# Product Lifecycle Management (PLM)

- Ever increasing product complexity forces organizations to reimagine their approach to design - including new methodologies, design tools, and configuration management for every step of the lifecycle. This includes the pivotal role of a PLM platform in enabling the system-centric view of a product: traceability of requirements, management of systems models, simulation, and cross-discipline collaboration.
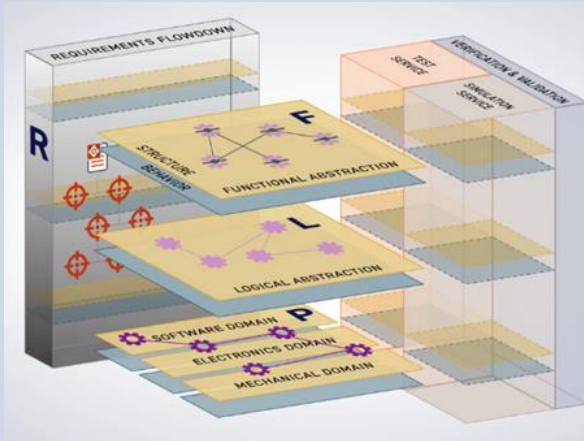
PLM Characteristics:

- Integrated processes for integrated systems.
- Iterative design for continuous improvements.
- Evolving products to better meet demands.
- Overcoming siloed teams and tools.
- Accelerating product development.

Original/Potential Field of Application

T··Systems

- The PLM technology was developed by AMC in the automotive industry in the 80s, to speed up product development processes. It resulted in the Jeep Cherokee success that defined the SUV market.

- PLM has been adopted across automotive and manufacturing industries.

- E.g., Airbus, Bosch, BMW, Daimler, Porsche, Multivac, VW and ZF, have chosen T-Systems to implement PLM-Systems and integrate them with CAD, ERP and other systems.

- The technology can be applied to research organisations that have to manage large, complex or regular changing technical infrastructures.

- CERN awarded T-Systems a 10-year contract in 2020 to migrate its SmartTeam TDM solution to a new PLM solution.

- Considering the new environment and use, the PLM solution is being co-created by CERN and T-Systems in an agile project with strong enhancement and customization of the T-Systems CATIA V5 integration.

- Research organisations can benefit from the innovation and results achieved.

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Proposal SWOT Analysis

Strengths

- Leading and industry-proven PLM solution.
- Seamless and deep CAD integration with comprehensive PLM and collaboration features inside CATIA.
- Co-creation in agile project with GIT, Docker and CI environment.
- Implementation, system integration and E2E service by large team of T-Systems experts.

Weaknesses

- First early reference for use in research available. resulting from the co-creation with CERN.
- Further adaptations to institute-specific environments may require further co-creation effort.

Opportunities

- Reference implementation available @CERN.
- Migration of legacy systems data.
- Improving iterative design and collaboration.
- Accelerating product development.
- Seamless integration of processes and systems.

Threats

- Part of the IPR subject to commercial licence.

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IPR Status & Contact Information

- The IPR of the system integration modules is with T-Systems and available as commercial licence including support contract.

- The IPR of the Aras Innovator platform software is with Aras and available as commercial licence with support contract.

- For evaluation and projects under customer responsibility, the Aras Innovator software can be freely downloaded and used. The current version 12.0 SP9 is made available here:
  https://www.aras.com/en/support/downloads.

- For further information, the contact point is

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- T-Systems offers integrated end-to-end IT solutions, driving the digital transformation of companies in all industries and the public sector.

- The company is part of Deutsche Telekom AG and is headquartered in Frankfurt am Main.

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