MASMOVIL, ABERTIS, OPUS RSE, CELLNEX, INDRA, VINCES and ALPHA SYLTEC INGENIERIA launch CRETA, an innovative project to promote sustainable mobility and reduce traffic emissions

- *The objective is to create a new system for intelligent traffic monitoring and management through different cutting-edge technologies.*
- *The project includes three pilot projects in Madrid, Barcelona and Gipuzkoa to demonstrate the benefits of leveraging 5G technology to reduce road traffic emissions and improve the management of mobility flow.*
- *Thanks to this project, Public Administrations will have tools to improve air quality and protect the environment, positively impacting the well-being of citizens.*
- *For its development, the CRETA project has been endowed with a grant of €2.7M financed by the European Union-NextGenerationEU within the framework of the Recovery, Transformation and Resilience Plan of the Ministry of Digital Transformation and Public Function and the Spanish Recovery and Resilience Mechanism.*

Madrid, May 16, 2023. The consortium of companies formed by the MASMOVIL GROUP, ABERTIS, CELLNEX, INDRA, OPUS RSE, VINCES and ALPHA SYLTEC INGENIERIA has launched CRETA, an innovative project to promote sustainable mobility and the reduction of emissions through 5G technology.

The objective of this initiative is to create and implement an active and dynamic transport and mobility management solution based on the control of the real emissions of each vehicle and the optimization of traffic flow through different disruptive technologies, to reduce transport emissions and protect the environment.

The CRETA project is based on the integration of 3 different technologies; 5G, vehicle emissions remote sensing and advanced analytics and Artificial Intelligence, for the optimal management of traffic mobility and air quality.

To achieve this objective, CRETA is based on the following pillars:

- **Communications**: the creation of a 5G system capable of interconnecting data in real time between different sensors, infrastructures and vehicles.
- **Mobility**: creation of a variable pricing model considering the use and external environmental externalities produced by each vehicle, even according to the real emissions per passenger.
- **Environmental**: Monitoring of the reduction of the source of emissions (road traffic) with autonomous remote sensing systems connected to the 5G network.

"We are very happy that the Ministry of Digital Transformation and Public Function, through the Secretary of State for Telecommunications and Digital Infrastructures, has opted for the CRETA project to receive the first grants from the UNICO Sectorial 5G Plan that will allow us to achieve important sustainable development objectives".

"With the support of 5G technology, we will measure the real emissions of vehicles, and use advanced analytics and artificial intelligence to drive optimal traffic management and emission reduction with the aim of improving air quality and demonstrating the commitment of this consortium of leading companies to create a positive impact on society", said José Jiménez, Director of Innovation of the MASMOVIL Group and coordinator of the project.

3 pilot projects to demonstrate the favorable results of 5G technology

For the launch of this project, CRETA partners will develop 3 pilots that will demonstrate the benefits of applying 5G technology for the reduction of traffic emissions in three strategic areas:

1. **Management of urban mobility and low emission zones (LEZ)**. Demonstration of a global system for monitoring, analysis and intelligent management of urban mobility in Madrid and/or Alcobendas, which will test access control to LEZs based on different parameters. It is proposed to implement it on the M30 in Madrid and at the accesses to Alcobendas, different sensors and remote measurement systems of emissions, cameras and 5G network, for advanced monitoring of road traffic and its real emissions.
2. **Interurban mobility and access to cities**. Through a pilot in Barcelona with the collaboration of Barcelona City Council, Barcelona Metropolitan Area and the Generalitat de Catalunya. The ability to fairly price the circulation of vehicles taking into account their real and individual emissions will be demonstrated, adjusting the access fee to the city in a variable way.
3. **Cross-border control and payment for pollution.** By carrying out a pilot in Gipuzkoa (Irún) with the collaboration of the Provincial Council of Gipuzkoa and the Basque Government, the

capabilities to discriminate against heavy vehicles based on their real emissions and activate real-time alerts if vehicles suspected of having been illegally manipulated are detected, will be demonstrated.

Thanks to this project and the development of these three pilots, authorities will have tools to improve air quality and protect the environment for the well-being of citizens. In addition, road infrastructures will enjoy greater control of mobility that will allow an improvement in the flow of traffic and a reduction in accidents, among other advantages.

Finally, this project was born with the ambition of exporting the active and dynamic management model of transport and mobility to different countries thanks to the international presence of the companies that make up the consortium.

