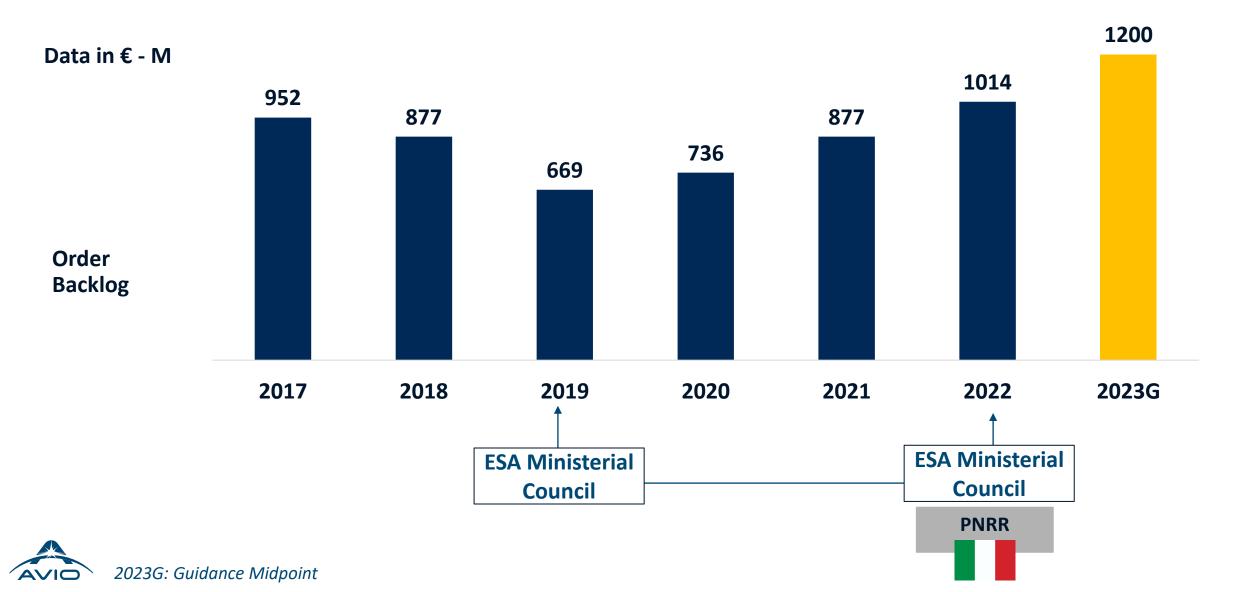
Net Revenues higher than prior year for increase in Vega development and P120C activities, partially offset by lower Ariane 5 Production in phase-out



FY 2022 results vs 2021 and 2020

	FY 2020		FY 2021	MAIN ECONOMICS		FY 2022	2	
N/R _ 8.1	€ - M		€ - M	NET REVENUES EBITDA REPORTED % on net revenues 6.4 EBITDA ADJUSTED % on net revenues	_	€ - M	Comments	
	322,0		311,6			357,3	•	 Increase in revenues driven by development of Vega C, M10 engine for Vega E and Space Rider
	35,2	1	30,0		21,4		EPITDA lower than in 2021 for charp increase in an arrive	
	11,3%	N/R	8,4%			4		EBITDA lower than in 2021 for sharp increase in energy costs and inflation
	43,3	/./	37,7		0.4			NR mainly for Vega C MF extra costs and including a 3,2
	13,9%	l	10,6%					M€ one-off positive contribution ⁽¹⁾
	15,9		8,9	EBIT REPORTED		2,2		
	5,1%		2,5%	% on net revenues		0,6%		
	24,0		16,6	EBIT Adjusted		8,6		
	7,7%		4,6%	% on net revenues		2,4%	•	Decrease in Vega P80 depreciation
	15,4		8,6	PROFIT BEFORE TAXE	S	1,4		
	4,9%		2,4%	% on net revenues		0,4%	•	Net income neutral tax effect
	14,9		9,1	NET INCOME		(1,3	(1) One-off positive contribution resulting from other revenues from settlement of Law 808/85 payables, extraordinary provisions for risks for Vega C return to flight activities and for the	
AVIC	4,8%	2,5%	% on net revenues		0,4%	execution of future programs . Law 808/15 concerns the public financial support for the development of certain projects in the aerospace and defense sector		

