



WE CARE, WE PERFORM, WE DELIVER!

Company Business Presentation



Introducing Civitanavi Systems' inertial systems

Our Vision: Civitanavi Systems' vision is to be the technology powerhouse for inertial stabilization and navigation solutions, enabling the future of mobility



Navigation
relative position and orientation



Stabilization
automatic stabilization for safety and function

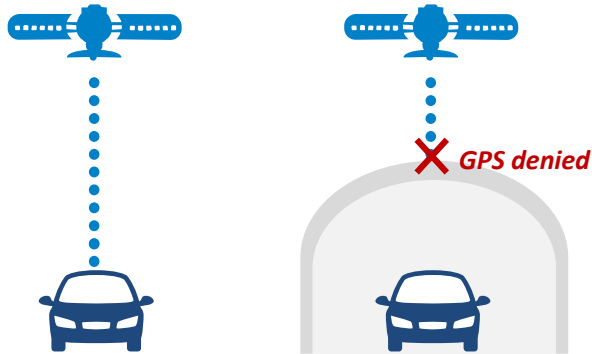


Multiplatform-friendly
appropriate for aerospace & defense or industrial purposes



Why GPS simply isn't enough

Navigation and positioning reliability



GPS⁽¹⁾



Relies on a clear signal from a satellite to establish navigation and position

INS



Does not require external sensors and provides uninterrupted navigation

Stabilization under harsh environments



GPS



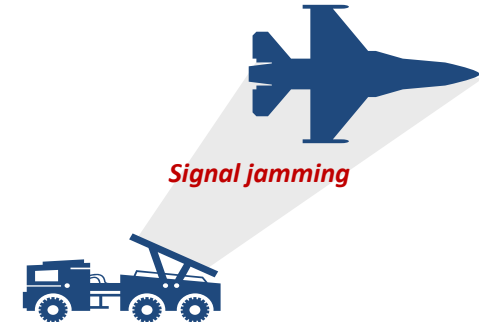
Cannot produce any gyro data to offer automatic stabilization of vehicle

INS



Automatic stabilization for efficient functioning of antennas and equipment

Immune to jamming / spoofing



GPS



GNSS equipment are highly prone to jamming and/or spoofing

INS



Resistance to jamming and spoofing allows stable navigation and positioning



Civitanavi Systems continuing a profitable growth since inception

Total Revenue adjusted development 2012-2023⁽¹⁾ (€m)

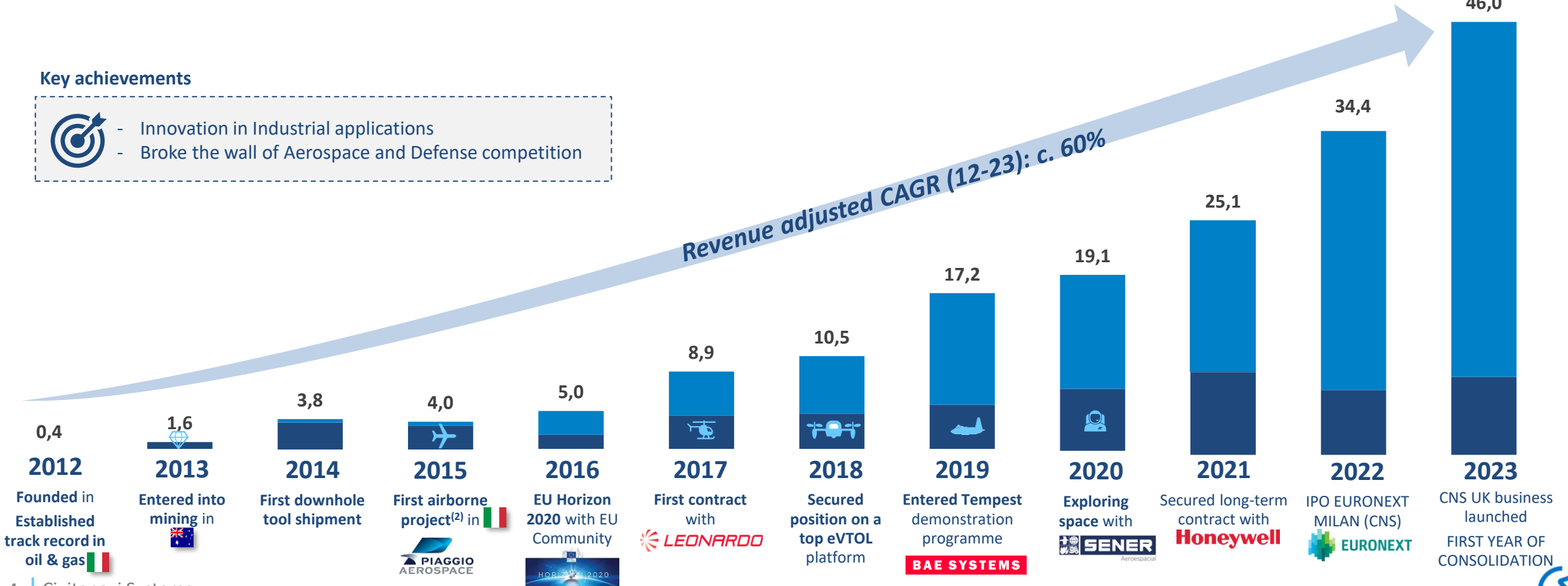
■ Industrial revenue ■ Aerospace and defence revenue □ EBITDA Adjusted Margin ▲ Margin increase



