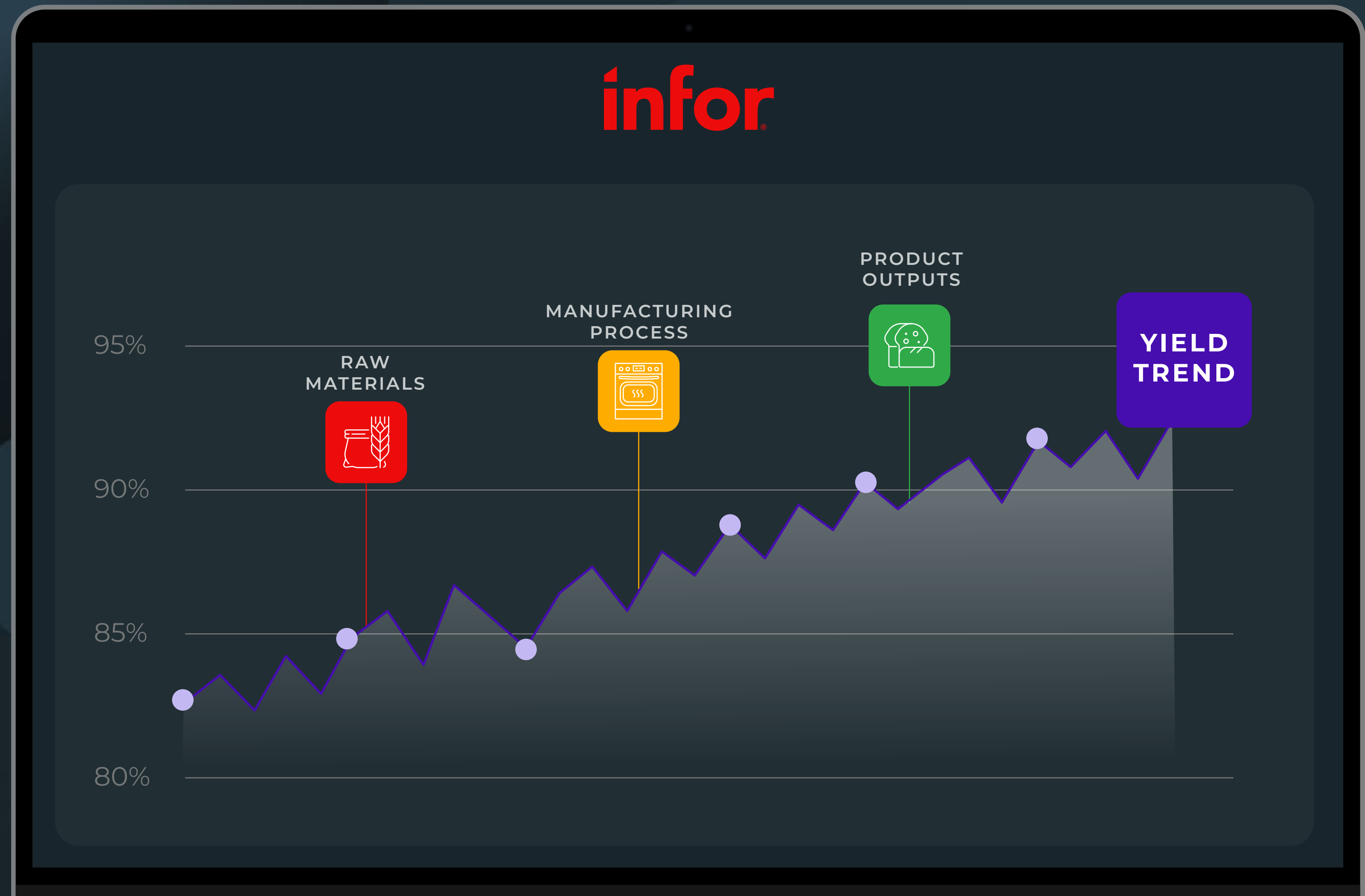


The food and beverage manufacturer's guide to AI-driven yield optimization

The most powerful lever for improving profitability, ensuring quality, and reducing waste



About this guide

Food and beverage manufacturers face a common challenge: natural variability in raw materials, combined with the complexity of modern production processes, makes consistent yield difficult to achieve and costly to miss.

