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Avio: a European leader in Space Launch





- 50 years in Space Launchers
- Vega (light launcher) Prime Contractor
- Ariane (heavy launcher) Partner/Supplier
- 900 employees, 340 M€ revenues
- 300M€ Market Cap (AVIO.MI)
- >65% free float, no controlling shareholder
- 4% Management share



Launch is the upstream part of the Space industry

Global space value chain (2017)













Launch industry^(1,2) \$ 4.6bn

Satellite manufacturing \$ 15.5bn

Ground Segment⁽³⁾ \$ 119.8bn

Satellite services^(2,4) \$ 128.7bn

End users

Government \$ 79.3bn











































































Source: Satellite Industry Association (2018)

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

(4): Includes commercial humanflight 4



Space launch has three main sub-segments by type of orbit



GEO - Geostationary Earth Orbit

Altitude 36,000km







Annual avg volume: 30 launches, 160 tons





Mature market

MEO - Medium Earth Orbit

Altitude 3,000-22,000km



Annual avg volume: 12 launches, 19 tons



Niche market

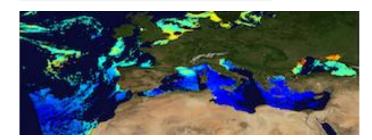
LEO - Low Earth Orbit

Altitude 500-2,000km





Annual avg volume: 55 launches, 60 tons

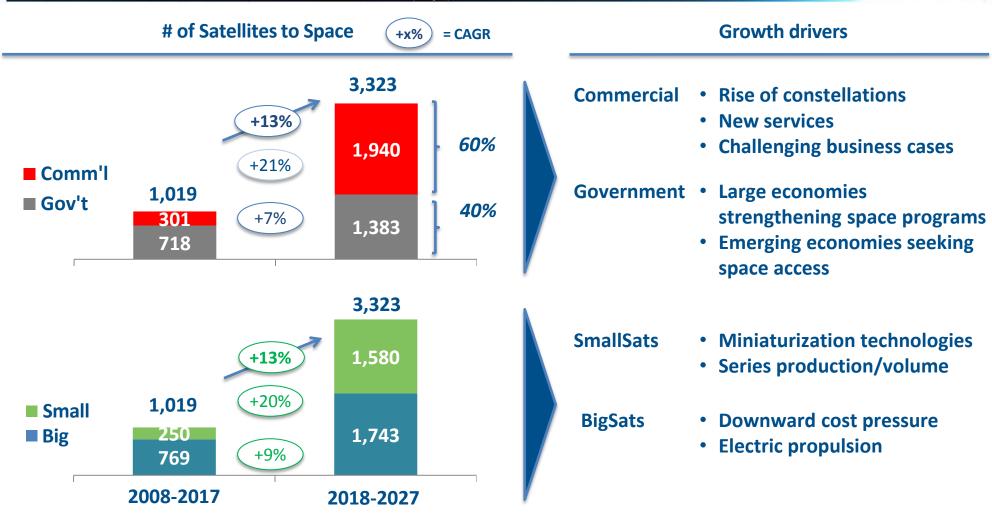


Booming demand



The number of satellites to be launched grows double digit





Source: Avio estimate on Euroconsult data

 $Note: Commercial\ demand\ excludes\ One Web\ and\ Starlink\ constellations,\ amounting\ to\ over\ 5,500\ sats.\ Sats<50\ kg\ also\ excluded.$

