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Avio: a European leader in Space Launch





- Prime Contractor
- Partner/Supplier
- Public company, 320M€ Mkt Cap
- 900 employees, ~390 M€ revenues
- >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











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Source: Satellite Industry Association (2018)

(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



MEO - Medium Earth Orbit

Altitude 3,000-22,000km







Annual avg volume: 12 launches, 19 tons



30 launches, 160 tons





Mature market



Niche market

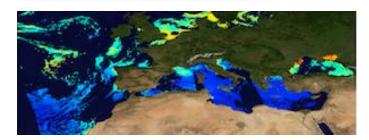
LEO - Low Earth Orbit

Altitude 500-2,000km





Annual avg volume: 55 launches, 60 tons



Booming demand



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



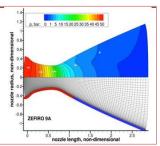
Vega - Light launcher (Avio Prime Contractor) 55% of Revenues



Avio activity by type of business

Research& **Product Development**

30% of Revenues





Propulsion and Launcher **Production**

70% of Revenues







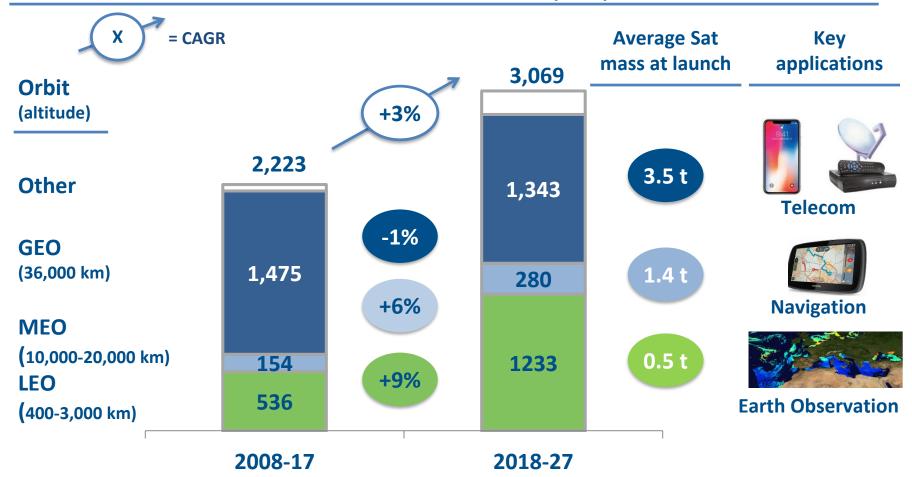




For the next decade: stable launch demand in MEO-GEO, fast-growing in LEO

World Market

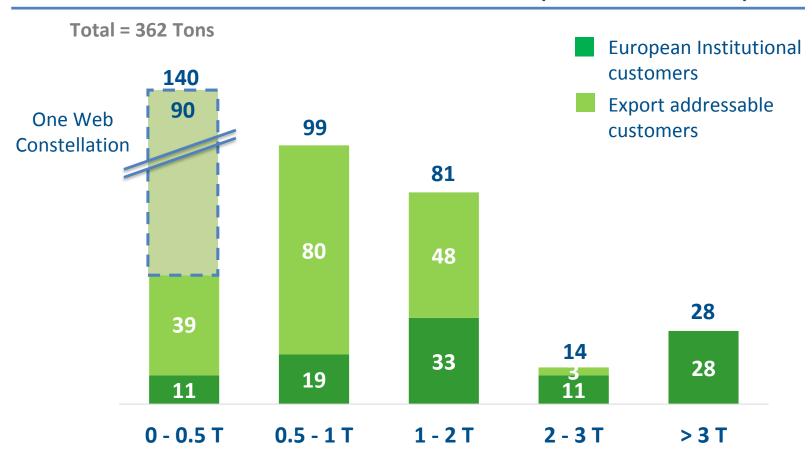
World total mass at launch (tons)