This playbook examines yield optimization across several sub-industries, including food ingredients, beverages, meat, poultry, and fish, bakery and confectionery, pet food and animal feed, and dairy. It shows how artificial intelligence (AI), machine learning, and automation are helping manufacturers turn variability from a liability into a managed, measurable input.

Each section covers the unique yield dynamics of that sub-industry and the outcomes achievable when the right data, process controls, and AI capabilities are in place.

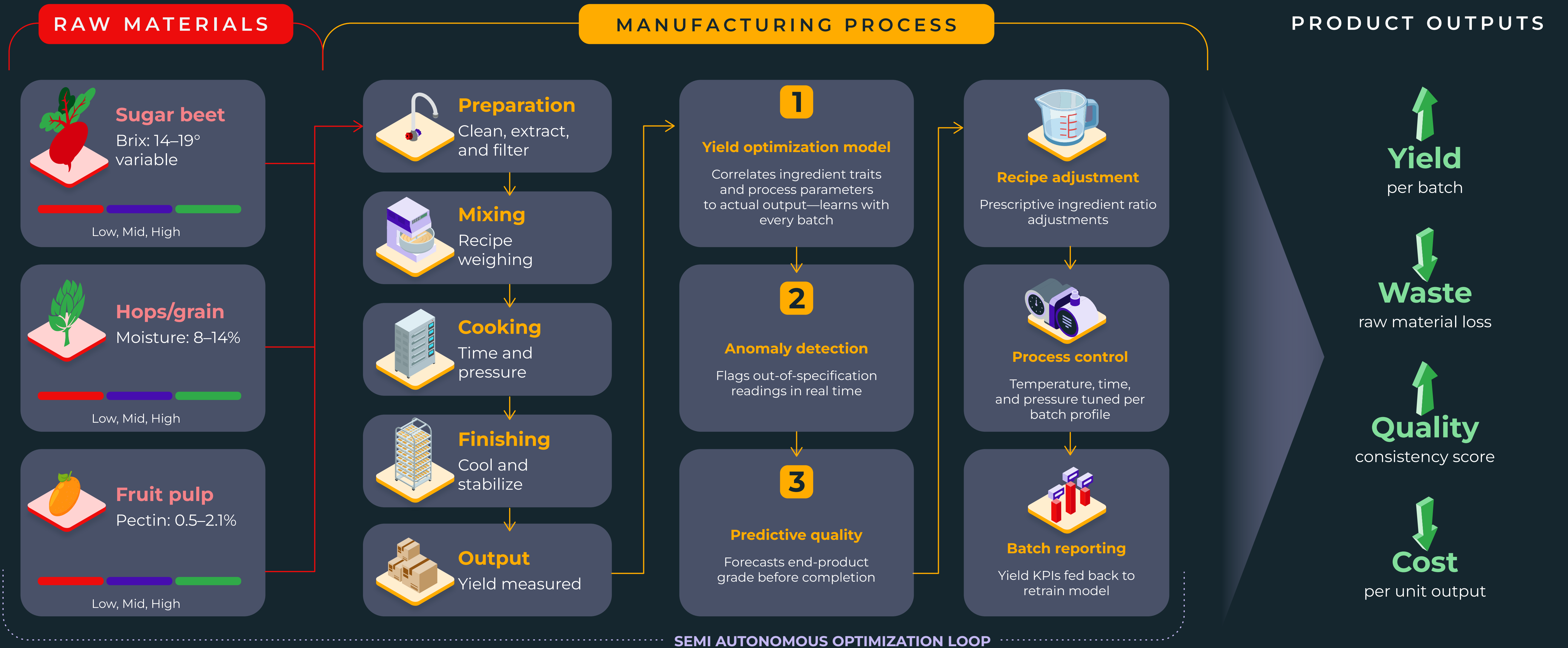
Taken together, they tell a bigger story: the emergence of the agentic enterprise. Where industry-specific AI, connected data, and intelligent automation don't just flag problems, but anticipate them, adapt in real time, and improve with every run. Manufacturing that learns. Operations that act.

