



# PRESS KIT

RNTP September 2021

**For ACTIA  
The Public Transport  
of the Future  
is brought into the present**

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Hall 6

Stand 22b



# ACTIA

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### FOR ACTIA, THE PUBLIC TRANSPORT OF THE FUTURE IS BROUGHT INTO THE PRESENT

*“We live in a time of constant change where progressive solutions are transforming the vestiges of the past to build the future. Cities are growing. Everyone’s living space and mobility options in the urban environment are changing. This reality opens the door to many needs, such as alternative propulsion, autonomous driving, and multimodality where **people** lie at the heart of the system.*

*A leading player in embedded electronic systems, ACTIA innovates to shape a future in which **Smart Mobility** will be **safer, more sustainable and connected: to benefit people**. ACTIA uses its **vision, passion, and know-how** to actively bring this transition to life in a virtuous ecosystem of technological innovation, environmental considerations and respect for people.”*

Jean-Louis Pech, CEO of the ACTIA group.

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### 1- How the ACTIA model addresses public transport developments in a relevant and unique way

*“There is this ability among the group’s men and women to get ready for battle, stand together and unite their efforts in the most critical situations. This shared commitment to customer service is one of the strong values on which ACTIA is built. ACTIA is a deeply human company, where open-minded enthusiasts who are resolutely focused on the future give the company its soul, a little something extra that makes it unique.”*

Jean-Louis Pech, CEO of the ACTIA group

Founded in 1986 in south-west France, the group cultivates its uniqueness in many ways. Chosen by major international cities to equip their buses, underground trains, and trams with on-board systems, such as London, Madrid, Brussels, in Germany and across the Atlantic, in Boston and Canada, ACTIA now runs neck and neck with the major players in the sector as regards international public transport tenders.

Ours is a company on a human scale which has been able to adapt to changes, to the needs of the international market, to its technological breakthroughs, to the crises that come its way and to new opportunities. The group now offers electronic systems, on-board solutions and services related to vehicle connectivity. This offering, which is aimed at the entire value chain, is without any doubt one of the most comprehensive on the market. It makes ACTIA the preferred partner of both public transport operators and manufacturers.

#### **An international company on a human scale**

ACTIA’s culture draws its richness from the pioneering spirit that has driven the group since its creation. ACTIA was built on its ability to acquire an international reach in world markets, while consolidating a local dimension in each of the countries where the group operates. The group is now present in **fifteen countries** around the world and has a workforce of around 3,600 employees.

#### **A human-sized company**

With its head office in Toulouse, ACTIA defines itself as a family-owned MSE (Mid-Sized Enterprise), an industrial group rooted in its region and with international reach. The Occitanie region in the south of France is full of cutting-edge technology players, including manufacturers, laboratories and institutes, clusters, schools, and start-ups. A prominent figure in the regional ecosystem, it is in this stimulating environment that ACTIA cultivates **Innovation** as the key to **competitiveness** in increasingly demanding markets.

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#### **Its capacity for resilience**

We see increased tension around the world in terms of the environment, procurement, security, health, politics and other areas, and the group, which has to address international issues in this increasingly difficult and competitive environment, demonstrates its adaptability, agility and resilience.

Of course, the human factor plays no small part in this ability to adapt. The commitment of ACTIA employees contributes to the group's ability to navigate crises by constantly renewing itself and to maintain its former position of challenger and current position of major player in the public transport market.

#### **Unique through its positioning on the public transport market**

What other company in the public transport sector is able to meet the embedded equipment and service requirements of manufacturers, operators, managers and integrators of public transport vehicles, be they city buses or underground trains/trams?

ACTIA covers **the entire value chain of the passenger transport market**. This unique positioning is based on historical expertise in electrical and electronic vehicle architecture. ACTIA, a technological forerunner, actually spearheaded electronic vehicle multiplexing and pioneered electronic automotive diagnostics.

This position alongside all of the public transport players allows the group to get its timing right and anticipate and meet the different needs of the market.

#### **A comprehensive offering for public transport**

ACTIA's know-how for public transport is part of a global value creation for all market players and for all vehicles - buses, coaches, underground trains, trams, and trains:

- embedded architecture
- driver cockpit and displays
- driver assistance, eco-driving, speed limit assistance, fleet management
- electronic diagnostics, remote maintenance, and predictive maintenance
- electrification of vehicles
- on-board passenger information and entertainment systems
- passenger ticketing and counting systems
- embedded video protection, rear-view cameras, etc.

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#### Unique through its industrial capacity

ACTIA is an industrial group, one of the few mid-size OEMs to integrate its industrial resources. The ACTIA group has production sites on three continents. Its plants in France, Germany, Tunisia, and the United States offer a comprehensive range of production services and electronic services in fully certified environments. They are regularly audited by major international contractors.

