

Business Use Case



SCOTi® AI: Material Handling

For Warehouse Design Firms, Logistics Planners, and MHI Consultants Who Want to Win More—Without the Guesswork

The Problem: Warehouse Design is Broken - We're Here to Fix It

Building or upgrading a warehouse is a huge investment – often millions of dollars (e.g., \$20M+ build costs). But the traditional way of designing them is riddled with problems, relying on guesswork and incomplete information. This leads to costly mistakes:

Traditional methods cause critical errors:

- **Inaccurate Assumptions:** Designers often use averages, ignoring the real-world complexities of your business. For example, assuming an "average order size" might miss the fact that you have a mix of small and large orders. This can lead to operational chaos and unhappy customers.
- **Inefficient Processes:** Manual data cleaning/analysis takes weeks, delaying projects and limiting bid capacity.
- **Costly Errors:** Suboptimal layouts increase picker travel time, misallocate automation, and hurt long-term ROI.



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SCOTi's AI-Powered Warehouse Optimization Solution:

sSy.ai leverages SCOTi's AI engine to transform raw warehouse data into actionable design insights:

1. Data Standardization & Cleaning:

- a. Automatically flags anomalies, missing data, and SKU attributes (e.g., cold storage, perishables, high-value items).
- b. Classifies data into MHI-standard categories (e.g., velocity, ABC analysis).

2. Intelligent "What-If" Scenario Testing:

- a. Simulates layouts based on real order profiles (e.g., "How does grouping fast-moving SKUs reduce picker walking by 30%?").
- b. Optimizes variables: automation levels, zone pairing, seasonal demand, and space/cost constraints.

3. Industry-Specific NLP:

- a. Understands MHI jargon (e.g., "lines," "volume," "cross-docking") for seamless designer interactions.

Value Delivered:

- On warehouse design /build via optimized layouts (e.g., right-sizing automation)

10% Cost Savings



- Reduces analysis time by days/weeks, enabling firms to handle 20–30% more bids,

Faster Design Cycles



- Prevents revenue-killing errors (e.g., the "bimodal order size" case) with data-backed decisions.

Risk Mitigation



- Clients gain tailored insights for complex needs (e.g., high-value part storage).

Competitive Edge



SCOTi Impact

FORTNA

"SCOTi leverages customer data to provide insights across the project lifecycle."



"Accelerates our ability to deliver data-driven solutions."



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Partner Collaboration



smartR AI
Improving lives intelligently



In the high-stakes realm of manufacturing, every second and every component counts. Supply chains are complex, deadlines are unforgiving, and the demand for precision is absolute. That's why the partnership between the smartR AI (SCOTi Platform) and sSy.ai is proving to be so impactful. As Thomas Zoehrer, CEO of sSy.ai, explains:

"In the demanding world of complex manufacturing material handling, efficiency and precision are paramount. The smartR AI (SCOTi Platform) and sSy.ai partnership provides a powerful solution. Leveraging SCOTi's advanced AI-powered predictive analytics and optimization capabilities with sSy.ai's deep domain expertise in logistics, this collaboration delivers unparalleled accuracy in forecasting material needs, optimizing warehouse layouts, and streamlining the movement of critical components. The result is reduced operational costs, minimized downtime, and enhanced supply chain resilience, ensuring that aerospace manufacturers can meet tight deadlines and maintain the highest standards of quality."

This collaboration harnesses the power of SCOTi's sophisticated AI, providing predictive insights and optimization strategies, and couples it with sSy.ai's deep understanding of the nuances and complexities inherent in logistics. This synergy translates into tangible benefits for manufacturers, allowing them to navigate the challenges of the industry with greater agility and confidence. From forecasting material requirements with pinpoint accuracy to optimizing warehouse space and ensuring the seamless flow of critical components, the SCOTi Platform and sSy.ai are redefining the standards of efficiency and resilience in material handling.

In short, we help you build smarter, more efficient warehouses that drive down costs, improve performance, and set you apart from the competition.



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About smartR AI

We believe that data and AI play a key part in a sustainable world. Our mission is to facilitate and empower organizations to extract real value from their data in an ethical, responsible, and sustainable manner using cutting edge AI technology. We provide solutions that are risk-free, controllable and financially viable for any small or medium-sized enterprise, especially those who are innovators and challengers wishing to shape the future.

We like to think of ourselves as the human face of generative AI, in a world where today's technology is causing confusion. We've developed proprietary model building blocks to accelerate the development of your project. So, every company can now build its own private AI smarter.

smartR AI augments organizations with AI expertise, driving enterprise-wide implementation, and streamlining workflows. We specialize in safe private AI models that manage risk, while providing high reward. They are specifically trained for clients, enhancing and optimizing productivity, revealing previously unseen insights from their vast data pools. smartR AI improves lives intelligently by empowering workforces with actionable insights.



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