# How e-tailers win with smart product data & AI.

Shopping Today – 9 oct 2025





Jos Schreurs
Partner MDM/PIM



Guus van de Mond Partner AI / Machine Learning





Data foundation.



Analytics.



Artificial Intelligence.



Digital commerce.



Digital leadership.



Digital transformation.

2016 Founded

70+ Colleagues 200+ Clients We believe in the power of **PEOPLE, DATA & AI** to realize digital transformation, where trust and personal relationships are central.

# Data Driven Value Creation

Data Leadership

Data
Value Creation

Data Foundation

Squadra - The trusted partner in your data journey



#### Our main customers.

Over the last 10 years we have serviced over 200 happy customers, ready to be your reference

#### **Manufacturers**



#### Wholesale/distribution



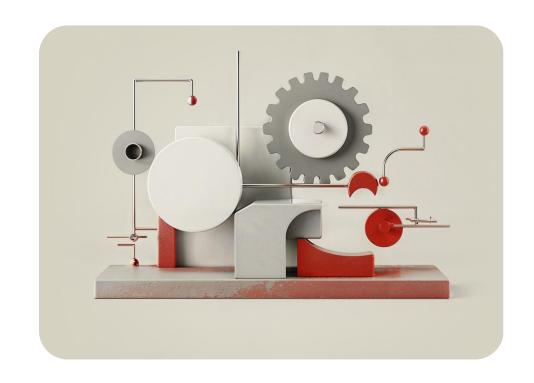
#### Retail



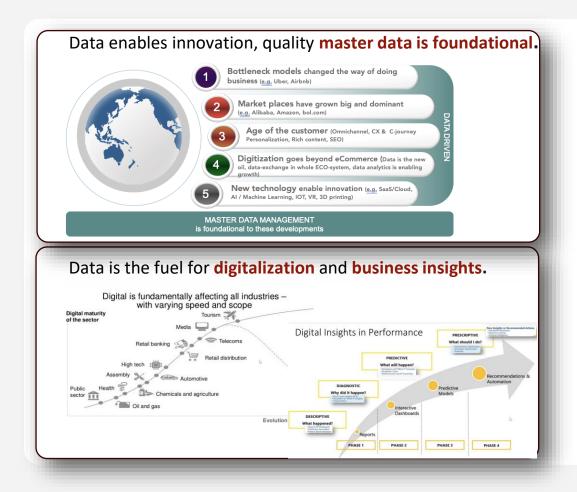
# Agenda.

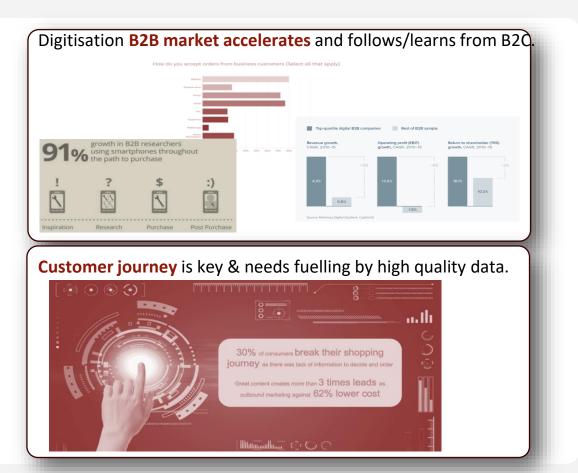
#### 1. The business context of Product Data

- 2. Al for Smart Product Data Management
- 3. Al Agents for product data automation
- 4. Q&A



