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## **Successful final tests for pilot phase of Horizon 2020 Broadway project**

### **Frequentis concludes pilot phase tests in Malaga for a pan-European safety-critical, interoperable, mobile broadband network**

**After several years of development work, the Frequentis-led BroadPort consortium successfully completed the Ferry Fire Trial in Malaga to prove the practicality of its multi country, safety-critical broadband communication network solution in a real-world scenario. The large-scale exercise brought together more than 40 Public Protection and Disaster Relief (PPDR) organisations from across Europe, as well as eight local Spanish authorities.**

On a summers day in Malaga port the temperature hit 35 degrees and the Malaga control centre began receiving several simultaneous calls to report smoke rising from a ferry. This was shortly followed by an emergency call from the crew confirming that fire had broken out onboard. The scenario is threatening, but fortunately it was only a trial testing the next generation of safety-critical communication technology. This trial is executed across several countries for a pan-European, safety-critical broadband communication network called "BroadNet", which intends to be established by the European Union.

The [Horizon 2020 project "Broadway"](#) aims to lead the way towards a common, pan-European, mission critical broadband communications network that will enable operational mobility including closer cooperation across political borders and help save lives in the event of disasters.

The EU launched the project to overcome limitations in the interoperability of individual digital radio systems for emergency service first responders and the restrictions of narrowband technology (mostly TETRA), which currently only allows the transmission of voice and short data but does not permit safety-critical video transmission or the use of other mission-critical multimedia.

"The integration of interoperable components – from networks to terminals and applications – is a milestone for mission-critical communication in Europe, but at the same time is also a great challenge," says Charlotte Rösener, Head of Mission Critical Services at Frequentis leading the BroadPort consortium. "It is therefore crucial for us to test live operations with the PPDR organisations; thanks to their valuable feedback we have been able to incorporate their experience and input into further development."

At the start of October 2019, four consortia had been selected for the first design phase of project BroadWay. In April 2021, the prototype phase, three remaining consortia were permitted to present

their systems for technical evaluation to a team of experts from the 11 participating EU Member States. Now in the third and final phase of the project, two finalists –Frequentis, leading the BoardPort consortium, and the Airbus’ consortium. Both built their live systems across several countries and have tested them for their applicability and future added value with more than 40 emergency personnel. A two-month trial operation took place, with several test runs performed under the most realistic conditions possible.

The last trail in Malaga in July 2022 marked an important step in the third and final phase of the pre-procurement procedure, allowing the "BroadPort" consortium to prove that the theoretical solution methods and the developed prototypes are also suitable for real-world emergency situations.



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## About FREQUENTIS

Frequentis is a global supplier of communication and information systems for control centres with safety-critical tasks. The listed family-run company develops and markets its “control centre solutions” in the Air Traffic Management segment (civil and military air traffic control, air defence) and the Public Safety & Transport segment (police, fire brigades, emergency rescue services, shipping, railways). With a market share of 30%, Frequentis is the world market leader in voice communication systems for air traffic control. Frequentis is also the global leader in aeronautical information management and aeronautical message handling systems.

As a global player with about 2,150 employees, Frequentis has a global network of companies in more than 50 countries. Its head office is in Vienna, Austria. Frequentis' products, services, and solutions are used at more than 40,000 operator working positions in around 150 countries. Shares in Frequentis are traded on the Vienna and Frankfurt stock exchanges; ISIN: ATFREQUENT09, WKN: A2PHG5. In 2021, revenues were EUR 333.5 million and EBIT was EUR 29.0 million.

Wherever Frequentis' systems are used, safety-critical operators can confidently bear responsibility for the safety of other people and goods. The company also works towards a more sustainable future through its air traffic optimisation solutions.

For more information, please visit [www.frequentis.com](http://www.frequentis.com).

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## About the consortium

### About Arico Technologies

Arico Technologies provides consultancy, training and project management services for the professional mobile radio industry. With its expertise in testing and certification, Arico Technologies is the independent subcontractor in the BroadWay project, responsible for the Technical Validation, Practitioner Evaluation and Acceptance support. <http://www.arico-tech.eu>

### About Comfone

Comfone is privately owned company with a headquarters are based in Bern, Switzerland. Comfone supplies a complete portfolio of services and solutions for various customer types such as MNOs and MVNOs, MVNEs, Solution Providers and WISPs.

### About Control Center Apps GmbH

CCA is an Austrian company and develops mission critical applications in the domains of Public Transport, Public Safety, and Industry.

