

## Assystem Steps up its Development in the Arabian Gulf

- **Completion of the acquisition of Radicon Gulf Consult in Saudi Arabia**
- **New engineering contract for more than 220 buildings between Mecca and Medina for the Saudi Interior Ministry**

Al Khobar, January 16, 2015 - Assystem announced today that it had completed the acquisition of 75% of the Saudi engineering company Radicon Gulf Consult (Radicon). Ali K. Al-Harbi, founder of the company, retains a 25% stake in Radicon.

As part of its effort to support local investment by international companies in order to develop the national economy and recruit Saudi personnel, the Saudi authorities gave their approval for the transaction at the end of last year. Radicon's knowledge of the market and expertise, combined with Assystem's skills in project management and engineering, strengthen the abilities of both companies to seize opportunities related to the country's many infrastructure projects.

Already, Assystem and Radicon won a joint tender with Saudi Arabia's Ministry of the Interior, worth €5 million. The contract covers the engineering for more than 220 buildings such as workshops, offices, sports centres, theatres, restaurants, in an area of 10,000 m<sup>2</sup> spread over six locations between Mecca and Medina. It forms part of the "King Abdullah Project for Security Forces" (KAP) investment programme to improve safety conditions and accommodation for pilgrims visiting the sites of Mecca and Medina.

*"This first significant contract won jointly by Assystem and Radicon demonstrates our complementary skills as well as the region's development potential,"* says Stéphane Aubarbier, Executive Vice President, Energy & Infrastructure, Assystem.

This acquisition of the 400-person engineering company based in Saudi Arabia in Al Khobar and Riyadh enables Assystem to double the size of its footprint in the Arabian Gulf region, and gain market share in the infrastructure, energy and transportation sectors.

Assystem has been present in the Gulf since 2011, through its participation in the UAE nuclear programme and its technical assistance subsidiary, MPH Global Services. The company's Energy & Infrastructure division has been based in Dubai since September 2013. The acquisition of Radicon forms part of its international development strategy.

**Radicon Gulf Consult** is a leading company in the field of design, engineering and services in Saudi Arabia. With an extensive list of regional and national clients such as Saudi Aramco, SABIC, the Royal Commission, Saudi Electricity Company and the private sector, RGC offers innovative engineering solutions to create flexible, efficient and profitable environments. RGC employs 400 people and reported revenue of €23 million in 2014.

More information on [www.radicongulf.com/](http://www.radicongulf.com/)

**Assystem** is an international Engineering and Innovation Consultancy. As a key participant in the industry for over forty-five years, Assystem supports its customers in developing their products and managing their capital expenditure throughout the product life cycle. Assystem employs nearly 11,000 people worldwide and reported €871.4 million revenue in 2013. The Company is listed on Euronext Paris.

More information on [www.assystem.com](http://www.assystem.com) - Follow Assystem on Twitter: [Assystem](https://twitter.com/Assystem)

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## PRESS RELEASE

### **A strategic alliance between ASSYSTEM and AXISCADES Signature of a MoU for collaboration at Aero India 2015 to deliver enhanced value to Airbus Group**

Bangalore, India, 19th February 2015 – ASSYSTEM and AXISCADES announce at Aero India 2015 (Asia's Premier Aerospace exhibition) the signature of a Memorandum of Understanding to create a strategic alliance to deliver enhanced value to Airbus Group.

This collaboration provides Airbus Group with a significant value addition for its projects in engineering services by two established E2S preferred suppliers.

The synergy between ASSYSTEM and AXISCADES offers a new technology-based platform for improved business value, security, flexibility and quality to continue delivery of demanding projects On time and Right First Time.

*“The signature of this MoU with AXICADES underpins our strategy in the Aerospace Sector by providing Airbus with a complete Near and Offshore Engineering solution. It also provides valuable offset opportunities in India and I am sure that the combination of both companies will provide our clients with real added value”* said Jeff Hoyle, Vice President, Aerospace, ASSYSTEM.

Commenting on the occasion, Sudhakar Gande, Vice-Chairman, AXISCADES said: *“This relationship will strengthen our Engineering Service offerings to global clients like Airbus. This relationship will create a win-win solution for all and is in line with our goal of accelerated value creation. This strategic partnership is in line with our Global OEM outsourcing strategy.”*

According to ASSYSTEM and AXISCADES, this solution is the future benchmark model for new programmes to come for the global marketplace within the Aerospace industry. The scope encompasses the entire product lifecycle such as Development, Manufacture and in-service support in the areas of Airframe, Systems & Software.

