EMBRAER DEVELOPS ARTIFICIAL INTELLIGENCE SOLUTION TO INCREASE DATA-DRIVEN OPERATIONAL EFFICIENCY

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Embraer and Aquarela Analytics conducted a ten-month detailed evaluation of more than two terabytes of information with the aim of promoting greater integration of processes within the supply chain. By combining the use of two methodologies – Agile by Embraer and the Data Culture Methodology by Aquarela Analytics – the project was divided into two main phases over a total duration of ten months, ranging from structuring the framework for extraction, preparation, and development of AI models to the visualization layers.

Dimas Tomelin, Vice President of Strategy, Digital and Innovation at Embraer commented: "Smart Planning is the most up-to-date data tool developed and integrated to make Embraer's processes more effective. It consists of an interactive control panel on the materials used in the production process of our aircraft, helping the planning team in the management of purchases and stock levels to have more predictability in case of lack or excess of materials thanks to the use of artificial intelligence and a prediction model."

Marcos Santos, CEO of Aquarela Analytics stated:"Throughout the process, we applied all of our expertise in data analysis, platforms, and artificial intelligence algorithms to improve, transform, and integrate Embraer's operating system. It was a challenging project, where at each stage we deepened and broadened the scope as complexity and results were measured. We are very

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happy with the result and especially with the partnership established with Embraer."

Smart Planning not only optimized Embraer's inventory planning but also laid a solid foundation for future supply chain innovations. With digitalization and greater integration of data, it was possible to further improve operational efficiency, reduce costs, enhance quality and strengthen relationships with suppliers and partners.

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