Key achievements



- Innovation in Industrial applications
- Broke the wall of Aerospace and Defense competition



Notes(s): Figures rounded; (1) 2018-2023 figures audited and compliant with IFRS. Revenues before 2018 are based on Italian GAAP and unaudited; (2) 2015 marks the first safety-critical airborne project for Civitanavi Systems. The first airborne project of any kind was carried out in 2014



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quotazione

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quotazione

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17th of February 2022 - First day of trading Euronext Milan



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Civitanavi Systems at a glance

Unique capabilities



Outstanding performance



Safety critical



ITAR-free⁽¹⁾



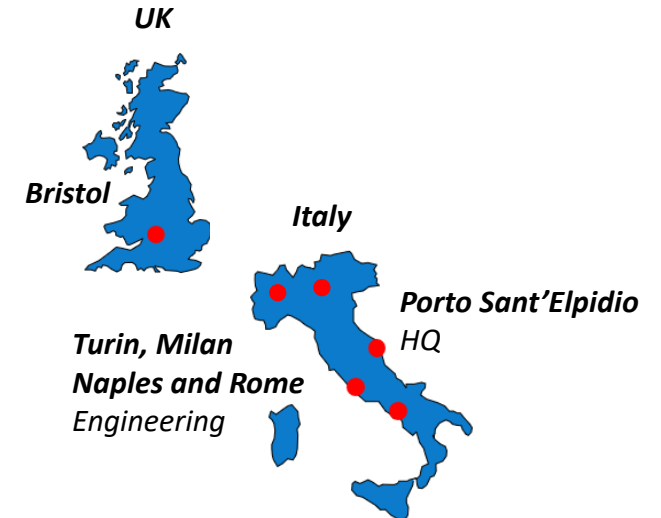
Serving a globally diversified customer base...

Honeywell



BAE SYSTEMS

...growing presence, starting from Italy and the UK



The 3 ingredients making Civitanavi unique



Outstanding performance

Sensing element

HW and mechanical design

Software and algorithms



Safety critical

Avionic standards compliancy

Automotive standards expertise

Cybersecurity expertise



ITAR free













Bypass lengthy and bureaucratic ITAR

No export control

No risk of supply chain disruption



International presence – Local Engineering & Operations




Porto Sant'Elpidio, FM Headquarters	Casoria, NA	Pomezia, RM	Turin, TO	Milan, MI	Bristol, UK
 <p data-bbox="104 664 463 711">167 FTEs¹</p>	 <p data-bbox="501 664 861 711">7 FTEs¹</p>	 <p data-bbox="899 664 1258 711">3 FTEs¹</p>	 <p data-bbox="1296 664 1656 711">4 FTEs¹</p>	 <p data-bbox="1694 664 2053 711">4 FTEs¹</p>	 <p data-bbox="2091 664 2451 711">7 FTEs¹</p>
					