**ASSYSTEM** is an international Engineering and Innovation Consultancy. As a key participant in the industry for more than 45 years, Assystem supports its customers in developing their products and managing their capital expenditure throughout the product life cycle. Assystem employs nearly 11,000 people worldwide and reported €866.6 million in revenue in 2014. The Company is listed on NYSE Euronext Paris.

More information on [www.assystem.com](http://www.assystem.com) - Follow Assystem on Twitter: [@Assystem](https://twitter.com/Assystem)

**AXISCADES** is one of India's leading technology solutions provider, catering to the futuristic needs of Aerospace, Defense, Heavy Engineering, Automotive and Industrial Production sectors. The company provides cutting edge technology solutions, addressing the business needs across domains, at every stage of product life-cycle development. With 1,600 engineers, AXISCADES is headquartered in Bangalore and has 13 offices worldwide including North America, Europe and Asia.

More information on [www.axiscades.com](http://www.axiscades.com) - Follow AXISCADES on Twitter: [@AXISCADES](https://twitter.com/AXISCADES)

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## Assystem creates a consortium to develop "Scissor", a European cybersecurity project for industrial systems

***As part of the European Union Horizon 2020 programme, four million euros have been allocated to the Scissor project, which was selected to provide a security solution against attacks on industrial SCADA systems or smart grids.***

**Paris, 1<sup>st</sup> June 2015** - [Assystem](#), a major player in engineering and innovation consulting, has announced the formation of a European consortium of nine partners (led by Assystem) for the Scissor project. This project aims to develop a portfolio of security solutions to protect industrial systems from cyber-attacks. The safety data collected in the system and its environment from probes, sensors and cameras are processed on a SIEM (Security Information and Event Management) platform. Due to this SIEM supervision, whose development will be 80% supported by Assystem, intrusions can be detected and alerts published about the imminent arrival of an incident.

The protection of industrial information systems is becoming a major issue for Member States and the operators that manage their vital resources, especially in the field of energy, transport, water and medical activities. *"To provide Europe with a secure and reliable environment, the European Commission has allocated over €400 million to the development of innovative ICT solutions. We have selected the Scissor project presented by Assystem, mainly because of the international and multidisciplinary dimension of the solution, the integration of a real-world case for evaluation; and its contribution to the development of a critical more resilient infrastructure that is easier to understand and to manage by operators who are not specifically trained in security,"* said Nikolaos Kyroglou, project officer at the European Commission.

As the project coordinator, Assystem has built a consortium of eight players (AGH, University Pierre et Marie Curie, SIXSQ, CNIT, RADIO6ENSE, Salzburg Research, Katholieke Universiteit Leuven and SEA), some of the best European research, academia and innovative SME specialists. The Scissor project will be tested full-scale on an intelligent electricity grid (smart grid) installed by the company SEA on the Italian island of Favignana. Scissor will last three years.

### **Assystem's partners in the Scissor project**

**AGH (Poland):** The Krakow University of Science and Technology is focused on teaching and research in new technologies, covering cloud computing, optical broadband networks, wireless communications, Internet of the future, connected objects, intelligent sensors, image analysis, and renewable energy.

**UPMC (France):** The Pierre and Marie Curie University has 200 researchers and as many doctoral students, covering a wide range of disciplines around computer science, automatic control, scientific computing and intelligent systems for decision support.

**SIXSQ (Switzerland):** An innovative SME supplying cloud-computing solutions to major international companies with high performance products.

**CNIT (Italy)** Consorzio Nazionale per le Telecomunicazioni Interuniversitario; the CNIT is an interuniversity centre for 37 Italian universities dedicated to the fields of telecommunications and IT security.

**RADIO6ENSE Srl (Italy):** This SME is a spin-off of the University of Rome specialized in RFID-type smart sensor technology for measuring the physical parameters of a process and its environment.

**SALZBURG RESEARCH (Austria):** Forschungsgesellschaft mbH; this research institute is an expert in information and communication technology specialized in IP networks, knowledge technologies and mobile information systems to promote technology transfer to SMEs.

**KATHOLIEKE UNIVERSITEIT LEUVEN (Belgium):** Founded in 1425, the Leuven Catholic University provides education to more than 40,000 international students with a focus on fundamental and applied research. Its Mathematics Department has an internationally renowned Statistics section.

