

Distributed Warehouse Management Experiment

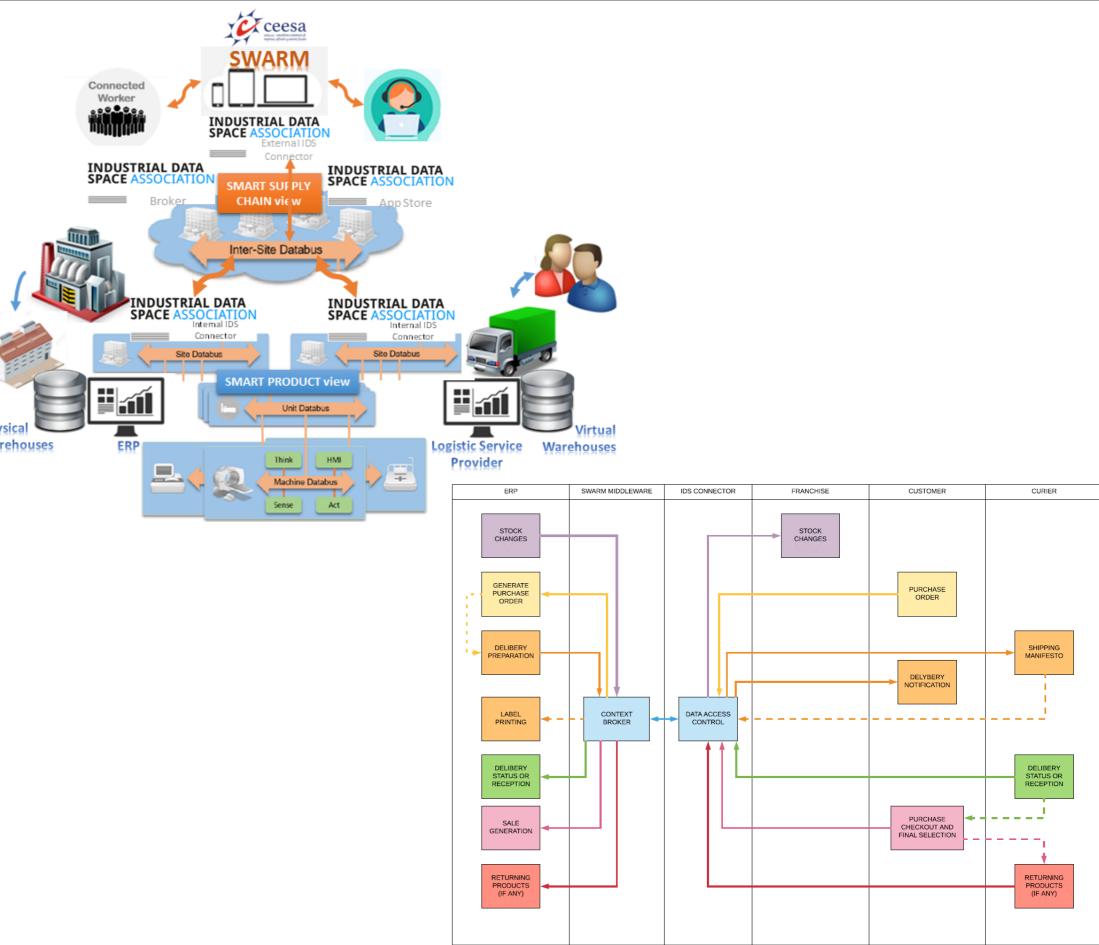
MANUFACTURING SME AND CHALLENGE

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 (intersite bus information exchange).

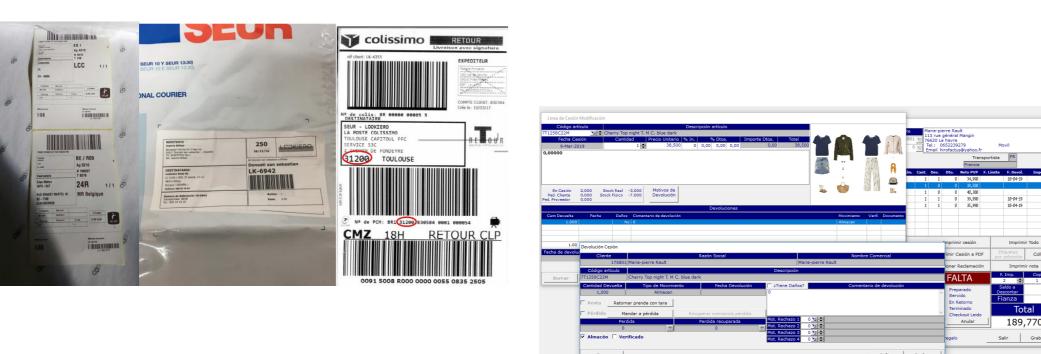
BENEFITS AND LESSON LEARNT

- 23% reduction of delivery incidences.
- 27% reduction in physical stock.

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.

- Avoid stock breaks by 25%.
- 93% reduction of labelling times of standard shipment labelling and returns.



• Automation of labelling via courier's web services improve quality of service for clients' satisfaction.

Código				Publicar en WE	B 🗌 Artículo T	arjeta Regalo				Etiqueta	s/Series
Grupo/Modelo										Sequimientos	
	n Tiwa Pant one T.	-									
Familia			DENIM JEANS								
Grupo Principal		Máscara			Creado por el u		Puest				
	I. UNQ	Fecha de alta	6-Nov	·			0000673204	4	\bigcirc		
G2- C	9C3	Importe Tarjeta	0,00	길	Referencia Pr	oveedor 100	03055				
% IVA		Días caducidad		-							
Precio de Venta	IT - IVA Ordinar	io * 1,314049 21,0	Todas las Tarifas	Producto no r	ebajable						
P.V.P. (con IVA))	49,99		-							
Dto.1/Dto2/Dto3	3 0,00	0,00 0,00									
Almacén Clientes	Proveedores Ma	s Carac. / Textil									
TOTAL STOCK (IN TRANSIT PLUS PHYSICAL STOCK LEVELS)	290,000 Alm.		Nombre Almacé	én	En depósito	En cesión	P.recibir	P.entrega	Mínimo	Existencias	S.Práctico
Pd.recibir	0,000 1	Almacen Principal			0,000	217,000	0,000	0,000	0,000	-708,000	-925,000
E STOK IN TRANSIT	217,000 3	Recepcion			0,000	0,000	0,000	0,000	0,000	998,000	998,000
En depósito	0,000										
Pd.entregar	0,000										
AVAILABLE PHYSICAL STOCK	73,000										
	® 🔿 🔛										
St. Proveedores	0,00										
Almacen	*E										
Recuperar canti	dad										
extraviada											
					0,00	217,00	0,00	0,00		290,00	73,00
Agregar en cesta (C		s artículos 🔻	Sh-F2 - Anter	rior familia	Sh-F	3 - Siguiente	familia			Salir	Grabar
Agregar en cesta (C	A OTRO	s arciculos V	Silf-F2 - Anter		Sn-P	o - Siguiente	anna			2011	Grabar



MIDIH Coordinator: Susanne Kuehrer, EIT Digital, Email: susanne.kuehrer@eitdigital.eu, Project Homepage: www.midih.eu This project is funded by the European Union Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No. 767498

