



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

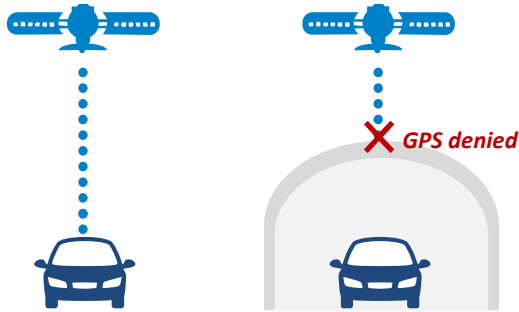


Multiplatform-friendly
appropriate for aerospace &
defense or industrial purposes



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



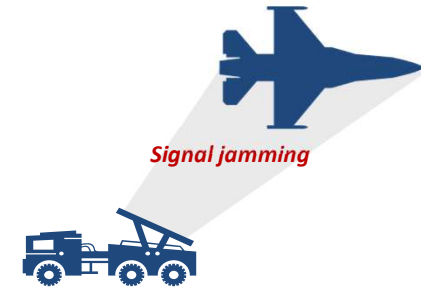
Cannot produce any gyro data to offer automatic stabilization of vehicle

INS



Automatic stabilization for efficient functioning of antennas and equipment

Immune to jamming / spoofing



GPS



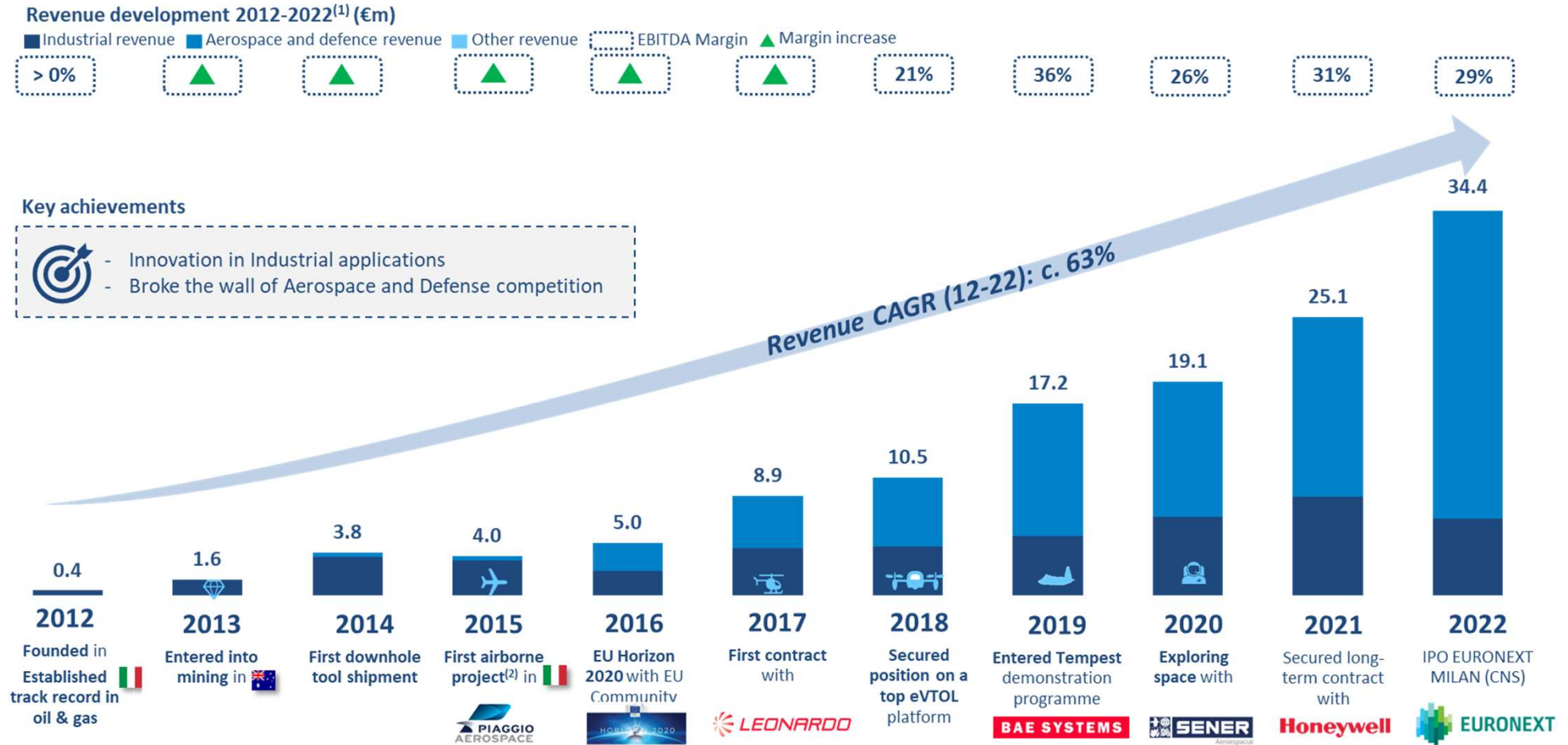
GNSS equipment are highly prone to jamming and/or spoofing