Fast growing LEO demand concentrated on satellites <2 tons in mass

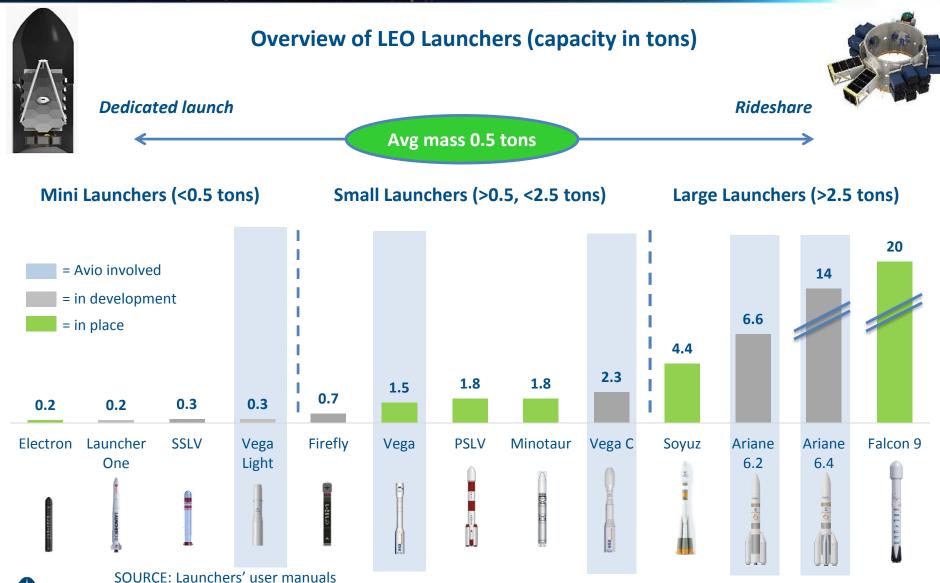
2018-27 Potential LEO and SSO market outlook (launch mass in tons)





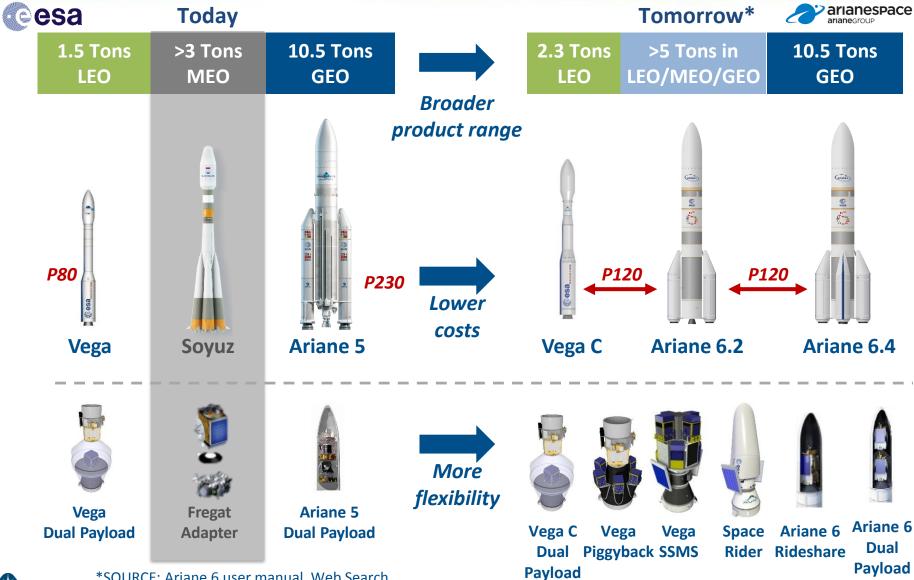
SOURCE: Avio estimate on Euroconsult data; Excludes the American, Chinese, Russian, Japanese institutional markets and Sats with mass <50 Kg

LEO demand growth and competitive environment





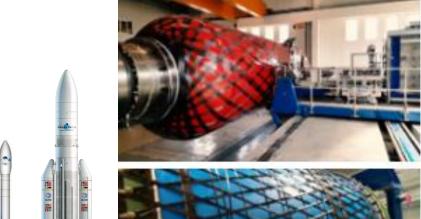
European Launchers evolving to meet market demand





Revolutionary automation, advanced materials, simplification approach for main stage (P120) production













