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THE TRIBUNE

The Industrial Revolution 4.0 - Transforming Industry towards a competitive and sustainable future

MARTA
AMBOR



The adoption of technologies such as blockchain, the Internet of Things (IoT), 3D printing, artificial intelligence (AI), robotics and drones are driving a new era that is reshaping the industrial landscape.

At the last congress I participated in, Advanced Factories, I had the opportunity to witness the latest developments in the industrial sector and its significant impact on the world around us. I saw how the connection between different technologies is key to achieving a complete and efficient transformation of the industry.

Examples of application can be seen in factories, fully automated with robots and intelligent systems that communicate, are optimizing production and increasing effici-

ency. Logistics 4.0 is improving the supply chain thanks to technologies such as blockchain and the IoT, which allow real-time tracking of products.

3D printing facilitates the production and manufacture of complex prototypes. It opens up new opportunities for innovation and the creation of unique personalized products, with the possibility of integrating electronic components into their functionality.

The combination of AI, IoT and robotics allow repetitive and/or dangerous tasks to be automated, increasing productivity and safety in work environments.

With sensors connected to the internet, it is possible to monitor in real time the status of machines, production, inventory, performance, conditions and use, like the prototypes that were shown to us at the Center's stand Technological Eurecat, in which infor-



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mation is analyzed with AI to optimize production processes, predict errors in the hardware and prevent problems.

In this case AI is also being implemented to automate product inspection with great precision and efficiency: AI systems with computer vision can detect defects, anomalies and quality deficiencies that human inspectors might miss. This allows better management and control of processes, more informed decision-making and in some cases assisted by AI.

Drones equipped with AI, sensors and high-resolution cameras are used to inspect infrastructure that is difficult to access, such as electricity towers, wind turbines or

oil pipelines. They identify damage, leaks, or anomalies quickly and safely, reducing maintenance costs and preventing accidents.

One of my favorite companies at this congress was the multinational CEPSA. Its innovation team has presented a pioneering project for steam trap monitoring using IoT. It has demonstrated a strong commitment to innovation, digital transformation and continuous improvement. In addition, they have implemented collaborative technologies and pioneering projects that have significantly contributed to the efficiency, sustainability and safety of their operations.

The industry seeks to in-

tegrate sustainable practices in its processes, using technologies that reduce energy consumption, CO2 emissions and environmental impact. This new industrial era gives us the opportunity to contribute to a responsible and sustainable future. One of the most requested tools to guarantee the veracity and provenance of materials is Blockchain technology.


This Industrial Revolution 4.0 represents a great opportunity for companies in the sector, which allows them to evolve towards a more competitive and efficient business model. It is necessary to invest in education and training to adapt to this new reality. In addition, in this context, social and environmental impacts must be taken into account and ensure that the industry contributes to a more sustainable and equitable future. ●

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TOWN PLANNING

Andorra la Vella will repair different sections of Prat de la Creu street

The Municipality of the capital has found that there are several pavements that are 'very damaged'

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The realization by the Municipality of Andorra la Vella that Prat de la Creu street has «very damaged pavements» has made them take the decision to call a competition in order to act in different areas. In this way, the call aims to repair several sections of the sidewalk. It should be remembered that this street was the subject of a beautification in the previous mandate that was carried out between the Govern-

ment roundabout and Pompeu Fabra street, an action that was carried out taking advantage of the work that FEDA Ecoterm carried out for pass the heat network through it. Apart from this section, however, no works were carried out and now the intention is to act in different places where the pavement is quite damaged.

Thus, according to details from the Municipality, the intention is to «tear off all areas of green slate pavement», specifically 42 (the ones in front of each tree), sin-



The granite around the trees in Prat de la Creu that the municipality wants to replace.

ce it has been verified that «it comes off a lot» and wants to replace with bituminous mixture. They also expect to repair specific places of gray granite pavement and some curbs that are loose.

According to the ANA, the municipal corporation plans to allocate around 60,000 euros to these actions and that the different works, once they start, will last for around eight weeks. ●

POLITICS

PROGRESSISTES - SDP



Image of the Progressists-SDP delegation in Labège.

A delegation of Progressists-SDP travels to Toulouse

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A delegation of Progressists-SDP formed by Elisabet Zoppetti, Najim Aouraghe, Alain Mateu and Jaume Bartumeu attended this weekend the meeting of the beginning of the campaign of the French progressive coalition 'Europe Territoires Ecologie' which was held in Labège, in the agglomeration of Toulouse. During the events, Jaume Bartumeu was able to greet different representatives of the French center-left such as former ministers Silvia

Pinel and Jean Michel Baylet. Bartumeu followed the rally alongside Hadrien Laurent, Secretary General of the Radical Party of Gauche and Regional Councillor of Ile de France, with whom he commented on both the geopolitical situation and the rise of the extreme right and the current process of Andorra's association with the European Union. From the formation point out that the Andorran progressists, «we wanted to be in France that day, to make our contribution to the cause of progress and democracy in Europe». ●