#### **The 5th Industrial Revolution: a decisive shift for ACTIA**

For several years, the ACTIA group has been involved in reconfiguring its manufacturing facilities in order to deploy on its various sites the organisations, processes, skills, infrastructure and equipment necessary for implementing **the Factory of the Future**.

For ACTIA, the Factory of the Future must first and foremost be modular and reconfigurable to integrate new technologies related to the IOT and AI, among others, with a view to an overall organisational transformation. Incorporating this digital ecosystem within a production factory entails many major changes within the organisation, both in terms of new products and job development.

Industrial transformation projects are therefore accompanied by major training and skills development programmes. For example, the implementation of Cobots in factories allows operators to train so that they can devote themselves to actions with higher added value. People lie at the heart of these transformations, because a "smarter" industry is necessarily more respectful of teams and the environment.

**ACTIA's state-of-the-art electronics unit in Occitanie** is located in Colomiers.

An industrial showcase for the group, the Colomiers site employs 350 people and has a total workshop area of 5,100 m<sup>2</sup>. In recent years, the plant has benefited from significant investments in infrastructure and production facilities with the introduction of lines for medium and large production runs. This means the plant can offer versatile and modular production facilities in a highly certified industrial environment. Its various production capacities promote speedy execution and an unprecedented industrial agility, which is essential in order to cope with the current severe shortage of electronic components.

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#### **Local production: a major issue for the group**

The **industrial synergies within the group** enable us to pool tools and developments, as well as decentralise the industrial management of units. Thanks to the international presence of its production facilities, ACTIA is able to transfer production to other continents to address other markets in response to local specificities.

This industrial strategy is beneficial against a tense international backdrop in terms of the supply of materials and components, where producing in line with needs helps to optimise the supply chain and contributes to the group's capacity for resilience.

#### **What to remember about the "ACTIA model"**

**A local company with international reach**

**A human-sized company**

**A capacity for resilience provided by the teams**

**A technological forerunner**

**A comprehensive offering covering the entire value chain of the public transport market**

**An industrial dimension embedded in the group's DNA.**

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### 2- Creation of the ACTIA POWER division: ACTIA works for sustainable mobility

*“With the new ACTIA Power division and its entities, including ACTIA Power France, the ACTIA group is mobilising all the assets of a global partner for electromobility projects. By supporting its customers in their ecological transition, ACTIA maintains the trusting relationship it has built together with its customers for the same aim: to jointly address the challenges of shifting the market towards **sustainable and more environmentally friendly mobility.**”*

Jean-Louis Pech, CEO of the ACTIA group.

ACTIA continues to structure the Power division, enhancing the clarity of its vehicle electrification businesses. This division consolidates the various activities of the ACTIA group relating to the design and manufacture of on-board batteries, power electronics and electrification systems for electric and hydrogen hybrid mobility.

#### **Flashback on ACTIA’s historic expertise in electromobility**

The transition from internal combustion engine vehicles to other types of mobility is a worldwide priority for addressing environmental and public health challenges. This transition began more than two decades ago but has accelerated sharply in recent years in order to deal with today’s ecological challenges.

True to its values for more environmentally friendly mobility and tuned in to market needs, ACTIA has come up to the mark right from the outset: in the late 1990s, the group was involved in developing the first ground-breaking electric vehicle for a French car manufacturer (Renault).

ACTIA’s long-established history in vehicle electronics and power management means the group can now offer manufacturers **end-to-end** electrification and power conversion **solutions**.

#### **Supporting the ecological transition of vehicles**

ACTIA is a long-standing partner of manufacturers and integrators of industrial, commercial and railway vehicles. The ACTIA Power division draws on this past experience. Its ambition is to develop a strong international footprint, both technological and industrial, to support manufacturers with their **electromobility** and **vehicle electrification** programmes.

The technological anchoring of this new division is reinforced by the strategic partnership signed between ACTIA and **CEA Tech**.

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### **ACTIA Power brings together several entities around the world**

The **ACTIA Power** division is structured around the ACTIA Power holding company and various affiliated entities: design offices, industrial sites and commercial front offices in France, Germany, the United Kingdom, and the United States.

In France, electromobility-related activities are carried out by **ACTIA Power France**. This entity includes the technical, sales and customer support teams.

### **An international industrial footprint**

ACTIA's flexible and modular industrial organisation, from small to large production runs, is a key success factor in this electric vehicle market.

The industrial electromobility business has three production sites in Europe and the United States.

ACTIA relies on a team of experts to model the group's production facilities on an international scale. This group synergy makes it possible to pool tools and developments.

The combination of these production units provides ACTIA with industrial capabilities of a high technological level and of equal quality, regardless of the country of production. This desire to raise all of the group's production facilities to the same level of performance in terms of quality and competitiveness is part of the group's strategy.

### **ACTIA's electromobility terrain**

The creation of the ACTIA Power division is a major line of development for ACTIA.

It demonstrates the group's commitment to the challenges of **sustainable mobility**.