## Business Context: the importance of data is rapidly increasing.....



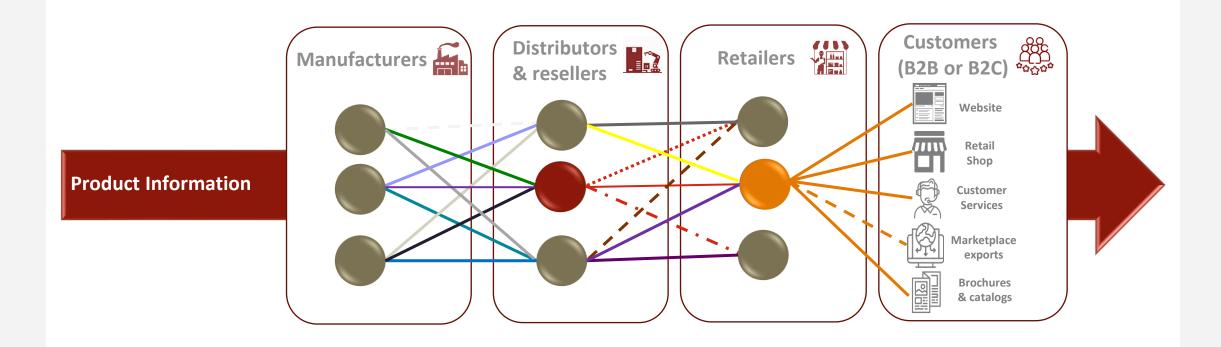


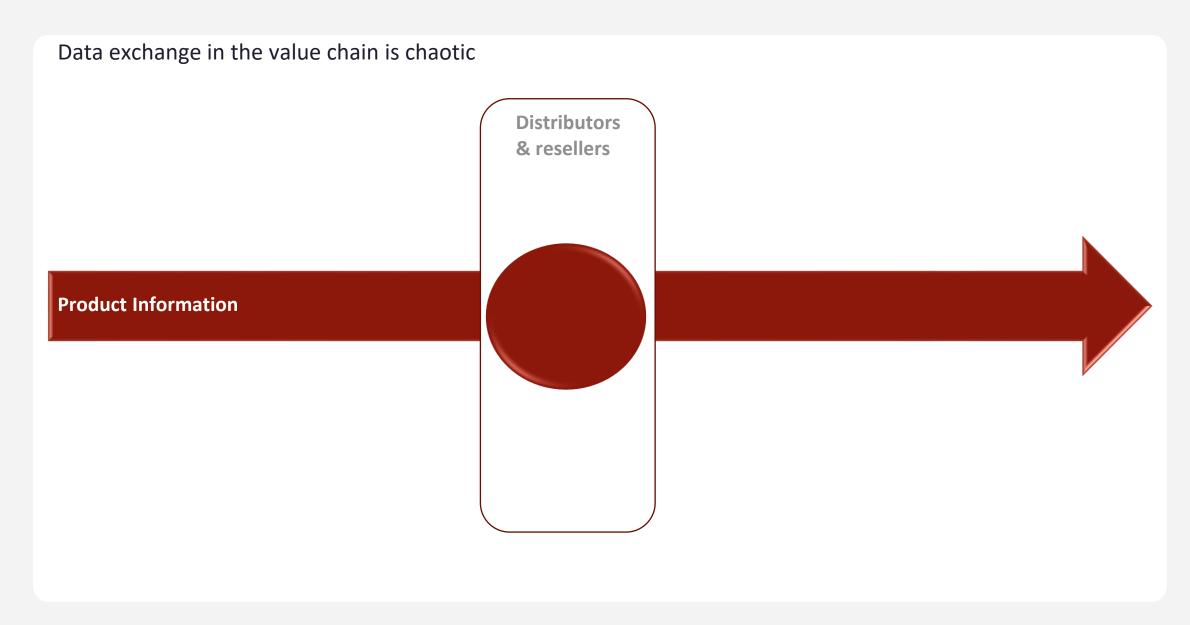
## ... And Product Data is important

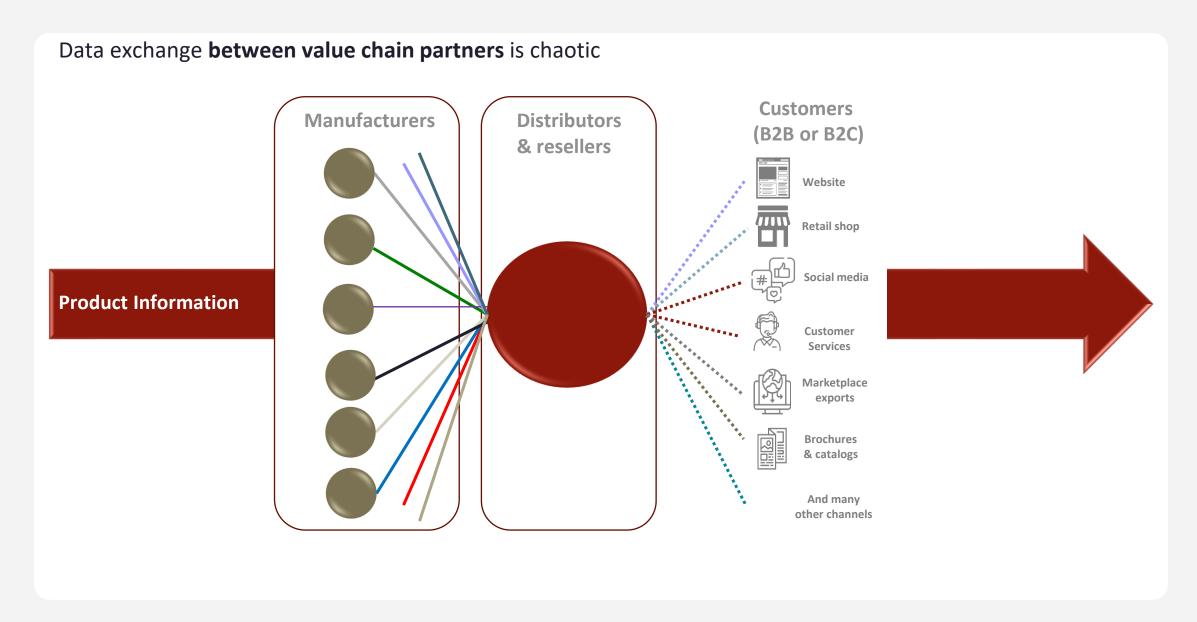


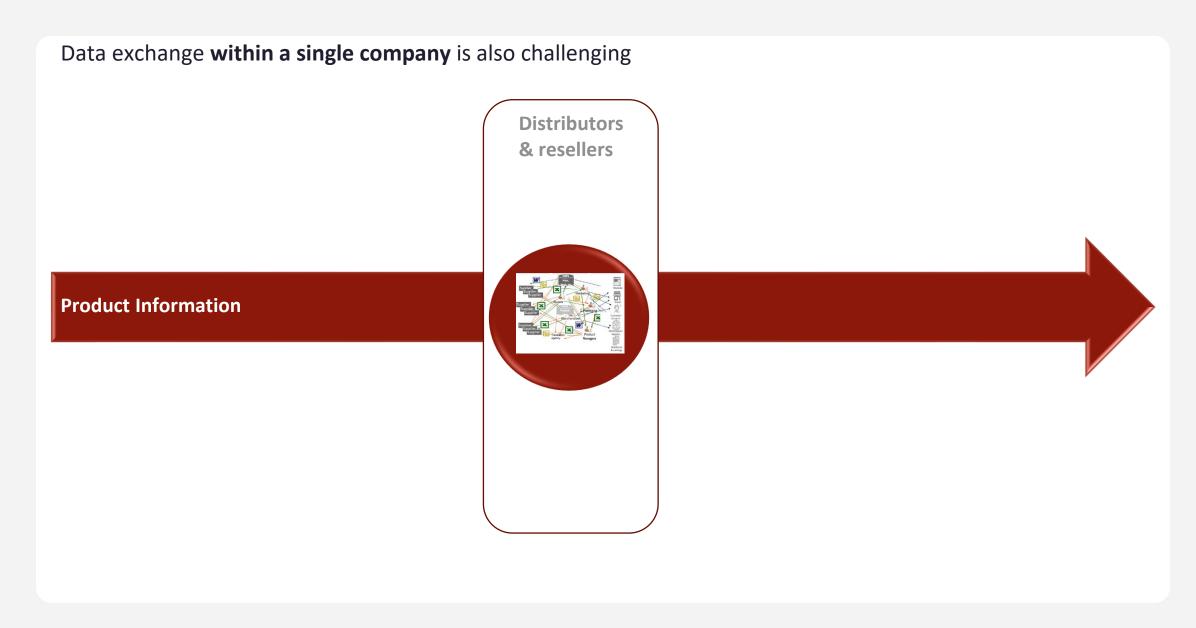
- 98% shoppers discontinue a purchase if the information about the product is incomplete or inaccurate
- <u>50%</u> of users return online purchases due to poorly written product descriptions.
- More than <u>85%</u> of users conduct online research before purchasing a product.
- Nearly <u>90%</u> of consumers rate product content extremely or very important when deciding to buy.