**SEA (Italy):** SEA is an electricity production and distribution company for the island of Favignana to the west of Sicily. The system in use can service 3,500 customers with an annual production of about 14,000 MWh.

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**About SCISSOR:**

Website: [www.scissor-project.com](http://www.scissor-project.com)

Facebook: <https://www.facebook.com/pages/Scissor-Project/786825424729284>

LinkedIn: <https://www.linkedin.com/groups/SCISSOR-Security-In-trusted-SCADA-8262623>

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**Assystem** is an international Engineering and Innovation Consultancy. As a key participant in the industry for 50 years, Assystem supports its customers in developing their products and managing their capital expenditure throughout the product life cycle. Assystem employs nearly 12,000 people worldwide and reports nearly €900 million in revenue. The Company is listed on NYSE Euronext Paris.

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## 2015 PARIS AIR SHOW

### Assystem engineers envision tomorrow's aircraft

*Assystem is presenting its in-house innovation incubator, the "Assystem Innovation Factory." An opportunity to showcase a number of R&D projects that will shape tomorrow's aviation industry.*

Paris, 15 June 2015 - Assystem, a European leader in the field of aerospace engineering, will present its internal innovation incubator - the Assystem Innovation Factory - at the [51<sup>st</sup> International Paris Air and Space Show](#). Built around the dynamism and commitment of Assystem engineers, the Innovation Factory will become an incubator of new ideas to shape tomorrow's world and support major global industries as they encounter new human, environmental and technological challenges.

In the aerospace sector in particular, a number of innovations will be presented at the 2015 Paris Air Show to illustrate Assystem's vision for tomorrow's aircraft, ranging from full-touch flight simulation to composite material processes and cables to make aircraft lighter.

#### A flight simulator for non-flying personnel

- The aim is to validate test procedures for the performance of innovative systems and also train Assystem engineers.
- The Assystem flight simulator is based on the model of the A380 cockpit with full-touch controls. The modular architecture of this immersive system provides different aircraft models that can all be simulated on the same machine – from a ULM to an airliner.
- Using this environment, different source data can be imported from black boxes and test plans in flight to reproduce a scenario from recorded data. This leads to a better understanding of the context of the test, the feedback, and the incidents that need to be analysed.
- This portable simulator can be carried in a light utility van and set up by one person in less than 10 minutes.
- Highly connectable: any type of hardware or software may be connected to the simulator, from a tablet to a full computer for training support to system modelling.

#### Cellular Core Technology

- A breakthrough innovation: a new composite manufacturing process that makes it possible to reduce aircraft weight and optimise manufacturing costs.
- Assystem engineers have applied this technology to unmanned aircrafts, by developing a central wing section which helped to reduce weight by 40% and led to 20% cost-savings.
- Using Cellular Core Technology, aerostructure components that sometimes require 24 manufacturing passes can be designed and produced in a single pass, using a 3D-printed inner and outer mould.

- Although currently used for aerostructures, the technology can be applied to many other industries.

### **SmartDream**

- Within the framework of the SmartDream project, with Aerosat 2012, Assystem and its partners are developing a new network technology for electrical distribution and intelligent data transfer
- The technology is a modification of a traditional electronic grid, aiming to provide lightweight architecture and demonstrating outstanding performance.
- This revolutionary technology saves 70% in wiring weight, optimises available electrical resources and significantly expands information-carrying capacity across the network.
- Universal and adaptable to a large number of industries, SmartDream is safer, more cost-effective and more environmentally-friendly.

**Meet us at the Paris Air Show, from 15 to 21 June at the Assystem Chalet (line B, location No. 377).**

#### **Assystem and aerospace**

##### **Key figures**

- 333 million euros in revenue in 2014 (37% of total revenue)
- 30 years of experience in aerostructures, aircraft equipment engineering and aeroengines
- A portfolio of services over the aircraft lifecycle from design to in-service including manufacturing and supply chain management
- 4,000 engineers and experts dedicated to aerospace worldwide

##### **About Assystem**

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## Assystem: Winner of the 2015 French Grand Prix for Engineering

*Energine is an engine that converts heat into electricity*

- **90% of wasted heat can be converted into useful heat and electrical energy**
- **30% savings at the pump**

**Paris, 14 October 2015** - Assystem, an international engineering group and innovation consultancy has been awarded the 2015 French National Grand Prix for Engineering for the development of a new generation of external heat supply engines called Energine.

