TRISTAR *The PLM Company*

Product Data Architecture Assessment

How effectively does your company:

- Communicate complex designs to partners, suppliers, and manufacturing?
- Modularize designs to maximize re-use across global products and brands?
- Ensure predictable global product development processes are leveraged across the company?
- Align Engineering resources and talent with the organizational structure to support Product Development?

If any of these questions resonate with you, then it is time to evaluate how to improve the ways that your organization develops new products and leverages valuable resources. TriStar's Product Architecture Assessment can help you to resolve your most difficult product development challenges and deliver results that will help enable long-term benefits.

The Benefits of Doing an Assessment

By creating the right strategy for Product Data Architecture, TriStar customers can:

- Effectively translate market requirements into robust designs
- Integrate Product Architecture with Brand Architecture, Product Roadmapping, and Product Planning
- Reduce rework by leveraging knowledge inherent within product structures and designs
- Improve product line profitability by enabling greater variety at a lower cost
- Create leverage in component sourcing and product pricing
- Increase the re-use of components across products and platforms
- Align organizational structure and talent to consistently produce high quality outputs
- Improve product planning and project execution through process standardization

As part of our Assessment, we work hand in hand with your team to identify root causes to complex product development challenges. We analyze ways to leverage resources and optimize existing systems, processes and organizational design issues. In a matter of a few weeks, we provide you with tailored recommendations and a roadmap that will help you enable product development that will yield greater productivity, increased design re-use and cost savings to your organization.

What Does the Assessment Entail?

TriStar's Assessment is a high-value, cost-effective activity that will provide a clear understanding of what optimizing your Product Data Architecture can do for your business. As part of the Assessment, we help you to focus on specific Product Data Architecture challenges that can drive the greatest ROI to your business.

TriStar's Assessment takes approximately six weeks and consists of three phases: Discovery, Analysis and Recommendations. The specific tasks and deliverables for each stage are listed below.

Discovery

- Review business priorities, goals and objectives
- Tear down select product data to determine the degree of re-use and modularity
- Evaluate engineering information systems, design processes, and standards
- Summarize key problem areas and rank priorities that will determine the focus for the rest of the Assessment

Analysis

- Decompose products, categorizations into systems, sets, modules, and interfaces
- Evaluate current product structure and design for modularity; identify the areas for improvements
- Understand the degree and strength of connections between parts, geometry of interfaces and materials
- Identify opportunities to combine adjacent components, improve product performance and reduce design costs
- Analyze improvement in areas such as sourcing and pricing to achieve cost leverage
- Review opportunities to optimize existing information systems, design processes, and standards
- Calibrate the current organization to enable design governance around product Architecture

Recommendations

- Propose systemic processes to embed product architecture into the organization
- Illustrate the improved architecture and the assembly design structure for the selected product(s)
- Prescribe the optimal organization structure and talent matrix aligned to take advantage of product architecture
- Provide a roadmap for improvements to processes, information systems and supporting technologies

While each organization's strategy may aim to resolve challenges associated with different markets and products, a well-defined global product data architecture strategy will serve as the basis for effective product planning, brand planning, organizational design, requirements translation, manufacturing, service, sales and marketing. This will allow you to produce a greater variety of products at a reduced cost, thus transforming your Product Data Architecture short-comings into a competitive advantage.

To learn more about how to get started with a Product Data Architecture Assessment, please contact:

info@tristar.com.

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TriStar is a PLM consulting firm providing business advisory, business process consulting, and systems implementation and training services. We help some of the world's most recognized companies to become more innovative and competitive by helping them to create new efficiencies in their product development processes. Our approach focuses on building the right PLM foundation that integrates the processes, systems, data and people unique to every client.

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