#### Data exchange in the value chain is chaotic



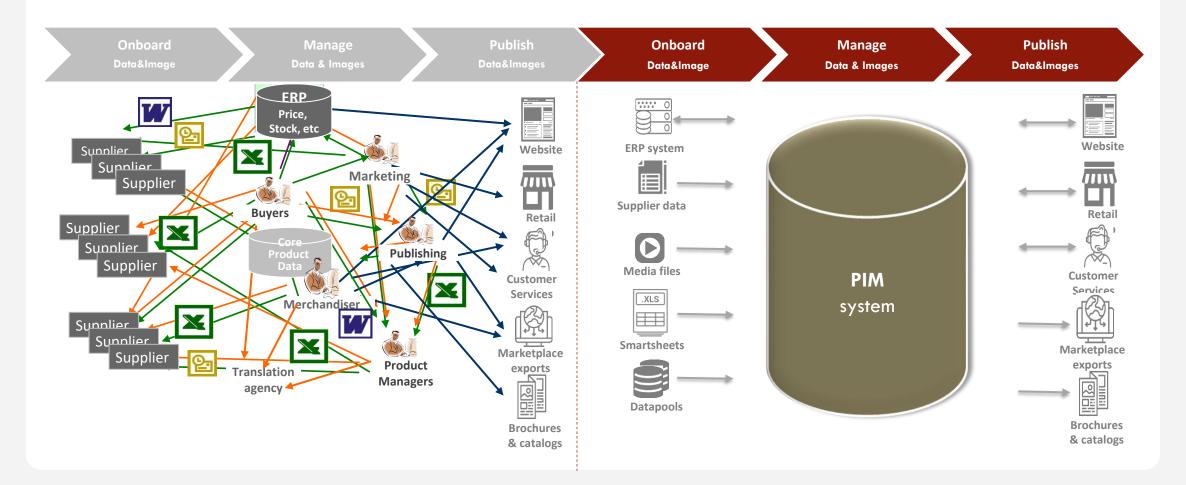






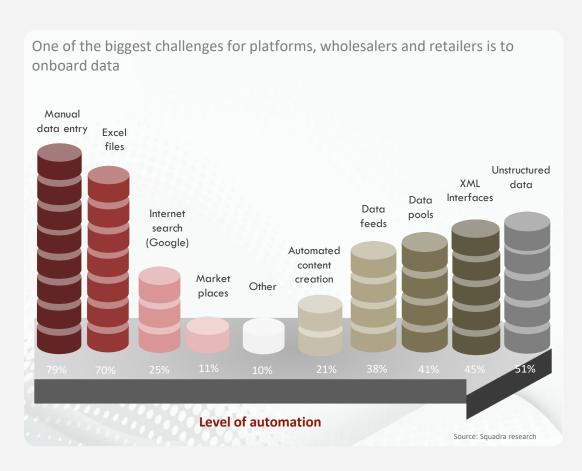
PIM solutions enable organisations to onboard, manage and distribute complete, high quality product data

From silo's and scattered landscape.... to a 360 degrees PIM solution

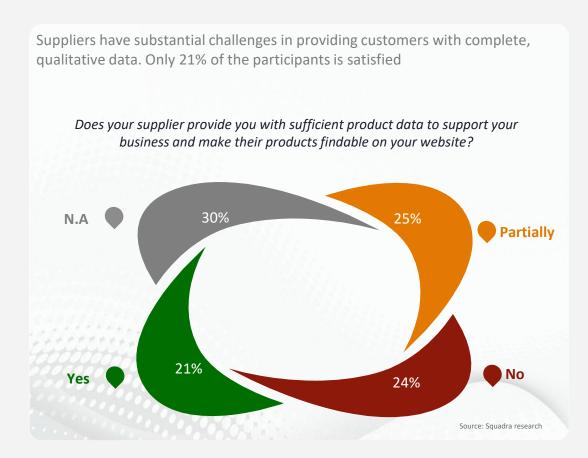


#### Efficient onboarding of product data is biggest challenge for wholesalers and retailers

#### Data onboarding challenges

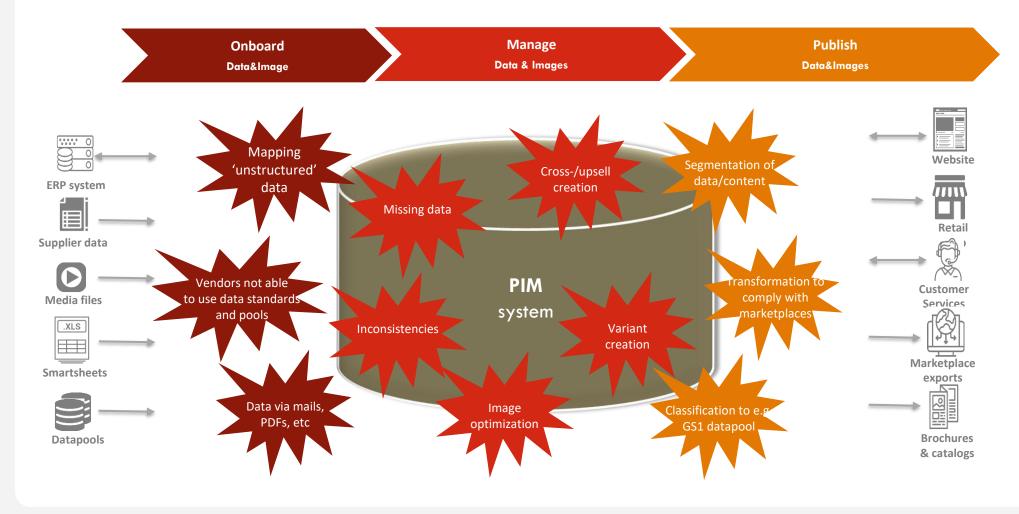


#### Wholesalers & retailers suffer from data onboarding challenges



## A single version of the truth is the foundation for AI based product data management

Smart product data management: reducing manual effort and interdepartmental data exchange and optimize data



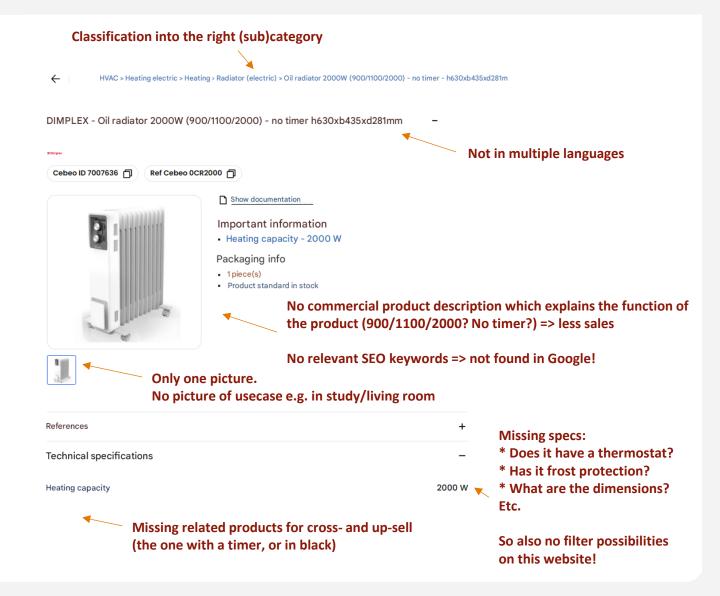
# Agenda.

