



Using AI to Accelerate Product Development

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A decorative graphic consisting of several overlapping circles in shades of pink, yellow, orange, and blue, with a thin purple arc passing through them, located in the bottom right corner of the slide.

Where remarkable products begin

The Manufacturing Industry's Digital Dilemma

- The manufacturing industry is innovating faster than ever, but outdated tools create bottlenecks in R&D, compliance, and supply chain collaboration.
- Competitor PLM solutions often act as static data repositories—failing to drive real-time collaboration, AI-driven insights, and agile product development.
- **Our Vision:** A next-generation business platform that turns PLM from a passive system into an active driver of product innovation.

“The greatest danger in times of turbulence is not the turbulence — it is to act with yesterday’s logic.”

PETER DRUCKER, MANAGEMENT CONSULTANT

The Smart PLM Revolution: Beyond Traditional Product Development



From data management to decision intelligence – why the future of PLM isn't just about storing information but unlocking smarter, faster product decisions.



AI-driven compliance – real-time regulatory tracking, automated risk assessments, and chatbot-guided compliance checks.



Seamless supplier collaboration – how ingredient and packaging suppliers integrate directly into the development process to speed up sourcing and formulation.



Retailer & Private Label Enablement – bridging manufacturers and retailers with a shared digital workspace for private label innovation.

**“The only way to discover
the limits of the possible
is to go beyond them into
the impossible.”**






SIR ARTHUR C. CLARKE, FICTION WRITER

Our customers tell us ...

"40% of Trace One Customer Advisory Board members think that AI-powered ingredient onboarding will save 30% or more of the time spent on a weekly basis to collect, enter and validate ingredient data using Devex PLM AI features"

Key Impacts of AI in PLM: Trace One Use Cases



 AUTOMATION		Automated Design of Experiments	Test results analysis	Automatic translation of labels	Raw materials onboarding, Data extraction from product, site and company certificates
 DISCOVERY	Identify market trends	Regulation Inquiries	Tap into formula / trial databases		Product data searches, impact assessment (where-used to product working list of products impacted by changes)
 COMPARISON	Comparison against competitors' products	Compare project brief against product design	Compare formula against regulations	Label vs. Specification comparison	Raw materials onboarding
 MAPPING	Map market trends and ingredients / formula database	Automated Product Positioning on target regulations		PLM <> ERP integration, PIM integration (GS1)	Initial raw materials and products data load
 DECISION MAKING	Idea scoring and selection	Ingredients & Packaging suggestions	Trials scoring and selection		Margin optimization

Raw Materials Onboarding: Automatic extraction of TDS data

Upload PDF with Technical Data Sheet

Send data to Ingredient Specification

Drag and drop or click on plus to download new document (one document at a time)

Product Specification

Granulated Sugar

Alternative names: TL gran

Product Description

Free flowing white crystalline crystals which taste of pure sweetness without any foreign odours or taints.

Ingredient Declaration: white sugar

Botanical Source of sugar: sugar cane

Chemical and Physical Characteristics

Sucrose	99.9% Min.
Invert	0.04% max.
Ash	0.015% max.
Loss on drying	0.06% max.
Colour	35 IU max.
Size	Retained on 1mm sieve 9.0% max.
	Through 0.25mm sieve 7.5% max.
CV	35% max.
Target MA	0.53-0.67mm.

Microbiological Characteristics

Mesophilic bacteria/g	20 cfu max.
Yeasts/g	1 cfu max.
Moulds/g	1 cfu max.
Salmonellae	Not detected in 25g.
E. Coli	Not detected in 1g.
Staph Aureus	Not detected in 1g.

Food Safety

Sulphur dioxide (SO2)	1 mg/kg max.
Lead	0.1 mg/kg max.
Arsenic	0.1 mg/kg max.
Copper	1 mg/kg max.

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Packaging

The product is available in bulk tanker, FIBC, 25kg paper sacks.

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Data is automatically extracted and mapped onto ingredient specification