<ul data-bbox="104 928 463 1309" style="list-style-type: none"> ■ Administrative offices, commercial structure, main research and development centre, prototyping and industrial plants ■ Fibre optic coils manufacturing, IMU assembly and calibration 	<ul data-bbox="501 928 861 1309" style="list-style-type: none"> ■ System architectures, software and hardware design ■ Mainly dedicated to the development of activities in the aerospace field 	<ul data-bbox="899 928 1258 1309" style="list-style-type: none"> ■ System architectures, software and hardware design and commercial activities ■ Mainly dedicated to the development of activities in the aerospace field 	<ul data-bbox="1296 928 1656 1309" style="list-style-type: none"> ■ Engineering activities for GNSS and INS technologies 	<ul data-bbox="1694 928 2053 1309" style="list-style-type: none"> ■ Engineering activities for MEMS technologies, especially accelerometers ■ Civitanavi's Engineering resources within Polytechnic of Milan 	<ul data-bbox="2091 928 2451 1309" style="list-style-type: none"> ■ Commercial and design activities ■ Future goal of expanding production



Products overview & main markets

Aerospace & Defence

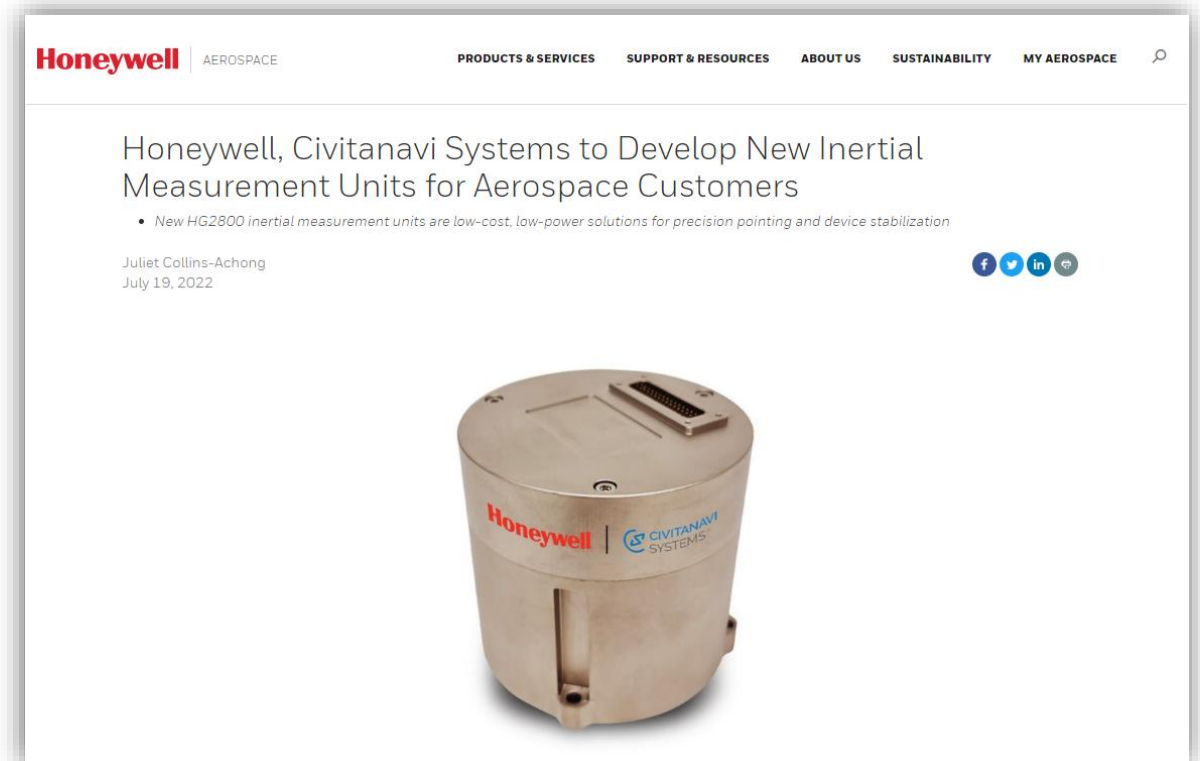
Industrial

	Space	Land	Aeronautics	Naval / submarine / guidance	Mining, Oil & Gas
					
Overview	<ul style="list-style-type: none"> Launch vehicle guidance systems Used in flight guidance control of space launchers and aboard space transportation systems 	<ul style="list-style-type: none"> Military vehicles equipment Used for navigation in operational environments with GNSS disturbed or absent and to stabilize moving equipment 	<ul style="list-style-type: none"> Jets, Helicopters, & eVTOLs Used for flight stabilization control and in case of GNSS failure Applications in defence and civilian aircraft 	<ul style="list-style-type: none"> Naval surface, subsea, and guidance Main applications are submarines, for which is not possible to rely on satellite navigation 	<ul style="list-style-type: none"> Drills and subsea equipment Applications in automotive, railway, drill guidance, tunnel guidance and marine
Key products	 <p>IMU</p>	 <p>Petra</p>  <p>KRIO</p>  <p>Petra 3000</p>  <p>CFI-200</p>	 <p>Argo</p>  <p>Personality Module</p>  <p>MIMU-M</p>  <p>Onebox</p>	 <p>Nautilus</p>  <p>KRIO</p>  <p>CFI-200</p>	 <p>Rig aligner</p>  <p>Downhole</p>  <p>CFA</p>



Collaboration is more fruitful than competing

- An important pillar of company philosophy is to sign **strategic partnerships**
- **Honeywell** and **Civitanavi Systems** signed an agreement to develop new Inertial Measurement Units aerospace customers
- **Honeywell** recently have announced the intention to **acquire Civitanavi Systems** through a **voluntary tender offer** on the **Euronext Milan**.



Company capabilities



01

Components & Manufacturing

Fiber Optic Gyros (FOG) automatic winding
Photonic Integrated Circuit (PIC) for FOG
Electronics and Optoelectronics

02

Sensing Technologies

Fiber Optic Gyro (FOG)
MEMS (Micro Electrical Mechanical Systems) Accelerometers
Quartz accelerometers
Global Navigation Satellite Systems (GNSS) receiver

03

Software Algorithms

Sensors Calibration
GNSS deeply tightly integration
Fault Detection/Fault Detection and Exclusion
Vision based navigation

04

Computing Technologies

Multi Processor System on Chip Devices (MPSoC)

05

Software Technologies

DO-178C and DO-254 (complex hardware) up to DAL-A (Design Assurance Level)
ARINC653 certifiable Real Time Operating Systems (RTOS)
Cybersecurity

