



THE EUROPEAN GATEWAY TO SPACE

Cowen 42nd Annual Aerospace/Defense & Industrials Conference
February 10th, 2021

Giulio Ranzo – Avio CEO

Disclaimer



This document has been prepared by Avio S.p.A. ("Avio" or the "Company"). This document might contain certain forward-looking statements that reflect the Company's management's current views with respect to future events and financial and operational performance of the Company and its subsidiaries. These forward-looking statements are based on Avio's current expectations and projections about future events. Because these forward-looking statements are subject to risks and uncertainties, actual future results or performance may differ materially from those expressed in or implied by these statements due to any number of different factors, many of which are beyond the ability of Avio to control or estimate. You are cautioned not to place undue reliance on the forward-looking statements contained herein, which are made only as of the date of this presentation. Avio does not undertake any obligation to publicly release any updates or revisions to any forward-looking statements to reflect events or circumstances after the date of this presentation. Any reference to past performance or trends or activities of Avio shall not be taken as a representation or indication that such performance, trends or activities will continue in the future. This document does not constitute an offer to sell or the solicitation of an offer to buy Avio's securities, nor shall the document form the basis of or be relied on in connection with any contract or investment decision relating thereto, or constitute a recommendation regarding the securities of Avio.

This document may not be reproduced, redistributed or published in whole or in part without Avio's authorization.

Avio: a pure player in Space launchers





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



1,000 350 € Mln Mkt Cap **Employees**

65% 4% Free Float

Mgmt Share

NEW 2021-22









European light launcher (1.5 tons in LEO) **Avio: System integrator**

A public company managed by a team of investors



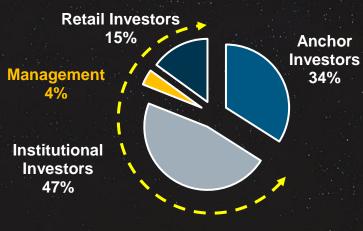


Milan Stock Exchange

Ticker: AVIO.MI – ISIN: IT0005119810

70 Avio managers

Avio shareholders' breakdown



~65% free float

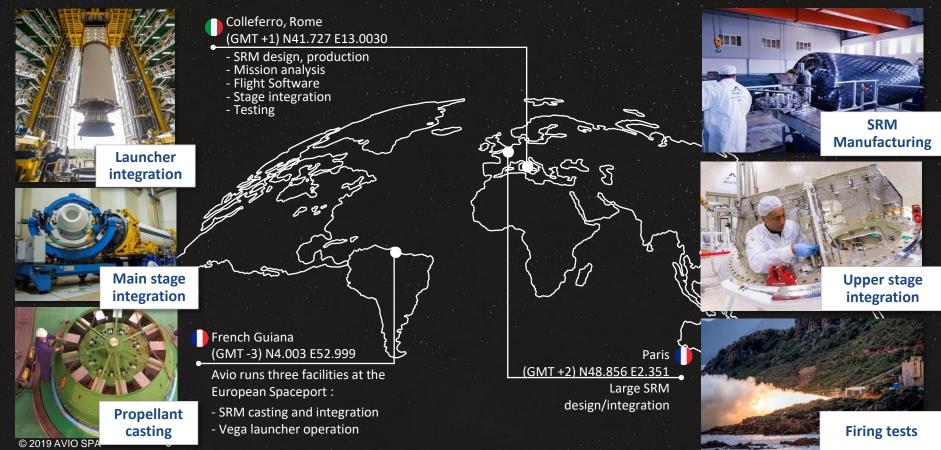
50 years of track record in Space launch



Ariane 1-3 Vega **Ariane 4** Ariane 5 Vega Space Vega E Vega C Ariane 6 **Ammunitions** Separation 9.5 ton 230 ton launch light Rider boosters motors boosters system 1912 1968 1990 2003 2012 2021-22 2025

Industrial operations in Europe and French Guyana





The launch segment: the gateway to the Space economy



Global space value chain (2019)