Infor™'s industry-built solutions, delivered through the Infor Velocity Suite, are designed to take manufacturers there. Yield is where the journey becomes visible. The agentic enterprise is where it leads.

Table of contents

Food ingredients	1
Beverages	2
Meat, poultry, and fish	3
Bakery and confectionery	4
Pet food and animal feed	5
Dairy	6

Yield optimization for food ingredients

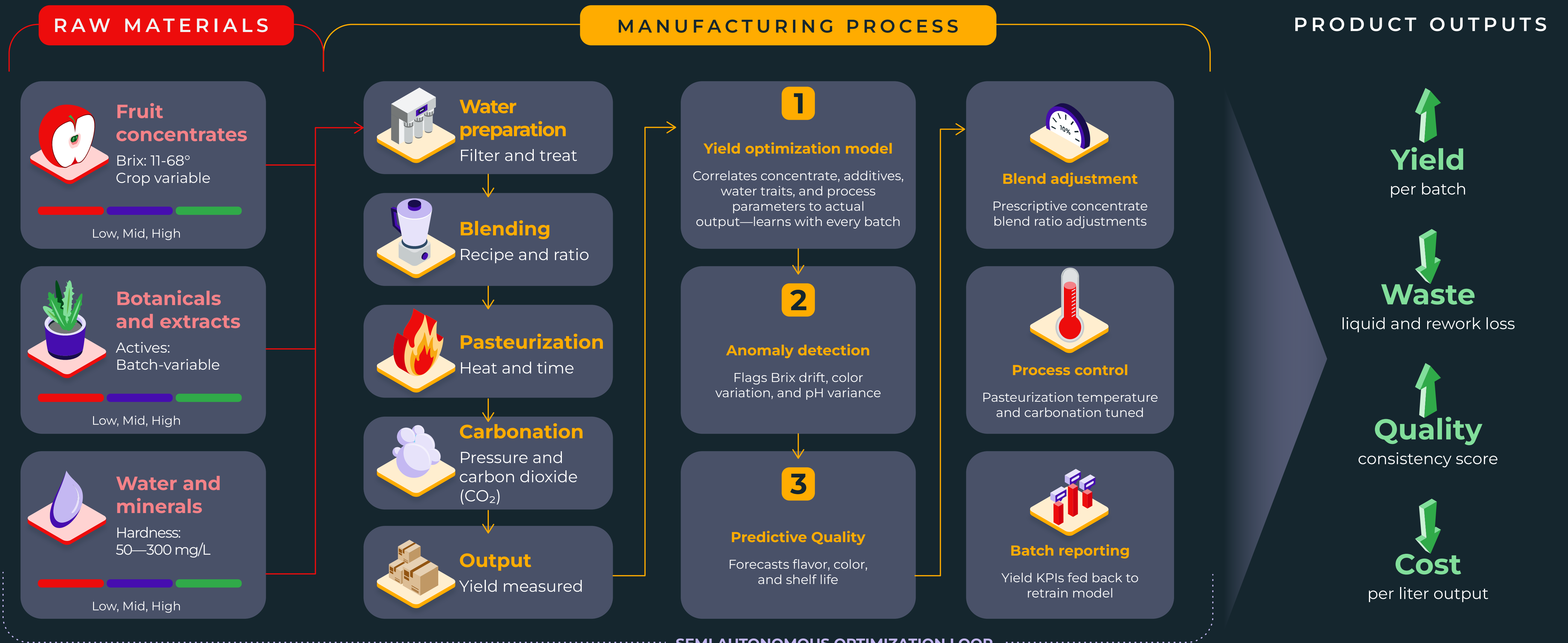


Natural variability in every batch: Composition shifts with season, supplier, and storage