Developed by Assystem engineers in partnership with the FEMTO-ST Institute, the Energine solution produces mechanical or electrical energy from a source with a temperature in excess of 150°C. A member of the family of External Heat Supply Engines in which no fuel is burned, this innovative engine can be integrated into a heat-emitting industrial process to convert the heat into electricity. This innovation can also recycle the exhaust heat from a vehicle to reduce its consumption, or deliver high heat yields in homes and commercial buildings.

Under the auspices of the French Ministries of Ecology, Economy and Housing, in partnership with the French Engineering association, Syntec-Ingénierie, and the French media group, Moniteur, the French Grand Prix for Engineering gives recognition to engineering professionals for the quality of the design and conduct of an outstanding project due to its innovation and creativity in either infrastructure and industrial products (transport, energy, and networks), public facilities, the building sector, industrial construction, complex systems or industrial processes.

Dominique Louis, Chairman and CEO of Assystem Group, said: "We extend our sincere thanks to the members of the jury. This award directly rewards the work and innovative spirit of Assystem's engineering people. Energine is one of a new generation of engines that contribute directly to reducing the impact of energy production and consumption. We are proud to contribute to industrial advances that can lead to more sustainable world."

Assystem engineers responsible for the development of Energine had to meet extremely demanding technical objectives and processes:

- Developing cogeneration from biomass or potentially wasted heat so as to preserve the environment.
- Producing decentralized electricity so as to reduce transmission losses and quickly respond to changes in needs.
- Reducing the system's energy consumption and boost performance.
- Very high energy efficiency.
- Low noise emission.
- Minimized maintenance.
- Optimized control.

Inspired by the Ericsson cycle dating back over 160 years, this project has led to several technical innovations:

- Integration of a system to control the engine's displacement and power to ensure production that is adapted to both needs and the heat source
- Simple linear motion and completely free control of valves as there are no camshafts
- Replacing the piston/cylinder system by deformable metal enclosures which will help eliminate leaks, reduce mechanical losses, and promote heat exchange
- Development of a high-efficiency linear alternator enabling it to be used as a cogenerator

Thibaut Cartigny, EnerGINE project leader at Assystem: "The EnerGINE engine is a genuine innovation. In France, one third of energy consumption in industry and buildings is lost as wasted heat. EnerGINE not only recycles this lost energy but above all enables 90% of it to be used above 150°C. This converts into 25% electrical energy and 75% useable thermal energy. EnerGINE forms part of the Assystem Innovation Factory projects that aim to stimulate, promote and develop tomorrow's world while aligning with human, environmental and technological challenges. This has been a successful wager and a promising solution for tomorrow."

### **About FEMTO-ST**

With more than 700 members, the FEMTO-ST institute is one of France's largest public research lab in engineering science. Working jointly with the universities in East of France (UFC, ENSMM, UTBM) and France national Research Center (CNRS), its pluridisciplinary aims at mastering micro and nanotechnologies, integrating new competences in the fields of automatic control, microrobotics, materials and surfaces and reinforcing its research activities in energy, transport, healthcare and telecoms.

For more information: [www.femto-st.fr/en/](http://www.femto-st.fr/en/)

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## Vehicle ICT reduces CO<sub>2</sub> emissions

*EU study with Berner & Mattner on the environmental impact of ICT in the vehicle*

**Munich/Germany, October 26, 2015** – The use of information and communications technology (ICT) in vehicles and on the road significantly reduces CO<sub>2</sub> emissions. That's the result of an international study done on behalf of the EU. Assystem's engineering service provider Berner & Mattner, supported the research project with modeling of ACC-, driver- and powertrain functions and a newly developed simulation environment for driver assistance functions in traffic scenarios with several thousand vehicles.

Do driver assistance systems like Adaptive Cruise Control (ACC) offer measurable CO<sub>2</sub> savings? By how much could a city reduce their local emissions by using smart traffic management systems? And which systems can be combined for maximum effect? Questions like these can be answered with more precision in the future thanks to the EU study "Quantifying the Effect of Intelligent Transport Systems on CO<sub>2</sub> Emissions from Road Transportation". Therefore European companies and research institutions examined the environmental impact of current and future I&C systems in automobile traffic.