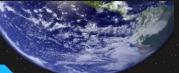












Launch^(1,2) \$ 4.9bn

Satellites \$ 12.5bn

Ground⁽³⁾ \$ 130.3bn Services^(2,4) \$ 123bn

End users

Government \$ 95bn



ULM

NORTHROP GRUMMAN



isro

Orbital ATK

SPACEX



ThalesAlenia















































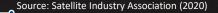






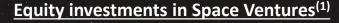


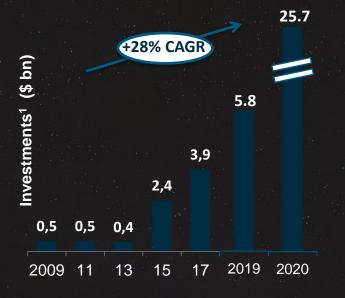




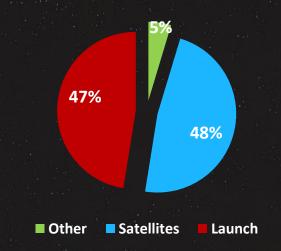
The Space industry is mobilizing significant investment, half of which in the launch segment







Breakdown of cumulated 2009-2019 investments by sector (% of 26\$ Bn)

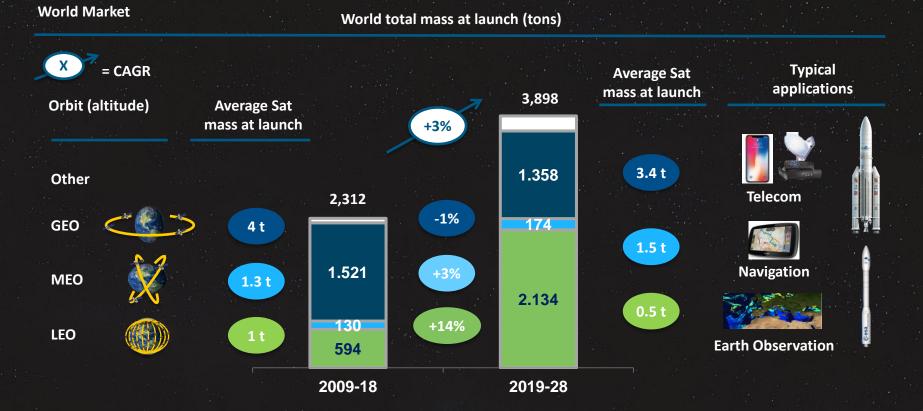


IPOs and Space Investments Newsflow

- IPOs of Space Companies:
 - Avio (2017)
 - Virgin Galactic (2019)
 - Momentus (2020)
 - Astra (expected in 2021)
- Space-focused Public Equity Investment Funds (ETFs):
 - Procure Space UFO (2018)
 - Ark Invest fund (announced)

Space launch demand growing fast in the LEO segment

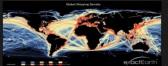




Innovative services driving strong demand growth for LEO orbit



Infrastructure & **Transportation**



- **Investors & financial analysts** (Quant, Commodity)
- **Intelligence analysts**
- **Customs & Border agents**

ICEYE



Environment & Climate



- Farmers
- **Insurance companies**
- Meteorological agencies
- Civil Protection agencies

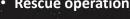




Security & Intelligence



- Defense
- Intelligence agencies
- **Rescue operations**







- Direct broadband connectivity for remote areas in the globe
- Retail (Starlink, OneWeb, Kuiper) and corporate/industrial (Telesat) customers



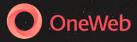






amazon project kuiper





Overview of Galileo and Copernicus programs





Navigation

- **GNSS (Global Navigation** Satellite System) civil system
- 26 operating satellites + 4 spares
- **Positioning: MEO Orbit**
- Satellite mass: 675 kg
- 6 launches for Ariane **6.2** already contracted



Connectivity constellation

- EU independent LEObased broadband constellation
- Reliable, secure and costeffective communication and high speed for governments and businesses
- Services expected from 2025-2030 Ariane 6

Earth Observation



- **Earth Observation** costellation of the **European Union**
- **Positioning: SSO Orbit**
- Satellite mass: 1,000<- >2,000 kg
- >20 further Sentinel satellites expected to be launched in orbit by 2030

