

Press release

IK4-TEKNIKER will present its most recent developments in the area of maintenance at Basque Industry 4.0

- ▶▶ *The technology centre will use the IK4 booth to present a smart platform for remote monitoring of industrial assets.*
- ▶▶ *The event will take place on Wednesday November 22 at the Kursaal Conference Centre in Donostia-San Sebastian*
- ▶▶ *The technology centre has recently initiated six new projects in several areas of Industry 4.0*

(Eibar, Basque Country. 21 November, 2017).- IK4-TEKNIKER, the Basque Technology centre, will showcase its latest developments in the field of industrial maintenance at the fourth edition of Basque Industry 4.0 scheduled to take place on Wednesday November 22 at the Kursaal Conference Centre in Donostia-San Sebastian.

The technology centre, that will share the stand with other members of the [IK4 Alliance](#), will make use of this event to display its so-called SAM (Smart Asset Management) platform, an application that combines cutting-edge ICTs that offer a smart solution for remote monitoring of industrial assets.

Specifically, the platform to be presented by IK4-TEKNIKER uses the cloud to collect and monitor information related to individual machines or fleets of machines to present it through a user-friendly interface.

To this end, the tool features a number of advanced functionalities in the form of complex algorithms based on machine learning and artificial intelligence that stream the information fed by the machines for the purpose of diagnosing and predicting faults.

Six new 4.0 projects

IK4-TEKNIKER, with extensive experience in manufacturing, is nowadays playing an outstanding role with regard to technologies associated with industry 4.0.

Proof of the fact is that six new projects have been approved within the framework of the Basque Industry 4.0 programme, three in the field of industrial maintenance, two in automation and industrial robotics and one in inspection and measurement.

Although these initiatives are still in their early stages, a total budget of approximately 1.5 million euros is to be allocated so they can materialise once several technological assets are transferred to local companies.

The equipment and systems developed within the framework of these projects range from an innovative standalone manufacturing cell equipped with collaborative robotics to advanced measuring and control systems for a new generation of high-precision machine tools.

Projects related to industrial maintenance, moreover, will become particularly relevant through four initiatives geared towards developing know-how for monitoring, operating analysis, diagnosis and prediction of machine faults.

To this end, the technology centre will be focusing on the following technological assets connected to predictive maintenance:

- The “Fingerprint” methodology to characterise system health status.
- The development of knowledge on how components behave when in use by means of test benches, among other options.
- The development of “Condition Monitoring” systems based on sensing and monitoring adapted to maintenance strategies (predictive, preventive, corrective) and cost effectiveness.
- And the SAM Platform in the cloud for the storage and analysis of data used for fault diagnosis and prediction.

Basque Industry 4.0, the future of advanced manufacturing

The aim of the Basque Industry 4.0 event, organised by the Basque Government's development agency SPRI, is to bring together different views on the impact associated with using electronic information and communication technologies in current industrial processes.

This seminar is an absolute must for Basque companies operating in the industrial sector as it offers a meeting where digitisation will be discussed through a programme with workshops, lectures and successful ICT implementations in the industrial sector.

Concerning IK4-TEKNIKER

With more than 35 years of experience in applied technology research that has been transferred to companies, IK4-TEKNIKER has achieved a high degree of specialisation in four major areas (Advanced Manufacturing, Surface Engineering, Product Engineering and ICTs). This means that its cutting edge know-how has been made available to customers to meet their requirements.

Further information

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