Small Sats < 500 kg; Big Sats > 500 kg

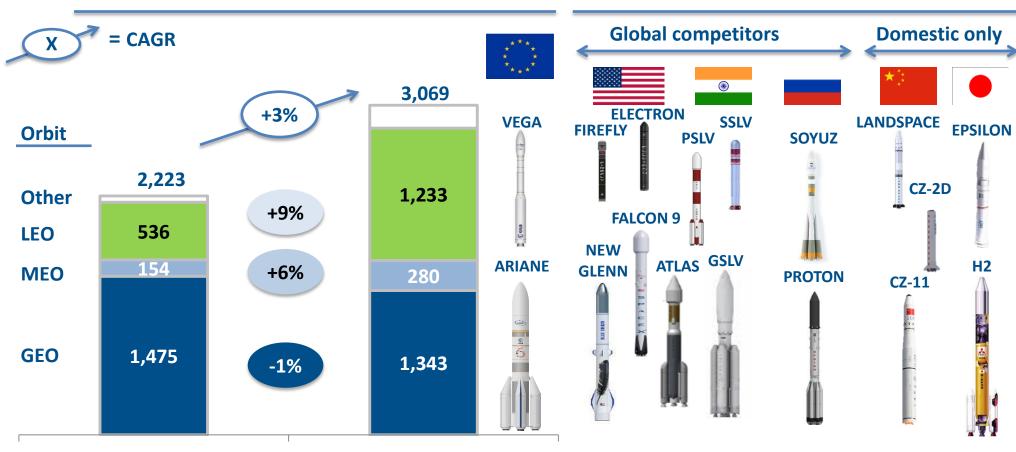


Demand requirements and product offer sides both evolving



Total mass at launch (Tons) - World market

Launch service offering – World Market



2008-2017

2018-2027

Source : Avio estimate on Euroconsult data



Avio works across the full spectrum of the European offer side

Avio activity by main product lines

Ariane 5 - Heavy launcher (Avio Industrial partner) 40% of Revenues



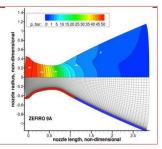
Vega - Light launcher (Avio Prime Contractor) 55% of Revenues



Avio activity by type of business

Research& **Product Development**

30% of Revenues





Propulsion and Launcher **Production**

70% of Revenues











European Launcher offering evolving to meet market demand



Key Perf Data

10.5 tons in GTO

1.5 tons in LEO

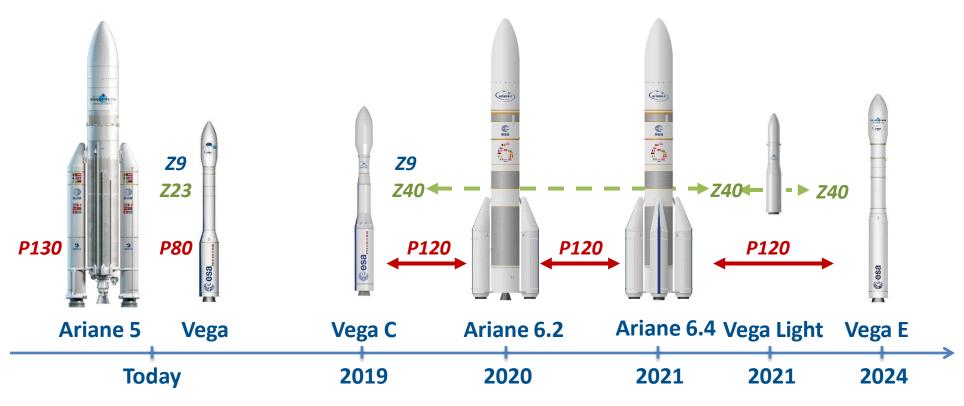
2.3 tons in LEO

>5 tons
in MEO/LEO/GEO

11 tons in GTO

TBD in LEO

2.8 tons in LEO



From 4 main stage motor types...

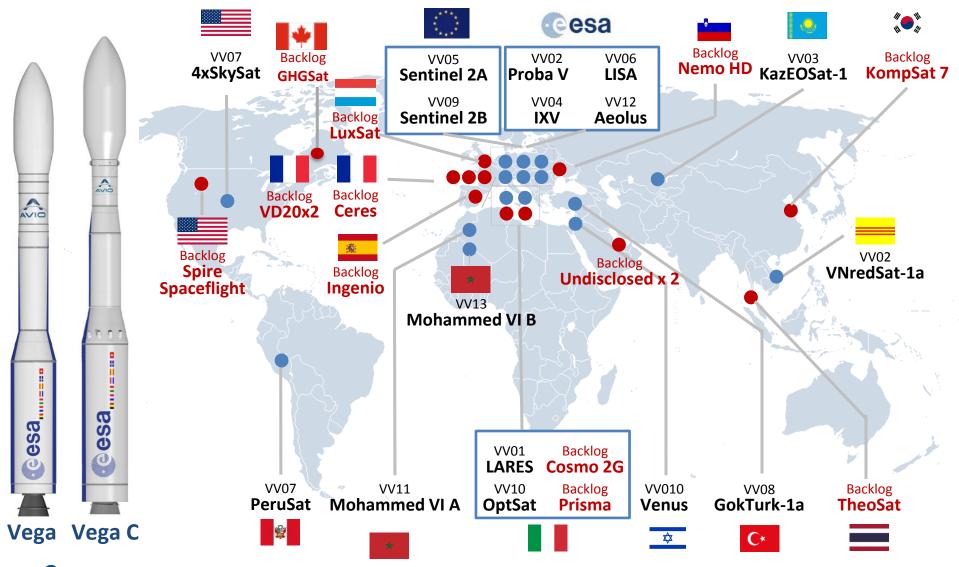
broader and more specific product offering

fewer industrial platforms

From 2 main stage motor types...



