

AI-POWERED ENGINEERING

15 days to measurable outcomes



Manufacturers are racing to build the “Factory of the Future” - where engineering, PLM, data, AI, and operations work together seamlessly to drive faster decisions, higher quality, and measurable business outcomes. Yet disconnected systems, fragmented workflows, and slow AI adoption continue to prevent organizations from realizing value at scale.

Trissential helps manufacturers rapidly embed AI into engineering and operational workflows through a connected PLM, data, and AI transformation approach designed to **deliver measurable impact in weeks, not months.**

Trissential’s AI Factory of the Future

Providing Value by Friday: From idea to impact in weeks, not months



MAP WORK

Where time is lost



IDENTIFY OPPORTUNITIES

High-impact AI use cases



EMBED AI

Into workflows and systems



MEASURE IMPACT

Time savings, performance, and ROI



SCALE AI

Across teams, workflows, and systems

Week 1: Clean up the work (Sprint 1)

1. Pick the problem
Choose one specific work process and agree on the scope with the sponsor

2. See how it works today
Spend 90 minutes mapping out exactly how the work gets done right now



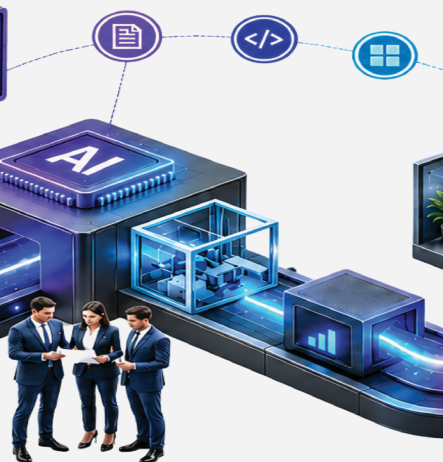
3. Cut the junk
Use “Musk’s 5-Step Process” to question, delete, and simplify useless or wasteful steps

4. Design the new way
Create a clean, perfect workflow and pinpoint exactly where AI can replace manual effort

Week 2: Build & test fast (Sprint 2)

5. Plan the test
Pick the top 1 to 3 AI ideas and gather sample

6. Build a rough draft
Create quick, working AI prototypes using low-code tools or APIs



7. Test with doers
Let the actual workers try the prototypes, gather their feedback, and make daily improvements

Week 3: Run real work & plan to scale (Sprint 3)

8. Build the real thing
Turn the approved prototype into a live, fully-integrated Minimum Viable Product (MVP)

9. Use it for real
Have a small group of 5 to 20 workers use the MVP on actual, live work for 2-3 days

10. Check the results and plan - Look at the data to see if it saved time and reduced errors, then write a concrete 30-day plan to roll it out to everyone



AI Engineering Success Stories

Real results. Real impact - Built for engineers. Proven in manufacturing.

client outcomes

AI-Powered Engineering Productivity at Scale (Global Manufacturing)

Enable engineers to use AI in real work environments (analysis, reporting, decision support, and task execution) to augment daily engineering activities, not just pilots or training



- 700+ engineers enabled with AI tools
- 70–80% active adoption in daily workflows
- 10–20% time savings on engineering tasks
- Faster decision-making and reduced cycle times

AI-Driven Engineering Workflow Automation (Automotive / Industrial Manufacturing)

Embed AI agents into engineering workflows (design, planning, documentation, coordination) to automate repetitive tasks and streamline how work gets done



- \$300-\$500K value delivered PER TEAM within six months - rapid ROI
- 10–25% gains in productivity and throughput, plus a 10–20% reduction in rework and quality issues per engineer, per week
- 1,500–2,000+ hours saved within 6 months

AI-Enabled Engineering Quality & Validation (Life Sciences Manufacturing)

Apply AI to validation, testing, and quality processes to automate documentation, improve traceability, and accelerate compliance-driven engineering cycles



- 35% faster validation cycles
- 20%+ reduction in validation & compliance costs
- Improved audit readiness and traceability
- Reduced manual documentation burden for engineers

Let's prove your AI value, **FASTER**

Trissential, an Expleo Company, combines deep engineering expertise with advanced AI capabilities to help organizations move from experimentation to real, scalable impact. Our end-to-end approach - from strategy through execution and adoption - delivers faster decisions, improved quality, and measurable business outcomes. 16,000 engineers servicing 29 countries.



Ready to realize the full value of AI in your engineering & operations?



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