Business case

Optimizing Sample Management at the R&D Site of an Automotive Equipment Manufacturer

PRACTICE

Supply Chain

SECTOR

Automotive

DURATION OF THE MISSION

3 months

KEPLER

Overview

Our client, an automotive equipment manufacturer, wants to optimize its samples management as they saturate its storage areas.

KEPLER offers to implement an approach based on the mapping of existing flows and to determine the target operating modes.

Context

- Strong business growth on the site: 150 to 1000 employees across the past 10 years (mainly engineers and technicians)
- Management of a very wide variety of parts and components, mainly stored individually, most of which being «out of gauge» and impossible to store on pallets
- 6 different storage points identified on site, plus an overflow a few kilometers away to meet the regulatory issues of sample storage over 10 years and more
- A very embryonic central Supply Chain function and an "on demand" inventory management per each business line (testing, after-sales, etc.)
- A loss of efficiency of all trades and functions related to the management - and research - of parts in stock

Objective(s)

Improving Responsiveness and Securing Availability

- Reviewing logistic flows intra-site and implementing traceability

Our Approach

Methodology

1 **Mapping existing flows** (physical and information flows)

2 **Gap analysis of practices** across trades and determining the due need

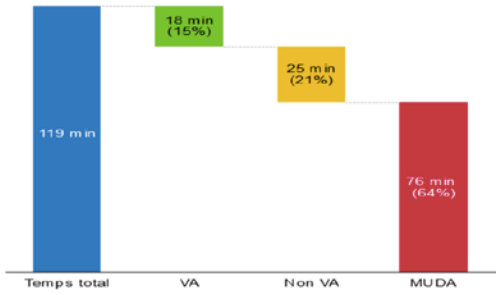
3 **Determining the target operational modes** and IT needs related

4 **Sourcing track & trace solutions** and recommandations

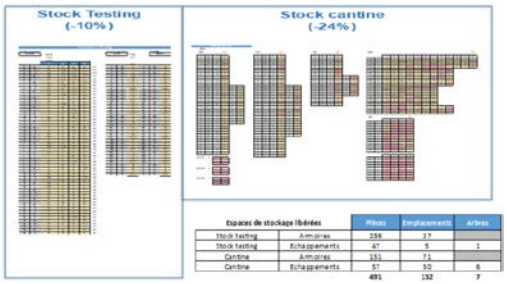
Levers and Tools

- **Costs benchmarking**
- **Flash diagnosis of the warehouse**
- **Warehouse modelling**

NVAT Observations



Dimensioning



Determining the due need

Typologie de pièce	Tests classiques (Acoustiques, durabilité,...)		Post Mortem		Pièces supplémentaires	
	A partir	Jusqu'au	A partir	Jusqu'à	A partir	Jusqu'à
0. Maquettes	Construction maquette	DV (~1 ou 2 ans)	N.A	N.A	Construction maquette	DV (~1 ou 2 ans)
1. Pièces DV	Construction du DV	PV (~2 ou 3 ans)	Lancement du Test	3 mois	Construction du DV	PV (~2 ou 3 ans)
2. Pièces PV	Construction PV	SOP + 6 mois + Garantie (1)	Lancement du Test	3 mois	Construction PV	~ 3 à 4 mois
3. Retour Client	Arrivée pièce Bavans	1 ans (2)	Arrivée pièce Bavans	Discrétion client (2)	N.A	N.A

KEPLER

Securing Availability
Supply Chain

Results

€3 / m² Reducing **Storage Costs**

Traceability of parts when they enter on-site

100% **Coverage** of intra-site flows

The inventory phase carried out on internal logistics customers enabled to highlight hidden costs and quantify the irritants generated by intra-site flows. Thus, we were able to relocate the steering and traceability matter of the parts at a tactical level.

The combined approach around the technical solution and the redetermination of the associated practices has enabled to strengthen the service offer and the value proposition with internal and external customers.

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