Global customer base for Vega since its 2012 maiden flight





Main production facilities in Colleferro, Italy



Booster Case Facilities



P120 filament winding



Interstage manufacturing



Nozzle Production



Upper stage integration



Avio prepreg tow (patent)



Main Plants at the spaceport in Kourou, French Guiana









Mobile Gantry
Launcher Integration



EUP – Stage Integration



Regulus – Propellant casting



Development and Testing activities



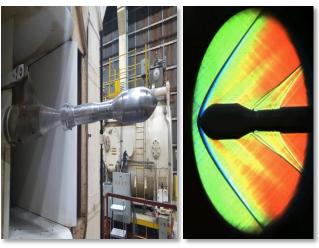
P120 Static Firing Test (July 2018, Kourou)







Z40 Static Firing Test (March 2018, Sardinia) Firing test of Vega E M10 prototype engine



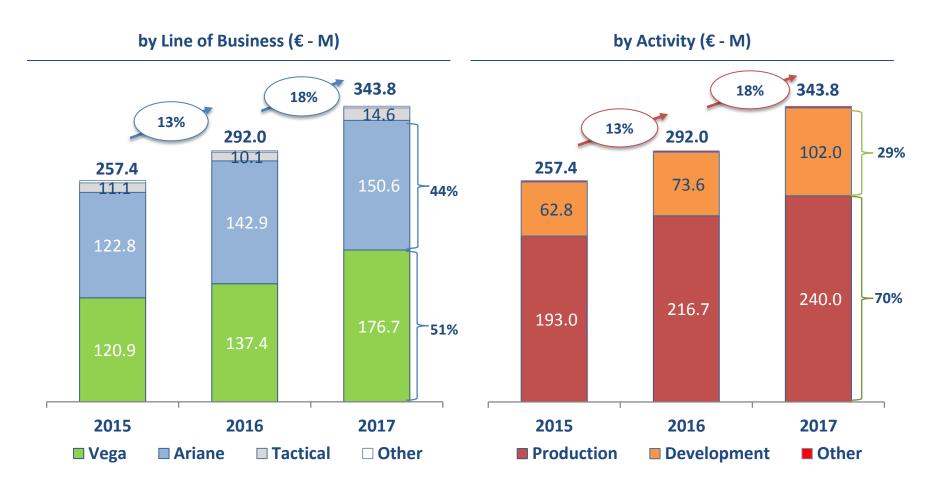
Wind Test Tunnel for Vega C



Vega C systems vibration test



Net Revenues FYs 2015-2017



Vega production increasing

Development activity increasing



Economic Highlights FYs 2015-2017

MAIN ECONOMICS	FY 2015	FY 2016	FY 2017*	CAGR	
€ - M	€ - M	€ - M	€ - M	%	Comments
BACKLOG	905.4	775.1	952.1		Cyclical order backlog ~3yrs visibility
NET REVENUES	257.4	292.0	343.8	16%	Increase in both production volumes and development activities
EBITDA	27.9	26.9	39.2	19%	Non-recurring costs in 2016 to support listing
% on net revenues	10.8%	9.2%	11.4%		process
EBIT	10.5	13.2	25.0	54%	EBIT structural improvement in 2016 after
% on net revenues	4.1%	4.5%	7.3%		completion of Vega development depreciation
NET INCOME	5.4	3.1	21.8	101%	Tax and debt structure changes in 2015 and
% on net revenues	2.1%	1.1%	6.3%		in 2017

^{*} Pro-Forma figures to compare on a "like-for-like" basis the 2017 with previous years financials, following the business combination which led to the listing of the Company in April 2017



Sources and Uses FYs 2015-2017

	31 DEC	31 DEC	31 DEC	
MAIN SOURCES AND USES	2015	2016	2017	
	€ - M	€ - M	€ - M	Comments
WORKING CAPITAL	(50.0)	(78.2)	(75.9)	Working capital structurally negative
TANGIBLE ASSETS	122.4	137.8	156.2	
INTANGIBLE ASSETS	245.5	241.4	103.5	New goodwill and CRA defined post business combination
DEFERRED TAX & FIN. ASSETS	63.3	63.5	83.9	
EMPLOYEES' BENEFITS AND PROVISIONS	(38.3)	(35.8)	(27.2)	Liquidation of one-off incentive plan upon listing
NET INVESTED CAPITAL	342.9	328.7	240.5	-
NET FINANCIAL POSITION	(34.1)	(18.6)	41.7	Improvement in NFP following the business combination
EQUITY	(308.8)	(310.1)	(282.2)	
TOTAL SOURCES	(342.9)	(328.7)	(240.5)	-



