Mastering AI Transformation in Industry

A strategic workshop for executive teams

Target audience

C-suite executives, VPs of Operations, Plant Managers and Technical Directors in metallurgy and other manufacturing industries who want to evaluate or accelerate AI adoption in their operations.

Workshop goal

To give industry leaders a clear, non-technical overview of AI, show where it creates real value in production environments, and provide a practical roadmap for successful implementation.

Learning outcomes

After this workshop, participants will be able to:

- Evaluate AI opportunities specific to their plants and value chain using a structured assessment framework.
- Justify AI investments with clear ROI logic and business case elements that resonate with boards and owners.
- Select an AI adoption strategy that fits their company's maturity, risk appetite and resources.
- Avoid common pitfalls that cause many industrial AI initiatives to stall or fail (data quality, integration, change resistance, unclear ownership).
- Lead their organization through the first 90 days of execution with a concrete, prioritized action plan.

Tiered formats

- **Executive Brief (1.5 hours).**
  Strategic overview, value opportunities and key takeaways for boards and C-suite.
- **Leadership Workshop (3 hours)**
  Full content in a condensed format with core exercises and decision tools, ideal for VP/Director level.
- **Strategic Planning Session (4–6 hours)**
  Deep-dive working session with company-specific analysis, prioritization and a draft implementation roadmap.

Workshop structure

PART 1 Strategic context: Why now?

- State of AI in manufacturing and process industries: where value is already being created.
- Competitive landscape: how leading players use AI as an operational and strategic advantage.
- The cost of waiting vs. the risk of moving too fast – governing AI like any other strategic investment.

PART 2 AI foundations for leaders: What you need to know

- What AI is (and is not), explained in executive language.
- The key building blocks: data, models and integration into existing production systems.
- Data quality and accessibility as the invisible foundation for any successful AI initiative.

PART 3 Value creation: Where AI drives impact

- High-impact use cases in manufacturing: quality control, predictive maintenance, process optimization, energy efficiency and supply-chain support.
- Business impact across the value chain: from raw materials and production to finishing, logistics and after-sales.
- Investment reality: typical cost drivers, timelines and capability needs.

PART 4 Strategic implementation: How to win

- Three adoption paths (e.g. lighthouse project, platform build-out, partner-led) and when each makes sense.
- Decision matrix for prioritizing AI initiatives based on value, feasibility and risk.
- Build vs. buy vs. partner: structuring collaborations with vendors, startups and internal teams.

PART 5 Execution essentials: Making it happen

- Typical failure patterns in industrial AI and practical ways to avoid them.
- Executive checklist: governance, roles, KPIs and risk management for AI programs.
- 90-day action plan: first steps to move from slides to implementation in your own plants.

Interactive elements

- AI readiness self-assessment: quick diagnostic of your organization’s current position.
- Industry-relevant case discussion: analysis of a real success and a failure story from metallurgy or adjacent manufacturing.
- Small-group exercise: apply a prioritization matrix to participants’ own operational challenges.
- Personal action planning: each leader defines their first 3 concrete steps.

Pre- and post-workshop support

Before the workshop

- Short AI maturity questionnaire tailored to manufacturing and process operations.
- One-page “AI in Manufacturing: State of the Industry” briefing for participants.
- Preparation task: each participant identifies 2–3 priority business challenges.

After the workshop

- Implementation toolkit: templates, checklists and vendor evaluation criteria.
- Curated resource library: selected case studies and technical references for manufacturing and metals.
- Optional 90-day check-in to review progress, unblock issues and recalibrate the roadmap.