The group has developed its expertise across the whole on-board offer of an electric vehicle:

- engine and powertrain system
- battery and battery management system
- power conversion
- associated engineering services for turnkey designs.

Drawing on its position as a major partner of the manufacturers in its traditional markets, the group is expanding its offer for the demanding and diverse railway, heavy goods vehicle, bus and coach, agriculture, construction, and shipping markets.

ACTIA's e-mobility offer is also attracting new customers, such as integrators, coach builders and manufacturers of other types of vehicles such as municipal vehicles or mining equipment ... ACTIA is making electromobility possible everywhere, for all markets and architectures.

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#### Removing the barriers to e-mobility

ACTIA supports the industry, which is facing profound technological, environmental, and societal challenges in a context of tremendous change in the sector. The group is positioning itself as a major player in the deployment of key e-mobility technologies. ACTIA is therefore helping to remove the many technological barriers that still exist, through various innovation programmes.

For example, ACTIA is leading the Power2024 innovation project as part of the national CORAM call for projects. The aim of the innovation project is to break down the barriers to the electrification of heavy vehicles.

To be more precise, ACTIA will collaborate with the other members of the consortium and cover the development of:

- “cell-to-pack” battery systems
- multi-level and multi-application miniaturised power conversion modules
- power optimisation algorithms and their approval on hydrogen buses and 100% battery-powered buses.

Driven by innovations that generate sustainable competitive advantages and a strong national and regional base, the POWER2024 project will:

- increase the sector’s competitiveness
- develop a future industrial presence in the Occitanie region
- and create jobs.

It is consistent with green mobility, concerned with its impact on the whole ecosystem.

The growth of ACTIA's activities on the electric vehicle market and the group's technological expertise in power electronics are rooted in its responsibility with respect to environmental issues.

ACTIA’s full electromobility offer is available at: [electromobility.actia.com](https://electromobility.actia.com)

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### 3- ACTIA is now investing in micromobility: ACTIA works for sustainable mobility

*“Micromobility refers to the family of small lightweight vehicles used in urban areas such as electric bikes, folding bikes, hoverboards, electric scooters, gyrowheels, electric skateboards and all other electric motor vehicles. It provides an agile and clean solution for short distances that complement bus, metro, tram, and train journeys, for example.*

*Technology is an important component of this ‘portable’ mobility. The innovations needed are aimed at improving safety, simplifying use, and optimising battery management in an eco-friendly way. Vehicle electrification, connectivity... ACTIA therefore has all the expertise required to meet this new challenge: supporting the development of new practices for multimodal mobility.”*

Jean-Louis Pech, CEO of the ACTIA group.

On 1 July 2021, ACTIA gave the two-wheel electric traction system its first test drive with the launch of a new business dedicated to micromobility, in particular the Electrically-Assisted Bicycle (e-bike).

This activity is therefore operating in this fast-growing market. E-bike sales in Europe are increasing by nearly 50% per year. Driven by its own international competitive conditions, it is mainly guided by the change in urban mobility practices and the digital needs of users and fleet managers alike.

**As an equipment manufacturer**, ACTIA holds all the keys for targeting this market in a highly competitive manner, including:

- its experience as a system designer, especially in electrification and vehicle connectivity
- its local industrial infrastructure that meets the Automotive quality standards
- its know-how in personalisation according to customer needs
- its agility and capacity for innovation.

True to its values in favour of more sustainable mobility, ACTIA’s approach to micromobility is based on its eco-design approach which guarantees:

- the reliability and longevity of the proposed solutions
- repairability
- the traceability of the materials used and their recyclability.

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#### From the connected car to the connected bike, ACTIA takes the plunge

The e-bike is the most technologically advanced PLEV. It is a bicycle equipped with a rechargeable battery, controllers, and an electric motor. The e-bike is the focus of many technological innovations. The R&D focus areas are generally the same as for the automobile.

So all of ACTIA's know-how, tried and tested in its traditional markets, is ideally suited to the electric micromobility market: power electronics, the "smart" battery, its electronic management systems and the electric traction system.

Of course, **connectivity** offers new services to users or managers. Like the car, the bicycle of the future will be **connected** and **equipped with multiple sensors**. For example, its connectivity will be used for **security** to reduce the risk of theft or for the cyclist's **safety** to avoid accidents. This connectivity will also help to **maintain or repair** the e-bike.

#### **For a better understanding: practical examples of the use of connected bicycles**

The bicycle's connectivity means a large number of data relating to the bicycle and the cyclist can be displayed on a remote screen or smartphone.

- Useful information like the different battery assistance modes, its charge level for example.
- Navigation assistance data, a GPS indicating directly on the handlebars the route to be followed on a programmed route.
- The integration of an accelerometer into the system means an alert can be sent to the user's emergency contact if they fall.
- Of course, bicycle connectivity also makes sense for managing fleets of these smart bicycles.

Finally, connectivity makes the electric bike **scalable**. Performance, including speed limits, can be updated simply by using a phone, in line with changing regulations.

