



Making AI work in your Organisation

What works and what doesn't.



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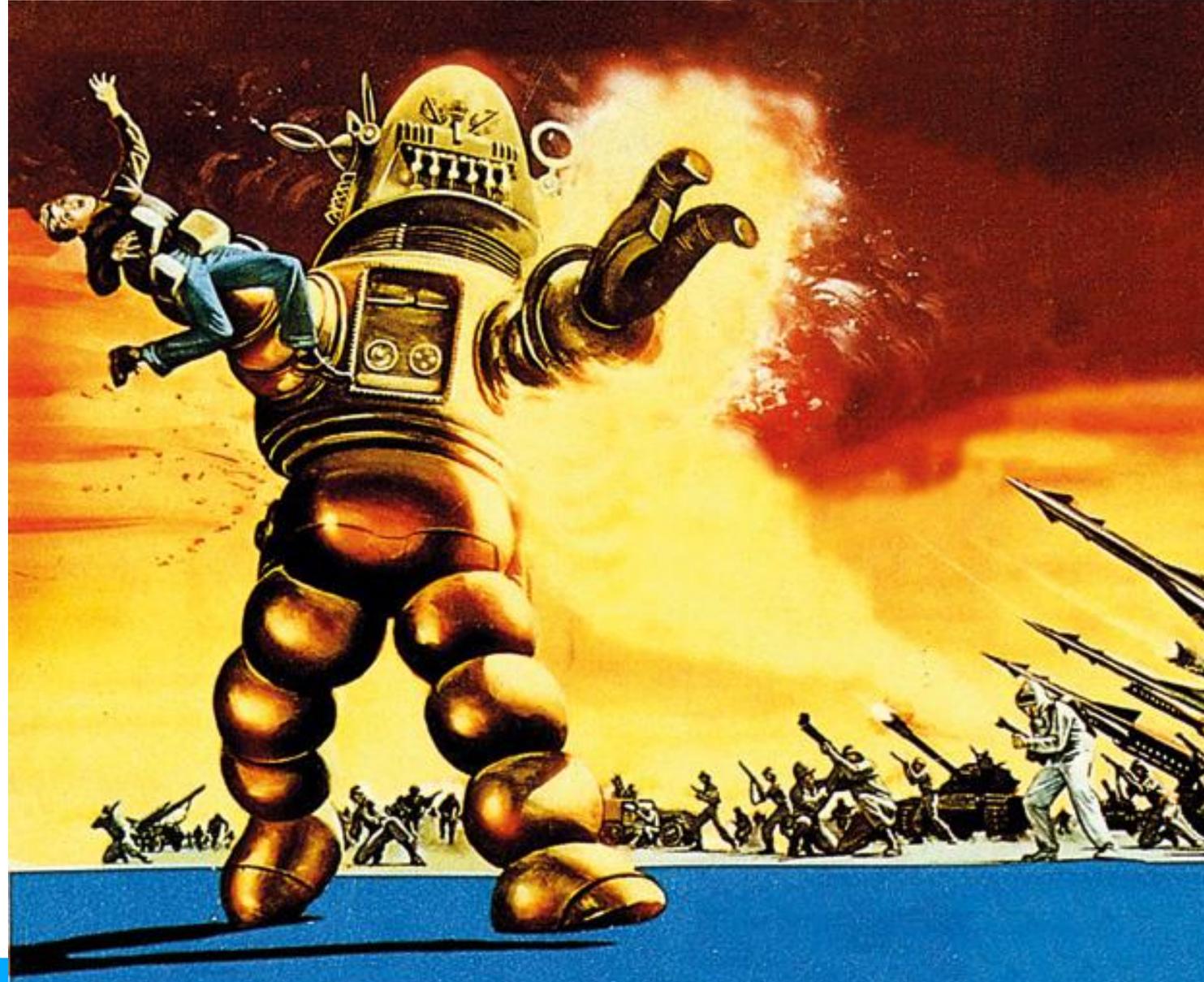
Data first strategies
Data interoperability
Agents / Agentic
GDPR/EU/Compliance
Risks
Bias
Inaccuracy
Flattery
Predictive maintenance
Site safety monitoring
AI-powered safety analytics
Computer vision for site inspections
Equipment tracking and utilization
Drones and image recognition
BIM (Building Information Modeling) integration
Digital twins
Schedule optimization
AI-based scheduling
Cost estimation
Generative quantity takeoffs
Risk prediction
Accident prevention
Budget forecasting
Supply chain optimization
Robotics and automation on-site
Smart construction materials
Workforce analytics
Labor productivity
Generative design

