



Innovation at Applus+

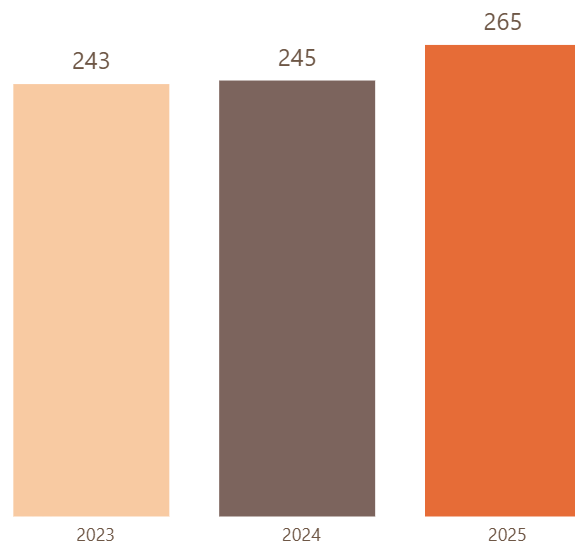
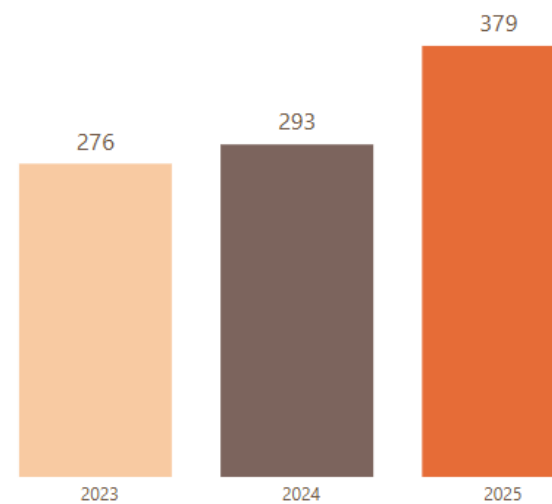
► 2025



Applus+ combines research, development and innovation with digitalisation to establish itself as an expert technology partner, recognised across multiple disciplines, and to create new and improved services that strengthen its position as leader in the testing, inspection and certification (TIC)

2025 figures:

- The equivalent of 379 full-time employees have been involved in R&D&I projects, representing a 22.5% increase on the previous year.
- Our teams across the globe and across all divisions have worked on 265 research, development and innovation projects.
- We have an intellectual property (IP) portfolio comprising 150 active patents and 25 active patent families.

Number of Projects**Employees involved***FTE (Full-time equivalent)*

Innovation through collaboration

VISIBILITY

642

TECHNICAL FORUM

310

MEMBERSHIPS

110

ORAL CONTRIBUTIONS

89

PAPERS

Oral Contributions

Our cybersecurity experts gave presentations at **the EU Cyber Acts Conference** in Brussels on **Cyber RED-DA**, the **EN 18031** standard and **EUCC accreditation**. They also moderated a panel discussion on European Union regulation.



Applus+ participated in the **Drone Industry Summit 2025** in Perth, showing expertise in **digital transformation** and **high-quality data acquisition through photogrammetry, LiDAR, and non-destructive testing**.

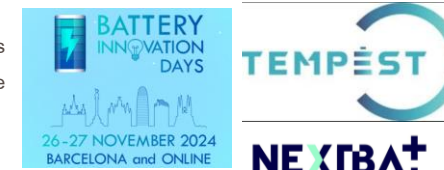
CITA webinar in October 2025 on **Recommendation No. 27** for Electric Vehicles, during which the Working Group's test protocol for electric and hybrid vehicles was explained.



Automotive experts participated in the **Autonomous Vehicle Technology Expo Europe**, with contributions in type approval, automated driving scenarios, and standardization.

Memberships

Applus+ Laboratories, member of **BEPA**, took part in the Battery Innovation Days 2025 in Graz (Austria). At the event, projects such as **TEMPEST** and others from the **EU-INGENIOuS cluster**, including **NEXIBAT**, were presented.



Applus+ in Latin America took part in the **Regional Advisory Group (RAG) 2025 Conference**, highlighting the importance of cooperation in advancing towards safer and cleaner mobility.

We strengthened our presence on the **FISITA Executive Board** for 2025–2027 with the appointment of **Adrià Ferrer** as **Vice President for Europe** and the reappointment of **José M. Barrios** as **Vice President for Societies**.



Papers

An article in **Energy Storage News** on fire safety in battery energy storage systems (**BESS**) and the associated environmental risks, written by the **Director of Engineering at Enertis Applus+**.



Our experts presented **15 papers** on ADAS, automated driving, regulation of connected and autonomous vehicles (CAV), and hydrogen for heavy-duty vehicles in the **FISITA World Mobility Conference**.