Accuracy – precise and consistent extraction



Increased efficiency – reduces time and effort required for data entry



Scalability – adaptable to various document types and formats

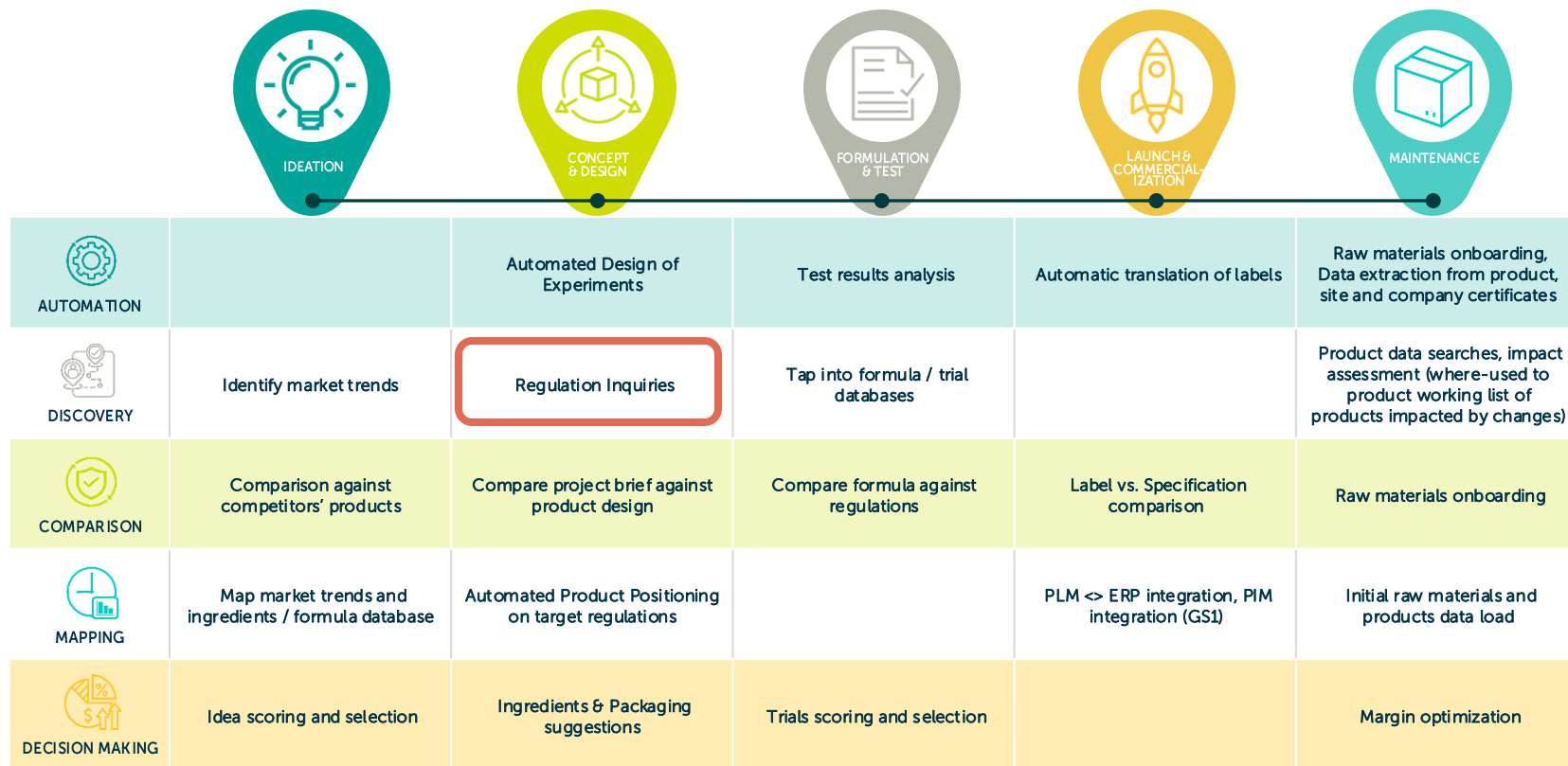


Cost Savings - less time spent on collecting, entering and validating ingredient data



Compare data against source document

Key Impacts of AI in PLM: Trace One Use Cases



Regulation Inquiries using Trace One Copilot



Improved user experience - users are not required to navigate complex regulatory databases



