

Press Release

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Altran presents the use of mind-control technology in aircraft manufacturing at the Paris Air Show

Developed by Altran's new World Class Center, the "Factory Avatar" is an immersive remote factory control system which uses mind control technology for the first time

Altran, a global leader in Engineering and R&D services, has developed a "Factory Avatar", an immersive and adaptive remote factory control system which supports the use of cognitive-control technology in a context of the Industry 4.0 emerging revolution.

Led by Altran's new World Class Center for Advanced Manufacturing, this Factory Avatar is an immersive remote factory control system prototype developed in close cooperation with Airbus in Puerto Real (Spain).

Immersive Remote Factory Control System demonstration @ Paris Air Show

The Factory Avatar has been developed using design thinking techniques to ensure all technology serves to create a valuable operator experience. The system itself integrates a range of advanced technologies including cognitive-control, easily deployable sensors, movie-grade immersive reality, analytics and Altran's IoT platform VueForge®.

Combining the use of design thinking with advanced technology ensures the system addresses pragmatic performance improvement in aerospace manufacturing.

On the Paris Air Show Altran booth, visitors will have an opportunity to test the fully immersive Factory Avatar, including the cognitive control technology: the demo takes place at the real Airbus industrial plant in Puerto Real through the industrial use of both mind control and VueForge® assets.

Users will be able to monitor systems by using only mind control capabilities: they will be able to interact with real data from the factory's connected operations and achieve a global view in real time of what is happening onsite.

New World Class Center for Advanced Manufacturing: Improving the industry productivity

The new WCC aims at supporting its clients in transforming their production processes and boosting their manufacturing-operational efficiency. The WCC is already involved in several projects, such as the conception and installation of the advanced predictive maintenance system deployed by Saargummi and a partnership with pioneers of a metal 3D printing platform for the automotive manufacturer Divergent 3D.

Commenting on Altran's presence at Le Bourget, **Pascal Brier, Executive Vice-President, Strategy, Innovation, Solutions** stated: "All industries are at the dawn of a major transformation, and whether you call it industry 4.0, smart manufacturing, or Industry of the future, the idea is the same: with our new WCC for Advanced Manufacturing, Altran is positioned at the heart of all the disruptive innovations developed through industry 4.0, from 3D printing processes to IoT and virtual reality".

José Ramón Magarzo, CEO Altran Spain added: *“Altran helps its industrial clients to improve their competitive position in the market thanks to implementing technology in their manufacturing operations. The immersive remote factory control system prototype is a proof of concept showing Altran’s ability to develop preventive maintenance by visually detecting malfunctioning machines or potential fails in the short term.”*

According to estimates by Flight Fleet Forecast 2016-2035, the size of the global commercial fleet could reach almost 55,000 aircraft by 2035, compared to 19,500 today. To meet this sustained demand, the aeronautics industry has to transform its manufacturing processes, manage significant progress in terms of productivity and put an increased emphasis on R&D and innovation, particularly as concerns manufacturing lines.

Since the launch of its strategic plan *Altran 2020. Ignition* in late 2015, Altran has created seven World Class Centers to spearhead the group’s strategic priorities, including “Augmented Value” and “Operational Excellence” by leveraging Altran’s cross-industry expertise and pools of multi-disciplinary experts.

Visit Altran at chalet #307, located in Zone B, at the Bourget exhibition center from June 19 to June 25

About Altran

As a global leader in Engineering and R&D services (ER&D), Altran offers its clients a new way to innovate by developing the products and services of tomorrow. Altran works alongside its clients on every link in the value chain of their project, from conception to industrialization. For over thirty years, the Group has provided its expertise to key players in the Aerospace, Automotive, Defence, Energy, Finance, Life Sciences, Railway, and Telecom sectors, among others. In 2016, the Altran group generated revenues of €2.120bn. With a headcount of more than 30,000 employees, Altran is present in more than 20 countries.

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