Parametric modeling
Performance simulation
Energy modeling
Daylight analysis
Thermal performance analysis
Material optimization
Design automation
AI-assisted drafting
AutoCAD automation
Revit automation
Human-centered design
Design for manufacturability (DfMA)
Interoperability
Data-driven design workflows
Visualization and AI rendering tools
Concept-to-construction pipeline
Environmental impact modeling
Carbon footprint estimation
Embodied carbon analysis
Energy optimization
Climate risk modeling
Smart infrastructure
Smart cities
ESG data automation
Environmental compliance
Remote sensing
Satellite data analysis
Predictive analytics for environmental compliance
Circular economy

Materials reuse
Resilience planning
Water resource management analytics
Data interoperability
BIM + GIS + IoT integration
Predictive analytics
Machine learning
Natural language processing
Report automation
RFI analysis
Specification summarization
Edge computing
IoT sensors
Autonomous systems
AI ethics
AI transparency
Human-in-the-loop AI
Augmented reality (AR)
Virtual reality (VR)
Mixed reality for construction
Cloud-based collaboration
Knowledge management
Generative AI assistants
Digital transformation
Decision support
Data-driven project delivery
Intelligent infrastructure
Sustainable innovation
Future of work in AEC
Data to insight

Smart construction ecosystems
AI for sustainability
AI for safety
AI for design intelligence
AI for risk management
AI for operational efficiency

Will AI Robots Kill Us All?



Start with Leadership

Executive Experience

- Fear : AI versus Lean

Awareness

- Short medium long term impacts of AI on your business model and sector

A Clear Mandate from the Top

- We're "open to innovation" - *and AI is one of the options.*



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Strata: AI-Driven Productivity with Microsoft Copilot

Copilot

Background

Strata is an Irish digital construction and project controls company that delivers advanced planning, scheduling, and data analytics services for complex infrastructure, pharmaceutical, and data centre projects. The company combines deep engineering expertise with digital innovation and has developed in-house AI capability through its collaboration with CEADAR, Ireland's national centre for AI excellence. In recognition of its industry leadership, Strata was named **Engineering Company of the Year 2025** at the Irish Construction Industry Awards.

Building on this strong foundation, Strata set out to accelerate the adoption of **Microsoft 365 Copilot** across its business operations. The initiative aimed to create structured Copilot workflows for key business processes, strengthen team capability for confident and effective use, and establish a framework for responsible, scalable AI adoption aligned with **ISO 42001 principles**.

Opportunities

1 To introduce smarter processes to save time and accelerate decision-making.

Tender Analysis & Preparation

- **Tender analysis & extraction** — key field extraction.
- **Tender schedule verification** — extract key clauses.
- **Bid process outlines** — auto-generate step lists.
- **Pre-tender estimation** — ballpark estimations.
- **Template repurposing** — reuse previous tenders.
- **Template data mapping** — populate reports .
- **Document merging & flagging** — combine files.
- **Conflict detection** — identify inconsistent timelines.
- **Bid text critique** — improve tone and clarity.

Design & Technical Support

- **Design research assistance** — find tech references.
- **Design cross-checking** — surface contradictions early.

Business First Discovery

Business first, not Technology First

- Start with exploration of growth and competitiveness bottlenecks.
- Ranked list of high impact areas.
- Declared Framework / Governance.

Accounting Services Company

- CEO Led
- Long term impacts were major
- Stakeholders from each area of operations
- Shared register of AI opportunities
- Several follow on projects including voice bots, detecting fraud and savings, automations

