

Services

Consulting and expert support services

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I support industrial companies, system integrators and consulting firms in framing, securing or recovering MES, MOM, ERP-to-plant, automation, batch, IT/OT interoperability, industrial modelling and AI-ready data projects.

The services are designed to be short, focused and directly actionable: executive briefing, critical review, diagnostic assessment, functional framing, expert support, supervision or recurring advisory support.

[Discuss a need](#) [Contact me](#)

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1. Executive committee / C-suite briefing on MES, IT/OT, UNS and industrial AI

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A short intervention to help an executive committee, industrial management team, digital leadership team or transformation office understand the issues, risks and key decisions related to MES, MOM, IT/OT, UNS, industrial data, ontologies and industrial AI.

Purpose

Provide decision-makers with a clear view of complex topics: industrial architecture, digital debt, integration risks, data, interoperability and transformation roadmap.

Use cases

Preparing a digital industrial program, investment decision, project recovery, UNS framing, industrial AI strategy or clarification of IT/OT responsibilities.

Deliverables

Executive summary, risk map, key points of attention, questions to ask project teams or suppliers, recommendations and action priorities.

Indicative format: 1 to 3 days, including framing discussion, targeted analysis and executive restitution.

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2. MES / IT-OT critical review

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A short intervention to identify functional, conceptual, organizational and interoperability risks before a decision, request for proposal, contract, implementation phase or project recovery.

When to use it

Before launching a MES, MOM, ERP-to-plant or IT/OT project; before selecting a solution; when specifications look fragile; when a project starts to drift.

What I review

Functional scope, ERP/MES/SCADA/automation boundaries, business objects, flows, interfaces, master data, application responsibilities and coupling risks.

Deliverables

Summary note, main risks, ambiguity points, framing recommendations, action priorities and decision support for the project team.

Indicative format: 2 to 5 days, remote or on site, with a short and operational restitution.

3. ISA-95 / MES-MOM / ERP-to-plant framing

A mission to structure requirements, models and exchanges between enterprise systems, industrial applications and operational systems.

- Clarification of ERP / MES / MOM / SCADA / automation boundaries
- Structuring of industrial business objects in the spirit of ISA-95 / IEC 62264
- Identification of transactions, messages, events and master data
- Functional specification of ERP-to-plant interfaces
- Support for the use of B2MML or equivalent exchange models
- Consistency diagnosis across processes, applications, interfaces and data

Indicative format: 5 to 20 days, depending on project maturity and the expected level of formalization.

4. ISA-88 / batch / industrial modularity support

Expert support to clarify physical, procedural and process models, especially for batch, semi-continuous, flexible or modular processes.

- Physical model of equipment, units and resources
- Procedural model: procedures, operations and phases
- Separation between product, process and equipment
- Consistency across recipes, automation, MES and operational requirements
- Functional design oriented toward modularity, robustness and qualification
- Review of batch specifications or automation architectures

Indicative format: short mission or targeted support for an automation, MES, process or methods team.

5. Industrial ontologies, UNS and AI-ready data

Industrial AI, UNS, digital twin and advanced interoperability projects require more than available data. They require data that is understandable, contextualized and connected to the objects, activities, events, resources, states and decisions of the industrial enterprise.

- Clarification of industrial business objects, relations, events and quantities
- Alignment between operations, MES/MOM, ERP, industrial data and UNS architecture
- Structuring of vocabularies, knowledge graphs and industrial ontologies
- Semantic preparation of data for AI and domain assistants
- Consistency diagnosis across reference data, models, interfaces and operational data
- Use of ISA-88 and ISA-95 standards as exploitable semantic foundations

Indicative format: diagnostic assessment, upstream framing, UNS architecture support, domain modelling or industrial data preparation for AI.

6. Recurring expert advisory support

A flexible format to support an industrial company, consulting firm, integrator or project team that needs regular expert insight.

Supervision

Participation in project reviews, analysis of blocking points, functional arbitration and consistency of decisions.

Expert support

Targeted support for consultants, architects, project managers, IT/OT teams, methods, automation or integration teams.

Method transfer

Progressive formalization of models, good practices, deliverables, reasoning patterns and architecture principles.

Indicative format: a few days per month, or around one day per week for a structuring project.

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Independent support connecting operations, standards and technology

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My contribution is to connect operational realities, industrial standards, domain models, data and digital systems in order to make projects more coherent, interoperable and usable.

My profile combines strong industrial experience, deep practical knowledge of ISA-88 / ISA-95 / B2MML standards, and a broad technical culture ranging from functional architecture to software prototyping and Linux/Docker operations.

ISA-88ISA-95B2MMLMESMOMIT/OTBatchERP-to-plantUNSIndustrial ontologiesAI-ready dataLinux/Docker

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Discuss a need

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Are you preparing, launching, auditing or recovering a digital industrial project?

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SyntropicFactory — consulting, training and R&D by Jean Vieille.

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