### IT in the vehicle and on the road

The engineers put a wide variety of technologies onto the test bench, both by simulation and road tests: Variable speed limitation on the road, "green" navigation with energy-optimized routes, and modern traffic management systems were evaluated, as were the effects of "eco-driving" or start/stop and ACC systems. The results were clear for both new and conventional powertrain technologies. All the technologies examined contributed to reductions in CO<sub>2</sub> emissions. And the potential savings depended strongly on traffic conditions and the level of diffusion of the technology, means, more technology also results in greater average savings. With I&C systems for local traffic control, an average of up to 8% is saved in practice – and with systems in the vehicle, even as much as 15 percent.

### Modeling of ACC-, driver- and powertrain functions

Berner & Mattner was responsible for modeling the ACC-, driver- and powertrain functions as well for the development of a simulation environment. This framework allows predictions to be made for an entire fleet of ACC vehicles.

"To simulate multiple thousands of vehicles with different technical equipment such as ACC, we built a new framework using various tools. That permits automated execution of the simulation for different drive system, fleet, and traffic scenarios," explains Jörg Reiner, software engineer at Berner & Mattner.

The heart of the system is the Berner & Mattner test and simulation platform MESSINA, on which models of the driving dynamics of individual vehicles were calculated. The models could be equipped with differently configured ACC systems, but also different driver behaviors. "That let us examine the specific effects of individual configuration parameters of the ACC vehicle technology and Car2Car or Car2X infrastructure on emission behavior," says Jörg Reiner, explaining the advantages of the newly developed framework. A connected simulation tool used a proprietary interface to provide background data for simulated traffic conditions.

The results of the study can be obtained through the ICT Emissions Library database, the application Berner & Mattner also developed: <http://ictemissions.meng.auth.gr> . The entire study is available for download at: <http://www.ict-emissions.eu>.

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## Available images

The following images are available for download in printable format at:

[www.htcm.de/kk/bernermattner/](http://www.htcm.de/kk/bernermattner/)

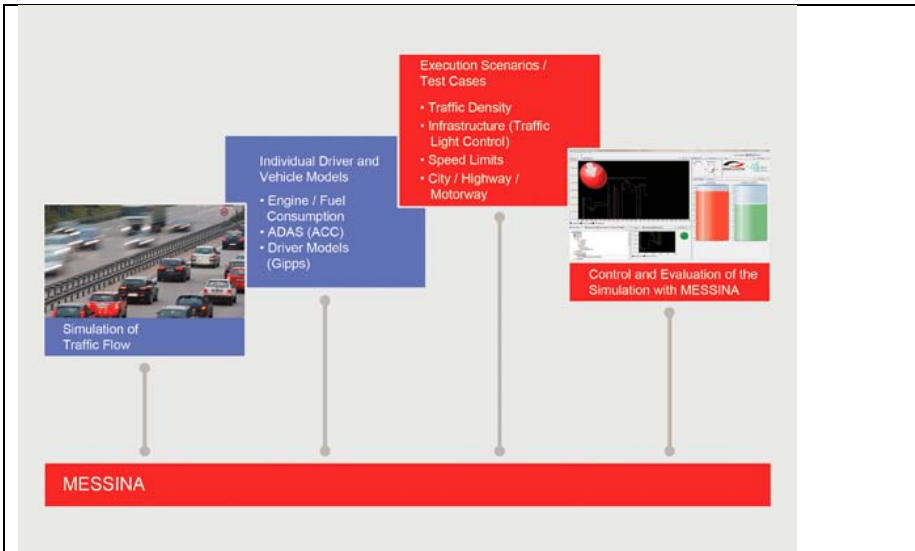


Image source: Berner & Mattner Systemtechnik GmbH

### **MESSINA as integration platform for the simulation of vehicle, driver, and infrastructure models**

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**Berner & Mattner** specializes in systems engineering, development and testing of complex electronic and mechanical systems. We offer a variety of services ranging from consulting, conceptual design, software and systems development to the setup and operation of entire test and integration systems. We are a strategic partner for our customers' development departments of the automotive, energy, defence, mechanical engineering, space and transportation industries, providing customized software and engineering solutions based on our products and services. In doing so, we optimize efficiency and quality of our customers' software and system development. This is why leading companies such as Audi, BMW, Bombardier, Daimler, Deutsche Bahn, Siemens, Volkswagen and many more have been placing their trust in Berner & Mattner's expertise.

More information: [www.berner-mattner.com](http://www.berner-mattner.com) and [www.assystem.com](http://www.assystem.com)

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