

Start-ups in Industry 4.0 take off in Advanced Factories

Àngels Chacón, Enterprise Consellera, has inaugurated the Industry Start-up Forum, a space dedicated to new technology projects for the industry

Tanja Krüger, expert in artificial intelligence at Resolto-Festo has shared how the latest technology can help us optimize production processes without dehumanizing

Barcelona, Wednesday 10 April. The second day of Advanced Factories has been led by artificial intelligence, data management, robotics, predictive maintenance and start-ups. A day full of bustle with full rooms like the one that started the morning in the Industry 4.0 Congress with Tanja Krüger, CEO and founder of Resolto of FESTO, expert in artificial intelligence who has expressed the importance of Big Data & Analytics in the industrial sector. Krüger has contrasted the analysis of historical data as it has been done so far, with the immediate analysis, which allows "in case of catastrophe not to ask ourselves: what have I done wrong? But ask ourselves what we should do in the future". For Krüger "Artificial Intelligence generates algorithms that allow us to optimize our processes, but always with a human next to us". "Through constant data analysis we can detect a quality problem during the production process, which saves us from realizing the errors once we have the finished product," concludes Krüger.

One more day, Advanced Factories has surprised the industrial professionals with a space in which of the hand of more than 300 exhibiting firms have presented the latest innovations in machine tools, automation, 3D printing, additive manufacturing, AI, IoT, Big Data, predictive maintenance, digital twin or cybersecurity.

The Industry 4.0 Congress has been staged, also by the automotive sector with David Muñoz, of Ford Motor Company, who has shared the importance of the synergy between the IT department and IT. According to Muñoz, today the required skills are changing, just as "the vision that we have to have of the business, where we are going", accepting these changes and empathizing between departments "must be the backbone of a company".

On the other hand, the congress has counted on Jorge Lanzarote, of Repsol Química, who has demonstrated the successful case of implementation of Industria 4.0 in a Repsol plant. For Repsol, this task has consisted in "digitizing and in particular in mobilizing a series of processes that are already done in the plants but that until now were done in 'paper' format or in front of a computer. Now they are mobilized and digitized. " An example of connectivity between processes that has inspired a very dedicated audience to learn the latest in Industry 4.0.

Predictive maintenance has also been one of the central topics during the day, with Jose Maria Borda, of Sisteplan, Humberto Álvarez, of Apsoluti, and José Luís Bernal, of MASA, who have encouraged the evolution of maintenance 4.0. "Either we include it within our model, giving digital solutions throughout the cycle of maintenance solutions, in real time or digital, or the future will be complex," Bernal pointed out.



Robotics and its integration in industrial plants is one of the hottest topics in the sector. Agustín Sáenz, Director of Industry and Transport at Tecnalia, pointed out that "the use of data only makes sense if we start with the problem and know what we want to do". In addition, "the combination of AI and new robotics developments makes us move from digitalization to a state of autonomy. We went from programming movements to programming objectives "Saenz added, as well as remarking that all these changes" force people to learn and unlearn constantly, we have to recycle ourselves ".

During the afternoon the Industry Start-up Forum, organized by La Salle Technova, was inaugurated by the company counselor Angels Chacón. The counselor congratulated the organizers and stressed that "startups are discoverers of new business models and this forum is an opportunity for these emerging companies to share innovative solutions with investors and large corporations." The business counselor highlighted that "Catalonia and Barcelona have established themselves as the main hub for entrepreneurship in southern Europe, with more than 1,300 startups; one in five works in the field of the industry of the future, industry 4.0 ".

Among the participating Start-ups, Nuavis has been presented, which offers solutions of augmented reality and artificial vision to improve the management of productive processes dependent on an operator; ENGIDI, a wearable device to monitor worker safety that allows reducing reaction times and application of Machine Learning methods to prevent future accidents; and Emes3D, ocn its improvement of products and processes through additive manufacturing and 3D technology. The other start-ups that have been unveiled during the day have been: AEInnova, Miachinery, Fabber, DigitalSoniSolutions, Muutec Monitoring Solutions, Idiogram Technologies, Kentu, Proglove and Datumize.

The last day of Advanced Factories on Thursday will be led by Andalusia as a guest industrial region and by the boost of talent in this sector.

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