- 1. The business context of Product Data
- 2. Al for Smart Product Data Management
- 3. Al Agents for product data automation
- 4. Q&A



## Common challenges with Product Data.

- 1. Product data is an extremely powerful asset of digital and omnichannel commerce, yet this data is often **not complete**, not in the **right format** or of **low quality**.
- 2. As a result, sales opportunities are missed: **low findability** of the products and **low conversion rates** (online and in store)
- 3. Manual labor is required to enrich and improve product data, but this is **expensive** and **not scalable**, especially for larger assortments.



# How can Al help?

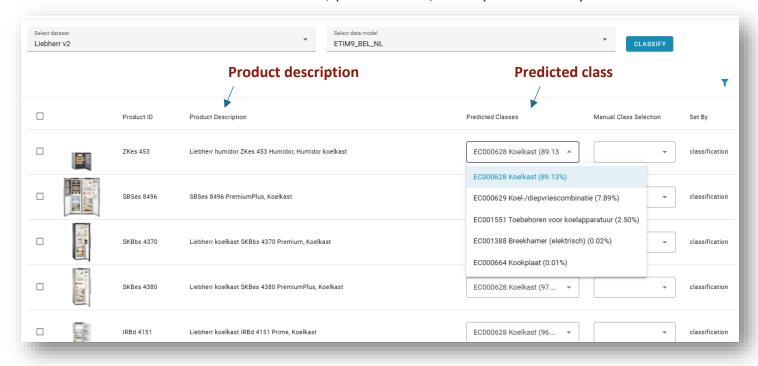
- 1. Automated classification & conversion
- 2. Automated data enrichment
- 3. Enhanced data quality
- 4. Al powered product data onboarding
- 5. Content generation & optimization
- 6. Improved product search & discovery



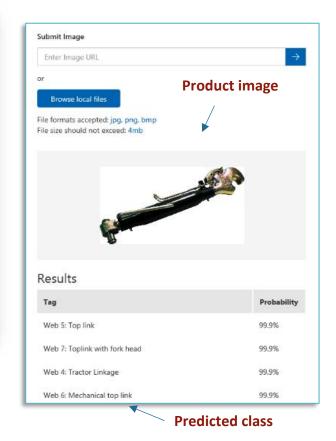
#### 1. Automated classification & conversion: ETIM, GS1, HS codes, proprietary models

Products are automatically classified to a proposed category, class, group or brick, using machine Learning models. Supports ETIM, GS1, HS/Intrastat codes or proprietary taxonomies.

Based on textual data like manufacturer, product title/description and keywords or visual data like product images.

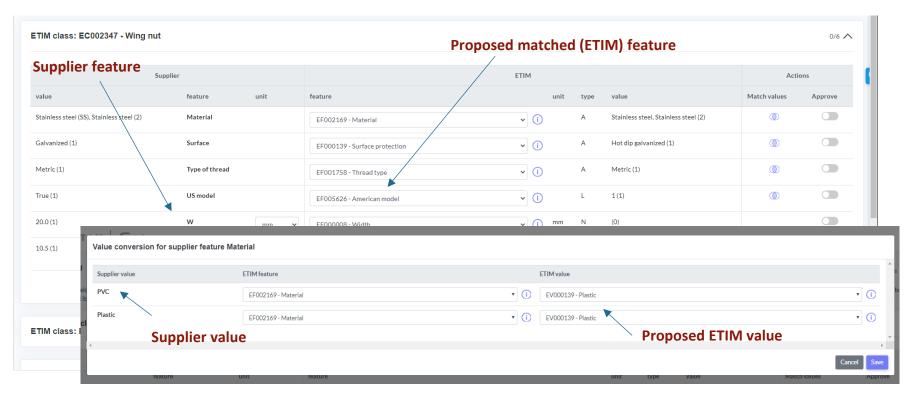


- Saves time
- Ensures consistency
- Less dependencies on the knowledge of product experts



#### 1. Automated classification & conversion: ETIM, GS1, HS codes, proprietary models

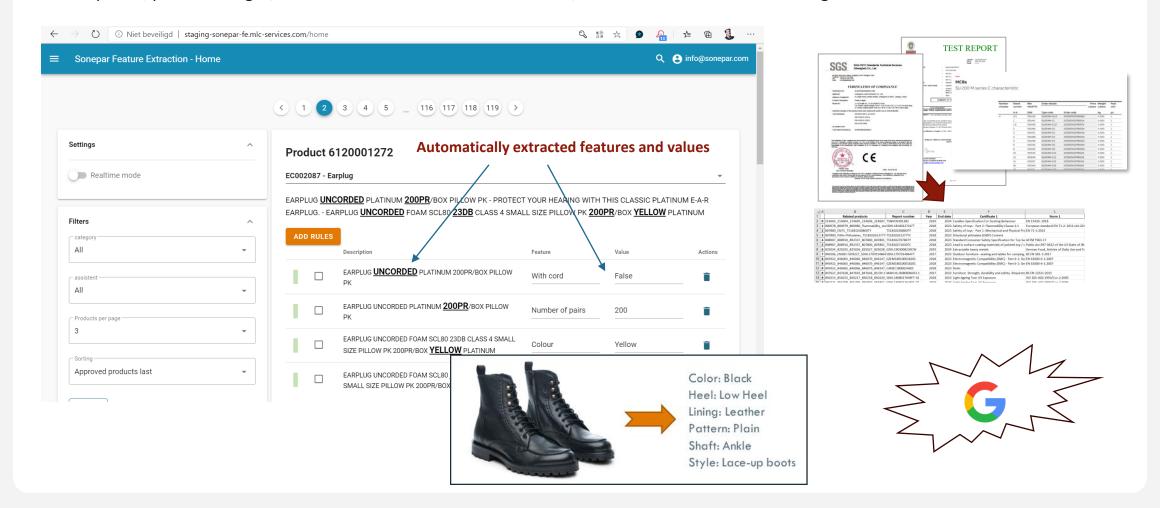
Al supported conversion of product data from one standard to the other. This can be industry standards like ETIM, GS1, Amazon or proprietary standards.