Vega C Ariane Ariane 6.2 6.4

P120

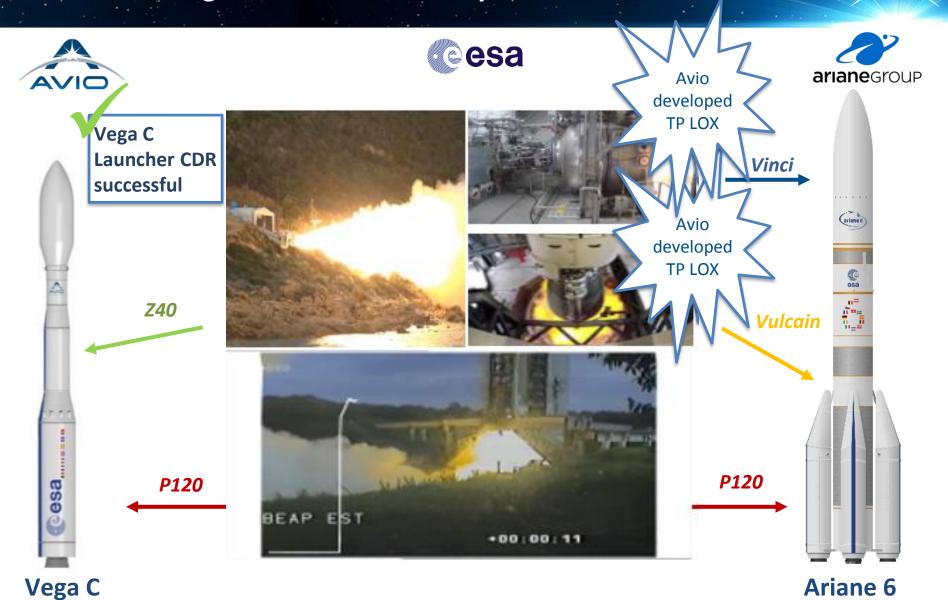
Single main-stage, higher volumes

Economies of scale

Vega Ariane 5

Motors for Vega C and Ariane 6 ready

AVIO



SOURCE for Vinci and Vulcain tests: https://www.youtube.com/watch?v=HjeEaW9nSgk; https://www.youtube.com/watch?v=t7TAGtlRmN8

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Launch pads getting ready for Vega C and Ariane 6