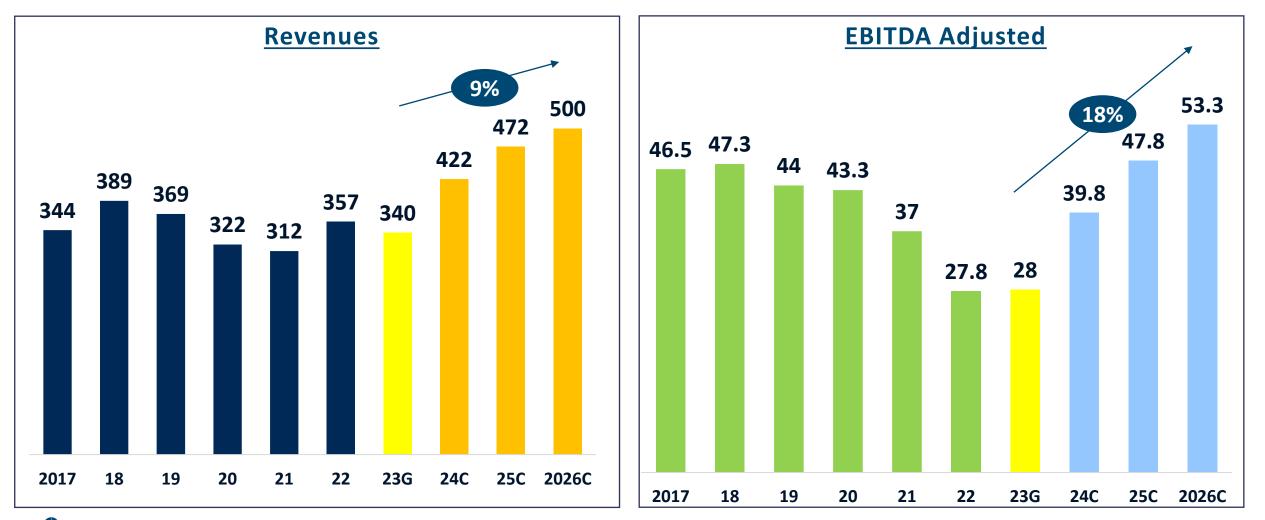
Order backlog historical trend and guidance 2023



Revenues and Adjusted EBITDA historical trend, 2023 Guidance and consensus

Data in Euro Mln

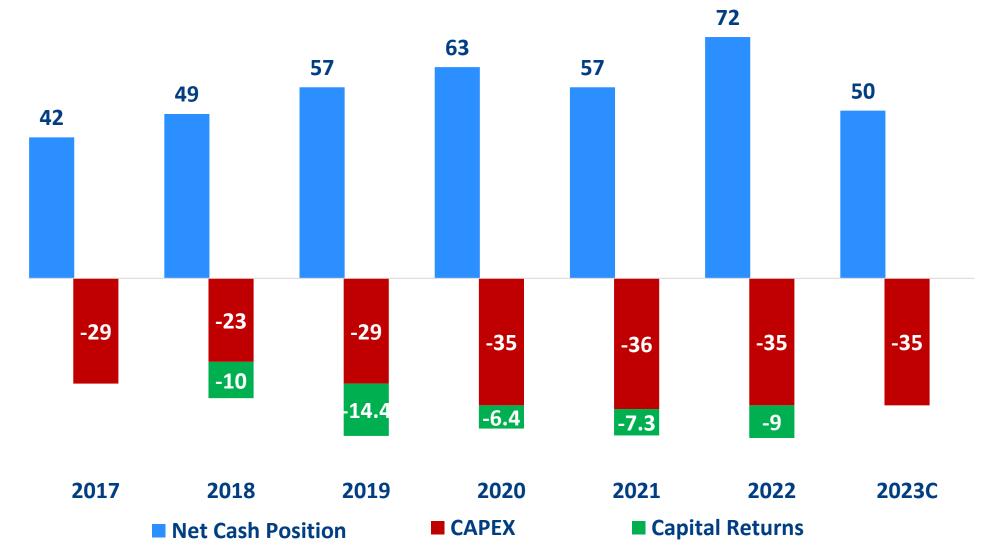
xx% = 2022-26 Exp. CAGR



2023G: Guidance Midpoint;