### About Crosscall

CROSSCALL, creator of the outdoor mobile technology market, offers waterproof, durable and highly autonomous mobiles and smartphones. Cyril Vidal created Crosscall in 2009 to answer his specific needs as no existing mobiles met his expectations. The brand designs models perfectly adapted to the hostile and unpredictable environments encountered by athletes and professionals in the field (water, rain, humidity, dust, shocks...); as well as a range of high-performance accessories. With more than tree million units sold, a turnover of 81 million euros and more than 20,000 points of sale, the French company, based in Aix-en-Provence, is currently pursuing its international evolution moving its mobiles upmarket, increasingly recognised for their quality and originality across borders.

### About ETELM

ETELM is a French SME with a core expertise and a solid experience in Mission and Business Critical Radio. ETELM has been designing, developing and manufacturing radio infrastructure for private fixed and tactical networks (PMR, TETRA and lately Mission Critical LTE) for more than 40 years. As a developer and manufacturer, ETELM invests continuously in the R&D activities and has the flexibility to provide tailored solutions in full conformity with the ETSI/3GPP standards.

Within the framework of the BroadWay project, ETELM will provide the BroadPort consortium with its Radio Access Infrastructure and Tactical Mission Critical Radio solution for quick and easy deployment on the field as well as its innovative, fully unified 4GLinked platform for a smooth transition from narrowband to broadband communications and seamless services across technologies.

### About Eutelsat SA

Eutelsat SA is the third largest Geostationary satellite fleet operator in the world with global coverage. The Eutelsat Konnect service will provide the European wide satellite broadband connectivity.

### **About Halys**

Halys is a French high technology company with 17 years of experience, which provides innovative LTE/4G/5G network solutions all around the world. Into BroadPort, Halys brings its broad expertise in carrier operations and inter-operators roaming and interworking. Halys will take care of the core 4G/5G elements of this project including its hubbing part for the relationship (roaming and interworking) between the partner countries (at mobile signalling and data) and the communications with the radio network.

### **About Municipality of Málaga**

Malaga City Council, through its Local Police, is facilitating a 4G/5G deployment in the city centre within the framework of ICT-17 5GENESIS. The Local Police will provide users for demonstrations and their own DMR communications network for integration.

### **About Nemergent Solutions SL**

Nemergent Solutions SL drives innovation, provides design for MC Services, monitors the requirements, standardization status and alignment of the proposed system with the tender objectives; responsible for the overall technical analysis and solution (architecture, protocols, integration, management, communication, way forward) to cope with cross-agency and cross-border seamless PPDR operations and communications, technical leadership and required MCS SW modules.

### **About PrioCom B.V.**

PrioCom is the only Secure Mobile Virtual Network Operator (S-MVNO) for business and mission-critical communication which offers MCX services (MCPTT) all around Europe based on 4G and 5G coverage. The PrioCom solution is operating on T-Mobile networks for MC services with high accessibility and reliability. In phase 2 they focus on priority access to the T-Mobile Network.

### **About Telefónica I+D**

Telefónica I+D is the research and development company of Telefónica Group. Its mission is to contribute to the Telefónica Group's competitiveness and modernity through technological innovation. Telefónica I+D one of the main partners of the 5GENESIS Platform, providing coverage, edge infrastructure and MOCN split among others, having in Malaga both commercial and R&D networks.

### **About T-Mobile Netherlands B.V.**

T-Mobile Netherlands B.V. is a multinational telecommunication operator that operates in several EU Member states offering an extensive portfolio of mobile network services for consumers and business customers. Together with PrioCom they set a guest network for seamless and secure roaming scenarios.

### **About Lyfo**

Lyfo is a Dutch software engineering company that develops Full Stack (Frontend – Backend) including mobile APPs.

### **About Universidad de Málaga (UMA)**

Universidad de Málaga is one of the main partners of Malaga Platform in the context of ICT-17 5GENESIS providing a fully controlled 4G/5G deployment in the campus and integration with Telefonica. Facilitates the Platform and executes many EU founded Telecommunication (Specially LTE/5G) research projects.

### **About Virtual Fort Knox AG**

Virtual Fort Knox AG is an independent subcontractor and responsible for security assurance with focus on Objective 3. Virtual Fort Knox is a spinoff by Fraunhofer Gesellschaft. VFK provides products which securely and easily interconnect software systems – “the software network” – to enable and further digitization and Industry 4.0 activities in the manufacturing industry. The delivery of digitization software networks requires leading expertise in automation functionalities and data security.