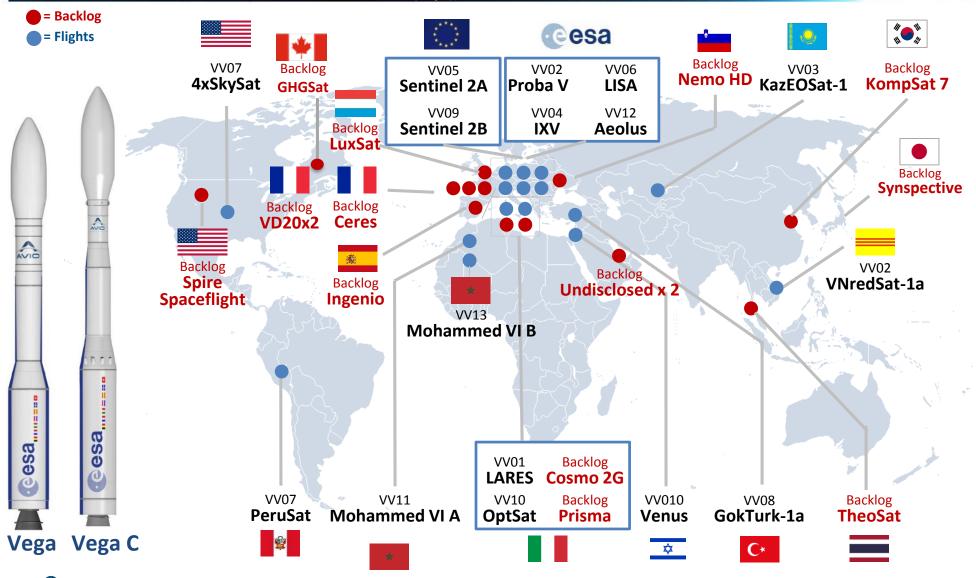
Ariane 6 ELA 4 launch pad almost ready*

Vega C Modified ZLV ready



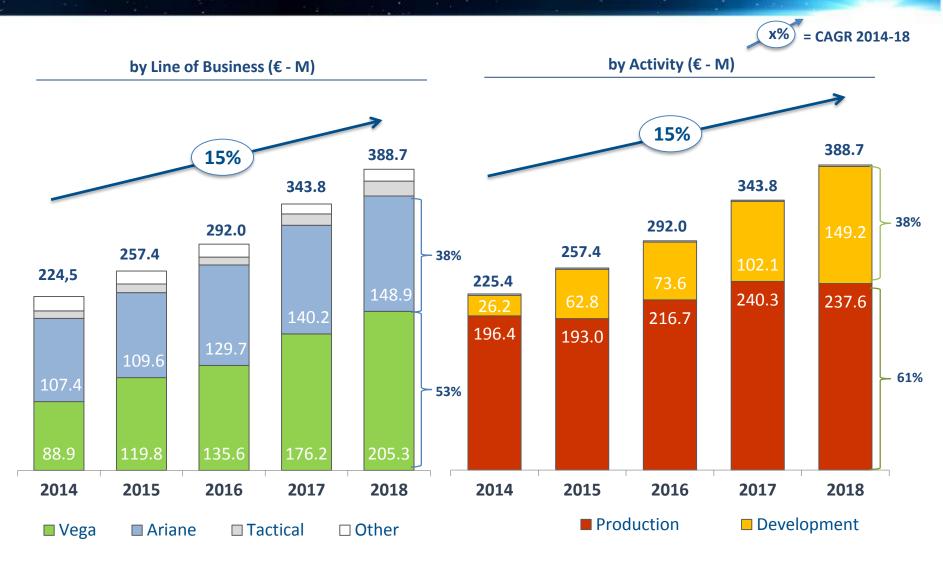
SOURCE: CNES and ESA twitter pictures

Global customer base for Vega since its 2012 maiden flight





Net Revenues growth fueled by Vega and development activities



Vega growing launch rate and dev't activity

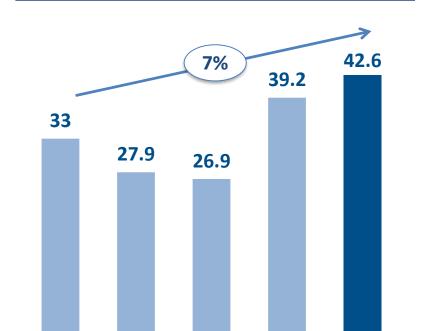
P120 and Vega dev't ramping up



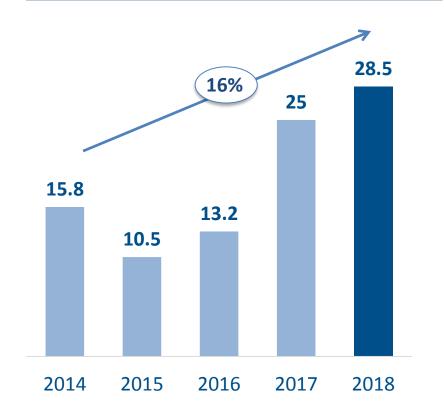
EBITDA and **EBIT** growing – High operating leverage







EBIT (€ - M)



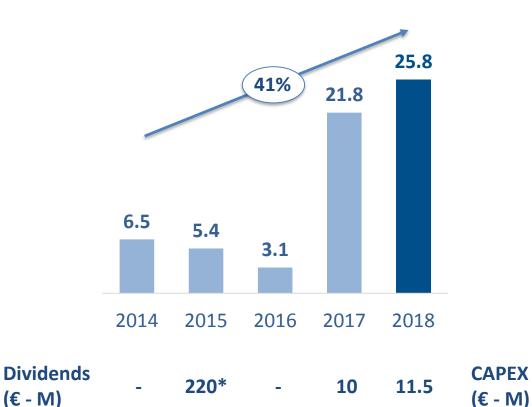


Growing Earnings and Cash supporting dividends and capex



= CAGR 2014-2018



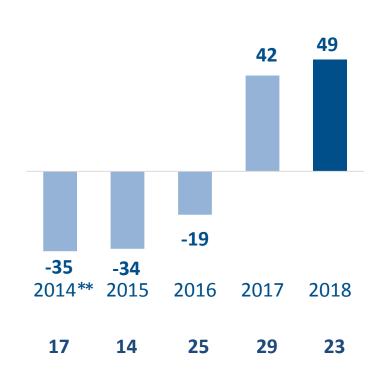


* Extraordinary dividend ** Pro-forma to account for extraordinary dividend financing