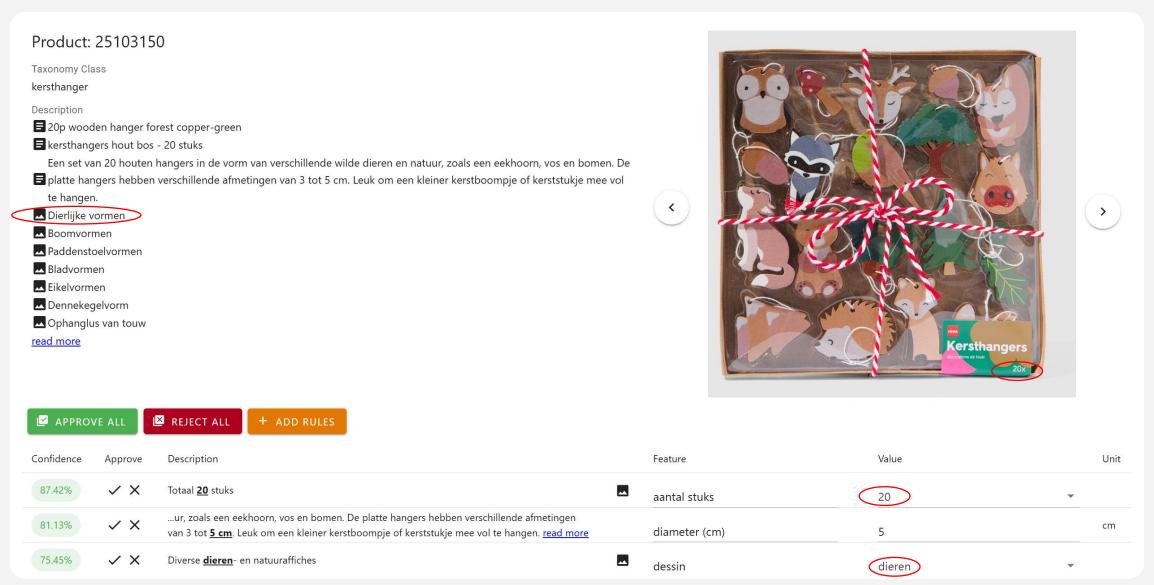
- Saves time
- No more manual mapping
- Possibly done by supplier

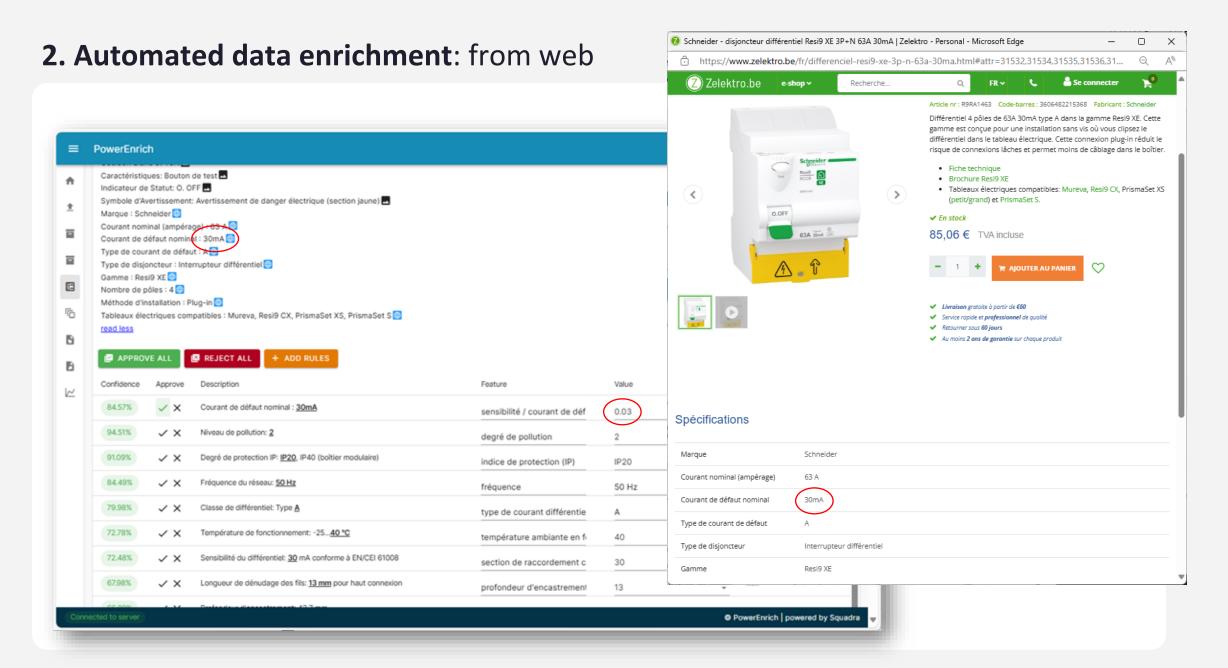
## 2. Automated data enrichment: from texts, images, pdf files and internet

A set of algorithms to enrich product feature data from alternative sources. It uses AI to extract data from sources like product descriptions, product images, PDF files and internet. After extraction, features are converted to the right formats.



## 2. Automated data enrichment: from images





#### 3. Enhanced data quality: contradictions, outliers, compliance checks, duplicates

Smart algorithms that use a range of Artificial Intelligence techniques to scan a product dataset to find inconsistencies, anomalies, doublures, matches, unlikely data values and missing data.