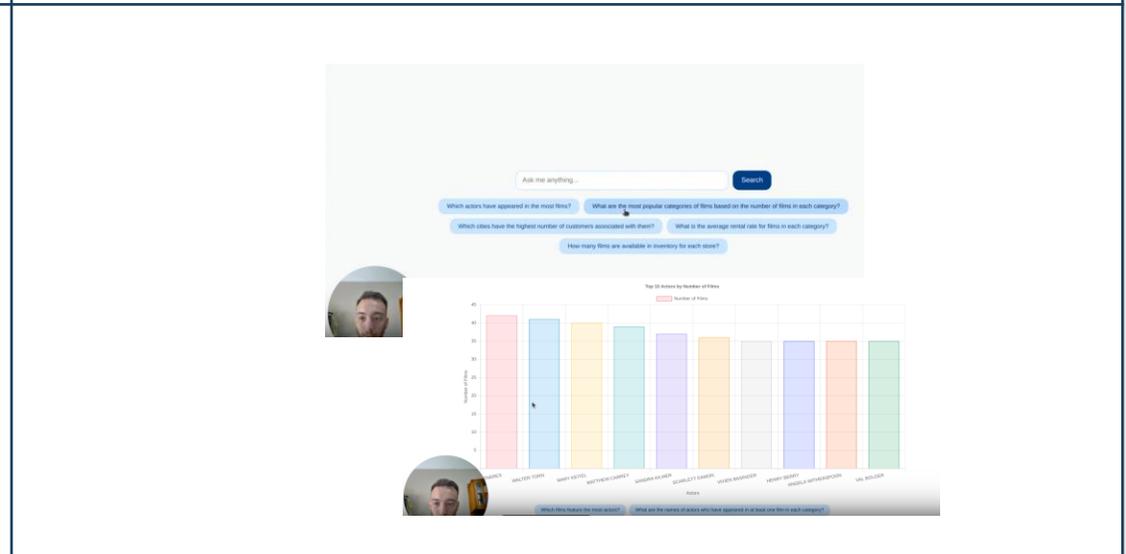
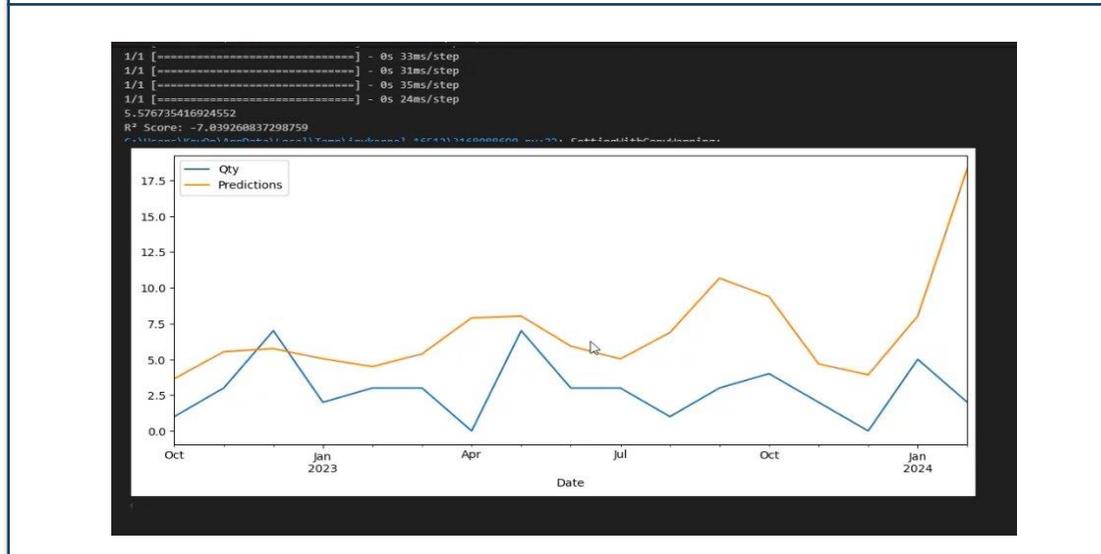
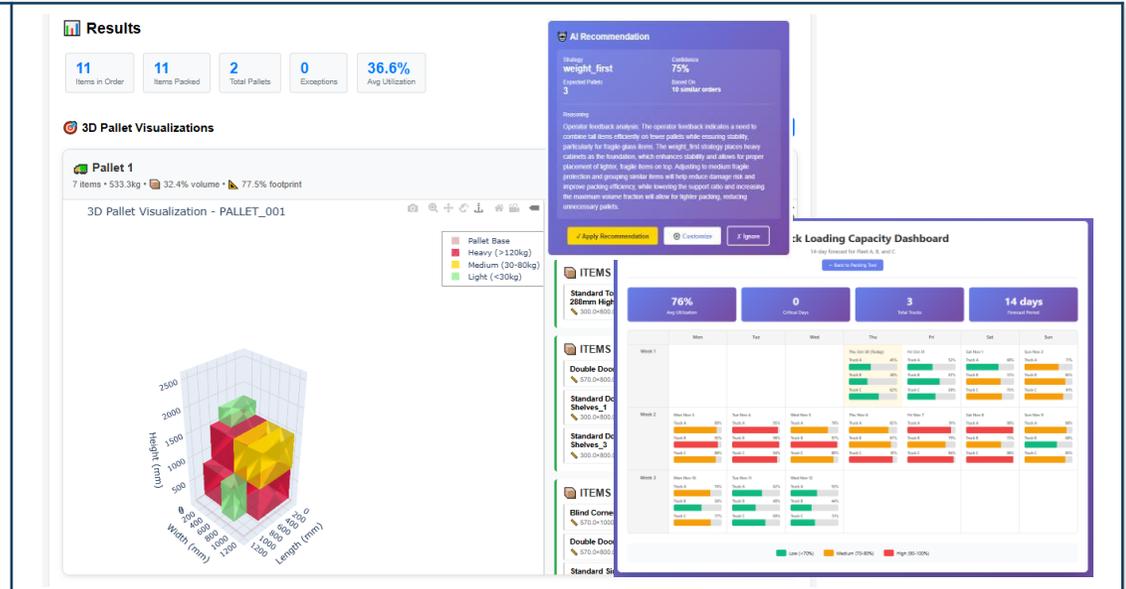
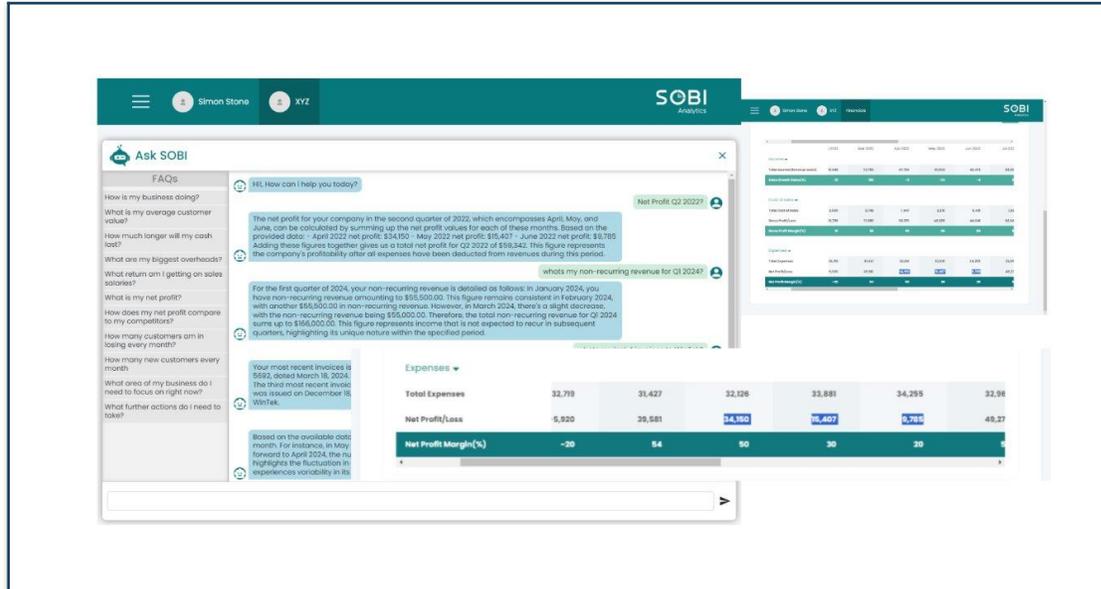
Proof Before Investment