(€ - M)

Net Financial Position (€ - M)



Economic Highlights FY 2018

MAIN ECONOMICS	FY 2017*	FY 2018	DELTA	
€ - M	€ - M	€ - M	%	Comments
NET ORDER BACKLOG	952.1	877.4	(8%)	Cyclical trend with over €300M new order acquisitions
NET REVENUES	343.8	388.7	+ 13%	Higher development activities on Vega C and Ariane 6
EBITDA REPORTED	39.2	42.6	+ 9%	Non-recurring costs decreasing
% on net revenues	11.4%	10.9%		R&D Tax credit benefit
EBIT REPORTED	25.0	28.5	+ 14%	Better absorption of fixed costs
% on net revenues	7.3%	7.3%		
NET FINANCIAL EXPENSES % on net revenues	(3.6) -1.0%	(0.7) -0.2%	81%	New debt structure in place since Q4 2017, reducing interest costs substantially
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,	0.270		•
TAXES	0.3	(2.0)		Non recurring effect on current and deferred tax assets
% on net revenues	0.1%	-0.5%		
NET INCOME	21.8	25.8	19%	
% on net revenues	6.3%	6.6%		Proposed dividend distribution of €11.5M equal to €0.44 per share (+15% on 2017 dividends)

^{*} Pro-Forma figures to compare on a "like-for-like" basis the 2017 and 2018 financials in light of the business combination occurred in 2017

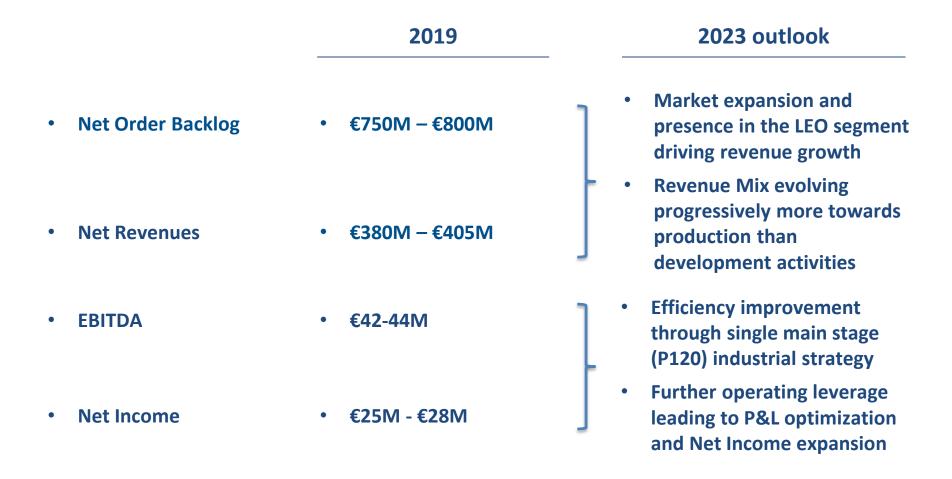


Balance Sheet

MAIN SOURCES AND USES	FY 2017 ACTUAL	FY 2018 ACTUAL	DELTA	
	€ - M			Comments
	€-101	€ - IVI	€ - 101	
WORKING CAPITAL	(84.1)	(86.9)	(2.8)	Working capital structurally negative
DEFERRED TAX ASSETS	76.5	76.2	(0.3)	
PROVISIONS (EMPLOYEES' BENEFITS AND RISKS)	(27.2)	(26.6)	0.6	
GOODWILL	61.0	61.0	-	Goodwill post business combination
CUSTOMER RELATIONSHIP ASSET	42.5	39.6	(2.9)	
FIXED ASSETS	165.9	177.8	11.9	Capex (€23M) mainly for production facilities and development of P120 and Z40
FINANCIAL RECEIVABLES	5.8	5.8	-	
NET INVESTED CAPITAL	240.5	246.9	6.4	
NET FINANCIAL POSITION (IFRS)	41.7	49.1	7.4	
EQUITY	(282.2)	(296.0)	(13.8)	Mainly for dividend distribution on 2017 result and positive contribution of 2018 net income
TOTAL SOURCES	(240.5)	(246.9)	(6.4)	Proposed purchase of own shares up to €9.1M
				(10% of Share Capital)