Increased efficiency - users can easily get a summary of a complex regulations



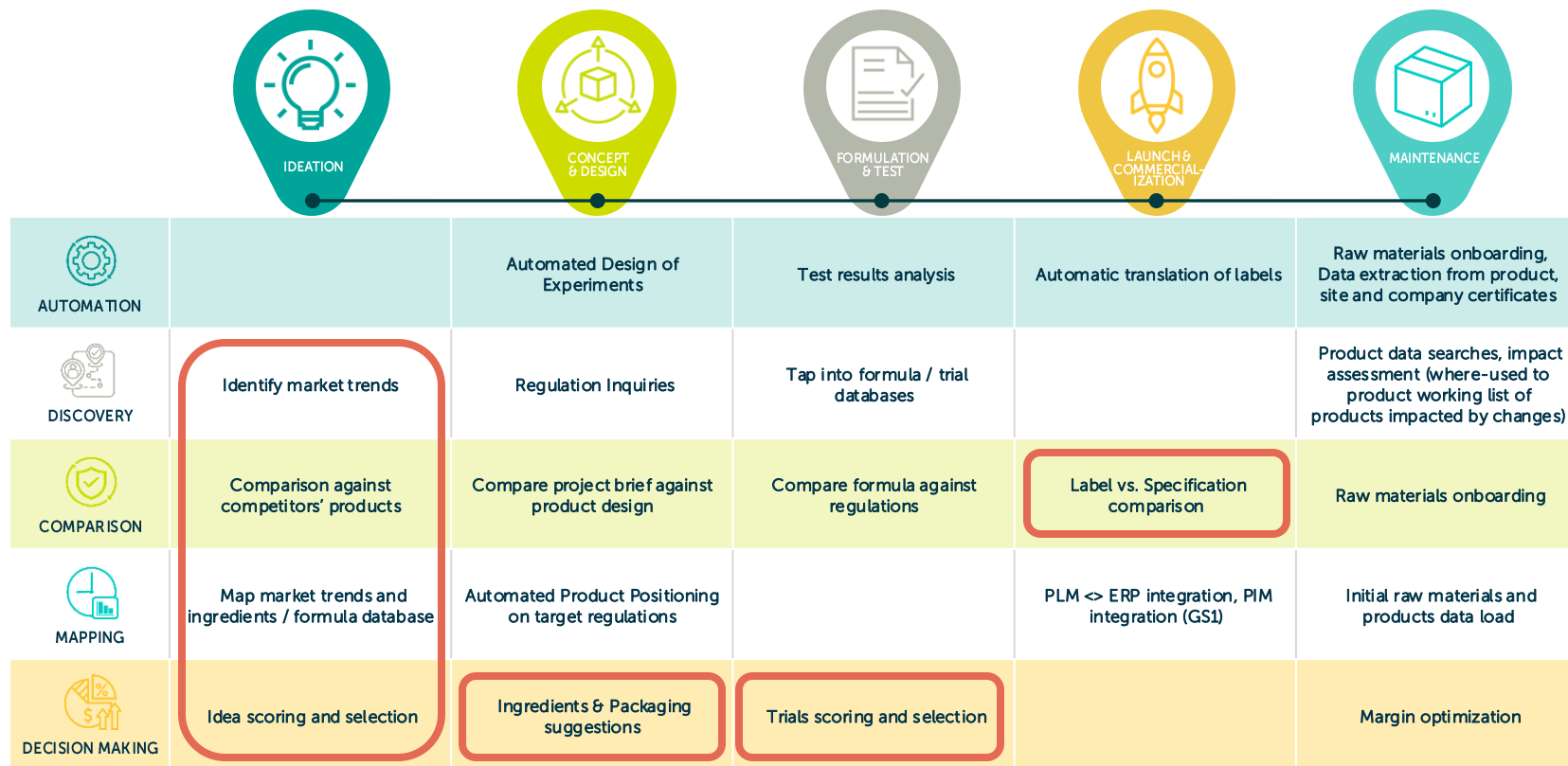
Simplified adoption - reduced learning curve & training for new users



Maximized ROI - less time spent on manual regulatory analysis, faster go to market

The screenshot displays the Trace One Copilot interface. On the left, a sidebar contains filter options: Countries (Canada), Industries (Food), Keywords (Baby food), Published on, Expires into force, Valid until, Tags, Notes, Organizations, Sites, and Relation Types. A red box highlights the 'Filters' section, with a callout stating: 'Identified filters are also mapped on the left side panel'. The main chat area shows an AI assistant's response to the query 'I want the limits for Canada'. The assistant provides a summary of regulatory limits and guidelines for baby food in Canada, including chemical contaminants (Lead, Mercury) and labelling requirements (Nutrition Labelling, Sodium Restrictions). A red box highlights the 'Canada Food Legislation' link at the bottom of the response, with a callout stating: 'Link to source documents'. Another red box highlights the feedback icons (thumbs up, thumbs down, and a document icon) at the bottom right, with a callout stating: 'Feedback from user will be collected to improve quality of responses'. The interface also includes a search bar at the top, a 'Show filters notification in the chat' toggle, and buttons for 'Start New Chat' and 'Pop-up version'.

Key Impacts of AI in PLM: Trace One Use Cases



Up Next: AI Agents



“By 2028, Gartner predicts that 33% of enterprise software applications will include agentic AI, up from less than 1% in 2024, with at least 15% of day-to-day work decisions being made autonomously through AI agents.”

SOURCE: GARTNER.COM

Advantages of AI Agents

- **Flexible and Adaptable**

Dynamically adapt to various workflows and configurations, reducing the need for manual programming

- **Reduced Development Overhead**

Interpret and act on customer-specific configurations, streamlining deployment

- **Overcome Bespoke Code Limitations**

Interpret and apply business rules expressed in natural language or semi-structured data, providing faster adjustments.

- **Customer Empowerment**

Customers can directly define or modify rules for the agent to interpret and apply, without requiring custom code updates.

- **Handle Unstructured and Semi-Structured Data**

Process and make sense of diverse customer inputs using context to fill gaps or suggest improvements.

Future-ready PLM: How will product innovation evolve?



Predictive Product Development



Automated Product Change Management



Sustainability & ESG Reporting



A Truly Connected Ecosystem

**“The best way to predict
the future is to create it.”**

ALAN KAY, COMPUTER SCIENTIST

Q&A

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