202XC: Analysts' consensus estimates

Sustained Cash generation for CAPEX and returns to shareholders

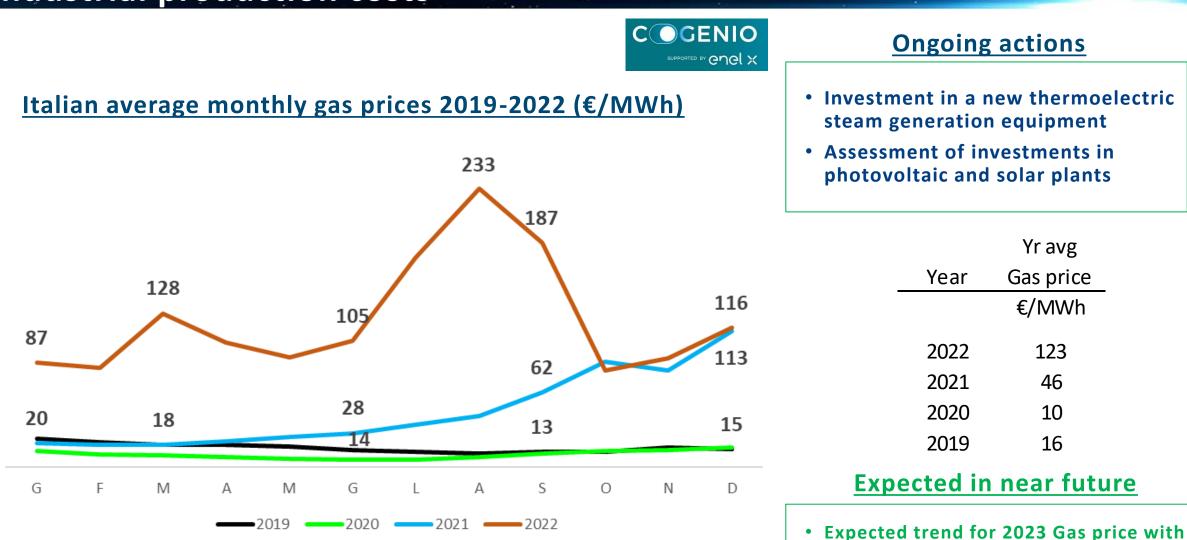








Gas price increase since 2H 2021 with hit in 2022 impacted industrial production costs

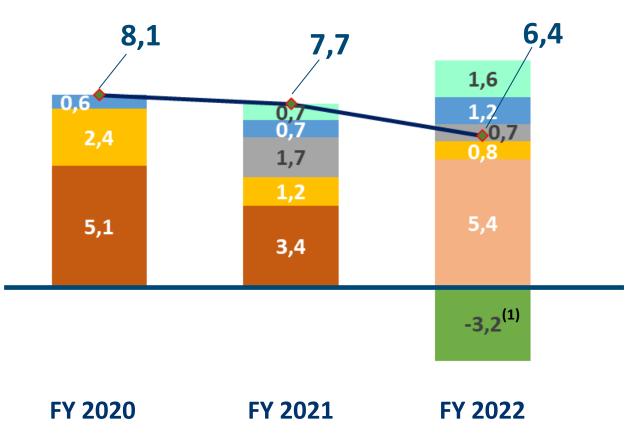


current forecast¹: 55 €/Mwh

Evolution of non-recurring costs

Data in €-M

Non recurring costs by nature



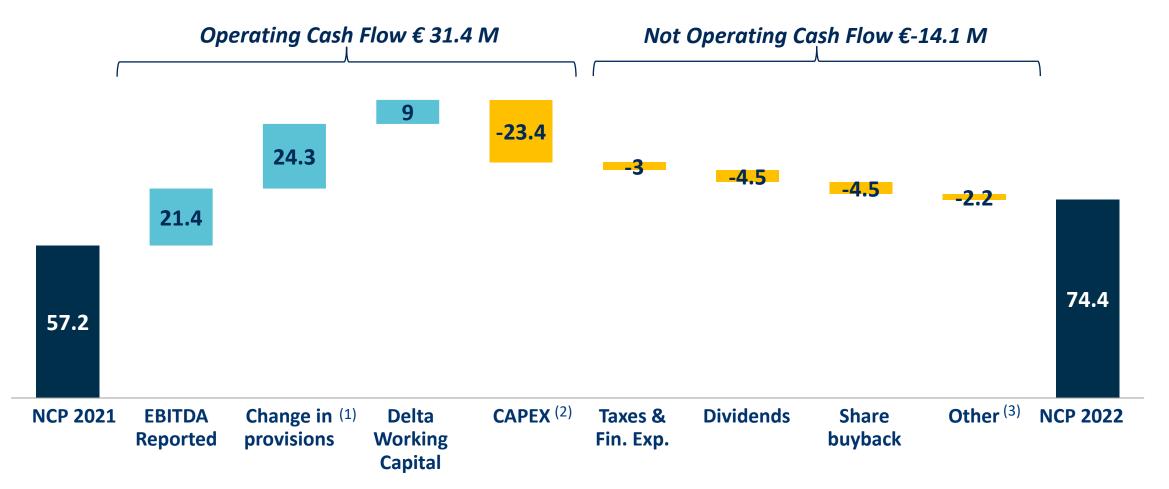




⁽¹⁾ Include one-off positive contribution resulting from other revenues from settlement of Law 808/85 payables, extraordinary provisions for risks for Vega C return to flight activities and for the execution of future programs . Law 808/15 concerns the public financial support for the development of certain projects in the aerospace and defense sector