9M 2018 economic and financial highlights

9M 2017 ACTUAL (1) € - M	MAIN ECONOMICS/ FINANCIALS	9M 2018 ACTUAL € - M	Delta € - M	Delta %	Comments
228.4	NET REVENUES	261.5	33.1	15%	 Growth mainly for Vega C development activities
17.8	EBITDA	22.5	4.7	27%	• R&D tax credit 2018 to be
7.8%	% on net revenues	8.6%			assessed at year end on the
7.0 3.1%	EBIT % on net revenues	12.3 <i>4.7%</i>	5.2	75%	 basis of actual progress achieved on development activities Non-recurring costs reduced
31 DEC 2017 ACTUAL		30 SEP 2018 ACTUAL	Delta	Delta	by 60%
€ - M		€ - M	€ - M	%	
41.7	NET FINANCIAL POSITION	48.7	7.0	17%	 Improved on 2017 Year End thanks to operating cash flow

^{(1) *} Pro-Forma figures to compare on a "like-for-like" basis the 9M 2017 with 9M 2018, following the business combination which led to the listing of the Company in April 2017



Appendix



An important heritage of corporate evolution

2017

1994 - 2003

2003 - 2015



1968 - 1990

₽FiatAvio

Avio

THE CARLYLE GROUP

Private Equity

Financial focus





Public Company Space Launchers

1912 - 1967



Industrial

group

(listed)

Chemicals

focus

group (listed) focus





2 entrepeneurs (and Senators) **Defense focus**



50 years in Space Launchers



1965 – Europa 7 launches



1976 Alfa Missile 3 launches



1979 - Ariane 1 11 launches



1984 - Ariane 2 6 launches



1986 Ariane 3 11 launches



1988 - Ariane 4 104 launches (16/year)



1996 - Ariane 5 100 launches (6/year)



2012 - Vega 13 launches (2-3/year)



2019 – Vega C (4-5/year)



2020 - Ariane 6 (11/year)



Avio is part of the EU critical space infrastructures also through partnership with Ariane Group





- Solid rocket motor design, production
- System activities, mission design
- Flight Software Factory
- Liquid propulsion design, production,
- Stage integration (Vega)
- Test center



Turin

 LOx&LNG turbo-pump design, manufacturing and assembly

Paris

 Management and design of SRM for development and production programs

manufacturing and testing



Airola

Carbon Epoxy Prepreg



Gantry)

* 40% Ariane Group, ** 50% Ariane Group AVIO SpA- All rights reserved – subject to the restrictions of last page.

Solid rocket motor casting (Regulus – 60% Avio*)

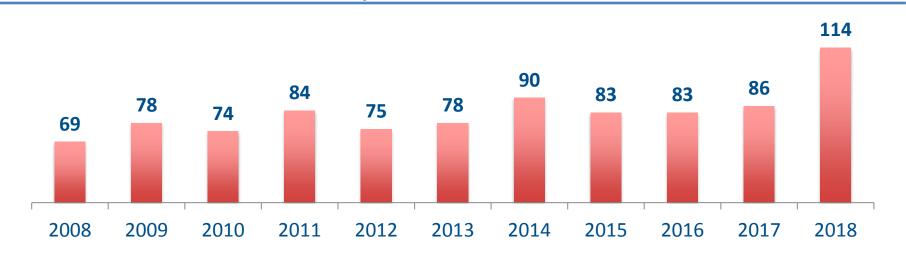
and integration (Europropulsion - 50% Avio**)

Vega integration and launch operations (Mobile

Space launches grow at 5% CAGR, with few countries having launch technology

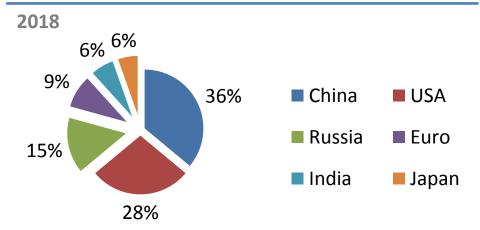


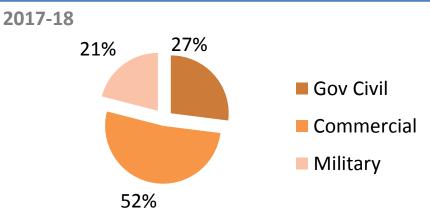
2008-2018 Total # of Space Launches Worldwide - CAGR 5%