ACTIA is already developing specific applications for interfacing the electric bike with the user, fleet manager or repair professional and with its environment.

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#### **Could the e-bike be poised to overtake the mechanical bike?**

Both economical, practical, and eco-friendly, electric micromobility is much more than a fad. PLEVs (Personal Light Electric Vehicles) provide a real answer to urban mobility requirements and above all flexibility and intermodality, with electric bicycles often complementing existing public transport services.

At the top of the list, the e-bike (Electrically-Assisted Bicycle) is the first choice of vehicle to be used instead of public transport or the car in urban areas.

Its use has increased since the COVID-19 crisis: 300% growth is expected in Europe in this market in the coming years. The momentum for the e-bike is only just beginning and 2021 will almost certainly set a new sales record.

The market is supported by the development of cycle paths and by favourable government or local measures.

#### **Who are ACTIA's future customers in the micromobility market?**

To meet demand, the market is getting organised, and supply is expanding. New players and new economic models are emerging in this rapidly changing market.

Traditional distributors such as specialist shops and multi-sports brands are seeing the arrival of new distributors in the market. These are manufacturers who are adopting **direct selling or "pure players"**. These manufacturers, long confined to the sale of spare parts and accessories, are also looking to take advantage of the potential offered by the boom in the market. The rise of the e-bike has also encouraged the creation of new brands and **major retailers** such as Auchan and Amazon are also investing in the electric bike niche: With a proven system offering, ACTIA will be able to hold a solid position in these new targets.

The development of the electric bike also contributes to the **emergence of new service offerings:**

- in the bicycle repair and maintenance segment
- theft insurance
- short-term rental (STR)
- very short-term rental continues via self-service, which should remain the exclusive preserve of those working with local authorities and public transport operators.

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These new services require ever more connectivity on bicycles, and manufacturers are constantly developing their models to take advantage of these opportunities. In this rapidly expanding market, **ACTIA has a real card to play with a French product line, positioned on an excellent price-quality ratio for accessible, efficient, and high-quality high-end products.**

Micromobility is a promising growth driver for ACTIA which has all the competitive advantages in its pocket, such as technologies, system approach, production facilities and After-Sales support.

The market promises many development opportunities with the increasing number of other motorised vehicles such as scooters, unicycles, gyropods, electric skateboards and hoverboards and other uses such as cargo bicycles for deliveries, transporting children or company bicycles(!).

So many opportunities which ACTIA will seize with its characteristic agility and entrepreneurial spirit.

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### 4-ACTIA works for the all-round performance of passenger transport

*“With the health crisis, many passengers have abandoned public transport, buses, trams and metros. The number of people using them is picking up but remains below the pre-crisis level. In this context, public transport operators are working to further increase their **appeal** and **retain** their users. Against the backdrop of accelerating **ecological transition**, they must **operate their fleet** as leanly and precisely as possible, bringing their vehicles up to the highest **operating rate**. Of course, faced with these constraints, manufacturers also play an important role in providing ever more environmentally friendly, reliable, and efficient vehicles.*

***ACTIA is a global player in public transport**, and we can make a great contribution to this growing demand for performance. We are talking not only about the technical performance of the vehicles, but also about economic and ecological performance. Performance in the services offered to users is just as important, with the prospect in sight of a **passenger journey** which is as smooth, pleasant, and safe as possible... ACTIA’s approach therefore falls within this goal of **all-round performance**.”*  
*Jean-Louis Pech, CEO of the ACTIA group.*

#### Passenger loyalty and the appeal of public transport require improving the passenger journey

ACTIA helps improve the **passenger journey**. Transport must provide a safe, positive, and **inclusive** experience. ACTIA systems contribute to **the passenger experience** by offering services focused on **reliability, speed, punctuality** of service and **accessibility** to information in real time.

More than ever, users' needs focus on:

- On-board services with passenger information (PI), ticketing and the payment method or the real-time traffic situation
- Safety
- Transport intermodality...

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#### **ACTIA: solid expertise in Passenger Information (PI) systems**

ACTIA's experience in **on-board information management** enables the group to offer highly innovative, comprehensive, and efficient systems that provide quick access to all information about the journey. ACTIA develops and produces **audio and visual** Passenger Information (PI) solutions suitable for all train, tram, or metro configurations.

The ACTIA group has particular technical PI expertise in the railway sector.

To date, no fewer than **6,000 ACTIA monitors** are in operation on the tracks.

ACTIA equips trains, metros and trams in Australia and South America, such as the Medellín metro and the Sydney tram. But among the group's customers we also have large European public transport and rail companies, which represent a large market in the midst of change." This concerns cities like Edinburgh, Brussels, Amsterdam, Nice and Paris. Not to mention Russia and the Asian continent with Istanbul, Taiwan, or Qatar...

