

CASE STUDY



RENAULT  *Team Supplier*

ACCELERATING INNOVATION WITH INTEGRATION AND COLLABORATION

PLM TRANSFORMATION SERVICES

INDUSTRY – FORMULA 1 TEAM

THE IDEA

Accelerate the innovation process of the Formula One race car by integrating all people and applications into an enterprise PLM Service-Oriented-Architecture (SOA).

THE CLIENT

By winning the 2005 Constructors Championship and 2005 Drivers Championship with Fernando Alonso, Renault F1 is the leader in the Formula One racing world. The Renault F1 Team is 800 employees working at the chassis plant in UK, the engine plant in France, the Test team and the Race team crossing the world.

THE BUSINESS CHALLENGE

The design and build process of a Formula 1 car is a complex web of specialist technologies and applications – expert design software must be integrated with hi-tech production technologies and complex exploitation systems. For every sector, there is a specialized application designed in isolation; in Formula 1, the unique challenge comes from making these technologies function in harmony, to produce the end product, a Formula 1 car capable of challenging for the World Championship.

“Competitiveness in Formula 1 is about the ability to build a quick car, and maintain its development throughout the season. While we work our resources to full capacity, we must also be attentive to the manner in which we do this, and how we make best use of the tools available to us. Processia will help us eliminate the bottlenecks that can slow the constant quest for performance, contributing to our efficiency and productivity across the board. We are confident that the results for the Renault F1 Team will be extremely positive, and immediate.”

**Bob Bell, Technical Director
at Renault F1 Team**



Services
Partner



"The success we have enjoyed is down to much hard work, finding good people, and making best use of the resources available to us. The support Processia Solutions have provided has played a key role in that package and I wish to thank you on behalf at everyone at the team for your valued contribution."

Flavio Briatore, Managing Director of the Renault F1 team

THE SOLUTION

Processia Solutions bring its PLM expertise to the sectors of Design, Production and Circuit Exploitation within the Renault F1 Team. In smoothing communications, information transfer and data translation between these sectors, efficiency gains of up to 15% are predicted in some sectors – optimizing performance, and freeing valuable resources to pursue additional design and development projects. Processia Solutions' comprehensive PLM approach to quantifying, developing and implementing efficiency gains accompany the Renault F1 Team step by step as they shorten and enhance the design cycle for new cars and development parts.

THE IMPLICATION OF PROCESSIA

Involved at Renault F1 since 2 years and official Renault F1 Team Supplier since 1 year, Processia Solutions has a team of specialists working at the UK plant, the France plant and from Processia's office in Canada.

Processia Solutions has realized some projects including:

- Conduct workshops on PLM Service-Oriented-Architecture strategy
- Define a new integration architecture and technology platforms
- Develop the integration between the PLM product Enovia and the ERP production system
- Develop the integrated system to manage the collaboration with the Test Team
- Integrate an Enovia Multisite environment between the chassis plant in UK and the engine plant in France
- Work on Enovia enhancements
- Develop a Web Portal for a single PLM data access point
- Consult on PLM topics regarding Change Management, Workflow, CATIA V5 integration and Configuration management

THE BENEFITS

Their contribution to the Renault F1 Team helps enhance integration and efficiency within the design, build and exploitation sectors of vehicle construction and development.

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