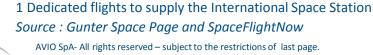


Space Launches by launch country

Space Launches by customer type







Smallsat growing demand is fueled by the increasing need for advanced telecom and remote sensing services

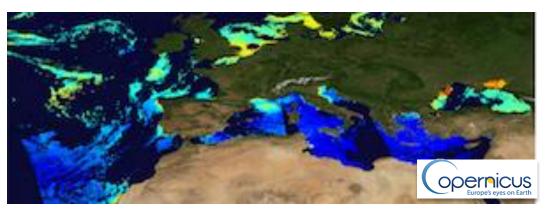






planet. Held-level detail

Satellite telephone communication





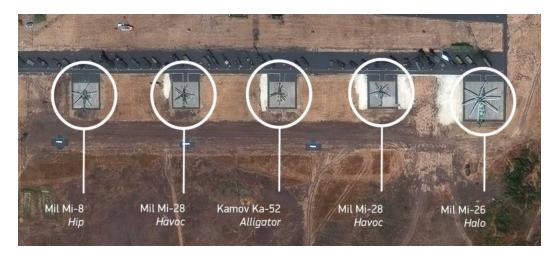
Mediterranean Sea temperature monitoring

Crop vitality monitoring



Satellite imaging is creating a new «insights economy» to support civil, military and commercial needs





Military Airfield monitoring

planet.

Welcome to the insights economy

Make informed decisions for the places you care about

Watch THE VIDEO ©

Towns Markets Gallery Company Blog

Enlinated Anguett 225 metric ton Current Markets (S4 Ab) (per to Destinated Viduet \$2.2.278 USD)