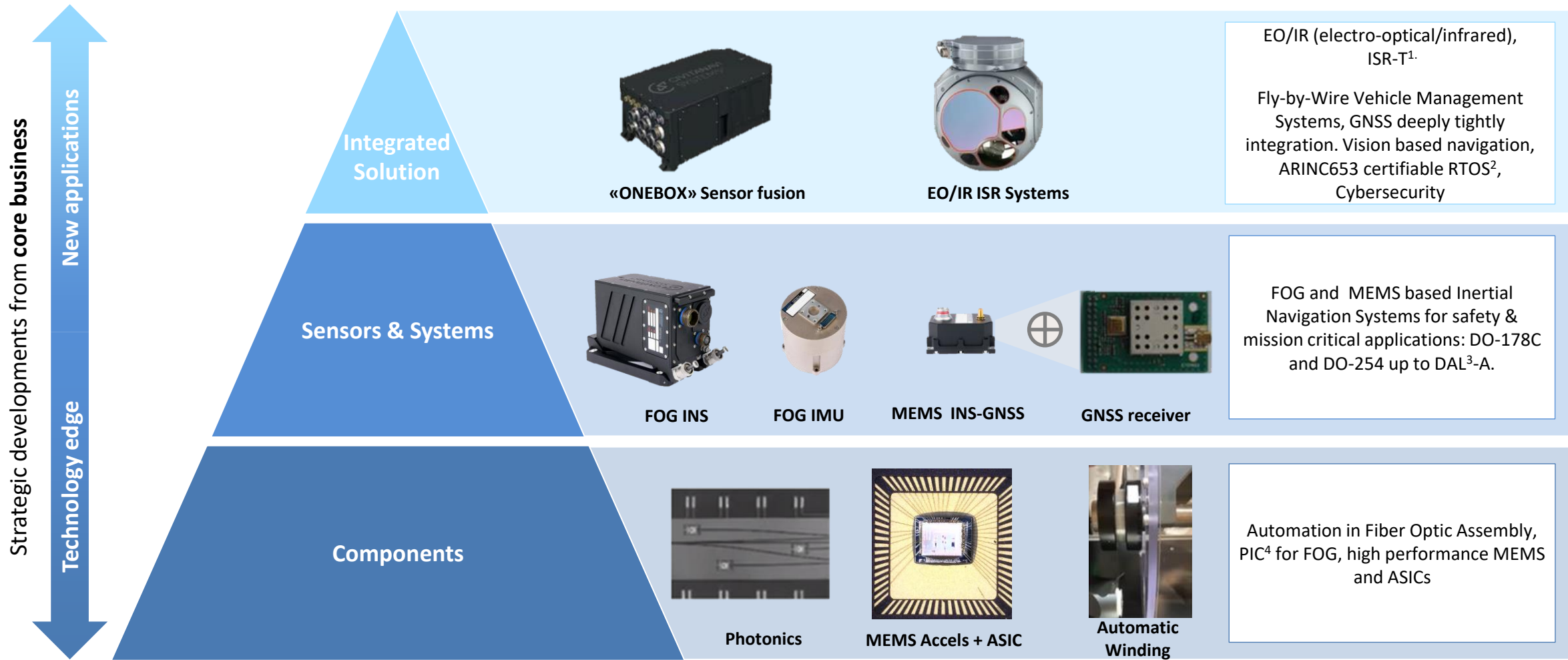
06

Integration Capabilities

EO/IR (electro-optical/infrared) - M&A in Pv-Labs
Intelligence, Surveillance, Reconnaissance and Targeting (ISR-T) - M&A in Pv-Labs
Fly-by-Wire Vehicle Management Systems
SIL/HIL (Software/Hardware In the Loop) Simulations



Strategic approach – Enabling Technologies



Notes

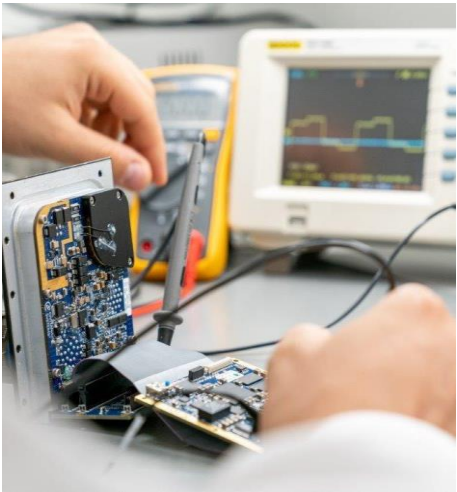
1. Intelligence, Surveillance, Reconnaissance and Targeting
2. Real Time Operating Systems

3. Design Assurance Level
4. Photonic Integrated Circuit



Vertical integration – Design and manufacturing

Design and engineering