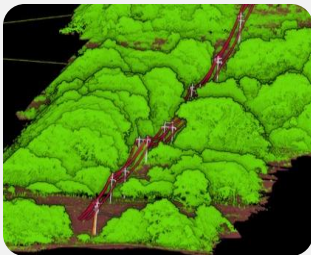
Our innovation integrates **artificial intelligence**, **advanced simulation**, and **digital technologies** to enhance our **TIC services**. We deploy virtual solutions while supporting **sustainability**. We also strengthen **cybersecurity** in **mobility**, **industry**, and **healthcare** with Europe-accredited solutions. Through this expertise, we **create value** and **help clients** safely and efficiently adopt **new technologies**.

INTELLIGENT TRANSFORMATION

We implement **e-commerce platforms** and enhance our collaborative tools using **artificial intelligence** and **computer vision**. We use **machine learning** to optimise the performance of renewable energy assets. **Digitalisation** modernises documentation processes. Overall, we drive **efficiency** and **innovation** in **inspection** and **energy operations**.

Case study:

Greentrack: Digital and predictive solutions for vegetation management



ADVANCED SIMULATION IN INSPECTION & TESTING SERVICES

We streamline design and certification processes using **advanced simulation**. Our **smart inspections** and **ultrasound-based technologies** help to improve infrastructure safety. Through **mobility simulation**, we reproduce the actual behaviour of vehicles with greater accuracy. In short, we promote **innovation**, **safety** and **virtual testing**.

Case study:

Autopv: in-house development that evolves with technological innovation



INNOVATION, SUSTAINABILITY & THE ENERGY OF THE FUTURE

In the field of renewable electrification, we utilise advanced technologies such as **daytime electroluminescence** and performance optimization of assets. We are at the forefront of **environmental solutions** and contribute to **European battery development initiatives**. We promote **decarbonisation in the automotive sector**. We are expanding our testing capabilities for **hydrogen fuel cell technologies**.

Case study:

Hydrogen testing under extreme temperature conditions





CERTIFIED CYBERSECURITY: DIGITAL PROTECTION IN MOBILITY, INDUSTRY & HEALTHCARE

In line with the **European Cybersecurity Act** and the **NCB standard for IEC 62443**, we are expanding our expertise in assessment within industrial and mobility environments. We support **post-quantum cryptography** and develop cybersecurity tools for connected vehicles. We have expanded our services for the **assessment of secure and data-sensitive medical technologies**.

Case study:

Selfy: Advanced cybersecurity for autonomous and connected vehicles



LEVERAGING TECHNOLOGICAL EXPERTISE TO CREATE VALUE AND SUPPORT INNOVATION

We use technology to drive **innovation** and **strengthen** industry capabilities. We provide tailored services for market needs and high-tech sectors.



Case study:

SUNRISE: European safety validation framework for CCAM systems



Case study:

Driving quality & innovation in the Asia-Pacific region

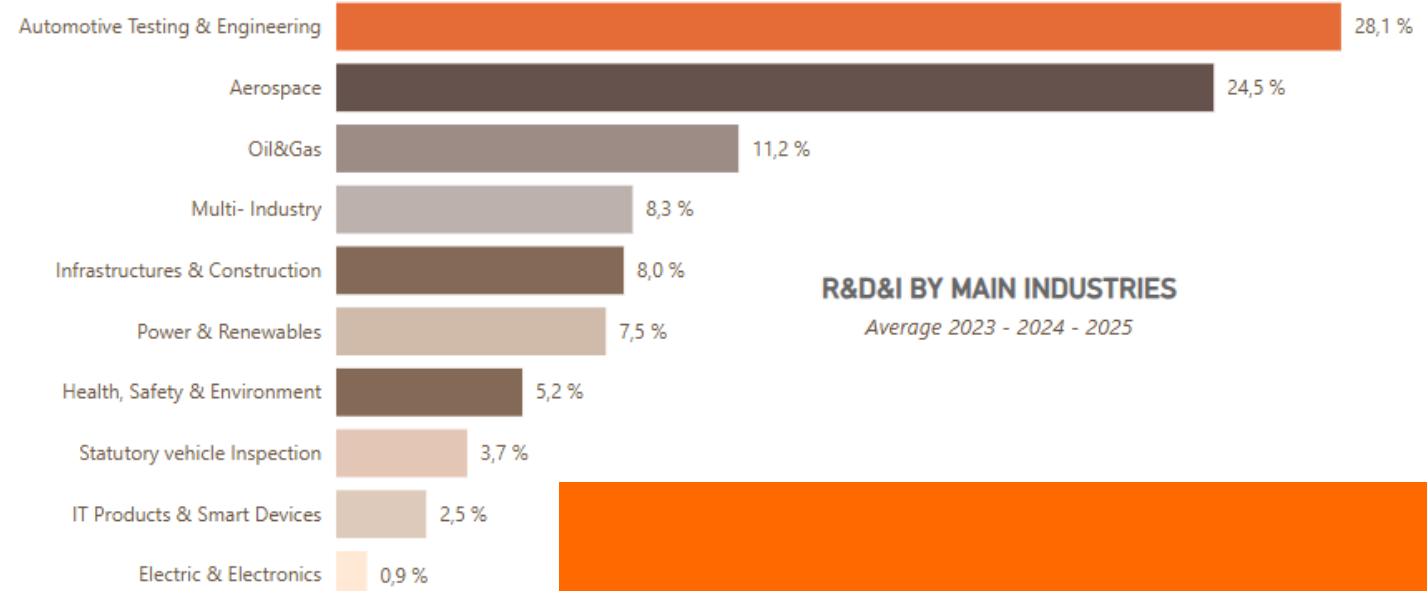
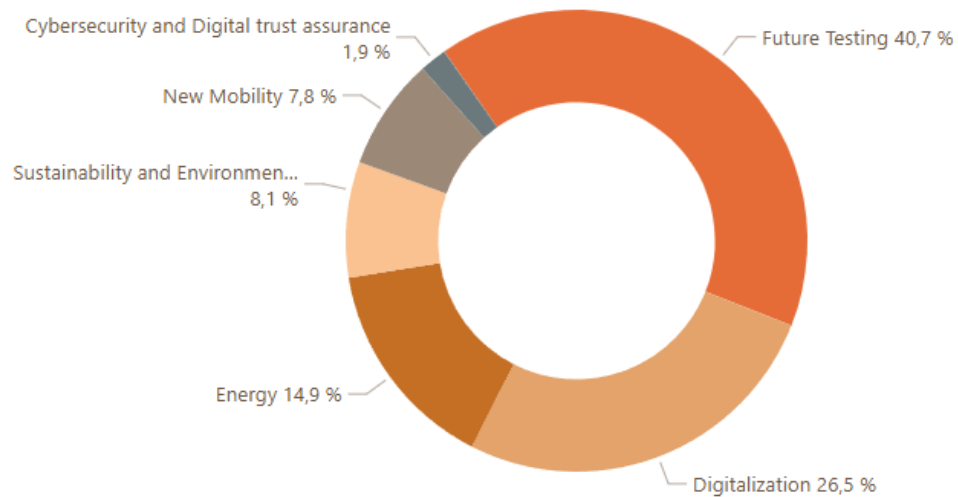