19 20 21 22 23 24 25 November 2017

Metric Tons Thermal Coal

Coal production monitoring

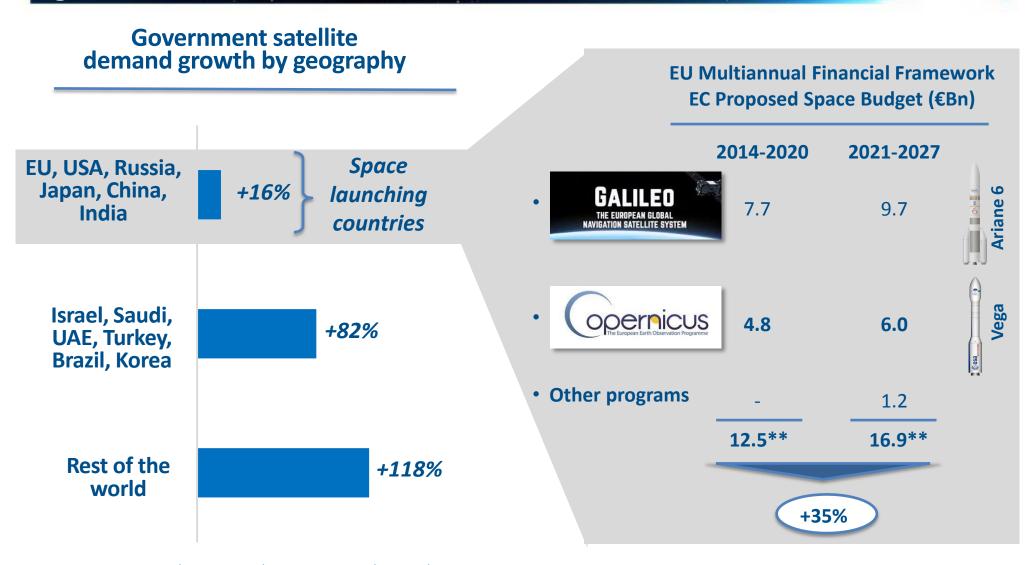


Damage assessment: Post-earthquake view



Incremental opportunities from growing domestic government demand in EU



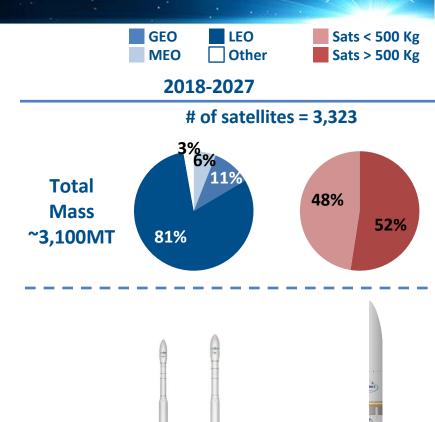




^{*} Ariane 5 has double launch capacity in GTO, unlike most other launchers

^{**} Current prices

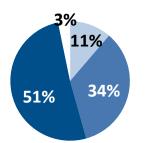
Avio's long-term industrial strategy

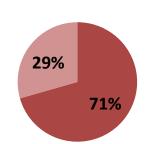




of satellites = 1,019

Mass ~2,200MT

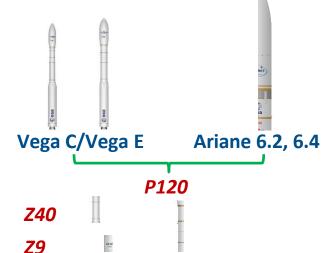




Product offering

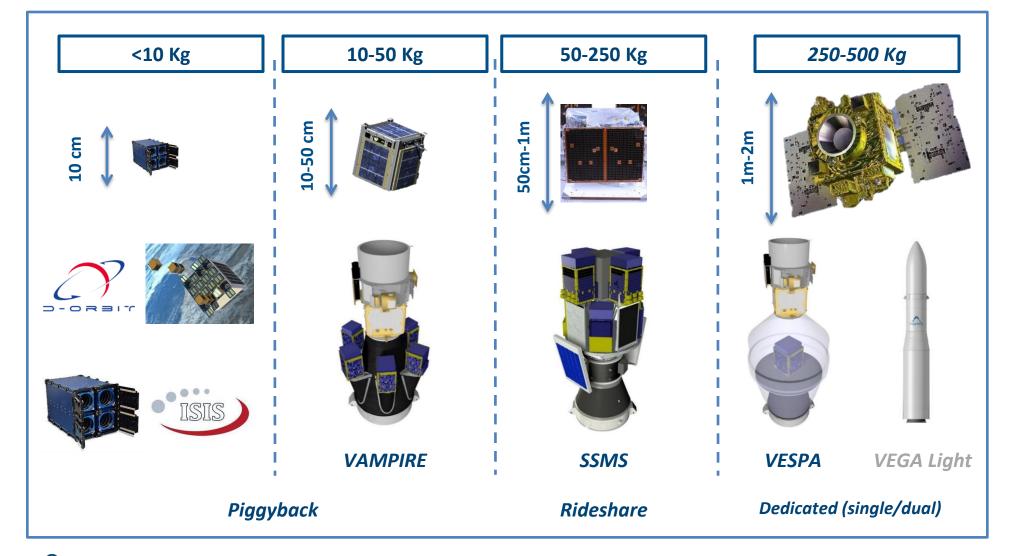
Industrial platforms







Vega now also re-tooled with adapters to meet all sub-segments of demand for piggy back, rideshare or dedicated launch





Vega C competitiveness generating positive market momentum – recent commercial achievements



Vega and Vega C future launches



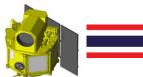


- 4 satellites
- 2 Launches in 2020 and 2021



- COSMO SkyMed satellite
- Launch in 2021





- Thailand's THEOS-2
- Launch in 2021





- NAOS satellite for Luxembourg and NATO
- Launch in 2021







- South Korean Space Agency (KARI) satellite KOMPSAT-7
- Launch in 2021





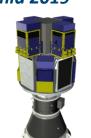
- Spain Ingenio Satellite
- Launch in 2019



- 25 Oct 2018 : Joint Statement for Institutional Exploitation signed by major EU countries and ESA
- Aggregation of launch demand for EU institutional payloads in the long term
- Robust EU/domestic backlog for Ariane 6 and Vega C