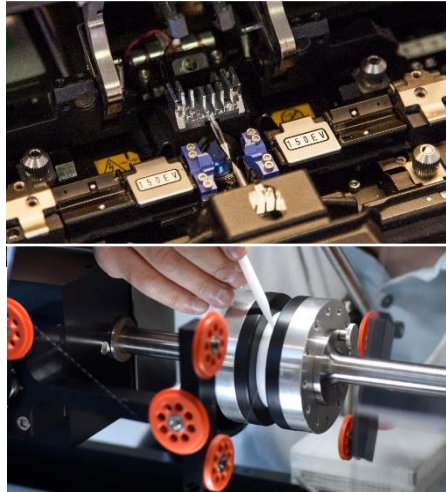
Full in-house design and engineering capabilities to design cutting-edge products

Assembly process design



Optimized production flexibility leveraging on fiber optic making capabilities

Key production processes



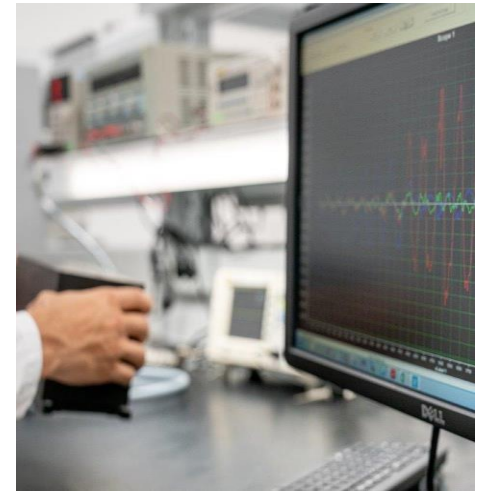
Key production processes developed inhouse to maintain control over production

Automatic calibration



Cutting-edge calibration equipment. Proprietary calibration algorithm to ensure maximum performance

Testing



Quality standard certification for aerospace and defense. Production Order Approval for production of safety-critical systems