INS



Resistance to jamming and spoofing allows stable navigation and positioning

Civitanavi Systems continuing a profitable growth since inception





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



Civitanavi Systems at a glance

Unique capabilities



Outstanding
performance



Safety
critical



ITAR-free⁽¹⁾



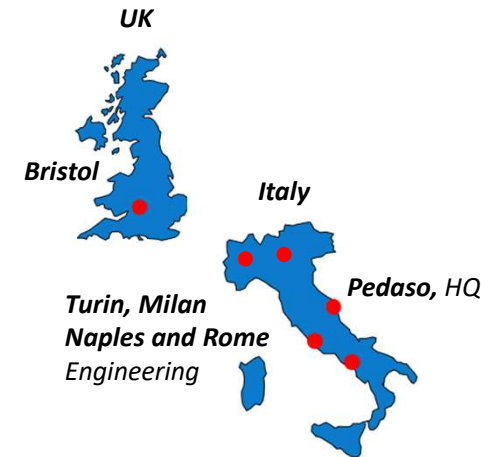
Serving a globally diversified customer base...

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





Pedaso, FM - Headquarters	Casoria, NA	Ardea, RM	Turin, TO	Milan, MI	Bristol, UK	Porto Sant'Elpidio, FM
 153 FTEs ¹	 6 FTEs ¹	 3 FTEs ¹	 4FTEs ¹	 4FTEs ¹	 5 FTEs ¹	
 <ul 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 style="list-style-type: none"> ■ System architectures, software and hardware design ■ Mainly dedicated to the development of activities in the aerospace field 	 <ul 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 style="list-style-type: none"> ■ Engineering activities for GNSS and INS technologies 	 <ul style="list-style-type: none"> ■ Engineering activities for MEMS technologies, especially accelerometers ■ Civitanavi's Engineering resources within Polytechnic of Milan 	 <ul style="list-style-type: none"> ■ Commercial and design activities ■ Future goal of expanding production 	 <ul style="list-style-type: none"> ■ New HQ in Porto Sant'Elpidio on recently purchased building <div>  </div>

Products overview & main markets

Aerospace & Defence

	Space	Land	Aeronautics	Naval / submarine / guidance
				
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
Key products	 IMU	 Petra  KRIO  Petra 3000  CFI-200	 Argo  MIMU-M  Personality Module  Onebox	 Nautilus  KRIO  CFI-200

Industrial

Mining, Oil & Gas

<ul style="list-style-type: none"> Drills and subsea equipment Applications in automotive, railway, drill guidance, tunnel guidance and marine
 Rig aligner  Downhole  CFA



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.



