



Paris Air Show, June 2015

## PRODUCTION METHODS THAT DEFINE THE STATE OF THE ART

*Our production methods combine the power of digital technology, the excellence of our people and a proven organizational model.*

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### Design right, design fast

A pioneer digital enterprise, we also teamed up with Dassault Systèmes to create Product Lifecycle Management (PLM), a method that reduces costs and production cycles by using digital models of the aircraft instead of traditional physical models. The PLM V6 version now includes all aircraft systems, and facilitates development coordination and overall unity. For example, the modernization of the Atlantique 2 maritime patrol aircraft was the first military aircraft program designed using the PLM “system” approach. It represents a significant production challenge, because it entails the collaboration of all major project partners via the PLM V6 application: French defense procurement agency DGA, naval shipyard DCNS, maintenance service AIA, Thales and Dassault Aviation.

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### Increasing human efficiency

A “digital factory” increases our competitiveness by improving both product quality and employee efficiency. This is one of the keys to our corporate strategy, building on continuity between disciplines, integration of users and short-cycle deployment. All design, production, support and customer relations information is now integrated in a single, constantly updated database, which everybody involved can access throughout the product lifecycle.



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## Managing quality and reducing costs

We deploy a production organization that enhances competitiveness. Dubbed production responsiveness improvement (ARP), it groups everybody involved in a given process, plus ergonomics, logistics and quality experts, calling on both individual experience and collective intelligence. The ARP method converts our knowledge into methodological guidelines. It motivates people by giving them a role in changing their own working conditions. As a result, production lines become more ergonomic, functional and efficient, while providing a top-flight working environment.

Another main aspect of our strategy is robotization, which is coming into widespread use on tasks that are arduous or dangerous, and do not add significant value. Used to machine primary parts, robotization improves quality, and on complex parts it facilitates the job of our skilled trade workers. Production of the new Falcon 5X and 8X has spurred investments in new generations of robots, including lifts for robots to automate the assembly of large fuselages, high-performance machines for simplified milling, record time savings in high-precision boring, automated carbon fabric lay-up, etc.

# 100%

of workstations use  
digital technology