How we perceive the New mobility



Starting point

Integrated solution for flight control

Conceived for Vehicle Management Applications

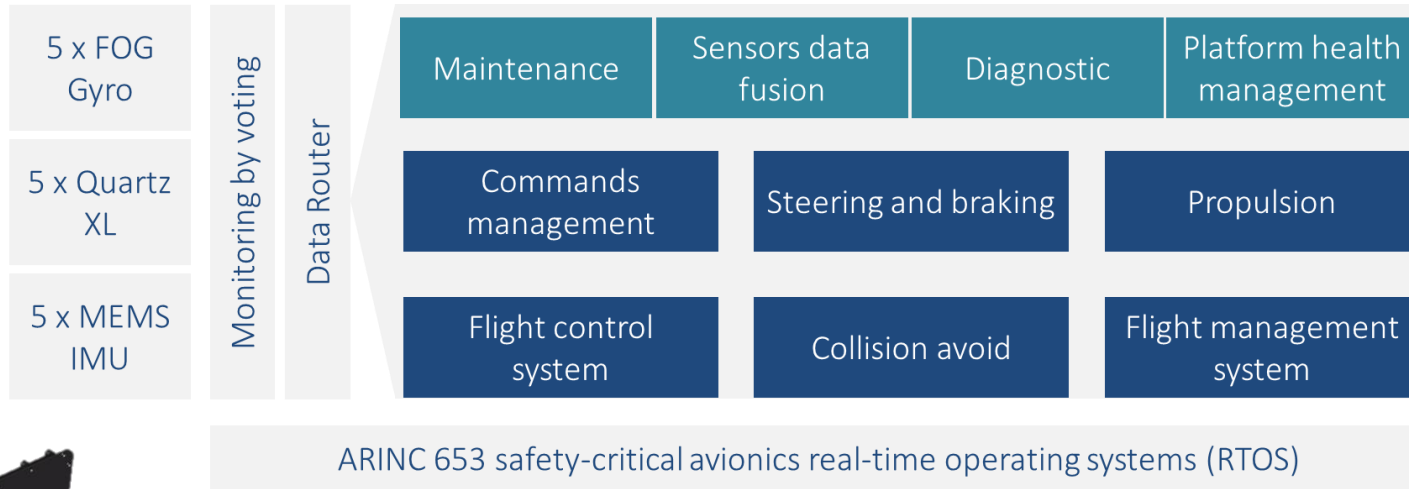
Triple Redundant Architecture

Embedded inertial sensors suitable for both Stabilization and Navigation

Open Architecture (customer programmable) on ARINC653 compliant certifiable RTOS