Data capture: Infor ERP, Infor MES, smart sensors, Internet of Things (IoT) devices, laboratory systems, and operator inputs captured at every step

The agentic enterprise: Industry-specific AI solutions, technology, and expertise delivered through Infor Velocity Suite

Yield optimization for beverages

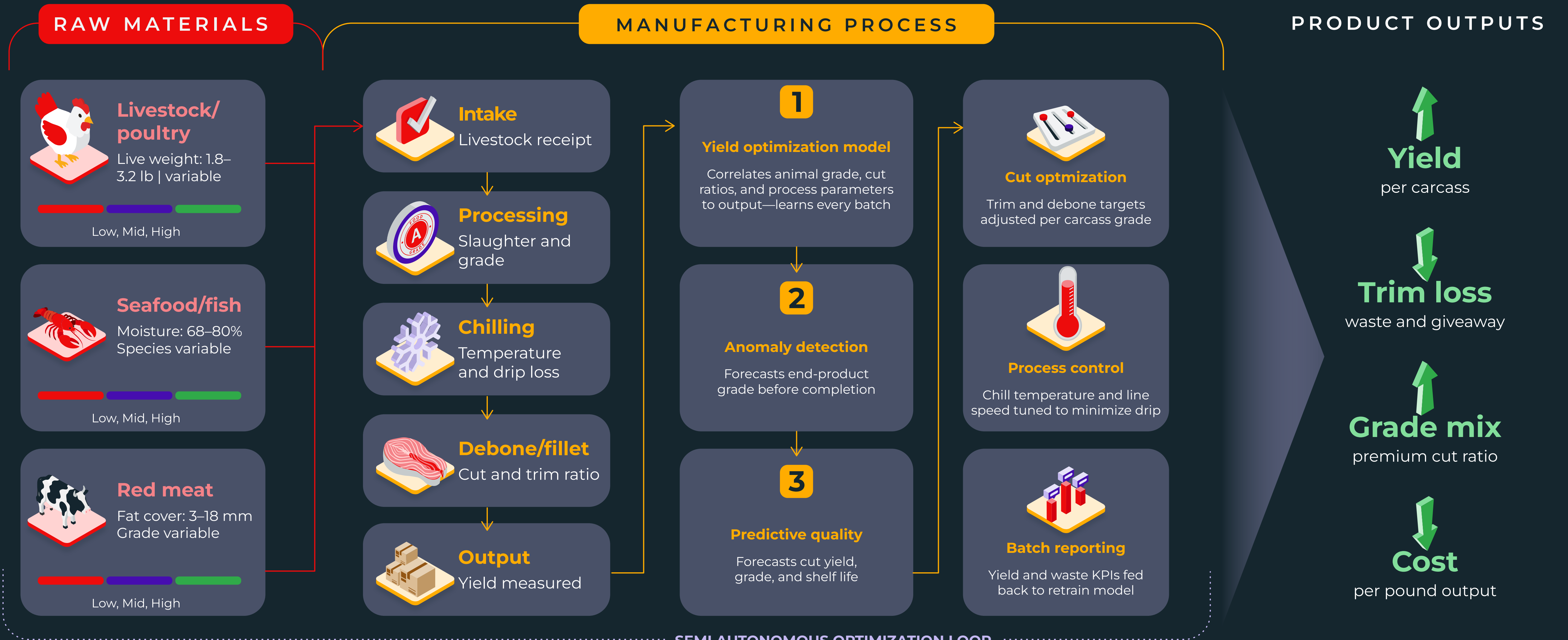


Brix, acidity, color, and active compound levels vary by crop, source, and season

Data capture: Infor ERP, Infor MES, smart sensors, Internet of Things (IoT) devices, laboratory systems, and operator inputs captured at every step

