Using AI to Accelerate Product Development

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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- The manufacturing industry is innovating faster than ever, but outdated tools create bottlenecks in R&D, compliance, and supply chain collaboration.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

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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

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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"

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Key Impacts of AI in PLM: Trace One Use Cases

	IDEATION	CONCEPT & DESIGN	FORMULATION & TEST	LAUNCH & COMMERCIAL-IZATION	MAINTENANCE
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

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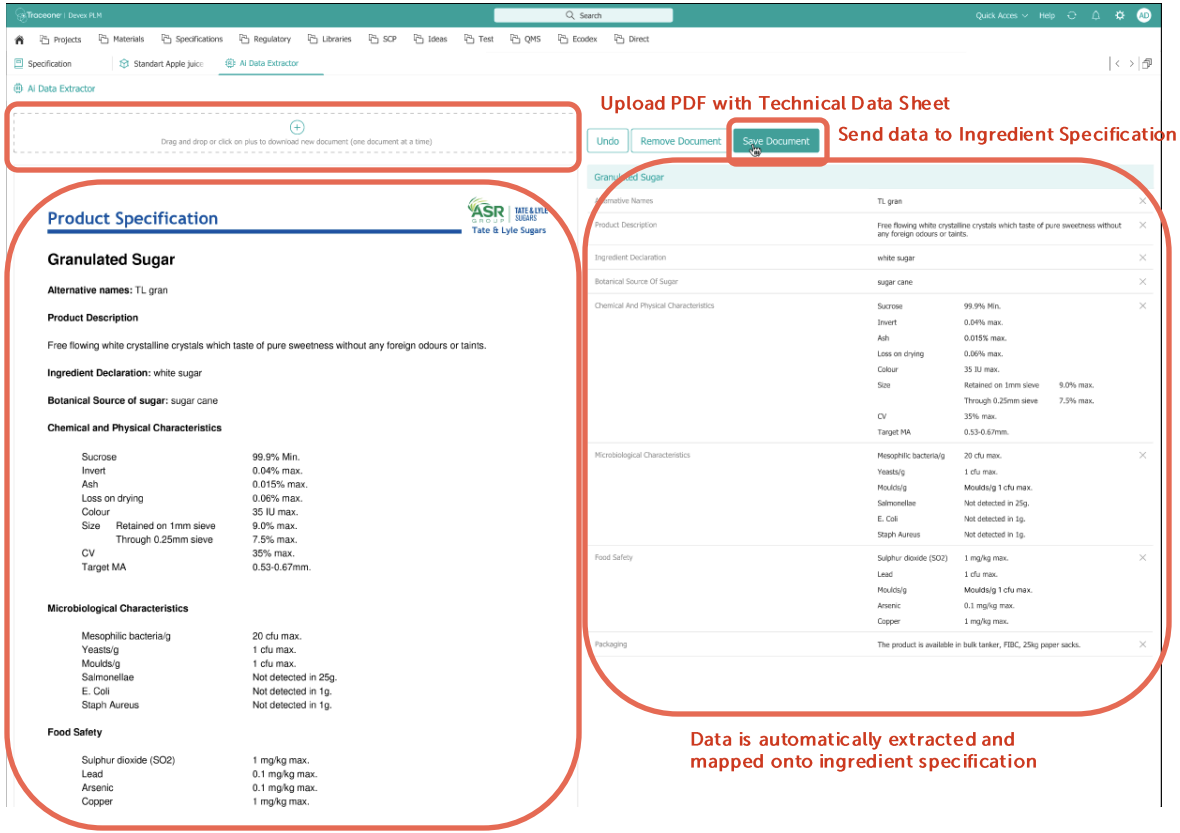
Raw Materials Onboarding: Automatic extraction of TDS data



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

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Sandbox

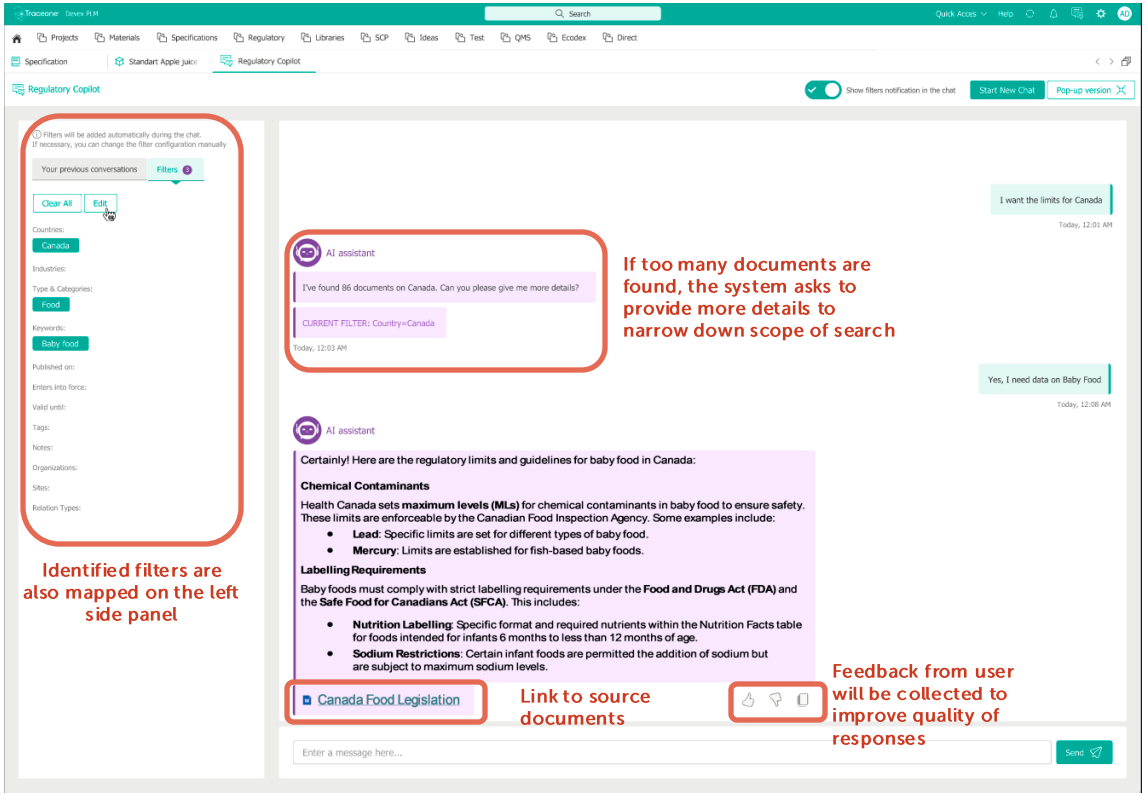
Regulation Inquiries using Trace One Copilot

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



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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

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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.

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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

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Q&A

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