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

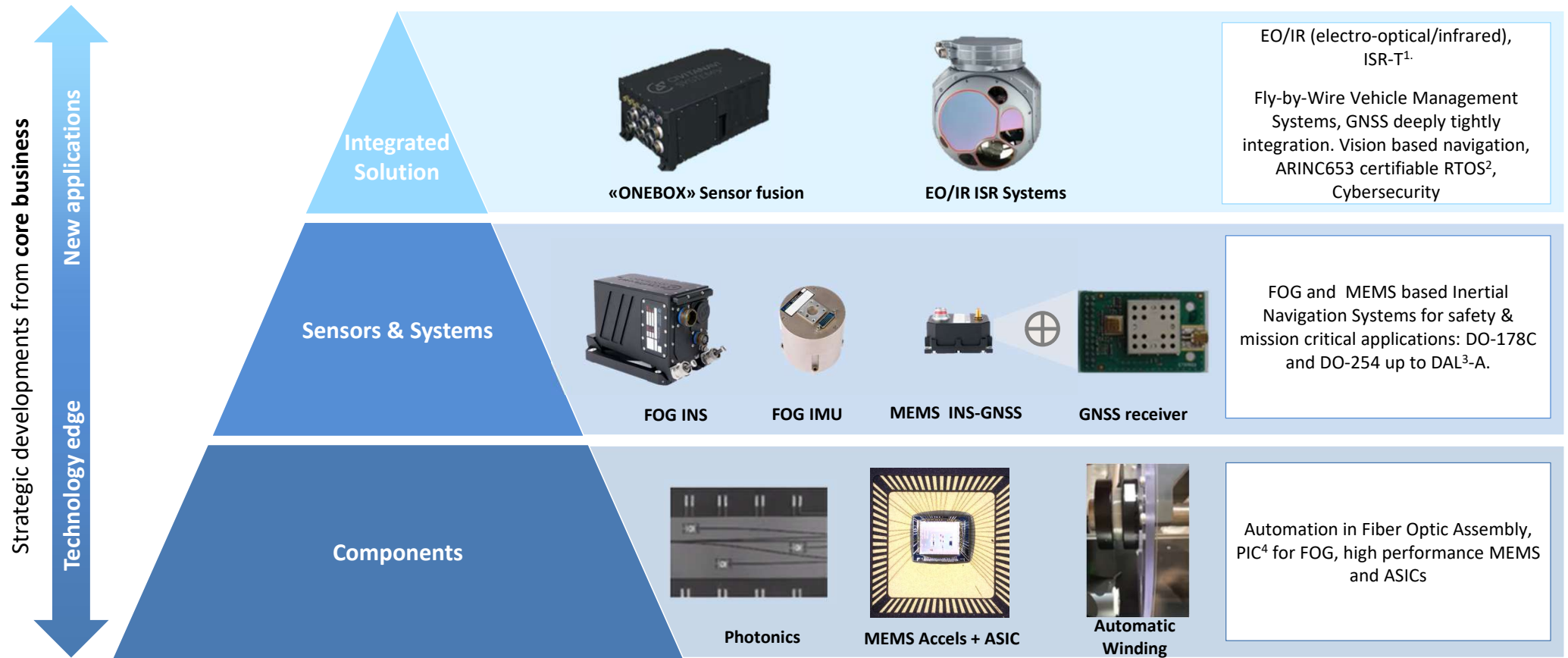
06

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



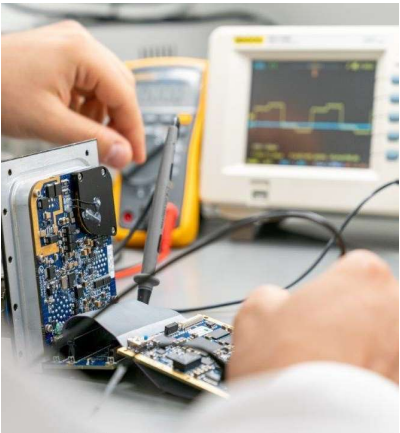
Notes

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



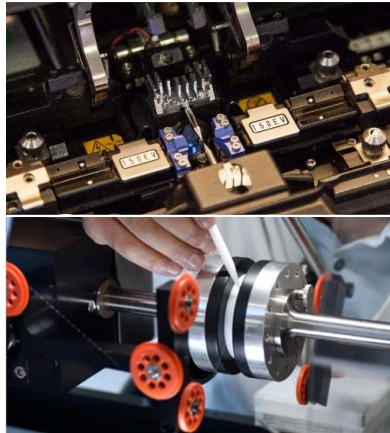
Full in-house design and engineering capabilities to design cutting-edge products

