

Warehouse Automation

Design, Implementation & Maintenance

Musketeers
March 2025

<http://msktrs.io/>

About Musketeers

Who We Are

Musketeers Capital is a UK-based material handling solution provider specialising in industrial automation to help Operators and Users improve operational savings and service levels.

What We Offer

- Direct Flexible Financing Options: CAPEX or OPEX models tailored to Customer needs.
- Bridging the Gap: Connecting UK Customer requirements with Overseas supplier capabilities in technology, engineering, language, and service.

Our Team

- Founded by seasoned experts from automation, IT, corporate finance, and logistics warehousing sectors.
- Supported by 10+ local engineers & programmers to deliver on-the-ground implementations and aftersales support in the UK.

Our Vision

Building a platform for automated logistics, distribution, and warehouse facilities in the UK with reliable automation solution.



Our Milestones

Solution Offerings by Process

Inbound/
Transport

Put-away, Storage &
Picking

Pcs Sorting

Packing

Order Sorting

Others

Musketeers Solution Offerings - Palletiser

Musketeers Solution Offerings - AGV (covered) Pallet Mover

Musketeers Solution Offerings - AGV Pallet Mover

Musketeers Solution Offerings - AMR Transport Robots

Musketeers Solution Offerings - 4-way Shuttle

Musketeers Solution Offerings - AMR Solution (Pallet Shuttle)

Musketeers Solution Offerings - AMR Solution (Direct Shuttle)

Musketeers Solution Offerings - AMR Transport Robots

Musketeers Solution Offerings - AMR Solution (Pallet Shuttle)

Musketeers Solution Offerings - AMR Solution (Direct Shuttle)

Musketeers Solution Offerings - AMR Transport Robots

Musketeers Solution Offerings - Box-type Pallet Sorter

Musketeers Solution Offerings - Table-top Sorting Robots

Musketeers Solution Offerings - AMR Solution (Pallet Shuttle)

Musketeers Solution Offerings - AMR Solution (Direct Shuttle)

Musketeers Solution Offerings - AMR Transport Robots

Musketeers Solution Offerings - Auto-loader

Musketeers Solution Offerings - Auto-loader

Musketeers Solution Offerings - AMR Solution (Pallet Shuttle)

Musketeers Solution Offerings - AMR Solution (Direct Shuttle)

Musketeers Solution Offerings - AMR Transport Robots

Musketeers Solution Offerings - Pallet Sorter - Sorter

Musketeers Solution Offerings - Table-top Sorting Robots

Musketeers Solution Offerings - AMR Solution (Pallet Shuttle)

Musketeers Solution Offerings - AMR Solution (Direct Shuttle)

Musketeers Solution Offerings - AMR Transport Robots

Automation Hub
WMS - WCS Connector Platform

Musketeers Solution Offerings - Floor Cleaner

Musketeers Solution Offerings - AMR Floor Cleaner

Musketeers Solution Offerings - AMR Floor Cleaner

Self-development

- Automation Integration Hub/ System
- Finance model (OPEX) for users/ 3PLs

Partnerships

- 5+ Partnerships with vendors
- 5+ local Sales/ Implementation Partners in
 - HK (Smart-tech*, Innovation Team, 3PLT)
 - UK (Musketeers UK*, BS Handling)
 - KR (RC Logistics)
 - JP (GJ)
 - SEA (SMI, Factronics)



20,000 sqft Innovation Centre in Nuneaton, UK

Joint development with Rhenus

Equipment to be installed:

- Sorters (installed),
- AMR robots (in transit),
- AGV Pallet Movers (planning)
- 4-way Shuttle (planning)

Logistics and Supply Chain MultiTech R&D Centre
物流及供應鏈多元技術研發中心

Project Overview

www.lscm.hk

E-commerce order received from customers.

Time-consuming order picking in pick-up warehouse

Order packed and delivered

Enhance storage location assignment

- Develop an AI-based approach incorporating more factors to effectively model customer demand.
- Target 20% reduction in pickers' average travel time per pick by optimizing the placement of high-demand products in accessible locations.