Guidance and long term outlook





Appendix



An important heritage of corporate evolution

2017







THE CARLYLE GROUP



Private Equity Financial focus





Public Company Space Launchers

1994 - 2003





Industrial group (listed) Aerospace focus

1968 – 1990





Industrial group (listed)
Chemicals 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



Colleferro

- 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

Airola

•Carbon Epoxy Prepreg manufacturing and testing







- Solid rocket motor casting (Regulus 60% Avio*) and integration (Europropulsion – 50% Avio**)
- Vega integration and launch operations (Mobile Gantry)



* 40% Ariane Group, ** 50% Ariane Group

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

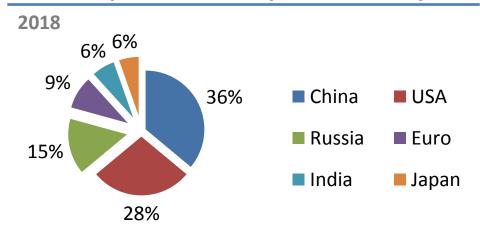


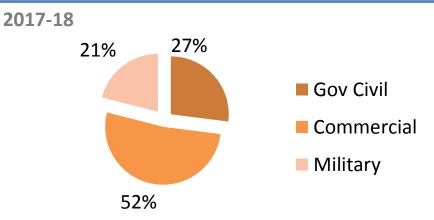
2008-2018 Total # of Space Launches Worldwide - CAGR 5%



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

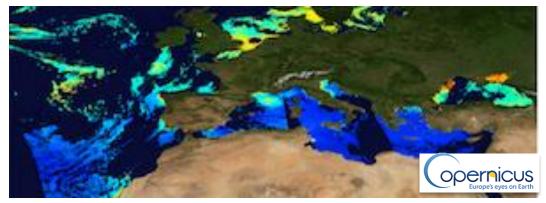






planet. Hald-level detail

Satellite telephone communication



FarmersEdge

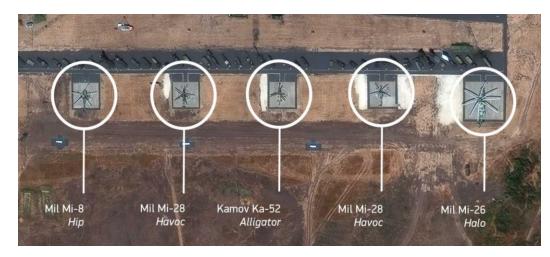
Mediterranean Sea temperature monitoring

