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PRESS RELEASE

## The Jules Verne Institute continues its development towards Europe with six new European granted projects

The Jules Verne Institute expands its European activities with six new European projects selected out of 19 proposals submitted within the framework of the Horizon 2020 Programme. Over the last three years, Jules Verne has reached out an average of 27% success rate, which is more than two times the European average.

*Nantes, 24 November 2020* – The Jules Verne Institute strengthens its position in European Research: after having submitted 19 European proposals in 2020 (9 in 2019), the institute has won six of them (two in 2019) for a budget of 1.5 million euros (0.85 M€ in 2019). “We have reached our objective, since we targeted an increase in activity this year with the submission of 20 application files per year in order to obtain at least 3 of them,” details **Stéphane Cassereau**, CEO, Jules Verne Institute. The Institute’s technical expertise is widely recognised by the different consortia of the projects, in the areas of additive manufacturing, robotics, composite and metallic materials processes, modelling, simulation and characterization.

### Focus on the six new European projects

- The institute will be highly involved in the **Carbo4Power** project as Work Package Leader – with the National Technical University of Athens (NTUA) as coordinator. This €7.9 million project brings together 18 partners (industrial members, technical centres and universities). It aims at developing a new generation of offshore wind turbine, with smart architectures and hybrid and nanotechnological materials. The Jules Verne Institute will work in particular on the design-for-manufacturing of the tidal turbine blades. The institute has therefore invited two SMEs to be part of the project, SABELLA and SENSE-IN, with the help of WEAMEC network, a stakeholder in the governance of the project, dedicated to renewable marine energies. IRT Jules Verne will take advantage of its experience on the automated production line for textile composite preforms MADRAS. The line was inaugurated at the beginning of 2020 at Technocampus Composites, Nantes, and benefits from the funding of Région Pays de la Loire and the European Regional Development Fund (ERDF).
- IRT Jules Verne will provide support to the **IMPURE** project in order to face the COVID-19 crisis, also coordinated by the National Technical University of Athens (NTUA). This €7.3 million project brings together 19 partners and aims at designing medical moulds using additive manufacturing, modifying the factories’ production lines in record time (48 hours). IRT Jules Verne will bring its ability to provide solutions at a high level of maturity, destined to the end-users in a medical urgency context.
- The **ROCABLE** project in robotics, set up by the Nantes laboratory LS2N (CNRS), Clemessy (EIFFAGE Group) and INRIA, aims at improving the security of cable driven parallel robots in factories and working on the standardisation aspects of these new technologies in order to speed up their E.C. marking and therefore their use alongside operators. This 150 000 € project comes from the COVR programme, coordinated by the Danish Technological Institute DTI.



- The **Fibre4Yards** project, coordinated by the International Centre for Numerical Methods in Engineering (CIMNE, Spain), aims at improving the production and maintenance processes in shipbuilding yards. Within the framework of this project, Naval Group has invited IRT Jules Verne to work on the thematic of ship acoustics. This €7.6 million project brings together 13 partners across Europe.
- The **VOLGA** project, with a 288 000 € budget, results from a cascading grant of the European programme ROSIN and is coordinated by the Delft University of Technology (NL). It consists in the development of a new trajectory planner for manipulators (robots). The particularity of this new tool will be the ability to validate numerically the absence of collision – meeting the need for industrial robustness in the case of very narrow spaces.
- The **MAVIS** project is supported by Norwegian funds through the Norwegian University of Science and Technology (NTNU) in Trondheim. MAVIS is a technology exchange project in which IRT Jules Verne was invited to take part in, alongside German (Fraunhofer IPA and IAO, University of Stuttgart) and French (UTC Compiègne and INP Grenoble) entities, in order to increase international cooperation between Norway and EU countries.

*“IRT Jules Verne has built a network of excellence at European level and thus carries out strategic lobbying actions with the best consortia. These include the Fraunhofer institutes in Germany, the Catapult centres in Great Britain, the main Spanish technical institutes AIMEN, EURECAT or CIDETEC, the DTI institute in Denmark, the technical universities of Hamburg and Munich in Germany, Athens in Greece, or Delft in the Netherlands. They all benefit from high success rates in European projects. IRT Jules Verne has also chosen to join influencing networks or associations such as EFFRA, EURobotics and Waterborne,” explains Marie Weiss, Head of the Europe Unit of the Jules Verne Institute. “This is a long-term work that requires the creation of a network of peers whom we get accustomed to work with and forge privileged links. Nevertheless, associating with new partners is always stimulating. Some partnerships apparently more audacious or innovative are to be experimented within the framework of Green Deal and Horizon Europe, the new framework programme of the European Commission that will start in 2021 for a seven years duration.”*

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#### About IRT Jules Verne – [www.irt-jules-verne.fr](http://www.irt-jules-verne.fr)

IRT Jules Verne is a mutualized industrial research centre dedicated to manufacturing. Working closely with production equipment manufacturers and integrators, IRT Jules Verne caters to four strategic industrial sectors: aeronautics, shipbuilding, the automotive industry, and renewable marine energy. The IRT team works hand in hand with the very best industrial and academic resources in the manufacturing field. Its vocation is to improve the competitiveness of strategic industrial sectors in France by creating disruptive technologies for manufacturing processes. Its mission is to speed up innovation and technology transfer to factories. In its bid to provide comprehensive solutions up to scale-1 demonstrators, IRT Jules Verne installs and utilises a wide range of exclusive state-of-the-art equipment.



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