Assembly process design



Optimized production flexibility leveraging on fiber optic making capabilities

Key production processes



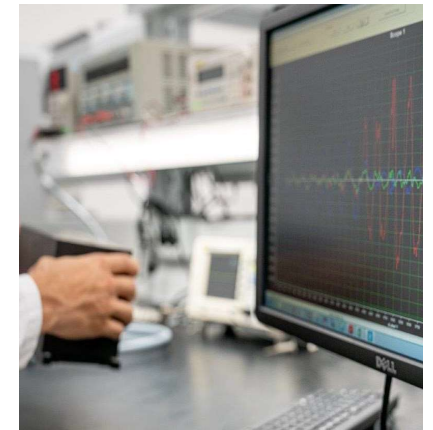
Key production processes developed inhouse to maintain control over production

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



5 x FOG
Gyro

5 x Quartz
XL

5 x MEMS
IMU

Monitoring by voting

Data Router

Maintenance

Sensors data
fusion

Diagnostic

Platform health
management

Commands
management

Steering and braking

Propulsion

Flight control
system

Collision avoid

Flight management
system

ARINC 653 safety-critical avionics real-time operating systems (RTOS)

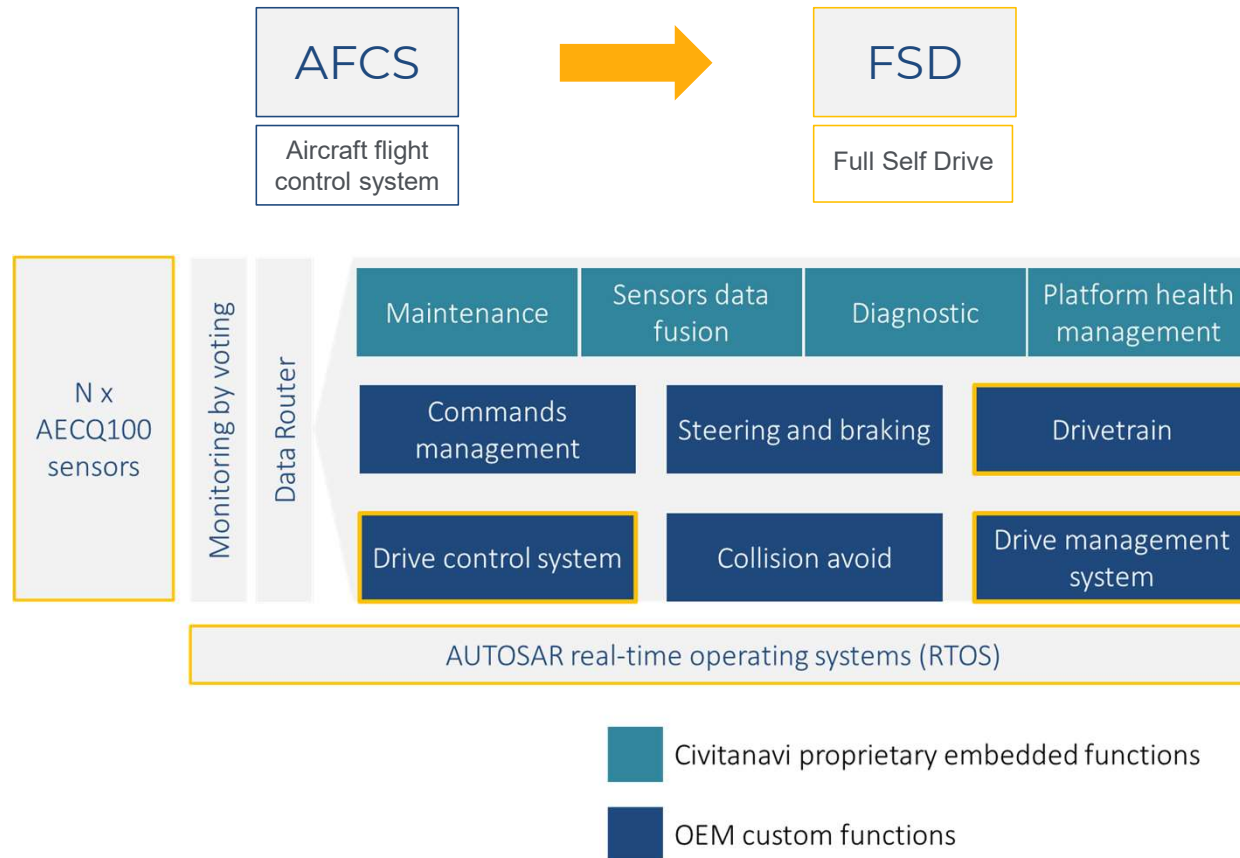
Civitanavi proprietary embedded functions