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Yield optimization for meat, poultry, and fish

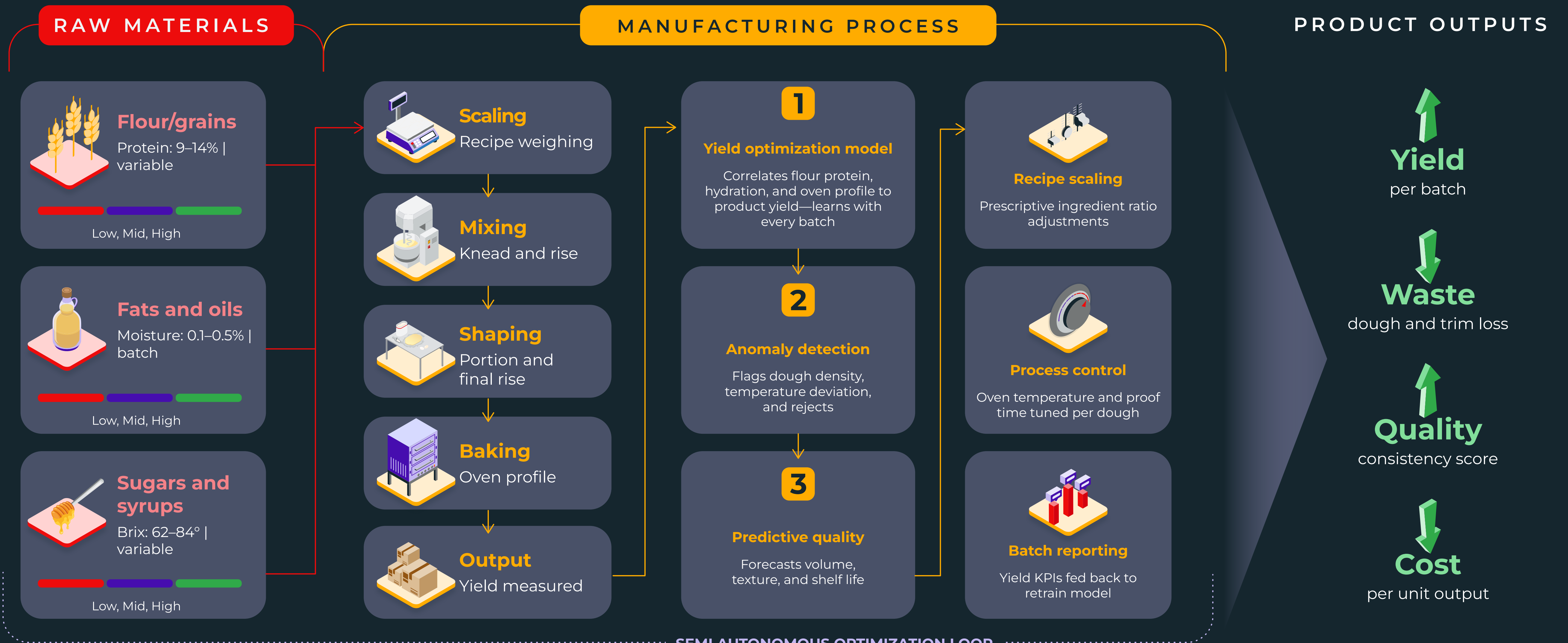


Yield varies by animal age, breed, feed regime, chilling rate, season, and handling

Data capture: Infor ERP, Infor MES, smart sensors, Internet of Things (IoT) devices, laboratory systems, and operator inputs captured at every step

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Yield optimization for bakery and confectionery