• SSMS maiden flight to fly by mid 2019







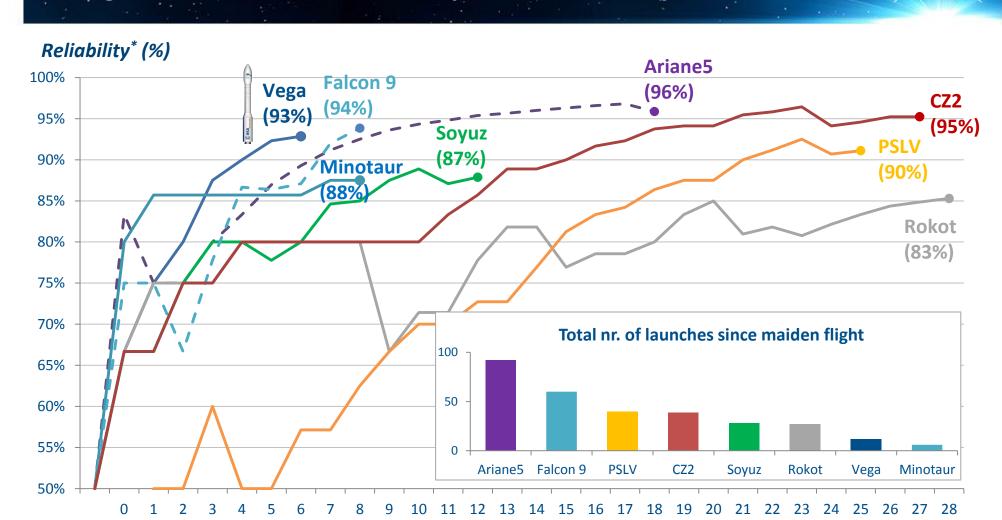








Vega – the fastest track to top-class reliability worldwide



* First level Bayesian estimate of mean predicted probability of success for next launch attempt (k+1)/(n+2) where k is the number of successful events and n is the number of trials SOURCE: Avio elaboration on SpaceLaunchReport data

Years from Maiden Flight



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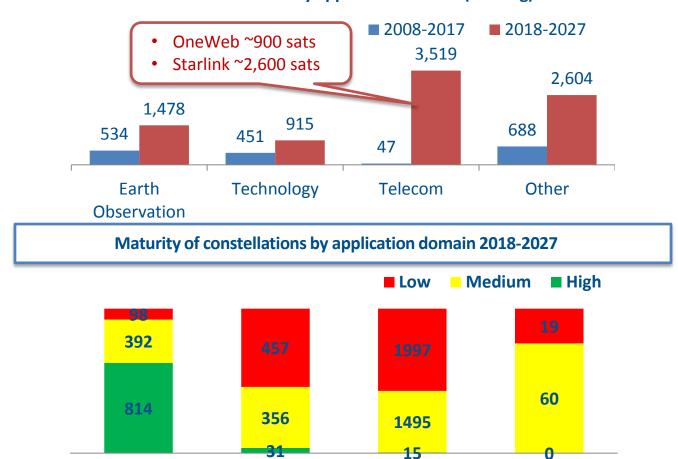
Within smallsats, more robust growth expectations appear to be for Earth Observation applications



Telecom

Security

SmallSats demand by application domain (0-500kg)



Information



Earth Observation

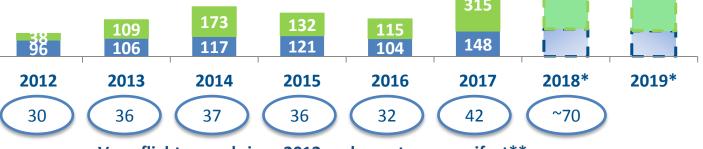
Vega flight rate increases as demand is shifting towards small sats (<500kg)



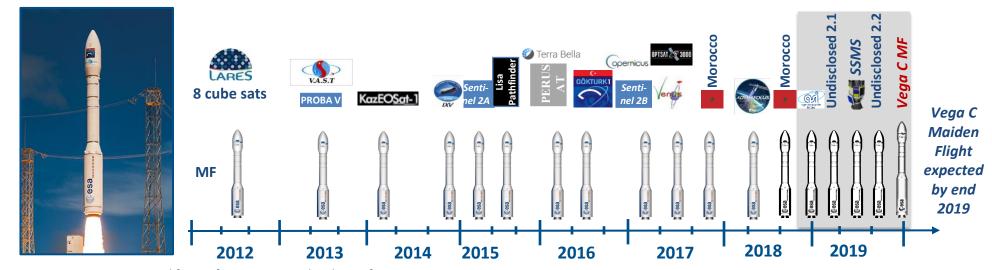


Total nr. of satellites launched into Space worldwide

Nr. of flights in LEO



Vega flight record since 2012 and near term manifest**



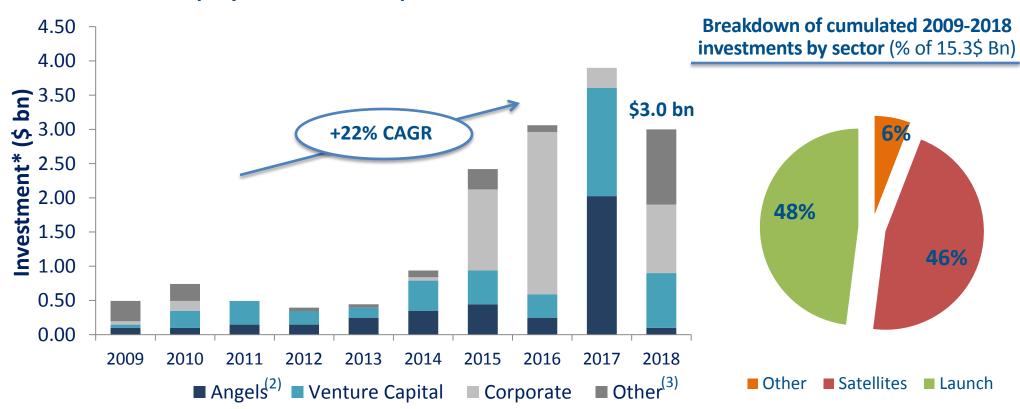
- Estimated figures for 2018 year end and 2019 forecast
- ** Launches already sold and accounted for as the order backlog for 2018- 2019