Confidential

2

Multi-Modal Based Transformer for Efficient 3PL Warehouse Order Fulfilment for E-Commerce

Joint development with HK LSCM to serve DB Schenker

INTRALOGISTEX

Stand #402

MOVING TOWARDS BETTER

25th & 26th March

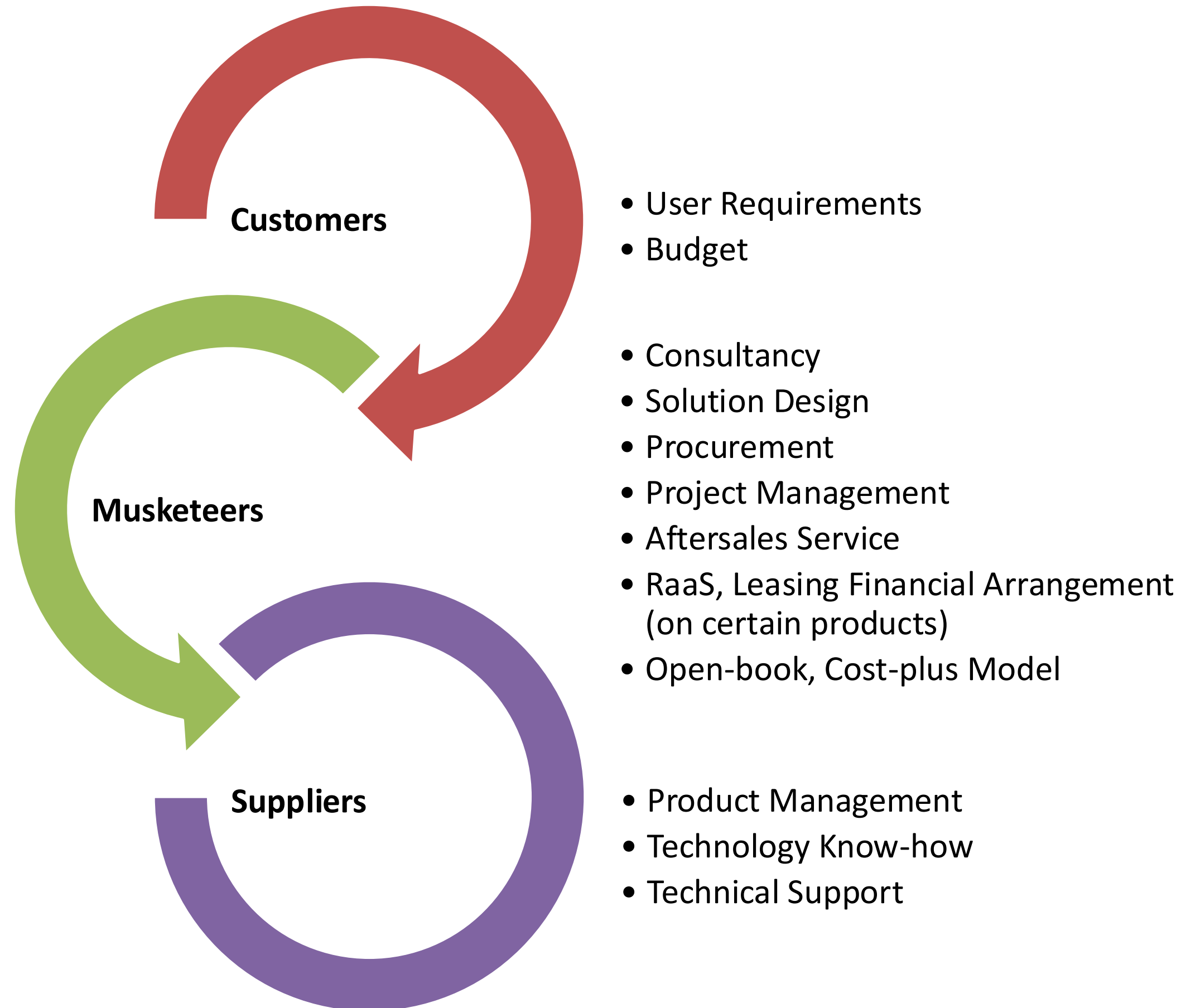