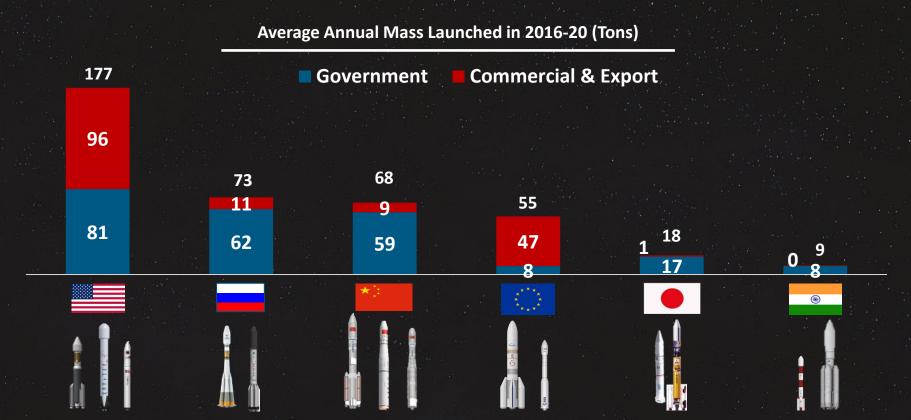




Additional funding expected of ~€15 Bn by the European Union in the 2021-27 Budget to support Galileo and Copernicus

European launchers well positioned in the global commercial market





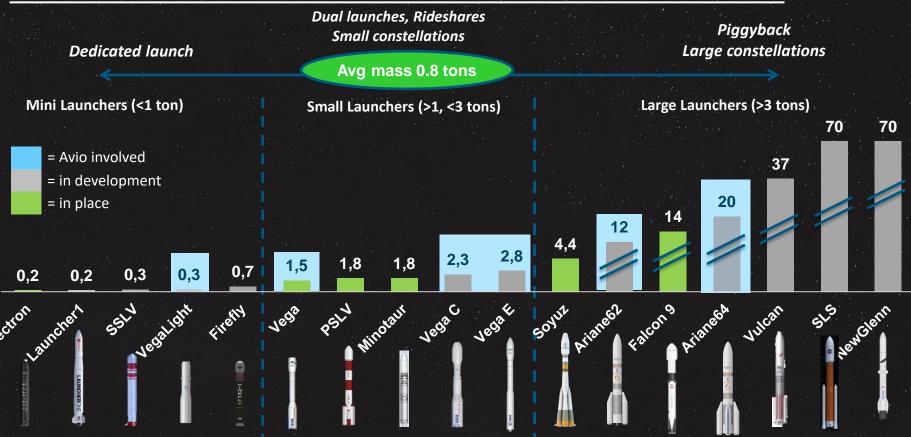
Ariane and Vega: a global customer base





Avio's products well positioned in the launch competitive arena





© 2019 AVIO SPA

European Launch capabilities evolving to meet demand





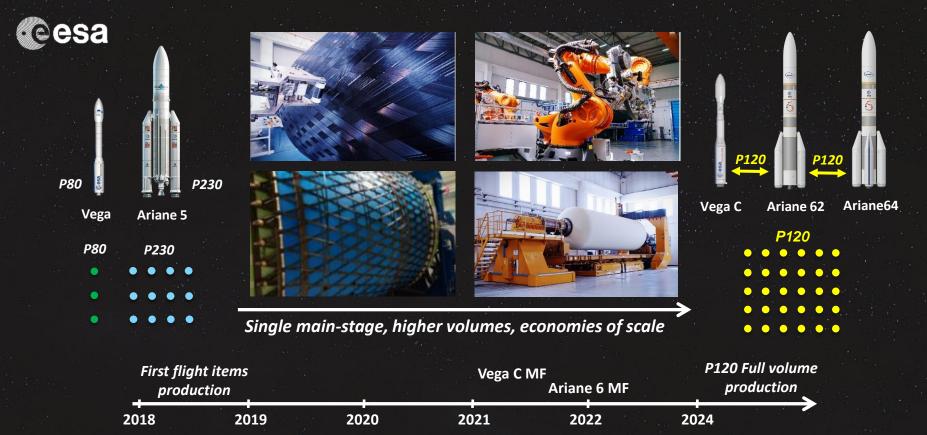
reduction

track record

further cost reduction

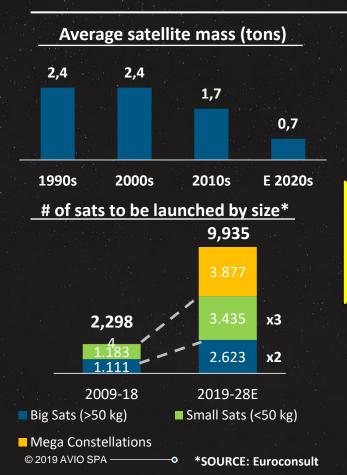
Automation and standardization, cost reduction





