



GreenPLM

A sustainable product development

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About us

Transition Technologies PSC is a member of the Transition Technologies Group – a leading IT software and services provider in Poland.

For **17 years**, we have been helping organizations maximize the value of their IT investments. Our proven expertise in state-of-the-art technologies and their implementation makes TT PSC a leading orchestrator of digital business change.



24 offices on 3 continents



Projects in 30 countries



100% Polish Private Capital

Sustainability and manufacturing challenges

Sustainability is becoming an integral part of business, and awareness of carbon footprint reduction, efficient waste management and product eco-design are emerging as key factors for companies. Designing a product with sustainability in mind can be challenging. Growing number of environmental regulations put emphasis on circularity aspects of products that requires designing for longevity, recyclability, and reparability. Moreover manufacturers are forced/requested to become transparent with regards to environmental effect of their products.

1
Measuring environmental impact of product

2
Ensuring regulatory compliance and staying up-to-date with evolving environmental regulations.

3
Meeting changing customer demands for sustainable products (including ecodesign).

4
Reducing energy and resource consumption while maintaining production efficiency.

5
Adopting new technologies and processes that align with sustainability goals.

Existing solutions measure environmental footprint of products at late stage of their lifecycle therefore product engineering has limited or no ability to determine environmental performance of products during the design phase.

Benefits of GreenPLM

GreenPLM is a framework that helps to meet the growing demand for sustainable products by allowing to evaluate the environmental impact of a product at early stage of its life cycle and to incorporate eco-design principles into product design process.

GreenPLM allows:

- **Definition of environmental targets.**
- **Enablement of Eco-design** by assignment of human activities to parts in entire life cycle.
- **Calculation of product environmental impact** in early lifecycle stage.
- **Comparison of environmental impact** between different product variants.

_GreenPLM features

Early impact assessment

- Support early assessment of sustainability KPI's.
- Use lightweight LCA to avoid detracting from engineering.

Full Product Roll-up

- Support impact roll-up from part level to assembly and product.
- Support inclusion of external modules.

Brownfield approach

- Build on existing infrastructure and data.
- Expanding to include further sustainability information.

Scalable Framework

- Start small, support growth of sustainability framework.
- Be prepared for coming sustainability challenges.

Transparency & Traceability

- Enable linking of data across different software tools.
- Use standard, like OSLC to realize transparency sustainability challenges.

_TT PSC's boosters for sustainable development

✓ Energy Advisor

For improved energy efficiency through reduced production costs and increased sustainability in production.

✓ AR based solutions

For product development in interaction between digital and physical world.

✓ Artificial Intelligence

Intelligent forecasts based on optimization models for sustainable warehousing and order processing.

✓ Predictive Maintenance

Fewer repairs and reduced production of spare parts, as well as reduction of transport and service visits.

✓ Predictive Quality

Fewer production cycles reduce waste as well as material requirements, contributing to lower energy consumption.

_Why us

In today's competitive marketplace, exceeding customer expectations is essential. We understand the importance of choosing the right team and implementing proven processes to deliver exceptional results. With our deep knowledge of Product Lifecycle Management and commitment to sustainable development, we take full responsibility for every project we undertake. Because **your vision is our mission!**

_Meet our experts

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