#### **Improving safety on board transport**

Passenger and driver safety is a major issue in the world of transport. ACTIA video-surveillance solutions are chosen to equip many vehicles and over **9,000 vehicles** are equipped with them worldwide.

On the railway market, the group innovates by offering rear-view and video-surveillance systems **connected to the ground**. This means that security stations are able to track events in the rolling stock as well as on platforms and in stations, **in real time**. This **connected video-surveillance** system is a great leap forward for passenger safety.

The system has recently been deployed on the TER trains in the AUVERGNE-RHÔNE-ALPES region (by SNCF) and is poised to win over other regions as there are significant safety benefits.

On 1st July, **ACTIA acquired the software business of HYMATOM**, a company specialising in Video Management Systems (VMS). This acquisition consolidates ACTIA's safety and video-surveillance offering for public transport.

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#### Traffic management in vehicles

The occupancy rate of vehicles is crucial for passenger comfort. The pandemic has heightened passengers' aversion to overcrowded transport!

ACTIA is developing **passenger counting** systems to adapt the service in real time. Transport operators can provide users with updates on the network status (bus, metro, tram) so that they can adapt their route.

#### ACTIA also innovates in smart ticketing systems

Ticketing solutions contribute to improving the efficiency of public transport networks and the service offered to the user. ACTIA's smart ticketing system is **the first to offer four types of technology for validating** or purchasing a ticket: RFID (or radio-frequency identification), by credit card, including contactless payment, by Bluetooth reader or QR code. Passengers therefore have the option of validating their ticket with their smartphone by automatic detection. This innovation supports the development of "contactless" accelerated by the pandemic.

This module has got off to a promising start on the market, having been selected as the Prize Winner of the 2019 Embedded and Connected Objects Trophies event at the MtoM Embedded trade fair and given that it is already fitted in a fleet of **250 school buses** travelling all over Normandy.

#### ACTIA supports changes in user practices

A major player in **multimodality**, ACTIA supports travellers at every stage of their journey. Indeed, its solutions, products and services are at the heart of all the vehicles we use to get around: personal (or rental) vehicles that can integrate ACTIA connectivity and be maintained and repaired by the group's diagnostic equipment, buses, coaches, metros, trams, trains, planes, and now **micromobility...**

**Whatever the mode of transport, ACTIA solutions incorporating 35 years of know-how contribute to ever more efficient mobility.**

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### ACTIA contributes to the technical performance of vehicles

Relying on four historic technological building blocks - **embedded electronic architecture, telematics, electrification** and **vehicle diagnostics** - ACTIA develops solutions that help enhance the technical performance of vehicles. These solutions are based on **the interoperable architecture** and increasing **connectivity** of vehicles.

**The interoperability of the vehicle's embedded architecture** is central to the issues of more efficient mobility. The aim is to offer vehicles that can easily integrate new functionalities to benefit both operators and users.

**In this field, ACTIA's investment in the European Bus System of the Future (EBSF) project has been crucial** in helping to define a new generation of vehicles in which "plug & play" equipment can be embedded. Today, ACTIA is able to equip vehicles with fully interoperable architecture with an extremely wide range of **ITxPT** certified solutions.

### ACTIA works for the economic and energy performance of fleets

#### **For fleet performance: ACTIAFleet**

ACTIA helps operators take care of their fleet. The group offers fleet management solutions for urban buses and coaches to combine the imperatives of **safety, comfort, environment, and management**.

These solutions rely on embedded equipment: **telematics gateway units** and **displays** linked to the MyACTIAFleet telematics portal.

The MyACTIAFleet portal allows the operator to read and manage indicators and dashboards in **real time**. In particular, the system provides data on the vehicle's health in order to anticipate maintenance and prevent possible breakdowns. The ACTIA solution therefore helps to maintain the operating rate of the vehicles.

Of course, the platform includes **new energy vehicles**: NGV, electric, hybrid and soon hydrogen. It therefore enables public transport network administrators to better manage the **energy transition** of their fleet.

Tested and adopted the first time by TISSÉO Collectivités, on the Toulouse network, this solution marketed by ACTIA in Europe was chosen by networks of major operators such as RATP, TRANSDEV, KEOLIS, TISSÉO, RTM, and more.

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It is used (in different versions) by more than a dozen other cities such as Paris, Marseille, Bordeaux, Lyon, Nîmes, Avignon, Dijon, Mulhouse, Angers, La Rochelle, and Villepinte.

#### For performance in driving vehicles

Bus drivers are the vehicle's primary users, and their on-board duties change. They must handle an increasing number of factors to ensure the safety of passengers and other road users, deal with traffic, sell tickets, and sometimes even serve as a guide to users, whilst adopting eco-driving practices and techniques.

ACTIA develops integrated driver assistance systems to help them with their duties, such as:

- the ACTIA Eco Drive, a solution, successfully tested by TISSÉO Collectivités
- ISA (Intelligent Speed Assistance), for adjusting the vehicle's speed to the area's speed limit, particularly in **LEZ** (Low Emission Zones). This system is approved by Transport For London (TFL).

