

OFFER SHEET

PRODUCT LIFECYCLE MANAGEMENT (PLM)

Development and deployment of digital engineering tools in line with business processes and system engineering methodologies

Use Cases

Digitalisation and conservation of skills

Tooling and practical implementation of systems engineering

Data management of industrial assets throughout their life cycle

Data harmonisation from design to decommissioning

Project Benefits

Centralisation of technical data allowing rapid access to standardised information

Structuring and organisation of engineering data

Reduction of data loss and inconsistencies through interfacing between tools

Better control of projects in terms of deadlines, risks, and costs

Better traceability of engineering choices

Optimisation of impact analysis

Structuring of the overall vision of a project with greater transversality

CONTEXT & STAKES

In many industries, information management and efficient management of assets throughout their lifecycle can be a major challenge. Within complex systems, the volume of accumulated data is particularly high.

Our PLM approach enables the management of all information relating to a product throughout its lifecycle, bringing together concepts, methods, and collaborative tools. This is consistent with the implementation of a data structuring approach based on system engineering and its disciplines (requirements management, configuration management, etc.).

THE OFFER

Assystem supports the implementation of asset lifecycle management tools with its PLM offer. This offer is based on several elements such as:

- Definition of the needs and the associated roadmap
- Construction/co-construction of the methodological catalogue corollary to the implementation of such tools
- Specification and identification of the tools best suited to the client's or project's needs: 3DEXPERIENCE Enovia (Dassault Systèmes), Teamcenter (Siemens)
- Deployment of PLM and support for change management in complex systems engineering
- Integration of PLM within an ecosystem of digital tools

MONITOR the status of documents throughout their lifecycles

ENSURE the follow-up of requirements during project phases

CONTROL the follow-up of modifications and configurations

ADMINISTER access rights and roles

STRUCTURING data around tree structures (product, geographical, organisational, etc.)

LINK documents and requirements to 3D models

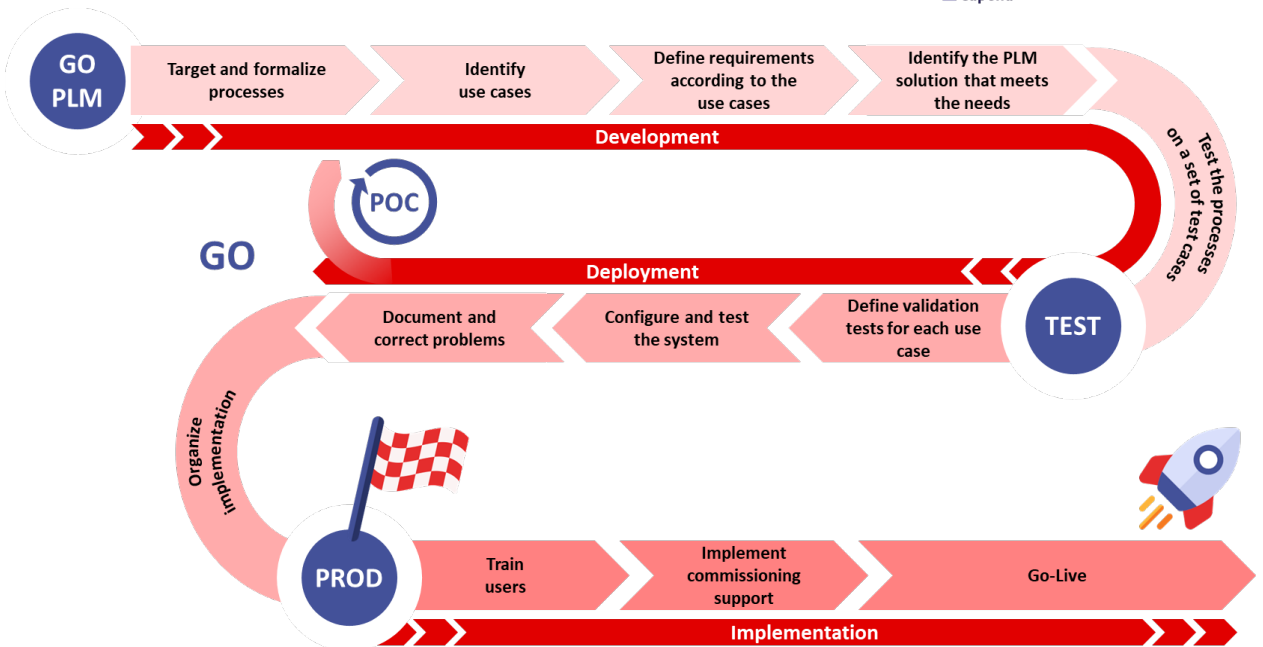
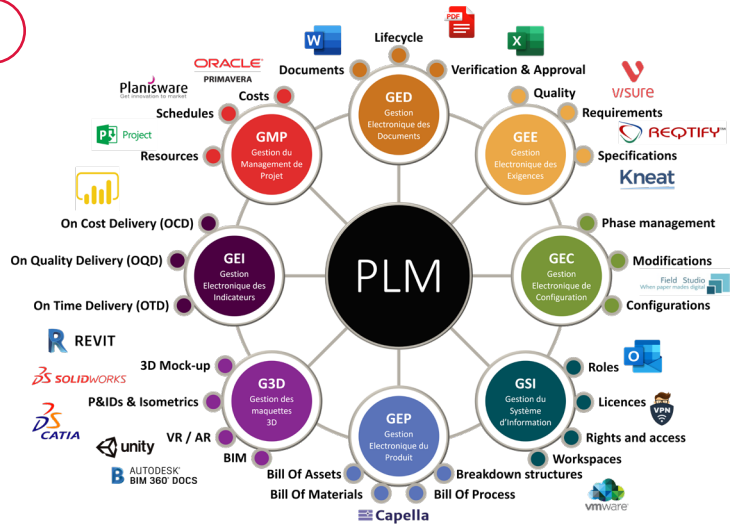
PILOT projects via performance indicators (cost, time, quality)

CHARACTERISTICS OF THE OFFER

PLM

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- **An innovative offer** that adapts effectively to different concepts, levels of maturity and project needs. Consisting of technical bricks linked to different functionalities, allowing to respond to various problems.
- **Assystem's expertise** in the development and deployment of PLM methods and tools, as well as in business knowledge in the engineering fields (nuclear, pharma, etc.).



CASE STUDY

PROJET VRAC-MI

-  Centralisation of data on a single, secure platform
-  Connecting documents to requirements and trees
-  Impact analysis, full traceability of actions and workflows

This project concerns the construction of a nuclear facility on the Cadarache site (France).

Context. A complex 20-year construction management project (12 buildings, + 1,000 requirements during the preliminary design phase, + 15,000 deliverables during the execution phase)

Issues. A large volume of engineering data and documents of various natures and maturities, not centralised and poorly interconnected, making it difficult to find and link information (impact analyses, monitoring of deliverables, etc.).

Solution. The implementation of a PLM approach has made it possible to centralise a large part of the engineering data (requirements - via the integration of a requirements capture tool, documents, tree structures - via support in the implementation of system engineering, etc.), historical and current within a platform and a shared data model, by organising it around an integrated structure.