Cyber secure

Chip Atomic Scale Clock and Ultra tight integrated GNSS



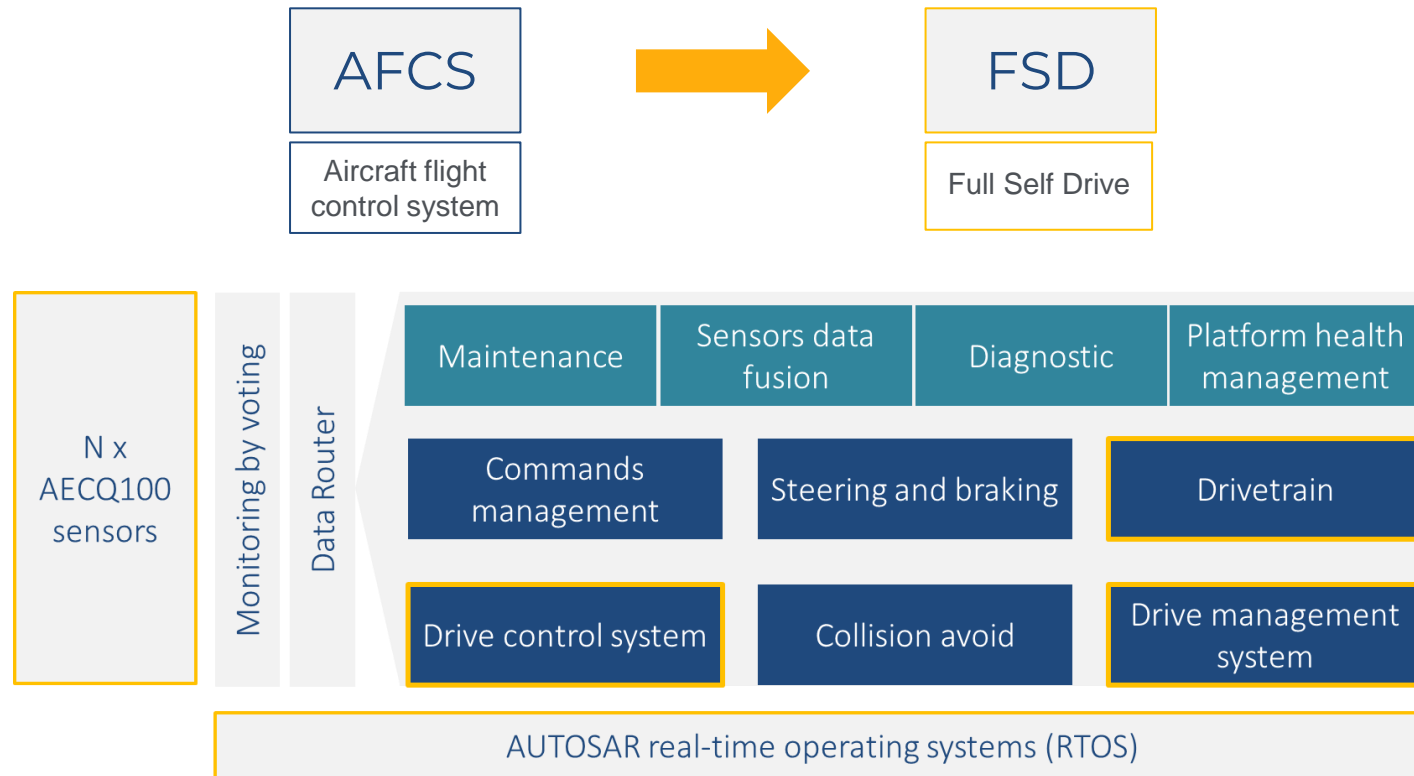
 Civitanavi proprietary embedded functions



 OEM custom functions



Play this game...

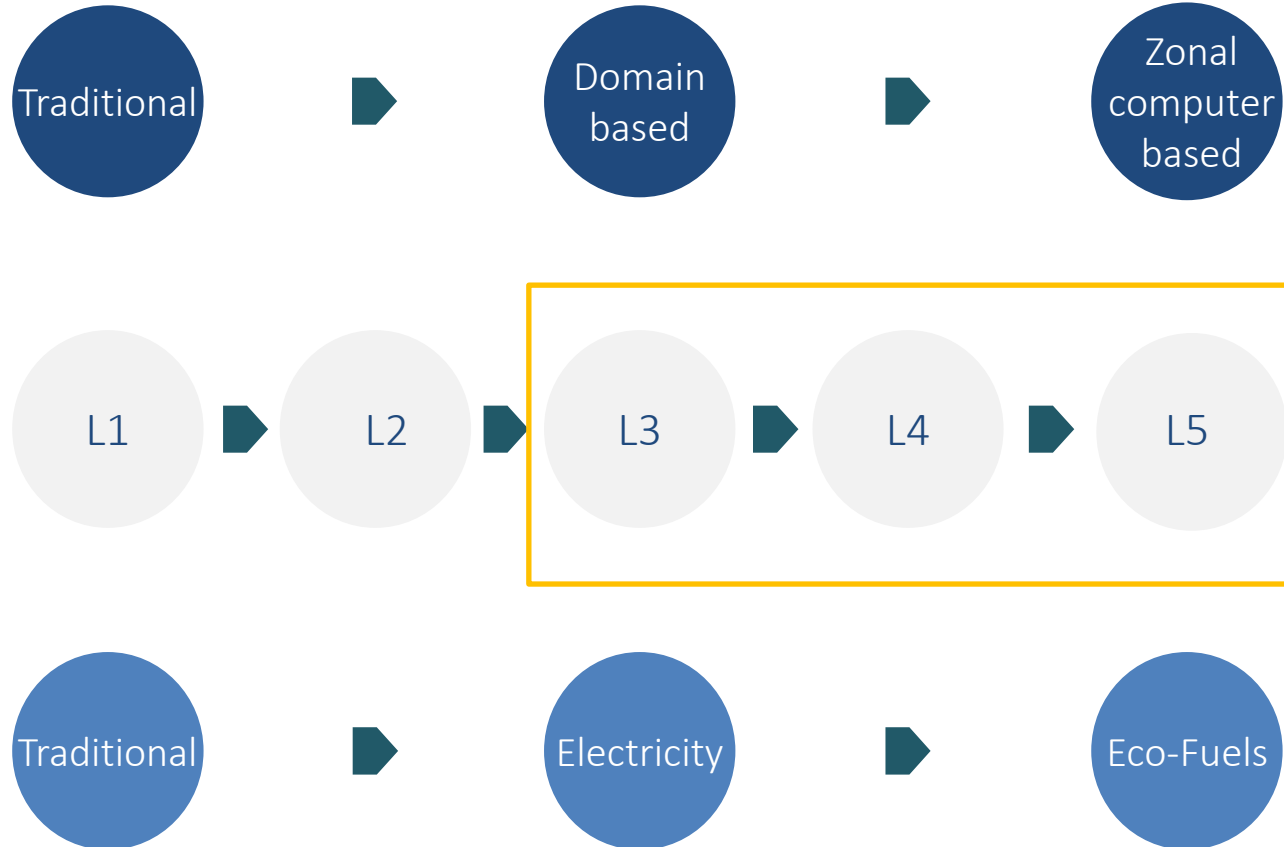
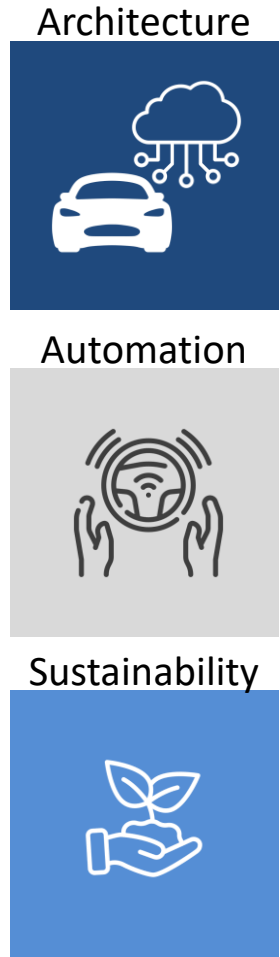
What if “flight” is changed with “drive”?