#### Interfaceable driving aids on the ACTIA dashboard: PODIUM 2

The ergonomics of the **Podium 2** dashboard contribute to more efficient driving. ACTIA's flagship product, Podium 2, is manufactured at the Colomiers plant near Toulouse. It is fitted on the IVECO Bus and HEULIEZ buses that run on the TISSÉO network in Toulouse, and on buses in the Paris network.

The dashboard has also attracted international bus manufacturers. It has been fitted on vehicles in circulation in many European cities and around the world such as: Madrid, Brussels, Rome, Prague, Warsaw, Quebec, and New Delhi, and has penetrated the Chinese market with Beijing and Shanghai.

#### Moving towards a digital cockpit

ACTIA displays and dashboards are designed with the user in mind. This user-oriented approach is aimed at improving the driving experience (UX), gradually bringing the group closer to the **digital cockpit**. This dashboard with its fully digital and interactive display will gradually replace the traditional analogue dials with a screen which simulates the functioning of the dials.

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This technology has already proven successful in cars. In fact, in terms of improving **the driving experience**, the digital cockpit is experiencing rapid growth. This trend is also being driven by the development of **semi-autonomous** and **autonomous** vehicles, building a solid platform of opportunity for ACTIA's electronic equipment activities.

The proof is clear: ACTIA develops solutions to make mobility smart, seamless, responsible, accessible, cost-effective, and ever more efficient.

The group therefore supports development in the public transport sector by proposing innovations addressing the major challenges of mobility. These include the passenger experience, passenger safety and comfort, driver safety and comfort, environmental protection and management imperatives that allow manufacturers to stand out in the eyes of their operator and integrator customers.

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### 5- ACTIA: innovation as a driving force

*“In order to support the profound changes in the public transport sector, at a regulatory, social and technological level, ACTIA aims to offer its manufacturer, operator and institutional partners the best technological solutions, for **clean, connected, safe and autonomous vehicles**.*

*The ACTIA group is directing its innovation efforts to achieve two major goals that are not only technological but also societal and environmental: **Smart Mobility** and **Smart Cities**.” Jean-Louis Pech, CEO of the ACTIA group.*

#### **A policy of on-going investment**

Innovation is the key to competitiveness in this increasingly demanding public transport market and requires major investment year after year. ACTIA invests a total of 14 to 18% of its turnover in R&D each year. In 2020, this investment amounted to €76 million for a turnover of €438.6 million (just over 17% of its turnover).

#### **Smart mobility: 5 major structuring innovation themes**

ACTIA’s investments in public transport innovation are organised around five major structuring vehicle-based innovation themes:

- The clean vehicle
- The autonomous vehicle
- The safe vehicle
- The connected vehicle
- The so-called “augmented” vehicle, by connectivity, new on-board architectures, and the digitalisation of most of its functions.

Public transport is obviously involved in these innovation themes, whether with regard to city buses, trams and metros or micromobility.

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### ACTIA co-innovates

ACTIA has many partnerships both upstream with key technology providers (start-ups, laboratories, major suppliers) and downstream with its ordering customers.

#1 Long-standing partnerships with **major manufacturers** and **integrators** of passenger transport vehicles, such as: ALSTOM, BLUEBUS, CAETANO BUS, CAF, DENNING, HEULIEZ BUS, IRIZAR, IVECO BUS, KIEPE ELECTRIC, OPTARE, SAFRA, SCANIA, SOLARIS, SIEMENS, TALGO, STRADLER, VDL, WRIGHT BUS, and more... and with the main **market operators**: RATP, SNCF, KÉOLIS, TRANSDEV and locally TISSÉO Collectivités.

# 2. A new strategic partnership signed with **CEA Tech** means ACTIA can benefit from access to CEA's full technological potential for 5 years. The aim is to provide new electrification and energy conversion solutions by developing new battery ranges and power electronics components.

# 3. A partnership with **GSR, Groupe Surplus Recyclage** and CEA, as part of the **Power2024** project led by ACTIA (national **CORAM** call for projects). The aim of the Power2024 innovation project is to break down the barriers to the electrification of heavy vehicles.

# 4. A partnership for the **autonomous electric bus**. The **EFIBA project**, which brings together **BLUEBUS, KEOLIS, NAVYA** and **ACTIA**, has just won an award under the Investments for the Future Programme (PIA4) and its objective is to launch an autonomous electric public transport bus on the market. France's first autonomous electric bus will be 6 metres long and carry up to 34 passengers. It will be able to provide commercial public transport services without a driver or operator on board. The project has set itself the target of designing, producing, and certifying two prototypes in 2021 and 2022, with operational demonstrations on private sites, followed by public sites in 2023 and 2024.

ACTIA, as equipment manufacturer, will provide the **electric drive system**, the **embedded electrical/electronic architecture management** system (with a special focus on the equipment for controlling the automatic doors) and, lastly, **remote vehicle monitoring and diagnostic** solutions.