Proof of Concepts – Possibility to Proof

Assuming you have selected an area where a win is significant...

Inputs	A Clear & Specific Measurement of Success
Test	Data Readiness AI efficacy
Outputs	Proof and Trust Learnings A Business Case

Proof Before Investment Examples



Pathways Thinking

Leadership Led Framing (*Informed Permission*)



Business First Prioritisation (*Consensus of Priorities*)



Successful PoCs (*Trusted Process*)



Transformation : AI+Lean+Digital (*Standard Transformation*)

Leading Edge Group : Global Clients



Client Project Locations



Leading Edge Group OneView Solutions

Our “OneView” solution unifies climate, operational, and digital analysis into a single roadmap for Lean and sustainable improvement, built on 30 years of expertise in operational excellence.



Consulting

We equip you with the strategy, processes and tools to implement sustainable change, accelerating your journey towards operational excellence.



Training

Our Lean programmes are suitable for all industry sectors. If participants have prior Lean experience, they can often begin training at a more advanced level



Lean & Digital Transformation

Our Framework is designed to provide a comprehensive approach to ensuring you start your transformation journey correctly and achieve the right experiences and outcomes in line with your strategy and investment priorities.



Climate Action

We offer many services in all areas of Climate Action Consultancy. Using our approach, we will help you to take the initial steps and support you through the process while developing capacity within your internal teams to carry on taking Climate Action when our assignment ends.



AI

We offer tailored AI solutions designed to optimise operations, enhance strategic decision-making, and accelerate innovation, enabling your organisation to thrive in a dynamic digital environment.

Leading Edge Group is your Partner for ensuring Successful Transformation

For More Information

Contact Us



www.leadingedgegroup.com

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Case Studies

Office Hours

Lean, Green, Digital and AI
Transformation Services

