Distributed Warehouse Management Experiment

MANUFACTURING SME AND CHALLENGE

New multi-brand, multi-channel e-commerce platforms bring new challenges for the manufacturing supply chain.

*The possibility to postpone effective purchase to the reception of the product (enabling the client to return it at will) creates what is known as **Virtual Warehouse**, composed by all products in transit.*

The SWARM experiment validates a service that enables manufacturing SMEs to efficiently manage distributed warehouses for multi-brand fashion e-commerce platforms.

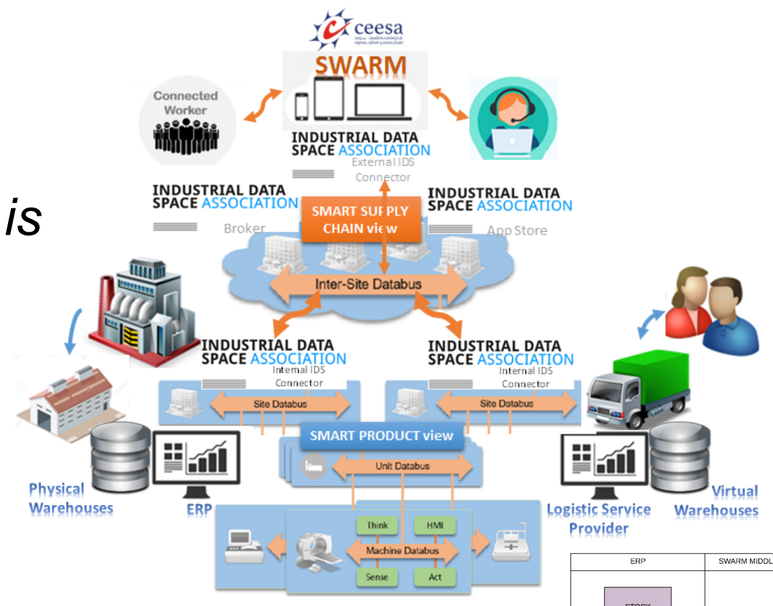
SOLUTION: ARCHITECTURE AND COMPONENTS

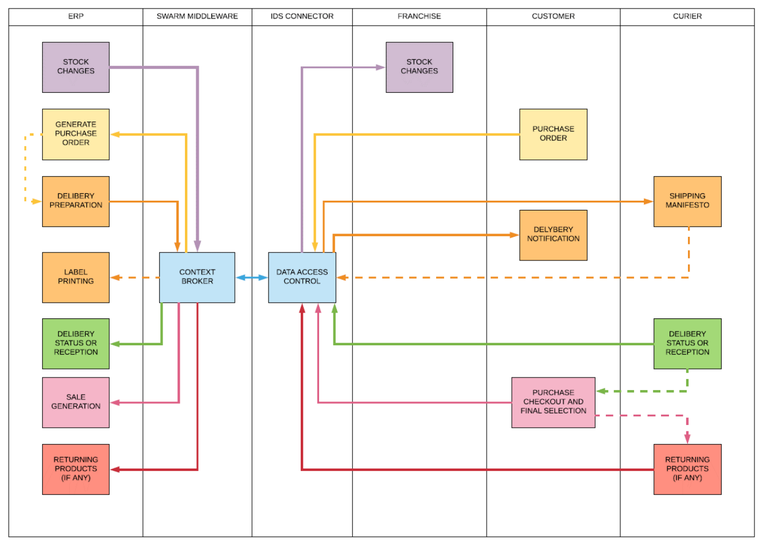
The experiment and use of the MIDIH components is intended to demonstrate:

- *Tasks automation and user roles separation.*
- *Update and optimization of inventory.*
- *Efficient order management.*
- *Maintenance and legacy systems integration (ERPs, CRM, etc.).*

MIDIH components offer

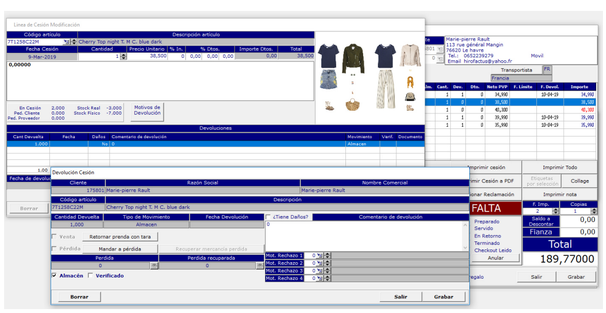
- *trusted means (**IDS connector data sovereignty**)*
- *to non-costly integration (**FIWARE OCB open standard APIs**)*
- *based on MIDIH reference implementations (**inter-site bus information exchange**).*





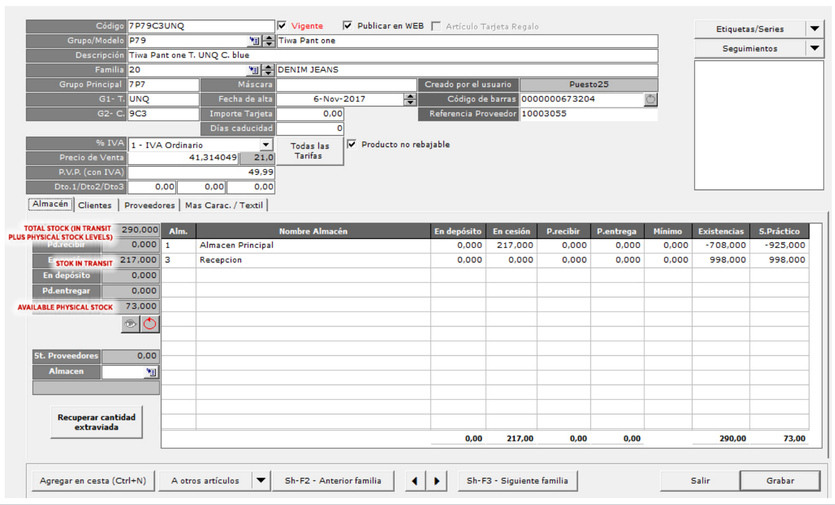
BENEFITS AND LESSON LEARNT

- ***23% reduction of delivery incidences.***
- ***27% reduction in physical stock.***
- ***Avoid stock breaks by 25%.***
- ***93% reduction of labelling times of standard shipment labelling and returns.***



OUTLOOK

- Improved data exchange & better connection between resource management tools and actors.
- Real time access to physical and virtual item stock level enables an optimized management of product availability for sales and deliveries.
- Automation of labelling via courier's web services improve quality of service for clients' satisfaction.



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