



MATOFX SPDM™

SIMULATION • ANALYSIS • GOVERNANCE

Product Brochure

Simulation Process and Data Management

FUNI 
CONSULTING

**Every model.
Every simulation.**

One system of record.



MATOFX SPDM™ is built entirely by Funis Consulting to organise your models and manage the whole lifecycle of a simulation. Fully customisable to each customer, in look-and-feel and in features.

 Intuitive UI

Wizards, tutorials, notifications and settings.

 Solver-agnostic

Any model, any language, commercial solvers too.

 Materials & Library

Organise the company's assets for the team.

 Studies

Jobs, cohorts, parametric, optimisation, surrogates.

 Rendering

CAD, images, video, web tools, PDFs, animations.

 Governance

Permissions, curator roles, sign-offs, audit logs.

 Analytics

Job outputs, usage stats, Explore and DB.

 Customisable

Bespoke features and a look and feel that is yours.

Which model is the validated one?



If the answer takes more than a few seconds, the team does not have a single source of truth. It has several versions of one, and no way to tell them apart.

Traceability & governance



Engineering, R&D, production and design all need auditable trails and consistent collaboration. MATOFX makes the latest validated model obvious to everyone.

Complex validation workflows



Validation spans multiple tools, HPC resources and large datasets, with no single source of truth. MATOFX centralises it, so control and evidence live together.

Multi-disciplinary complexity



Built for organisations juggling many solvers, optimisation work, manufacturing operations and cross-functional collaboration.

Freedom to create. Governance you can prove.



MATOFX SPDM™ is an all-in-one democratisation tool with strong governance. Teams get the room to innovate. The organisation keeps the audit trail.

Democratised model use

Deploy validated models across departments, projects and users. Modellers and functional teams work in one place.

In-depth insights

Studies show how a model really behaves. A surrogate can even become a Tool others use inside MATOFX.

Faster decisions, lower cost

Automated workflows and visual analytics shorten the path from simulation to engineering decision.

Secure collaboration

With permissions and audit trails in place, companies let their teams create far more freely.

Nothing gets lost between the layers.



Every job inside MATOFX SPDM™ inherits its context, its permissions and its lineage from the level above it. Structure is not admin. It is what makes a result trustworthy.

PROJECT

Simulations, tools, workflows, reports and collaborators.
Permission-gated, approvals required.

SCENARIO

Configurations, assumptions and operating conditions, held side by side.

TOOLS, WORKFLOWS & STUDIES

Connect external solvers, automate execution chains, explore with ten study types.

JOBS • COHORTS • OPTIMISATIONS • SURROGATES

Where the work runs, and where a surrogate becomes a tool of its own.

Four roles.

Ten rights groups.



Permissions in MATOFX SPDM™ are role-based and set per project. Access rights and curator rights are extendable from the UI, and customisable beyond that.

Role-based permissions



Creator, Owner, Member, Viewer. Set per project, so access follows the work rather than the person.

Four access rights groups



Super User, Administrator, Beta Tester, Regular User. Four by default, and more can be added straight from the UI.

Six curator rights groups



Cohort, Library, Materials, Model, Optimisation Approver, Verification & Validation. More with customisation.

Ten Parametric study types + more

No code required.



Specific values, DoEs, random sampling, response surfaces. Set up through a wizard, not a script, and available to everyone on the team.



Approvals

Jobs, studies, optimisations, library files, materials.



Custom workflows

Pick the tools. MATOFX orders them and moves the data.



Parametric studies

Ten types: specific values, DoEs, random, RSM.



V&V & versioning

Every step verified. Everything versioned, all auditable.



Optimisations

Single or multi-objective, with a choice of methods.



No-code setup

Describe I/O in a wizard. View plots, CAD, animations.



Surrogate models

Scalar and field outputs. Fit them, then keep the best.



Built for security

Installs fully air-gapped if you need it.

Run the study once. Keep it as a Tool.



Build a Study with any released tool. Fit a surrogate to it. Then publish that surrogate as a Tool other people run inside MATOFX SPDM™, under the same governance as everything else.

Tools & Workflows

Connect external solvers. Automate the execution chain.

Jobs & Job Cohorts

Run them, then compare them side by side.

Studies & Optimisations

Ten study types. Single or multi-objective.

Surrogate Model

Scalar and field outputs. Fit several methods, keep the best.

It becomes a Tool. Anyone can run it, in seconds.

From CAD to CFD to the production line.



Thermal, fluid, structural, vibration, acoustics, AI/ML and production-line models. Complex ecosystems of simulation, co-existing and feeding each other automatically.



Centralised models

CAD, CFD, FEA, AI/ML and production-line models.



Ecosystems co-exist

Thermal, fluid, structural, vibration, acoustics.



Automated workflows

Multi-model workflows that feed each other once deployed.



Studies

Parametric studies, optimisation, surrogate models.



Digital twins

Crash simulations, airflow studies, battery packaging.



Production lines

Find bottlenecks, lift throughput, cut waste.



ML/AI integration

Physics, ML and AI, surrogates, predictive analytics.



Secure deployment

On-premise or private cloud, enterprise-grade security.



MATOFX SPDM™

REQUEST A DEMO • SEE IT IN ACTION

Get in touch

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