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 ©

MARKETS GALLERY COMPANY BLOG

FRODUCTS MARKETS GALLERY BLOG

FRODUCTS MARKETS GALLERY BLOG

FRODUCTS MARKETS GALLERY BLOG

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Coal production monitoring

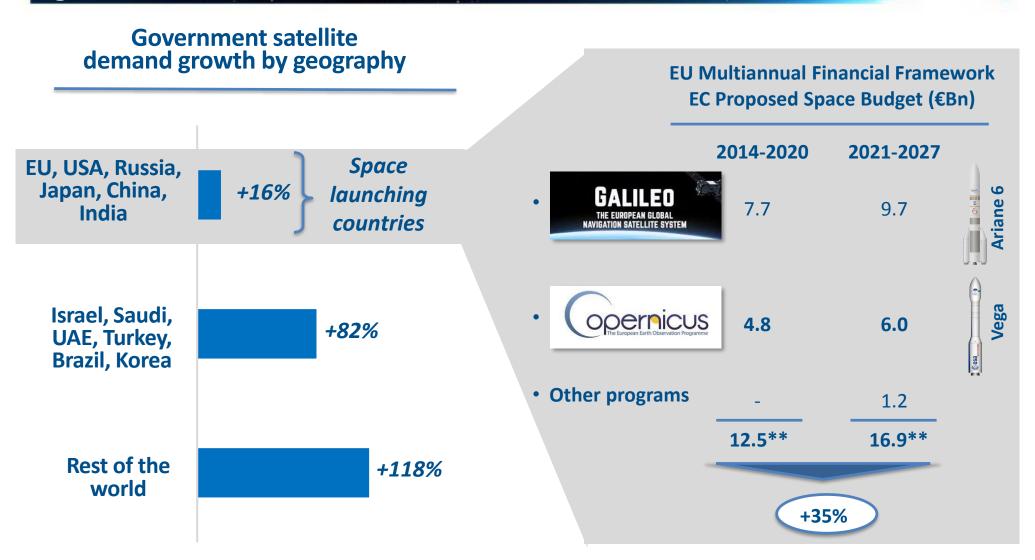


Damage assessment: Post-earthquake view



Incremental opportunities from growing domestic government demand in EU





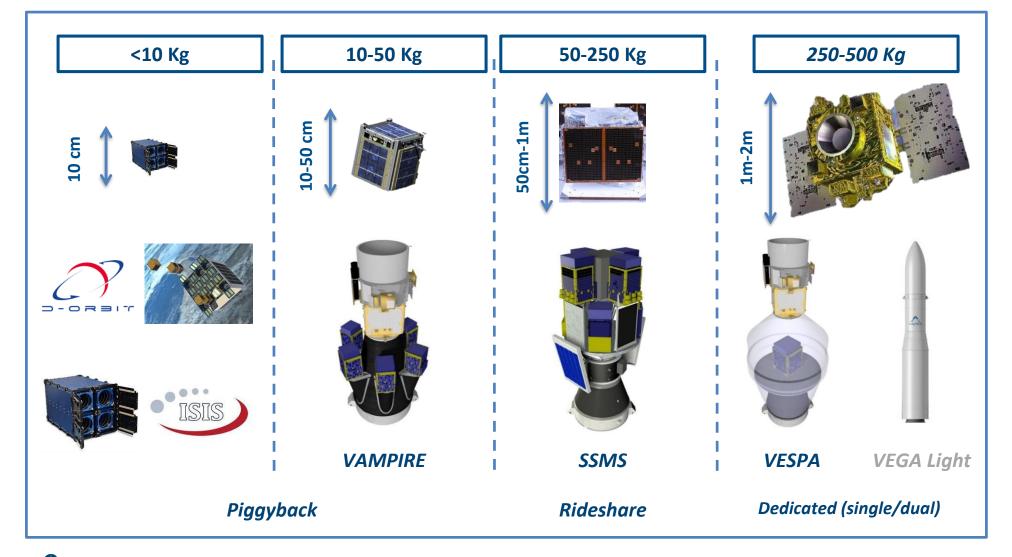
Source: the Space Launch Report, FAA annual compendium 2018



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

^{**} Current prices

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 THFOS-2
- Launch in 2021





- NAOS satellite for Luxembourg and NATO
- Launch in 2021







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





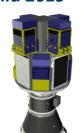
- Spain Ingenio Satellite
- Launch in 2019



- 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















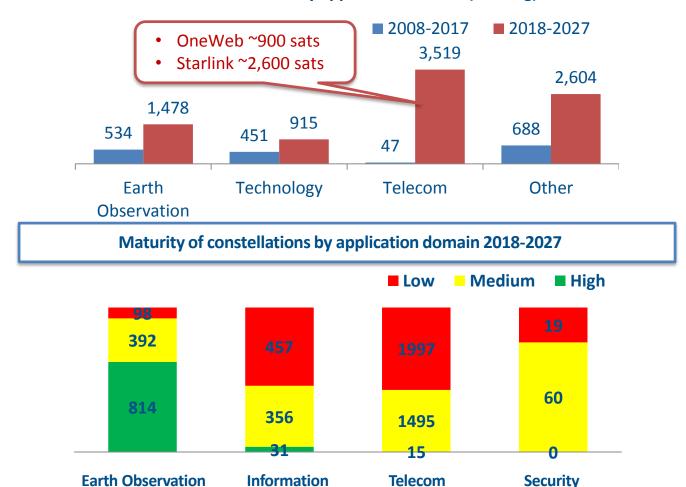




Within smallsats, more robust growth expectations appear to be for Earth Observation applications



SmallSats demand by application domain (0-500kg)