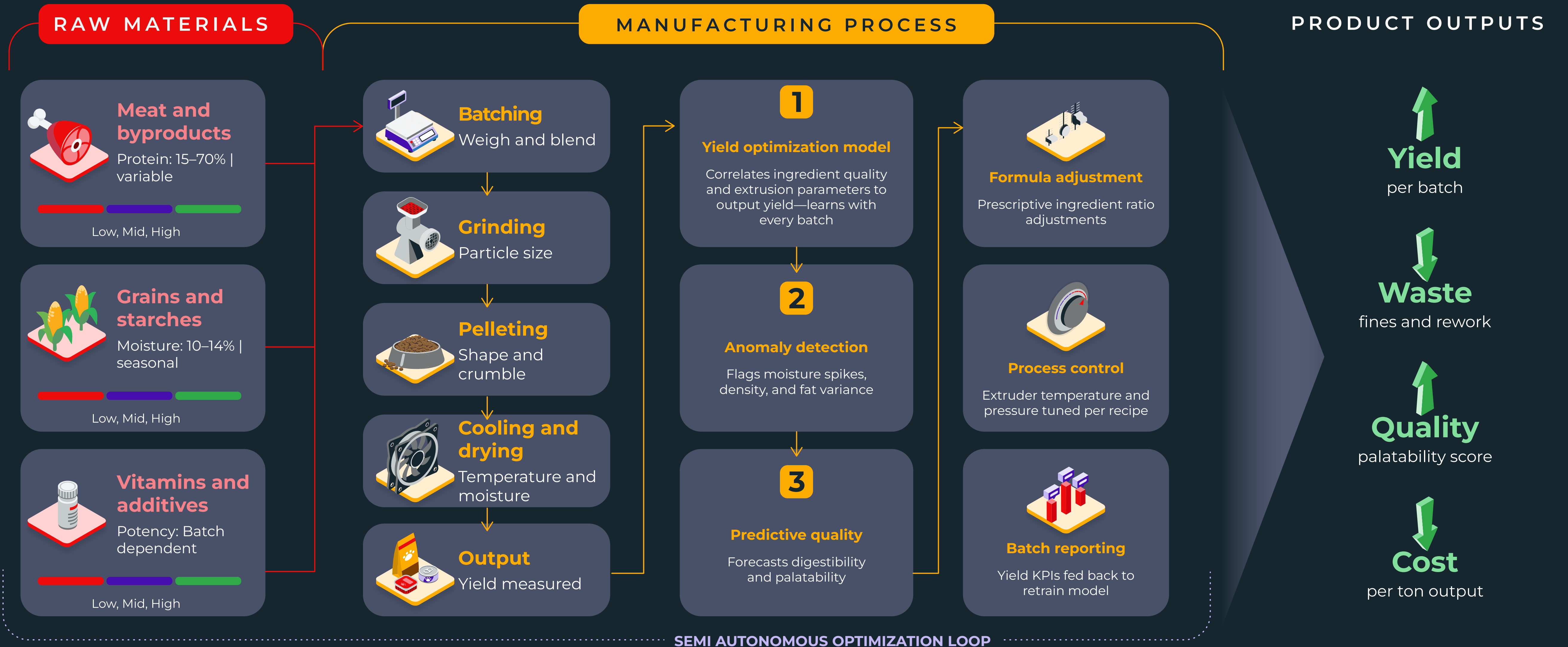


Protein content, hydration absorption and fat quality vary by crop, supplier, and season

Data capture: Infor ERP, Infor MES, smart sensors, Internet of Things (IoT) devices, laboratory systems, and operator inputs captured at every step

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Yield optimization for pet food and animal feed