Contradictions in titles & attributes



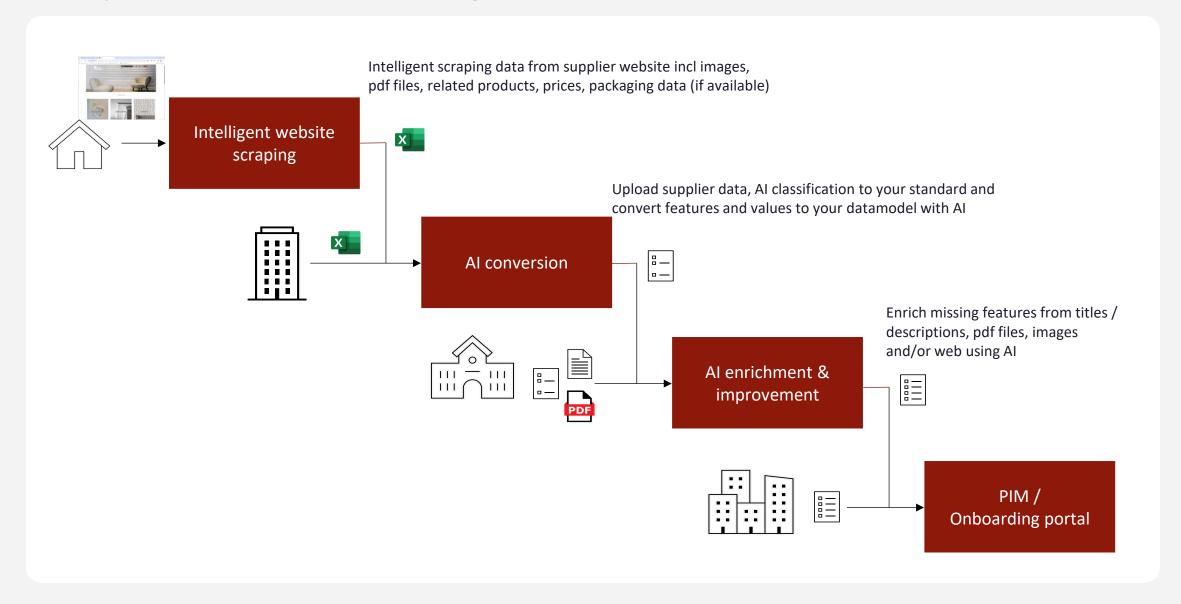
Outliers

Bathtap with a width of 2,36m??

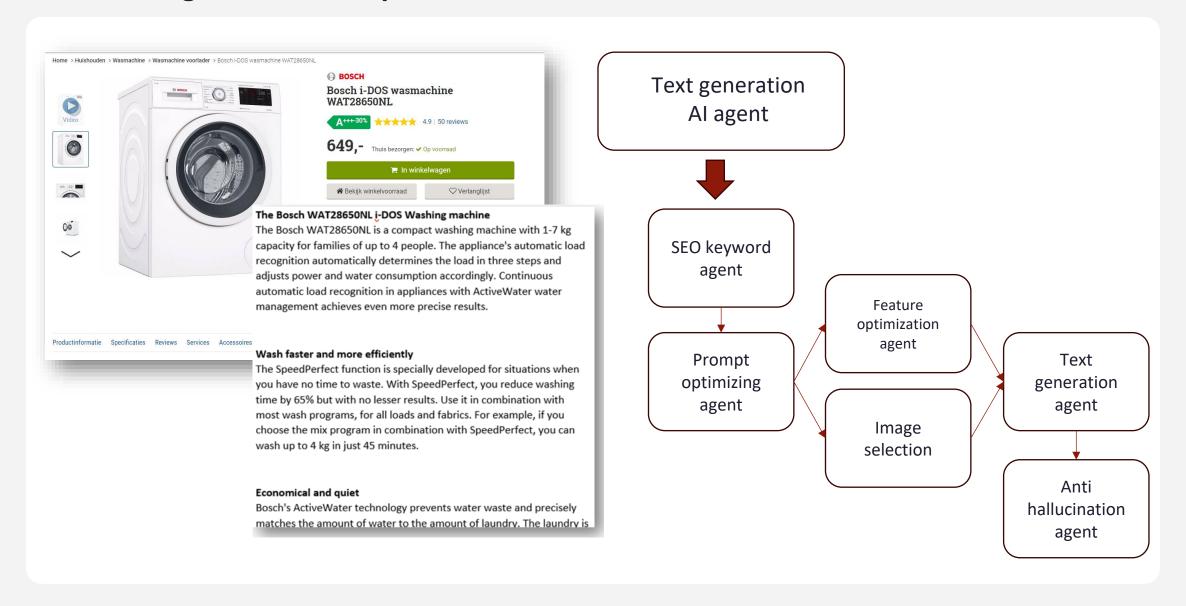
- Meaningless data: NA, 999, "-"
- Short / Long text anomalies
- Language and spelling errors, etc.