NEC Birmingham

Hall 6 & 7

Upcoming Intralogistex Exhibition in Birmingham



Business Model



Musketeers Existing Customers

ASDA

ceva
LOGISTICS

FS
cables

 **Pro FS**
Professional
Fulfilment
Services

next

GXO

NISBETS

 **ASSURANT**®

SPORTS
DIRECT

The ^{tjc}
Jewellery
CHANNEL

TESCO

ZARA

fw
FLAVOUR
WAREHOUSE

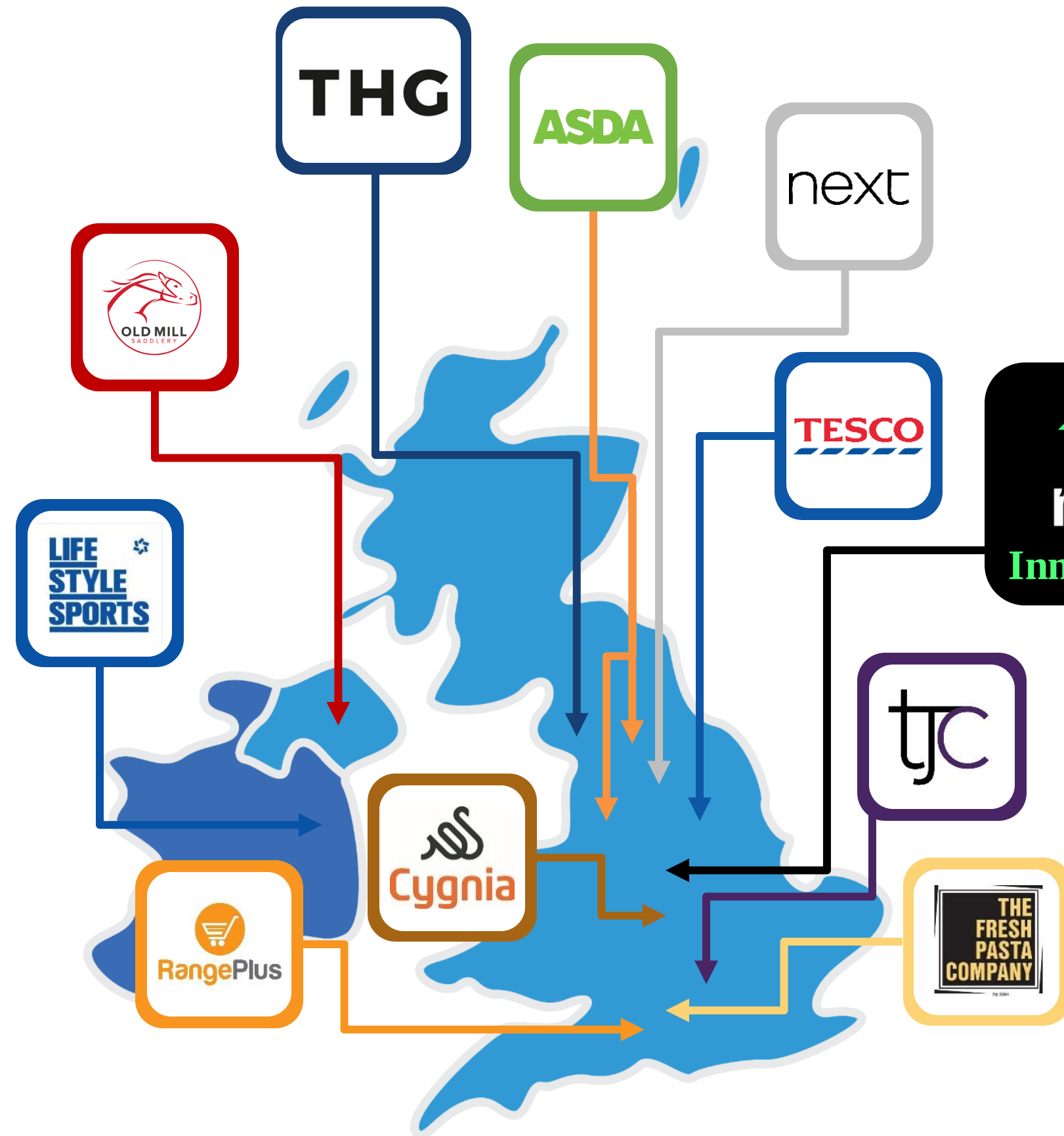
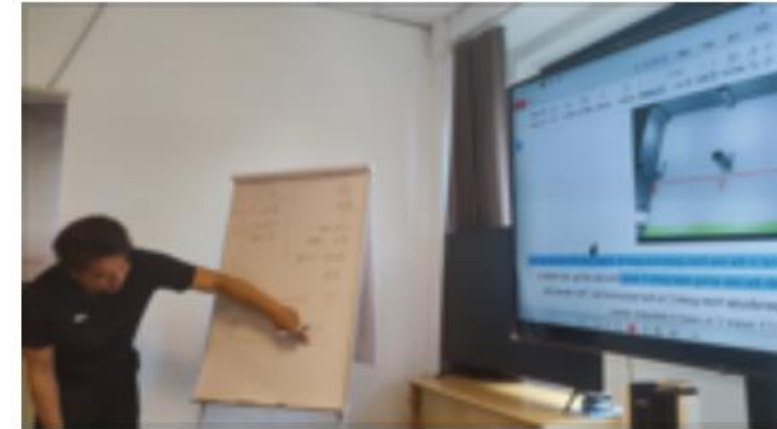
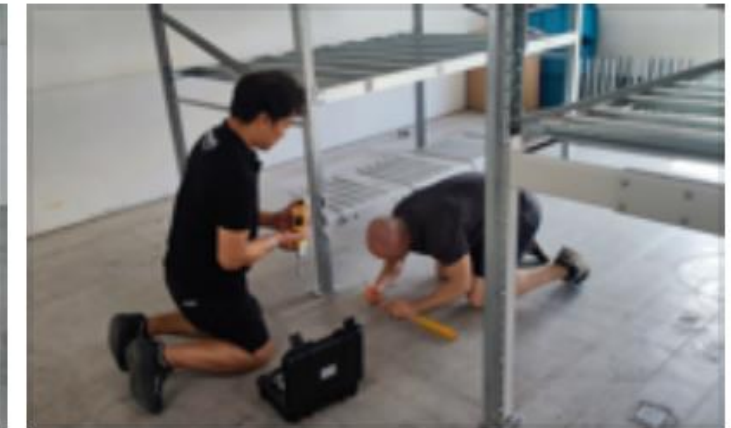
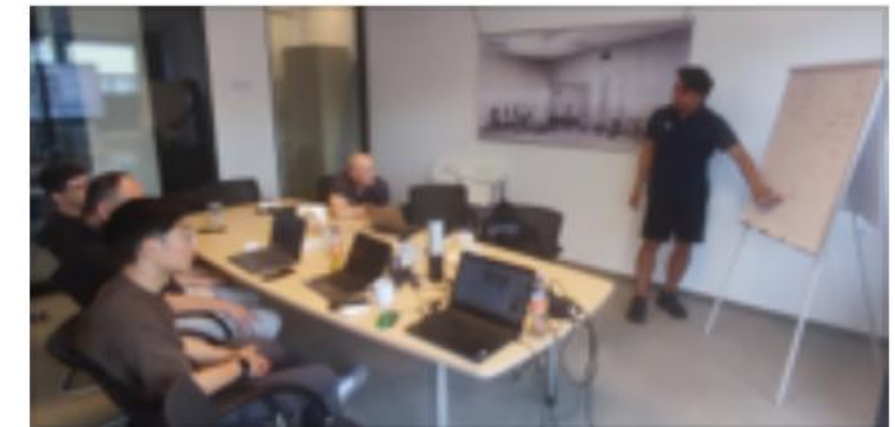
THG