A consortium made up of 8 leading Spanish companies in their different sectors of activity

The CRETA project is coordinated by MASMOVIL Group and has the participation of leading Spanish companies in their sectors of activity that provide the knowledge and technology necessary for the control and reduction of traffic emissions.

MASMOVIL Group is going to make available to CRETA its 5G network, which already covers 75% of the Spanish population in more than 1,660 municipalities throughout Spain, and its associated capacities, allowing real-time communication between sensors, infrastructures and vehicles to develop an intelligent traffic monitoring and management system.

Abertis Mobility Services (AMS) is Abertis' technological competence centre, experts in the implementation of state-of-the-art platforms and operation services for intelligent mobility in urban and interurban environments.

AMS contributes to the CRETA project the development and implementation of a dynamic pricing system based on the real emissions of vehicles, traffic monitoring and the characterization of traffic emissions.

Autopistas, Abertis' Spanish subsidiary, is taking another step forward in its commitment to innovation and its contribution to providing new digital and dynamic solutions that promote smart, safe and sustainable mobility. The digitalisation of infrastructures together with advanced management are key to the connected mobility of the future.

OPUS RSE is developing new remote traffic emission measurement systems, with 24/7 measurement capabilities and 5G connectivity, to empirically and remotely measure the real emissions of all road traffic. Alert and variable pricing systems will be developed on these devices, to identify the most polluting vehicles and act selectively on them, in a fair and efficient way.

Cellnex, through its subsidiary Tradia, provides CRETA with the knowledge in architecture, deployment and management of the c-v2x communications infrastructure in the sections of the Barcelona C-32 pilot (Barcelona – Sitges) with the aim of continuing to evolve the architecture for road digitalisation and enabling it for AI, which supports mobility services focused on pollution reduction and the development of the connected and/or autonomous vehicle.

Indra, a leader in *smart mobility*, is going to implement a pricing system and an access control system, based on the vehicle's ecological footprint and even on the footprint per passenger, as well as on the journeys made by the vehicles. To this end, it will deploy an Edge Computing infrastructure that, taking advantage of 5G, will process in real time the satellite positioning information sent from connected

cars (V2X), emission sensors, 3D LIDAR for vehicle classification and occupant detection systems with artificial intelligence.

Vinces Consulting will make its regulatory analysis capacity available to CRETA to, on the one hand, evaluate the fitness of the project within the legal framework related to the control of polluting emissions and, on the other, promote the possible regulatory changes that may be necessary to accommodate this technology. It will also evaluate the econometric impact of the project and will make its results known to public administrations at local, regional and state levels so that it can be replicated in other parts of the country.

ALPHA SYLTEC INGENIERIA, a leading company in the engineering and new technologies sector, will contribute its experience in the field of Artificial Intelligence, where it has focused mainly on energy efficiency projects, which is closely related to the objectives and scope of the initiative. SYLTEC's commitment is aligned with the Sustainable Development Goals (SDGs), which makes the company a perfect candidate to work on the CRETA project.

About MASMOVIL Group

The MASMOVIL Group is one of the most prominent operators in growth in Spain in recent years and offers fixed telephony, mobile, broadband Internet, TV and other new services such as energy, health, alarms, or financial services, for residential customers, companies and operators.

The Group is not a traditional heavy infrastructure operator, however, it offers its customers access to the highest FTTH coverage in more than 28 million homes and 3G, 4G and 5G mobile networks to 98.5% of the Spanish population thanks to its hybrid strategy of combining its own and third-party infrastructure.

In addition, MASMOVIL has launched its 5G services, which are already available in nearly 1,700 municipalities in Spain. The Group has 15.4 million mobile and broadband customers at the end of the first quarter of 2023.

*Grupo MASMOVIL has been awarded on different occasions as the best broadband and fibre optic operator. In addition, it is the operator with the fastest fibre network in Spain according to a **study by the company nPerf** and the one that offers the best fixed services. MASMOVIL has achieved net zero carbon emissions for scopes 1 and 2 in 2020 and also in 2021 – including the Euskaltel Group in the calculation – positioning itself as the first telecommunications operator in Europe to achieve this achievement and the one with the lowest absolute residual level of emissions. In addition, it is the first telecommunications company in Europe to become a B Corp and has a strong commitment to creating positive environmental and social impact.*

MASMOVIL has been owned by Cinven, KKR and Providence Equity Partners since November 2020.