Source: Space Launch Report; Gunter's Space



Investments in the Space sector continues to grow rapidly

Equity investment in Space Ventures



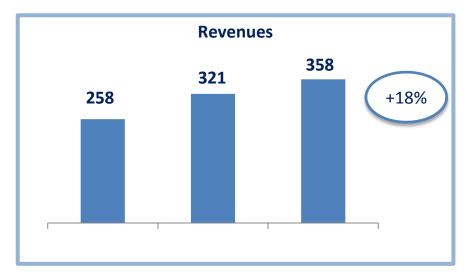
- (1) Annual non-governmental equity investment
- (2) Angels include investments from Jeff Bezos, Richard Branson, Elon Musk, and Robert Bigelow (total \$>2 bn)
- (3) Other includes Foundations, Private Equity, Sovereign Funds, Crowd Platforms, etc. Source: Space Angels Q4 2018 Investment Report

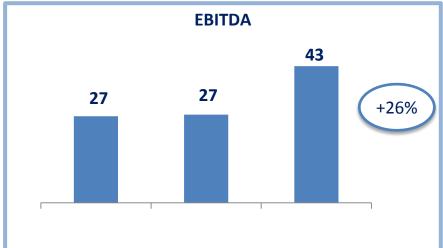


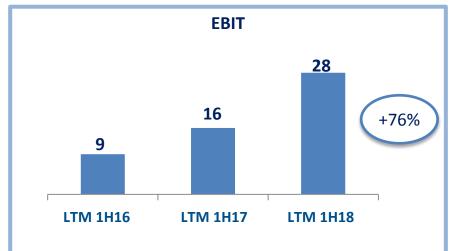
Evolution of Key Performance Indicators

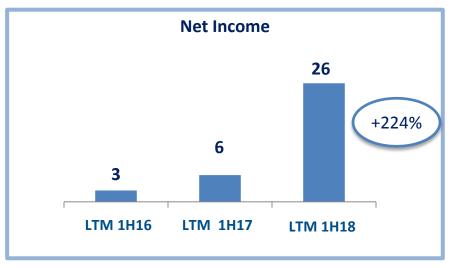
Trailing 12M, €M





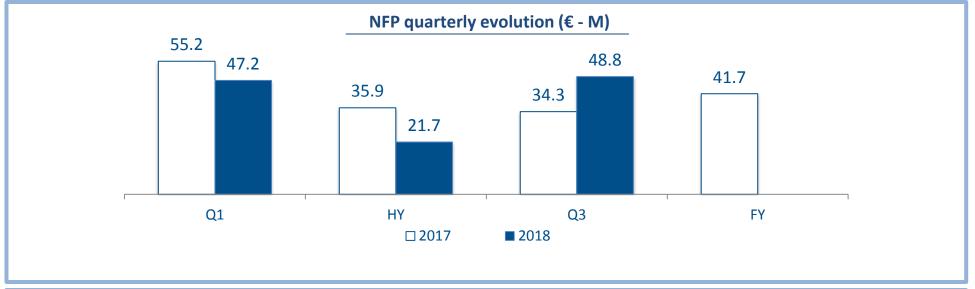


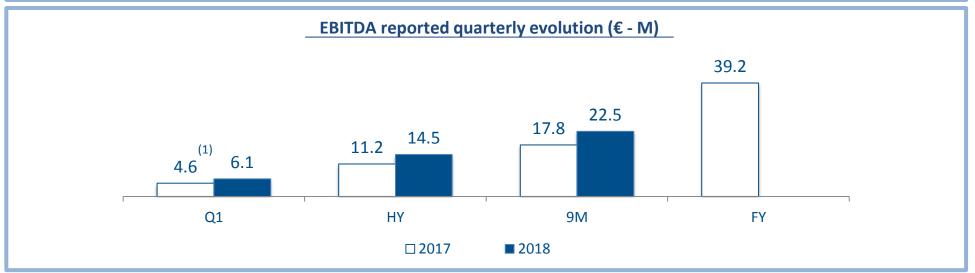






Net Financial Position and EBITDA quarterly pattern









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