 **RHENUS**
LOGISTICS


DP WORLD


msktrs

Geographical Coverage



- 10+ Local Team Members
- 7X24 Local Support
- On-site Coverages around Golden Triangle
- 100% Staff – IT or Engineering Background
- Fluent in English & Chinese
- Fluent in Hardware/ Software/ PLC/ Network

Solution Offerings by Process



Musketeers Solution Offerings – Palletizer

- 400 – 600 movements per hour
- Handling of cartons & totes
- Easy to setup/ expand

ROI: <1 – 2 Years

Musketeers Solution Offerings – AGV (closed) Pallet Mover

- Man-less Horizontal Load Movement
- Handling of pallets, cages, totes
- Easy to setup/ expand

ROI: <1 – 2 Years

Musketeers Solution Offerings – AGV Pallet Mover

- Man-less Horizontal & Vertical Load Movement
- Handling of pallets, cages, totes
- Easy to setup/ expand

ROI: <1 – 2 Years

Musketeers Solution Offerings – AMR Transport Robots

- Man-less Horizontal & Vertical Load Movement
- Handling of shelves, cages, totes
- Easy to setup/ expand
- Productivity improvement of 30%
- Operation mode: auto-delivery, follow-me, power-assisted, picking-assisting (optional)

ROI: 1 – 2 Years

Musketeers Solution Offerings – 4-way Shuttle

- Improved Storage Density by 20-200%
- Improved Productivity
- Reduction in MHE Rental
- Improved EHS
- Operate in Cold Chain Environment

ROI: 2 – 5 years

Musketeers Solution Offerings – AMR Solution (Pallet/ Shelf)

- Improved Productivity by 200%
- Improved in accuracies
- Improved in Cage Fill Rate
- Store-friendly Cages
- Improved EHS

ROI: 2 – 4 years

Musketeers Solution Offerings – AMR Solution (Rack/ Shelf)

- Improved Productivity by 200%
- Improved in accuracies
- Shortened fulfillment leadtime

ROI: 2 – 4 years

Musketeers Solution Offerings – Multishuttle

- Improved Productivity by 300%
- Improved in accuracies
- Shortened fulfillment leadtime

ROI: 2 – 4 years

Musketeers Solution Offerings – AirCube

- Improved Productivity by 100-200%
- Improved Storage Density by 200% (on par with Autostore/ Exelco at 3m)
- Utilization of up to 10m ceiling (3-tier)
- No mezzanine required

ROI: 2 – 3 years

Musketeers Solution Offerings – AMR Solution (Tote)

- Improved Productivity by 200%
- Improved in accuracies
- Shortened fulfillment leadtime

ROI: 2 – 4 years

Musketeers Solution Offerings – Box-type Piece Sorter

- Improved Productivity by 300%
- Improved in accuracies
- Improved in fulfillment leadtime
- Applicable for both fulfillment & returns management
- Increased Picking batch-size

ROI: <1 Year

Musketeers Solution Offerings – Table-top Sorting Robots

- Improved Productivity by 100% – 400%
- Improved in accuracies
- Improved in fulfillment leadtime
- Applicable for both fulfillment & returns management
- Increased Picking batch-size

ROI: 1-3 Years

Musketeers Solution Offerings – Table-top Sorting Robots

- Improved Productivity by 100% – 400%
- Improved in accuracies
- Improved in fulfillment leadtime
- Applicable for both fulfillment & returns management
- Increased Picking batch-size

ROI: 1-2 Years

Musketeers Solution Offerings – Autoboxer

- 600 boxes per hour
- Handling of boxes & loose items
- Easy to setup/ expand
- Protection of data privacy

ROI: <1 – 2 Years

Musketeers Solution Offerings – Autobagger

- 600 packings per hour
- Handling of boxes & loose items
- Reduction in wrapping material
- Applicable for outbound packing/ inbound packing
- Protection of data privacy

ROI: <1 – 2 Years

Musketeers Solution Offerings – Parcel Sorter –Zorter

- Improved Productivity by 300% - 500%
- Improved in accuracies
- Improved in fulfillment leadtime
- Applicable for both fulfillment & returns management
- Easy to setup/ expand

ROI: <1 Years

Automation Hub WMS – WCS Connector Platform

A "Multi-robot" to "Multi-Automation" Connector Hub:

- Minimize IT burden with prebuilt, reusable integrations
- Remove WMS upgrades as a blocker to innovation
- Reduce customizations and project risk to ensure a successful go-live

Accelerate launch and deployment!

Musketeers Solution Offerings – Floor Cleaner

- Direct replacement of warehouse cleaners
- Sweeping, Vacuuming, Scrubbing, Mopping
- Smart Cleaning with Recording, Scheduling, Reporting & Spot Cleaning

ROI: <1 – 2 Years

Musketeers Solution Offerings – AMR Floor Cleaner

- Cleaning of aisleway to reach robotic area
- Sweeping, Vacuuming, Scrubbing, mopping (optional)

ROI: <1 – 2 Years

**The end.
Thank you.**