OEM custom functions

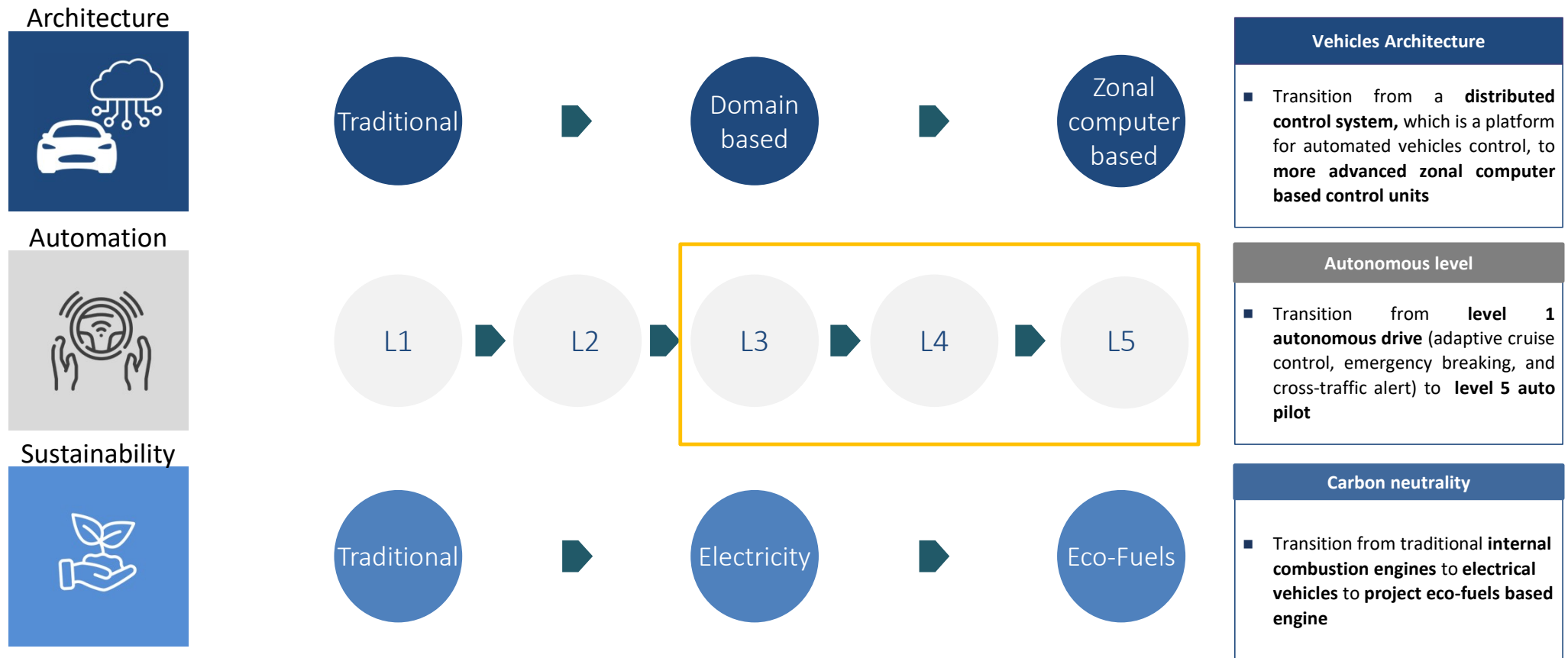


Play this game...

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



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



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

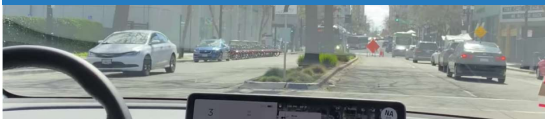
L3

Highway pilot



L4

City pilot



L5

Auto pilot

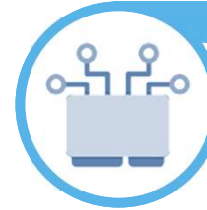


Disruption

- 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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