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

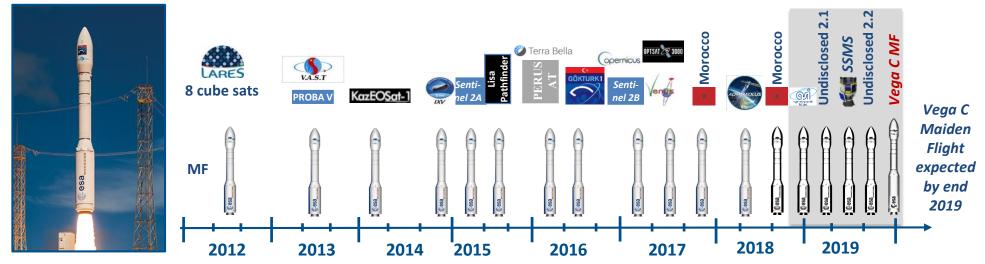


■ Sats < 500 kg





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

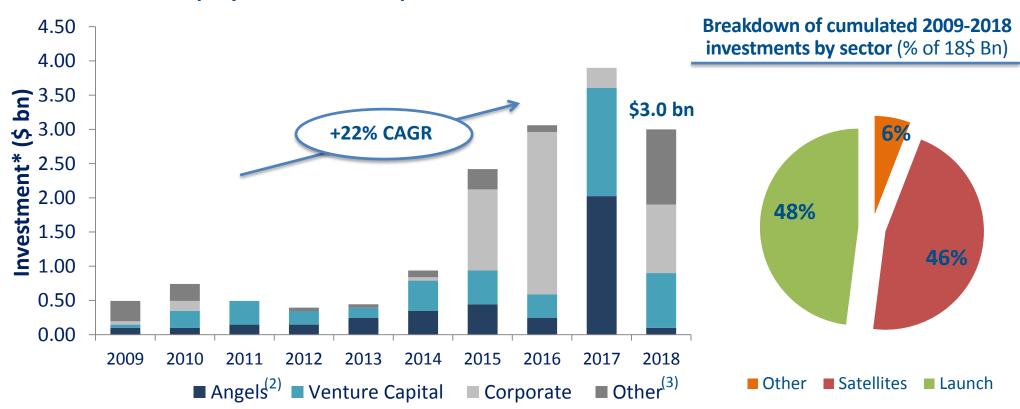
Source: Space Launch Report; Gunter's Space





Investments in the Space sector continue to grow rapidly



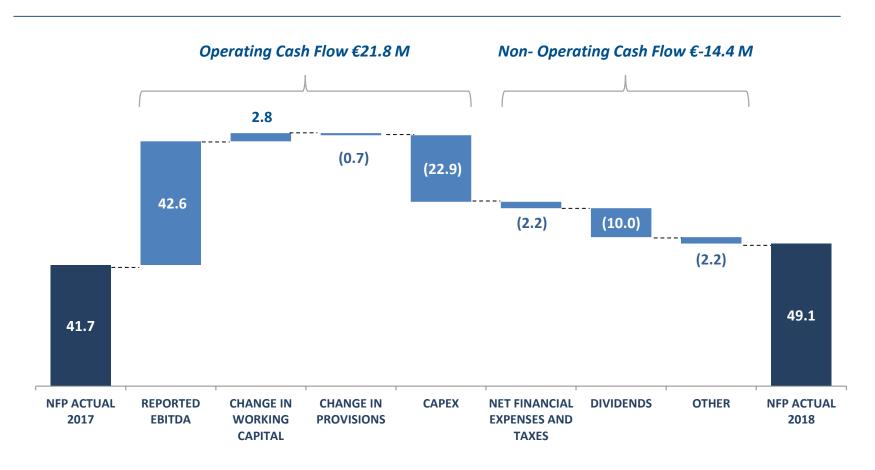


- (1) Annual non-governmental equity investment
- (2) Angels include investments from Jeff Bezos, Richard Branson, Elon Musk, and Robert Bigelow (total \$>2 bn)
- (3) Other includes Foundations, Private Equity, Sovereign Funds, Crowd Platforms, etc. Source: Space Angels Q4 2018 Investment Report



2018 - Net Financial Position Evolution

NFP evolution and Cash Flows (€ - M)







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