2021-2022 Net Cash Position bridge

Data in €-M



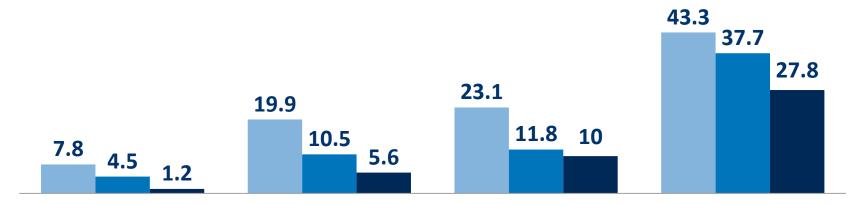
(1) Increase in provisions for extraordinary accruals for risks for Vega C Return to Flight activities (net of expected ESA compensations) and for the execution of future programs

(2) Net of P80 assets offset within settlement of Law 808/85 payables

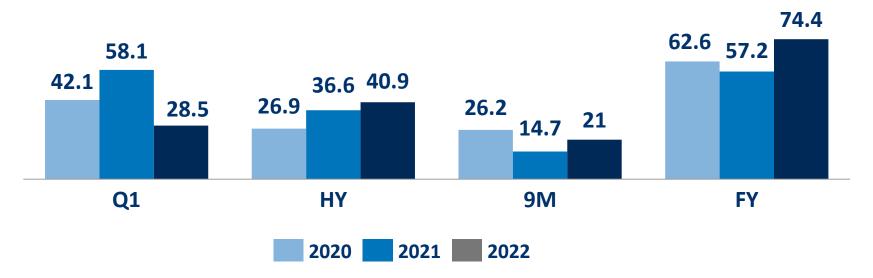


EBITDA and Cash generation heavily concentrated on Q4s

EBITDA Adjusted (€ - M)

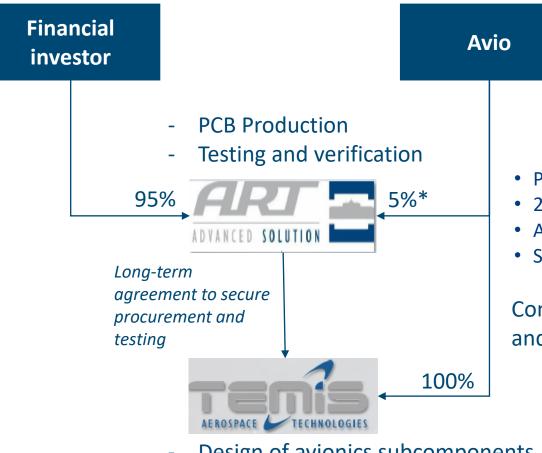


Net Cash Position (€ - M)





Temis & ART deal structure



- Design of avionics subcomponents
- Integration
- Testing and verification



* And one seat in the Board of Directors





- Provider of avionics, on board telemetry and cameras for Vega and Vega C
- 20 employees
- Avio legacy supplier
- Subsidiary of ART Group (active in the sports cars on-board software)

Consideration paid partly in cash and partly using own shares





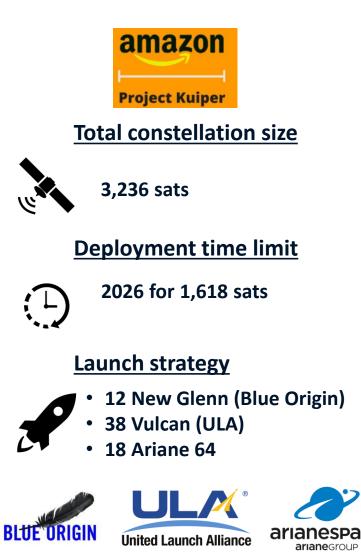


Enabling open-innovation through participation to CDP space startup accelerator

Participation to Turin CDP aerospace start-up accelerator "Takeoff"



Kuiper constellation leveraging also European Ariane 6 for deploying, leading to upgrades and perfo improvement also for the Vega program



Development and production effort



- 18 A64 launches booked, of which 16 with the more powerful • version A64+ with new P160 engine
- Total expected order for Avio of 72 boosters
- P160 development already started thanks to initial ESA funding and production starting in 2024

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