-  Civitanavi proprietary embedded functions
-  OEM custom functions



Civitanavi Systems is positioned to be part of the automotive transformation addressing the technology gap in future autonomous driving (L3, L4, L5)



Vehicles Architecture

- Transition from a **distributed control system**, which is a platform for automated vehicles control, to **more advanced zonal computer based control units**

Autonomous level

- Transition from **level 1 autonomous drive** (adaptive cruise control, emergency braking, and cross-traffic alert) to **level 5 auto pilot**

Carbon neutrality

- Transition from traditional **internal combustion engines** to **electrical vehicles** to **project eco-fuels based engine**



Transformation of Road Mobility Required Increased Accuracy and Safety

From Advanced Driver Assistance Systems (ADAS) to autonomous driving

L1

Current level of driving assistance

L2

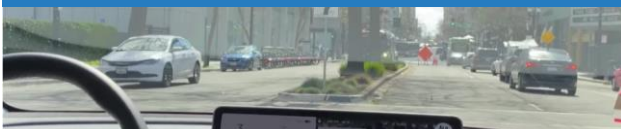
L3

Highway pilot



L4

City pilot



L5

Auto pilot

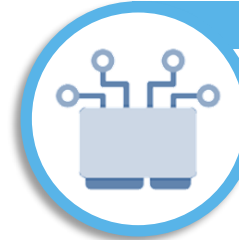


Disruption

- Accuracy level not achievable with MEMS as is
- Civitanavi's offering and its technical knowhow can be leveraged in automotive market once increased accuracy and safety is required

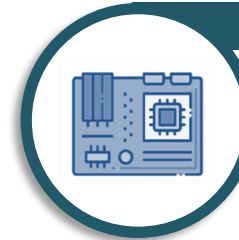
Civitanavi Systems' vision for road vehicles

Electronic Control Unit



- High precision positioning module manufacturing
- Inertial navigation algorithm and correction service
- ISO26262

Design reference



- Hardware design reference and system integration service
- Inertial navigation algorithm and correction service
- ISO26262

Ecosystem



- Consortium objective: Autonomous driving
- Expertise in design, manufacturing of key system element
- Automotive product development standards



THANK YOU

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