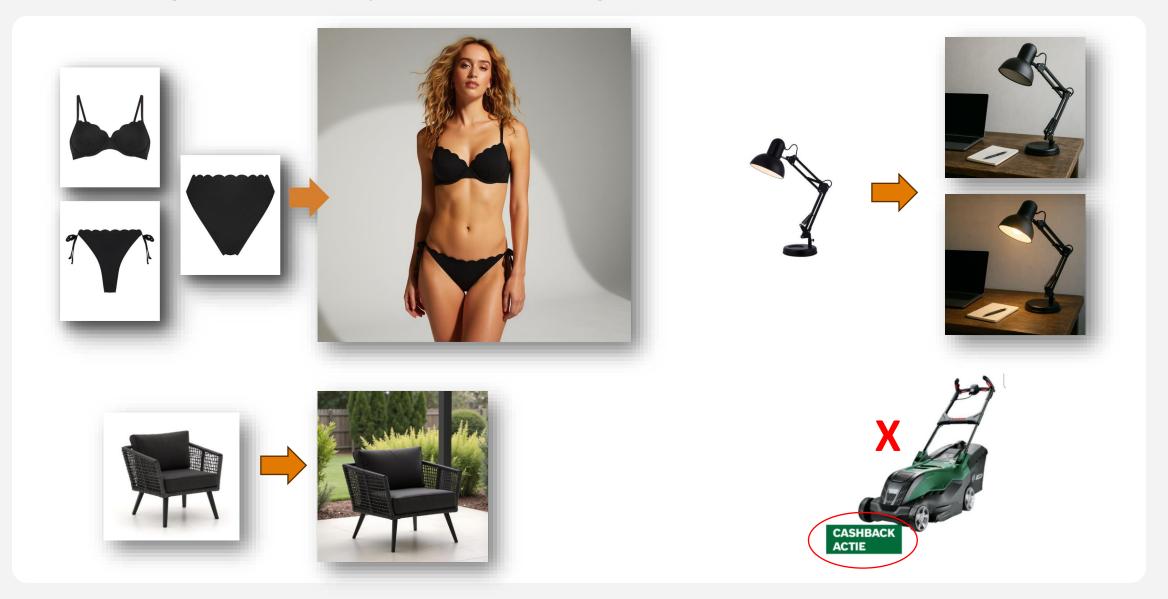
## 4. Al powered vendor onboarding



## 5. Content generation & optimization – Text

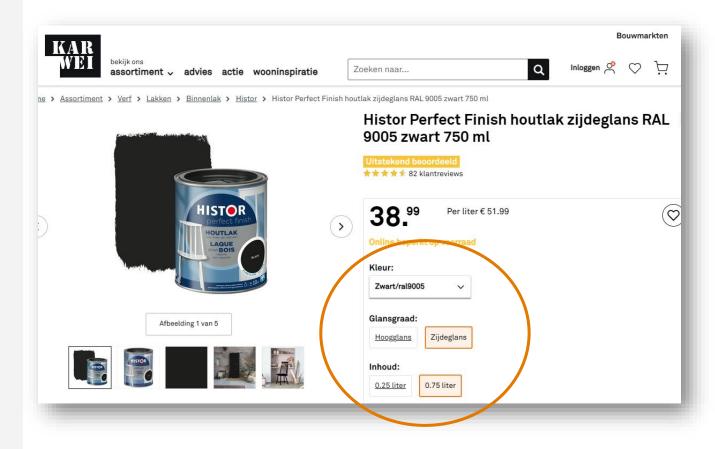


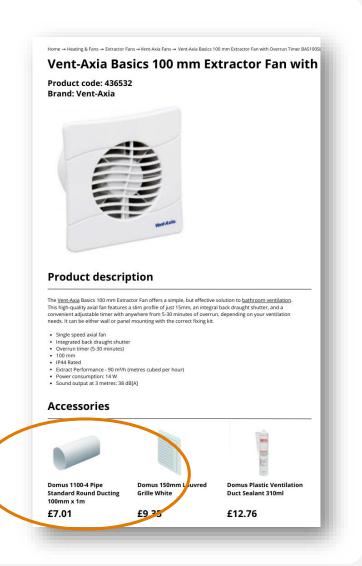
## 5. Content generation & optimization - Images



## 6. Improved product search & discovery – product relations

Al detection of variants of the same product and accessories on the pdp.





## 6. Improved product search & discovery - AI sales support



🔼 I am looking for a pressure washer for cleaning wooden decking. What should I look for and what pressure washers do you recommend?



When looking for a pressure washer to clean wooden decking, you should consider a model that allows you to adjust the pressure to avoid damaging the wood. Look for a pressure washer with a variable pressure setting or one that includes specific attachments for delicate surfaces. A model with a water flow above 500 liters per hour and a pressure above 140 bar can be effective for various cleaning tasks, but for wooden decking, it's crucial to use a lower pressure setting.

Based on the context provided, I recommend the Kärcher K 4 Premium Power Control hogedrukreiniger. This pressure washer is suitable for cleaning various surfaces with the right pressure, and it supports the Kärcher Home & Garden app, which can help you find the optimal pressure setting for your decking. It's a versatile machine that can handle different cleaning tasks around your home

and garden.

Here's a comparison table of the top 3 pressure washers suitable for cleaning wooden decking:

Here's a brief overview of the recommended pressure washer:

- Kärcher K 4 Premium Power Control hogedrukreiniger
  - Pros: Adjustable pressure settings, app support for op
  - Cons: May be more expensive than basic models, mig



	Feature	Kärcher K2 Premium Home Full Control	Kärcher K3 Home	Kärcher K4 Premium Power Control
	Max Pressure	110 bar	120 bar	130 bar
)	Water Flow Rate	360 L/h	380 L/h	420 L/h
1	Power	Not specified	Not specified	1800 W
	Hose Length	6 m	6 m	7 m
	Included Accessories	Home Kit with T-150, Patio/Deck cleaner	Vario Power Spray Lance, Dirt Blaster, T50 Surface Cleaner, Patio & Deck cleaner	Vario Power Spray Lance, Dirt Blaster
	Special Features	Full Control System, Cleaning Agent Tank	Quick Connect, Water Filter	Full Control System, Water-Cooled Motor
	Ideal for	Light soiling, Bicycles, Garden Furniture	Light soiling, Bicycles, Garden Fences, Motorcycles	Various surfaces with the right pressure, including decking
	Image			

Based on the comparison, the Kärcher K4 Premium Power Control offers the highest pressure and water flow rate, which makes it suitable for larger or more soiled areas. It also has a longer hose for greater reach. The K2 Premium Home Full Control is more suited for lighter tasks and comes with a dedicated home kit for various cleaning tasks. The K3 Home sits between the two in terms of performance and is also equipped with a home kit for efficient cleaning.

# PŮWERSUITE.ai

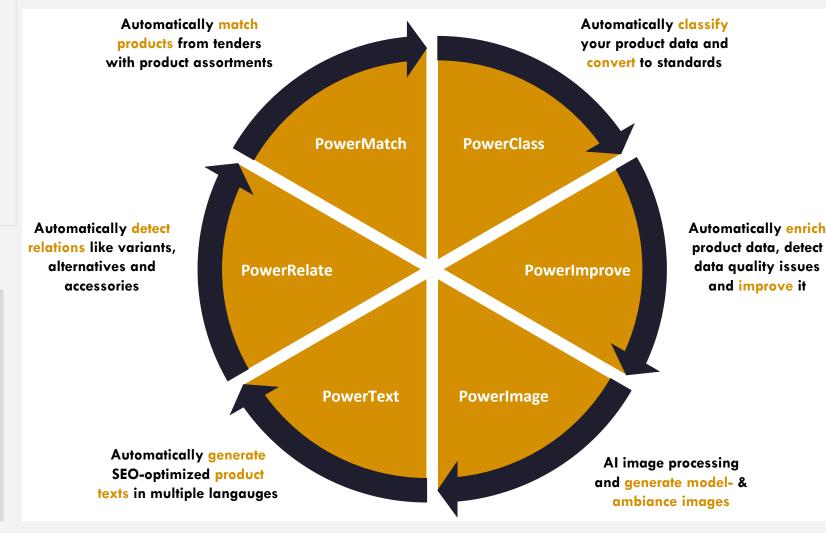
#### How can AI help?