All of these challenges will be tackled with a constant eye on the specific **dependability** and **safety requirements** related to autonomous and smart vehicles.

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#5. Active involvement in **collective** public transport **initiatives**, including:

- Close involvement in the **TOTEM** Regional Cluster (Smart and Sustainable Mobility in the South-West), of which Jean-Louis Pech, CEO of the ACTIA group and Pascal Pin, RAIL Director of Operations, are active members.  
For the **railway sector**, the cluster's objectives are divided into three focus areas:
  - developing business at regional, international and major group level
  - encouraging and promoting innovation
  - participating in sector events: SIFER, M2S, Innotrans, ITS trade fairs, etc.
- ACTIA participates in the standardisation of public transport. It is a **founding member of ITxPT** for the standardisation of equipment in buses and cities. ACTIA's investment in the **European Bus System of the Future (EBSF)** project has helped define a whole new generation of vehicles. The ITxPT (Information Technology for Public Transport) certification arose from this project, which identifies a standardised IT architecture, operated by interoperable "plug & play" equipment.
- **Member of the International Association of Public Transport (UITP)** for the standardisation of technologies. The international association brings together the world players in the sector: manufacturers, operators, cities, equipment manufacturers, etc. It focuses on the economic, technical, organisational and management aspects of passenger transport, as well as the development of mobility policy and public transport worldwide.

### ACTIA challenges its innovation

ACTIA engineers do not shy away from comparing their research and innovation capabilities with those of international engineers in competitions such as the MOT Challenge: Multiple Object Tracking. This competition is the global benchmark for tracking objects in a video scene. Tracking moving objects in a video scene relies on **artificial intelligence**. The applications of such technology for public transport open up new horizons for passenger counting, for example.

Innovation therefore drives the ACTIA teams in a creative and entrepreneurial dynamic that has been the group's hallmark since its creation. The skills and commitments of each employee are the driving force behind the whole organisation's performance. Driven by its family values, ACTIA invests in training its employees and developing their skills, and it supports knowledge development, thereby establishing **innovation** as a **corporate value**.

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### 6-TISSÉO Collectivités-ACTIA: two local players involved in the energy transition of public transport in Toulouse

The RNTP trade fair in Toulouse is an opportunity to bring together the many players in public transport and in particular the Toulouse ecosystem, which is deeply committed to mobility. TISSÉO Collectivités and ACTIA are local players in this ecosystem and are jointly committed to developing clean mobility. Their long-standing technological partnership focuses on eco-driving, remote maintenance and predictive maintenance solutions.

#### ACTIA's eco-driving adopted by the TISSÉO COLLECTIVITÉS network

TISSÉO and ACTIA began their partnership in 2017 with eco-driving and remote maintenance pilot phases. These pilot phases make it possible to test the solution under actual operating conditions.

The first "**eco-driving**" phase aimed to test 70 vehicles reconfigured with the MyACTIAFleet telematics solution. The aim was to highlight the potential gains of this ACTIA solution.

About fifty bus drivers received eco-driving training via ACTIA's CDT (Compulsory Driver Training) solution.

Over a 6-month period, from January to July 2019, **initial results showed an average drop in energy consumption of 5%**, also representing savings of 27,000 litres of fuel.

In autumn 2020, the trend was confirmed following a **2nd test phase involving 136 vehicles in circulation on the Toulouse network**.

Since then, TISSÉO has systematically fitted all new buses joining the fleet with the ACTIA eco-driving solution. Today, the fleet has 240 vehicles, increasing by 50 vehicles per year.

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The ACTIA **eco-driving solution** is helping to make the Toulouse transport network more efficient. It has its rightful place in the plan for environmental protection and increasingly carbon-free mobility to which TISSÉO is committed by gradually shifting its fleet towards new "new energy" vehicles, in particular electric ones.

The **MyACTIAFleet New E** version, for New Energy, manages all engine types: diesel, hybrid, gas, electric and soon hydrogen. The solution will provide an integrated data display on the ACTIA dashboard: Podium 2. Podium 2 is fitted in buses made by the French manufacturer **IVECO HEULIEZ** in operation on the TISSÉO Collectivités network.

### The TISSÉO Collectivités-ACTIA partnership also includes other solutions in the testing phase

As part of the TISSÉO Collectivités – ACTIA partnership, a 3rd test phase focuses on **remote maintenance**. It consists of setting up the **remote technical monitoring** of vehicles and its main operating parameters and displaying alarms on the dashboard in real time from the same MyACTIAFleet telematics solution. Remote maintenance paves the way to **predictive maintenance** which will make it possible to anticipate certain breakdowns and therefore increase the service rate of city buses.

With its telematics solution, ACTIA closely supports the operator TISSÉO Collectivités with its environmental and economic concerns, in order to ensure continuity of service to users.