SSMS mission to unlock a growing market for Vega





SSMS Vega solution

- Qualified SSMS as a new standard for smallsat rideshare
- Delivered to Space 53 satellites from 21 customers
- Sat mass from 1 to 150 kg
- Released on two different orbital planes (1st time)
- New customers on SSMS-derived hexagonal plate to "complete" available space on next VV18

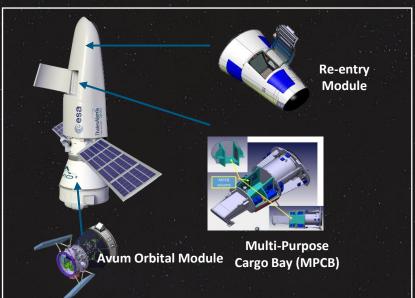




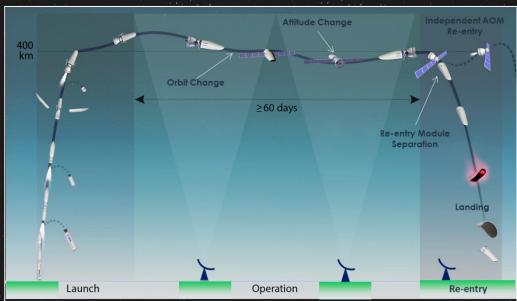
Space Rider: orbital and re-entry vehicle



Space Rider Configuration



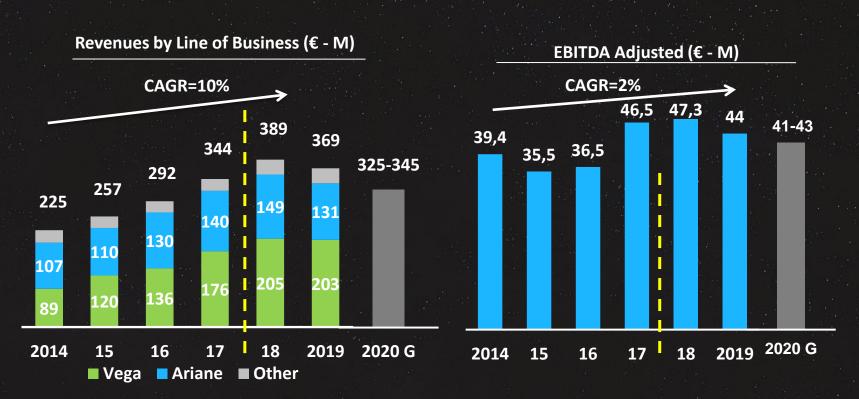
Typical Mission Profile



- Provides **highly customizable recoverable and reusable orbital space laboratory** for
- Microgravity, Earth Observation, Science, Research, Robotic exploitation
- Launched on Vega-C ranging from equatorial to SSO orbits
- Performs in-orbit PL operations, de-orbits, re-enters, lands and re-flies after limited refurbishment