About Abertis Mobility Services (AMS)

Abertis Mobility Services (AMS) is Abertis' technological competence centre, experts in the implementation of state-of-the-art platforms and operation services for intelligent mobility in urban and interurban environments. It concentrates free-flow toll activities and the implementation of the technological ecosystem for urban traffic management through Low Emission Zones and other

systems, such as charging for the use of infrastructure. Through its subsidiary Emovis, AMS has more than 700 employees spread across the United States, Europe and Asia for whom it establishes common objectives that maximize the quality of its services.

Aligned with the UN Environmental, Social and Governance Sustainable Development Goals, AMS is focused on reducing its carbon footprint and fostering a diverse and inclusive workplace.

About Abertis Autopistas

Autopistas is an Abertis company, an international leader in motorway management. The company is a benchmark in the infrastructure sector, providing innovative safe and sustainable mobility solutions that respond to the needs of its customers. Autopistas manages nearly 600 kilometres of high-capacity roads in Spain based on the principles of commitment, responsibility, team, proximity and efficiency.

About OPUS RSE

Opus Remote Sensing (OPUS RSE) is the only entity in the world accredited to remotely measure the real emissions of vehicles in their free circulation. OPUS RSE is a Spanish company responsible for all developments, research and commercialization of remote sensing technology "RSD" (Remote Sensing Device). OPUS RSE is the world's leading company in monitoring and analysing real emissions from road traffic, and the implementation of this technology is making decisive progress in Spain, as well as in the rest of the world.

About Cellnex

Cellnex is the leading European operator of neutral wireless telecommunications infrastructures and a pioneer in testing 5G technologies for connected vehicle services. It plays an important role in the development of the mobility of the future, as demonstrated by its Mobility Lab installed at the Castellolí circuit (Barcelona) and its role as coordinator of the 5GMED project promoted by the European Commission, as well as the recent award by the EC of six projects to promote 5G infrastructure in several cross-border transport corridors between Spain and Portugal. Spain and France and between Italy and Austria.

About Indra

*Indra (**www.indracompany.com**) is one of the leading global technology and consulting companies and the technology partner for the key operations of its clients' businesses around the world. It is a leading global provider of proprietary solutions in specific segments of the Transport and Defense markets, and a leading company in digital transformation and Information Technology in Spain and Latin America through its subsidiary Minsait. Its business model is based on a comprehensive offer of its own products, with an end-to-end, high-value approach and a high innovation component. At the end of the 2022 financial year, Indra had revenues of 3,851 million euros, almost 57,000 employees, a local presence in 46 countries and commercial operations in more than 140 countries.*

About Vinces

VINCES is a strategic Public Affairs consulting firm founded in 2009 and with 100% Spanish capital. It has offices in Madrid, Barcelona, Brussels and Lisbon, from which it provides strategic advice on institutional relations through an integrated methodology to develop the legitimacy of organizations and increase the capacity of its clients to influence public decision-making that affects their business. The VINCES methodology consists of acting in three areas: political, legislative-regulatory and social.

The areas of specialization of this firm are Energy, Industry and Sustainability, Corporate Operations, Health and Digital. Areas that also receive support from VINCES' transversal departments, such as its

Intelligence Department, which develops digital solutions applied to the monitoring of legislative activity.

About Alpha Syltec Ingeniería

Alpha SYLTEC Engineering is a leading company in the world of engineering and technology, with offices in Valladolid, Madrid, Lugo, Girona and Granada. It specialises in the implementation of engineering projects (installations and civil works), digitalisation and R+D+i, and proposes high value-added solutions in the fields of energy efficiency and new technologies.

The company has a strategic plan for sustainable growth based on clean energy and digitalisation, establishing a line of action between the two main areas of the company: facilities and information technologies. Its predictive development plan for environmental measures allows SYLTEC to be in a privileged position in the future thanks to the variety of interaction with large companies in the sector and the algorithms applicable to multiple equivalent situations.

SYLTEC believes that a market with a predominance such as green energy is a reality that must be energized with the use of new emerging technologies. He has experience in projects related to telecommunications, which makes him aware of the priority necessary to work and to be able to value innovative solutions with high TRLs that prevail against possible competition.

The company was once again awarded the Innovative SME seal, awarded by the Ministry of Science and Innovation, becoming a benchmark for the technological world.

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