

Business Use Case



SCOTi® AI: Material Handling within Aerospace

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

The Problem:

Warehouse design is high-stakes (e.g., \$20M+ build costs) but relies on flawed heuristics and fragmented data (orders, SKUs, inventory).

Traditional methods cause critical errors:

- **Inaccurate Assumptions:** E.g., designing for "average order size" (like 5 items) while ignoring real-world bimodal distributions (many 1–2 item orders + large 20+ item orders), leading to operational chaos and lost customers.
- **Inefficient Processes:** Manual data cleaning/analysis takes weeks, delaying projects and limiting bid capacity.
- **Costly Mistakes:** Suboptimal layouts increase picker travel time, misallocate automation, and hurt long-term ROI.



www.smartr.ai



sales@smartr.ai



US: +1 408 384 8029
UK: +44 7950 292 546

smartR.AI is registered in Scotland

smartR.ai Ltd, c/o IDS + Co.
Thistle Court, Room 11
1-2 Thistle Street, Edinburgh EH2 1DD

© 2023 smartR.ai

Business Use Case

SCOTi's AI-Powered 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



- Aerospace 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."



www.smartr.ai



sales@smartr.ai



US: +1 408 384 8029
UK: +44 7950 292 546

smartR.AI is registered in Scotland

smartR.ai Ltd, c/o IDS + Co.

Thistle Court, Room 11
1-2 Thistle Street, Edinburgh EH2 1DD

© 2023 smartR.ai

Business Use Case

Partner Collaboration



smartR AI
Improving lives intelligently



In the high-stakes realm of aerospace 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 aerospace 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 aerospace 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 aerospace 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 aerospace material handling.

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.



www.smartr.ai



sales@smartr.ai



US: +1 408 384 8029

UK: +44 7950 292 546

smartR.AI is registered in Scotland

smartR.ai Ltd, c/o IDS + Co.

Thistle Court, Room 11

1-2 Thistle Street, Edinburgh EH2 1DD

© 2023 smartR.ai

Business Use Case

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.



www.smartr.ai



sales@smartr.ai



US: +1 408 384 8029

UK: +44 7950 292 546

smartR.AI is registered in Scotland

smartR.ai Ltd, c/o IDS + Co.
Thistle Court, Room 11
1-2 Thistle Street, Edinburgh EH2 1DD

© 2023 smartR.ai