### About TISSÉO Collectivités

TISSÉO Collectivités, the mobility organising authority of the greater Toulouse metropolitan area, defines travel policy and organises and finances its implementation in the region. To implement transport infrastructure projects, TISSÉO Collectivités entrusts TISSÉO Ingénierie with the design and construction of new infrastructure. To produce a high-quality service, TISSÉO Collectivités entrusts TISSÉO Voyageurs with the operation, development, and marketing of the service and with asset management. The area comprising the territorial jurisdiction includes 108 municipalities with the city of Toulouse. It covers 1,115 km<sup>2</sup> and has 1.33 million inhabitants.

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### 7- IVECO France and ACTIA

#### A partnership driven by strong common values

IVECO France, with its two brands IVECO BUS and HEULIEZ, is one of ACTIA's long-standing customers. ACTIA equips the manufacturer's bus ranges with the Podium 2 dashboard connected to embedded electronic equipment, which manages the electric functions of the vehicles. In the current renewal phase of the IVECO BUS and HEULIEZ ranges, all of the French manufacturer's new urban models will incorporate the ACTIA dashboard. The two vehicles presented at the IVECO France stand at the RNTP trade fair in Toulouse are a good illustration of this partnership.

#### IVECO France and ACTIA working for sustainable mobility

With a comprehensive range of alternative fuel vehicles, IVECO France supports public transport operators in the energy transition of their fleet. IVECO France is therefore one of France's leading clean vehicle manufacturers. In 2020, vehicles in the low-floor urban range with non-diesel engines accounted for more than three-quarters of production, a 17% increase compared to 2019.

The IVECO CNG (compressed natural gas technology) URBANWAY model and the HEULIEZ GX ELEC (100% electric) model are highly successful due to their environmental and technological performance. They are chosen to equip the bus lines in many cities. The 500th HEULIEZ GX ELEC has just been produced. It is intended for the Aix-Marseille-Provence urban community. The new "clean bus" Step E version of the CNG URBANWAY, with the latest generation engine meeting the Euro 6-E standard coming into force on 1st January 2022, is presented on the IVECO France stand at the RNTP trade fair along with the long-version GX 137 ELEC, the latest in the HEULIEZ 100% electric range.

In line with this commitment to sustainable and environmentally friendly urban mobility, ACTIA supports many cities in implementing eco-driving solutions and in managing multi-energy fleets, thereby facilitating the energy transition of urban bus fleets.

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#### **IVECO France and ACTIA committed to “Designed and Made in France”**

The URBANWAY NGV and GX 337 ELEC models are produced in the Annonay plant in Auvergne-Rhône-Alpes and the Rorthais plant in Nouvelle-Aquitaine, respectively. The URBANWAY Cursor 9 CNG engine is manufactured in the Bourbon-Lancy FPT plant in Saône-et-Loire. These vehicles have “Origine France Garantie” certification, confirming that more than 50% of their value is acquired in the country and they contribute to sustaining the French passenger transport industrial sector. Similarly, the Research and Development centres in Vénissieux and Rorthais are part of this strong national foothold.

These two vehicle ranges are equipped with the PODIUM 2 dashboard, designed and produced by ACTIA. Here again, synergies are at work and make sense, since the PODIUM 2 dashboard was developed by the teams in the ACTIA design office in Toulouse, a design office with almost 150 people working in it. It is manufactured at the Colomiers industrial site (on the outskirts of Toulouse).

**It is through a solid technological partnership that all French know-how in terms of equipment and solutions for public transport is demonstrated.**

#### **About IVECO BUS**

IVECO BUS is a brand of CNH Industrial N.V., a world leader in capital goods listed on the New York Stock Exchange and the Milan Stock Exchange. A major player in the field of public transport, and among the leading manufacturers in Europe, IVECO BUS designs, manufactures and markets a broad range of vehicles that specifically address the requirements of private transport companies and public transport organising authorities:

- school, intercity, mainline and tourist coaches
- standard and articulated buses and their high-speed commuter versions (BHNS)
- urban midibuses
- Daily minibuses for all passenger transport missions.

IVECO BUS has long-standing expertise and know-how in the field of alternative energies and is now able to offer a complete range of compressed natural gas vehicles - compatible with biomethane - and electromobility, thereby catering for all types of missions. As a result, IVECO BUS is a genuine partner of choice for addressing the many challenges of sustainable mobility.

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IVECO BUS employs more than 6,000 people and has three plants located in Annonay in France, Vysoké Myto in the Czech Republic, and Brescia in Italy, and an Electromobility centre of excellence in Rorthais, France.

An extensive network of IVECO BUS and IVECO service points guarantees assistance anywhere in the world where an IVECO BUS vehicle is in operation.

For more information about IVECO BUS, visit [www.iveco.com](http://www.iveco.com)

For more information about CNH Industrial, visit [www.cnhindustrial.com](http://www.cnhindustrial.com)

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