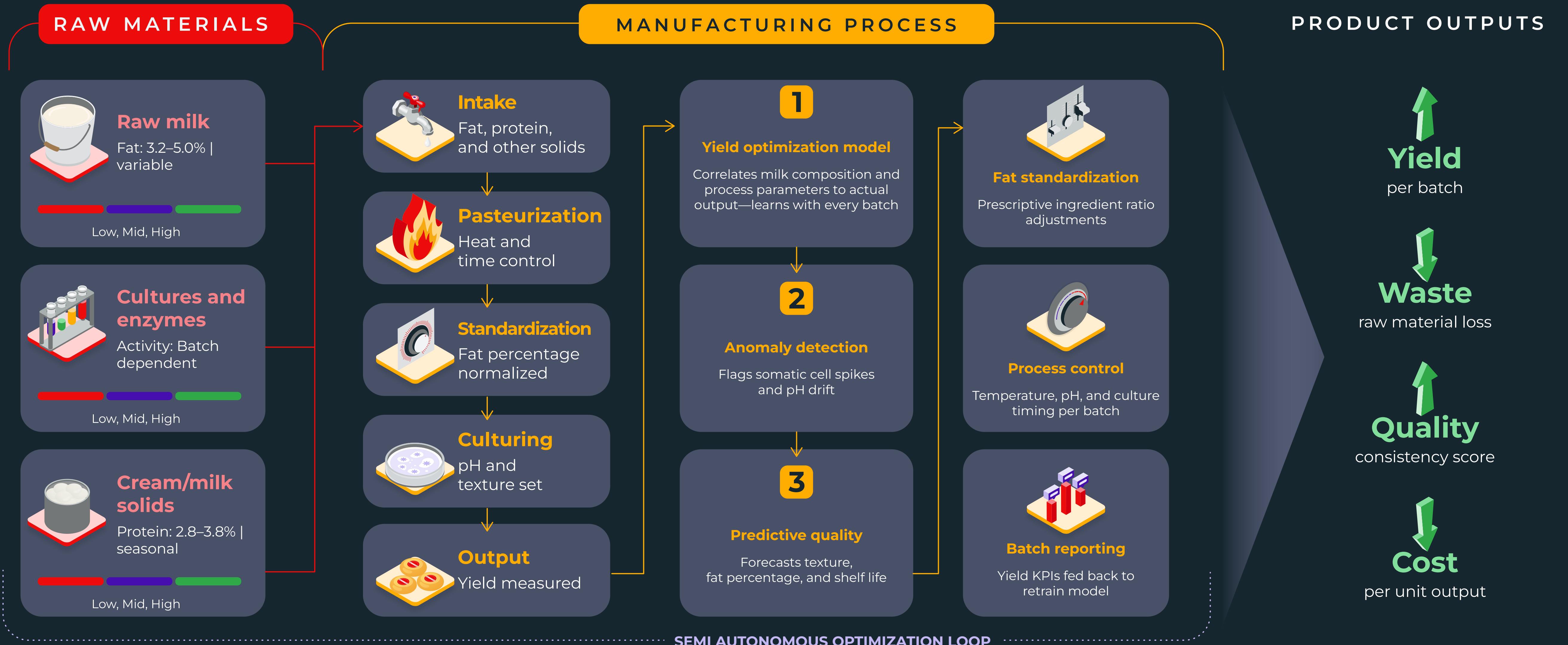


Protein digestibility, fat levels, and moisture vary by raw materials source and supplier batch

Data capture: Infor ERP, Infor MES, smart sensors, Internet of Things (IoT) devices, laboratory systems, and operator inputs captured at every step

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Yield optimization for dairy



Fat, protein, and somatic cell counts vary by herd, season, feed, and animal health

Data capture: Infor ERP, Infor MES, smart sensors, Internet of Things (IoT) devices, laboratory systems, and operator inputs captured at every step

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Ready to close the yield gap?

Every batch is an opportunity. To produce more, waste less, and build the consistency your customers expect. The manufacturers pulling ahead aren't waiting for perfect conditions. They're acting on their data now.

See what Infor CloudSuite Food & Beverage can do for your operation.



About Infor

Infor is a global leader in business cloud software products for companies in industry-specific markets. Infor builds complete industry suites in the cloud and efficiently deploys technology that puts the user experience first, leverages data science, and integrates easily into existing systems. Over 60,000 organizations worldwide rely on Infor to help overcome market disruptions and achieve business-wide digital transformation.

See the agentic enterprise in action

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