- 1. Automated classification & conversion
- 2. Automated data enrichment
- 3. Enhanced data quality
- 4. Al powered product data onboarding
- 5. Content generation & optimization
- 6. Improved product search & discovery



Copyright © 2025 Squadra. All rights res

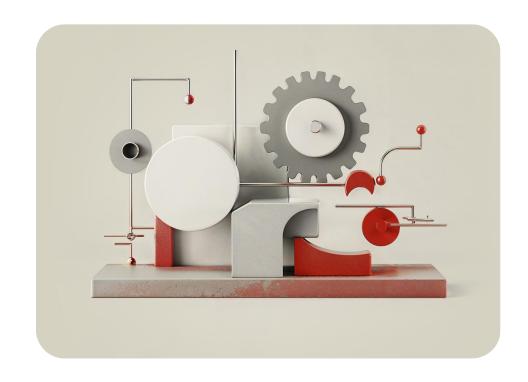
- Scalable
- Fit for composable architecture
- Open API's for PIM/e-commerce integrations
- Supports file processing (Excel, BMEcat, PDF, images, etc)
- Continuous innovation with the latest Al technologies
- LLM Agnostic



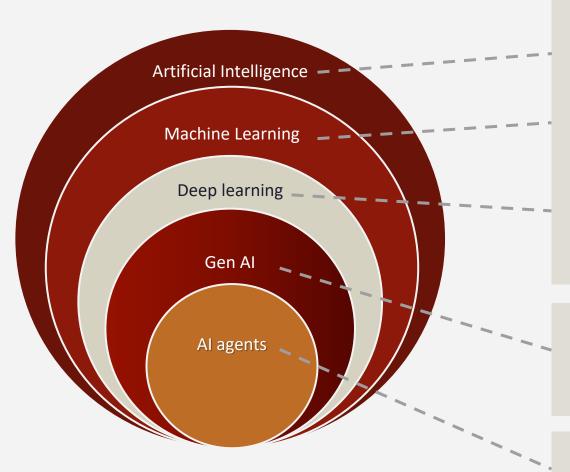
PowerSuite.ai is an Al-powered software suite designed to enhance product data and optimize e-commerce operations.

# Agenda.

- 1. The business context of Product Data
- 2. Al for Smart Product Data Management
- 3. Al Agents for product data automation
- 4. Q&A



# 3 Al Waves.



#### **ARTIFICIAL INTELLIGENCE**

Wave 1

AI (artificial intelligence) is the simulation of human intelligence in machines designed to think, learn and perform tasks autonomously

#### **MACHINE LEARNING**

Machine Learning is a technique that enables systems to learn and improve based on experience without being explicitly programmed

#### **DEEP LEARNING**

Deep learning is a subset of machine learning that uses neural networks to learn from large amounts of data

#### **GENERATIVE AI**

Wave 2

Generative AI is a form of artificial intelligence that creates new content, such as text, images or music, by learning patterns from existing data

**AI AGENTS** Wave 3

All agents enable All systems to work autonomously and collaborate with other agents to solve complex problems.

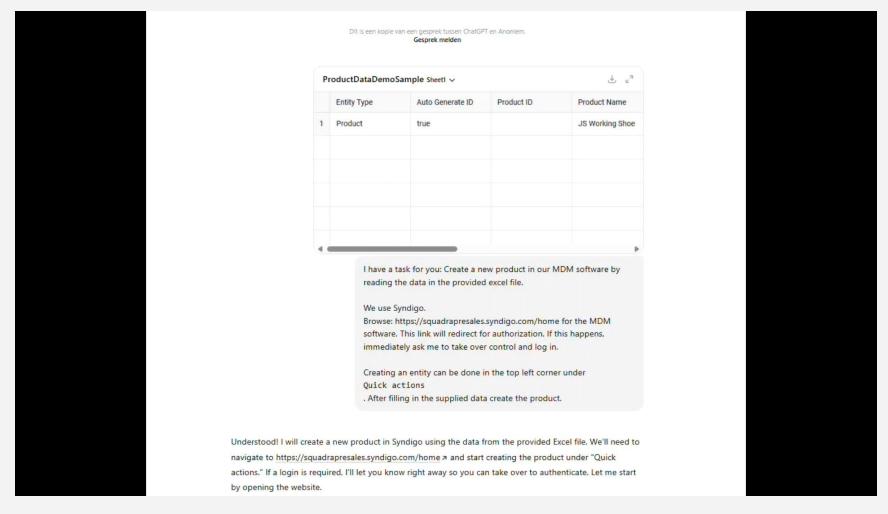


# Example: create a list of products in PIM

#### Task:

Process this list of products from Supplier X and add these into my PIM system.

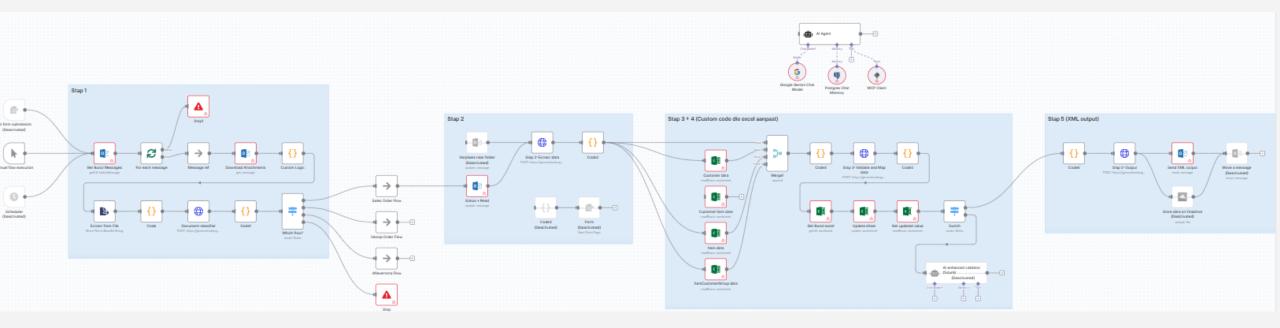
#### Link





# Build a workflow with AI agents -> Huge opportunity!

- 1. Agent 1: Check the email inbox for mails from suppliers with new/update product info
- 2. Agent 2: Extract the data from the attachment (Excel, PDF, etc.) with PowerImprove.ai agent
- 3. Agent 3: Login to the PIM system, find the supplier / product and update or create the product in the PIM





# Agenda.

- 1. The business context of Product Data
- 2. Al for Smart Product Data Management
- 3. Al Agents for product data automation
- 4. Q&A