Growing Revenues and EBITDA

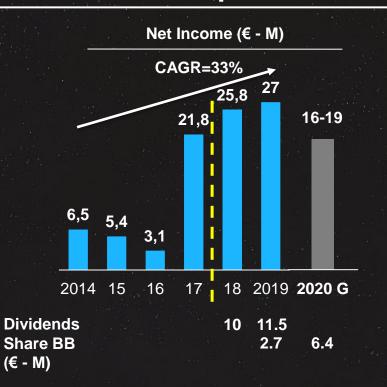




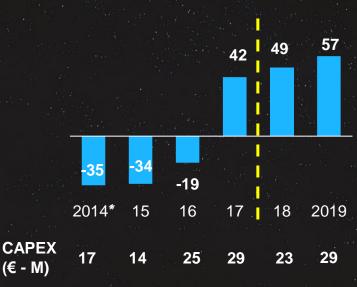
© 2019 AVIO SPA -

Growing Earnings and Cash supporting dividends and capex









^{*}Pro-forma to account for extraordinary dividend financing

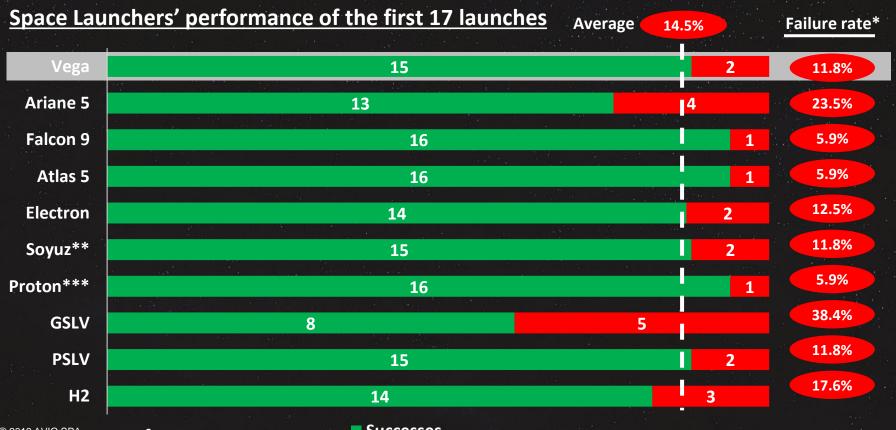


THANK YOU

avio.com

Vega failure rate in line with the market

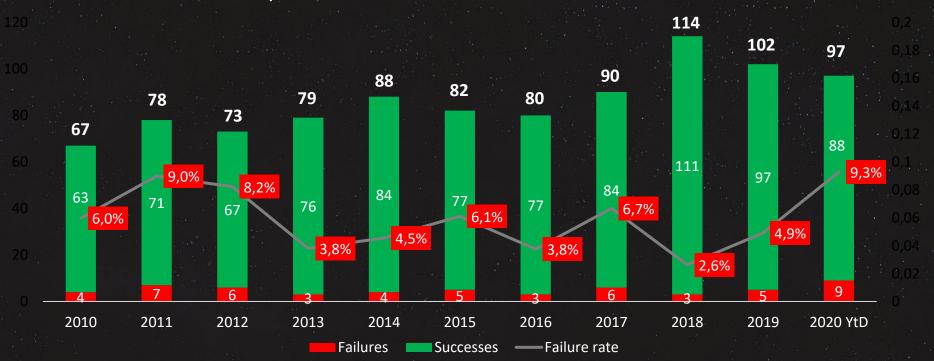




Space launchers worldwide show an average 6% failure rate

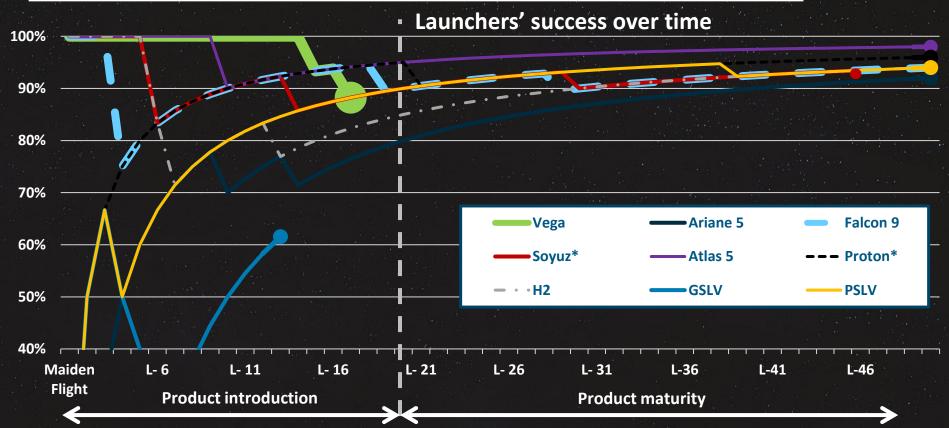






Growing Earnings and Cash supporting dividends and capex

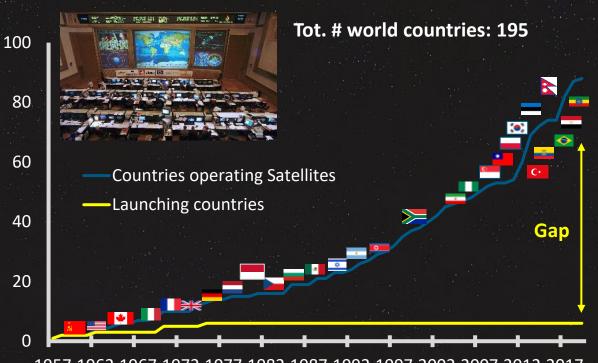




Increasing gap between launch demand and supply



of Countries





1957 1962 1967 1972 1977 1982 1987 1992 1997 2002 2007 2012 2017