Case study:

Collaboration for monitoring of electrical transformers

R&D&I BY MAIN TECHNOLOGICAL LINE

Average distribution 2023 - 2025



R&D&I BY MAIN INDUSTRIES

Average 2023 - 2024 - 2025

The Applus+ divisions have successfully adapted to market trends, distinguishing themselves in:

- **Future Testing:** Includes new inspection techniques, non-destructive testing, and simulation.
- **Digitalization:** IT developments, including the development of artificial intelligence.
- **Energy:** Photovoltaic and wind power, energy efficiency, and hydrogen.
- **Sustainability, Environment, and Safety:** Chemical synthesis, environmental analysis, and integrated safety.
- **New Mobility:** Advanced communications; connected, cooperative, and autonomous mobility; and sustainable powertrain.
- **Cybersecurity and Digital Trust Assurance:** Includes certification of schemes and solutions for connected, cooperative, and autonomous mobility.

DIGITALISATION



e-MOTION-[AI platform](#) analyzing vehicle perception for market insights.

Labs of the future: Erasmus+ project advancing sustainable [lab digitalization](#) and AI-based training.

E-commerce: [On-line shop](#) for materials tests and legal metrology.



FUTURE TESTING



ROV technology- Applus+ delivers [non-intrusive underwater inspections](#) at a Qatar power plant.



Applus XRI: Applus+ Laboratories ranks among the top 10 innovative [radiology solution](#) providers for 2025.



Applus+ IDIADA integrates [advanced tire model](#) to enhance driving simulator realism.

ENERGY TRANSITION



BEPA –Applus+ Laboratories joins [European partnership to drive battery](#) innovation.



Chile's first HVDC - HVDC transmission [inspected](#) and environmentally managed via Ambiens Q platform.



Modular Charging Test System ([MCTS](#)) of IDIADA is a modular charging system advances EV charging testing capabilities.

SUSTAINABILITY-ENVIRONMENT-

SAFETY



Notice d.o.o. (Notice Slovenia) Notice Slovenia becomes Applus+ Laboratories' second [MDR Notified Body](#).

Advanced technologies enhancing road safety in [Lisbon and Setúbal infrastructure](#).

CITA Latam RAG conference –[Safer and cleaner vehicles](#)



NEW MOBILITY



Sustainable aviation requires clear rules – we help to set them

PTI_EV - [European workshop](#) conference on comprehensive electric vehicle inspection and standards. Recommendation N° 27

DIN Working Committee [Hydrogen research](#) advancements in aerospace presented by Applus+ Germany experts.

Hyperdröck- Revolutionary virtual technology for [early vehicle development and driving dynamics evaluation](#).



CYBERSECURITY



Test payment solutions compliance- Applus+ Shanghai expands [EMVCo](#) recognition for [contactless](#) payment testing.

Medical Devices- Applus+ authorized for [IEEE 2621 cybersecurity testing](#) for device manufacturers.



Applus+ Shanghai gains exclusive [PayCert](#) authorization for contactless testing.

Thanks!



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