

Gunther Walden, Head of Market Development Board Food & Beverage

Siemens Solutions for the Food & Beverage Industry

Investors and Analysts Site Tour | September 29, 2015



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Due to rounding, numbers presented throughout this and other documents may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.

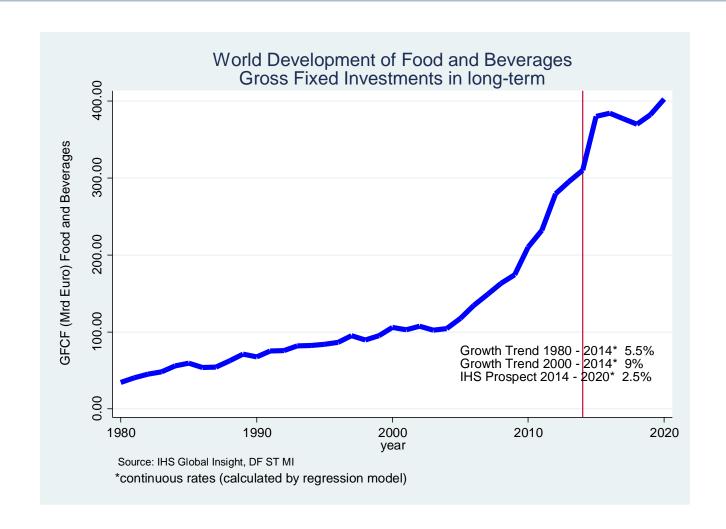


Customer centricity in dedicated markets on a global scale





Stable growth maintained in F&B industry investments







Key Drivers in the Food and Beverage Industry

Productivity

- Reduce Total Cost of Ownership
- Increase Overall Equipment Efficiency

Brand image

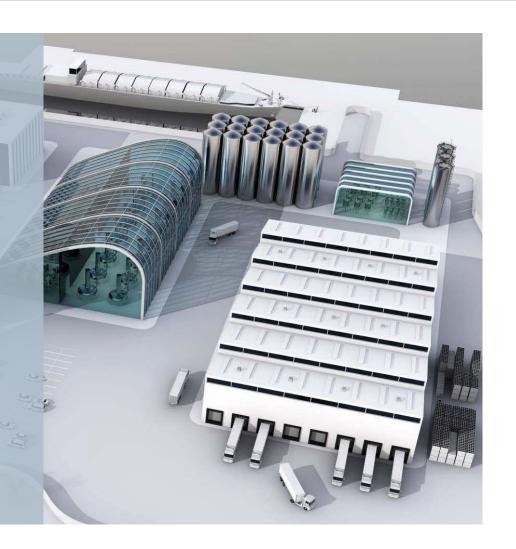
- Process safety
- Tracking & tracing

Flexibility

- Greater variety of products
- Faster time-to-market
- Shelf availability

Sustainability

- Energy consumption
- Water consumption
- CO₂ footprint





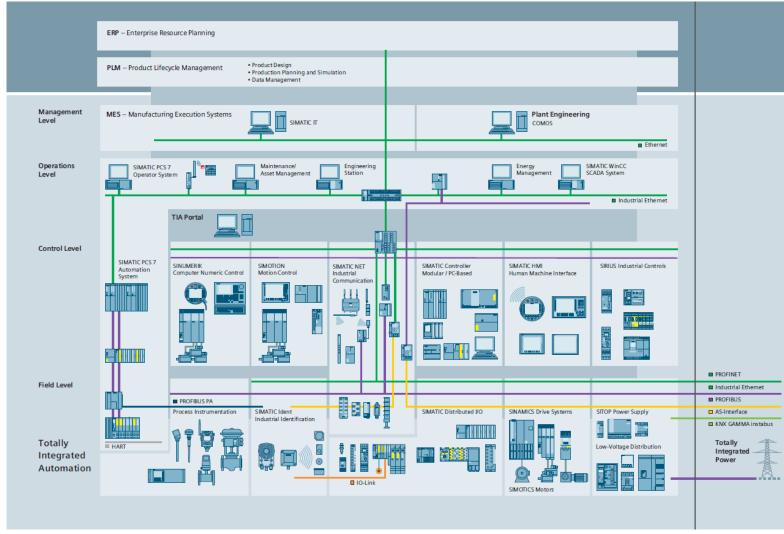


Siemens has a portfolio to create unique customer value in the Food & Beverage Industry





Efficient interoperability of all automation components lower costs, faster time to market, greater flexibility



SIEMENS

Value-added Solutions for specific Food and Beverage Segments



Edible Oils

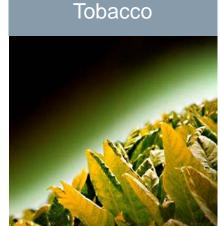




Dairy & Juice





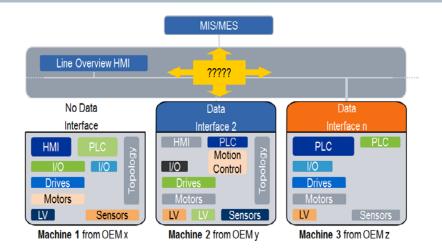


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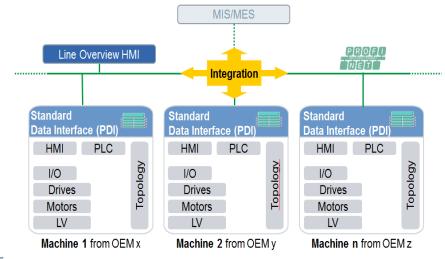
Creating productivity and faster time-to-market with standardized concepts

Without standardization



Diversity
Complexity
Difficult
System-integration
Difficult Diagnostics
Asset Costs

The benefit of standardization & integration



Module Line integration

- Line Overview
- Diagnostics
- Providing Production Data
- Networks

Module Software Toolbox

- Data Interface
- Application

Module Machine Architecture

- Hardware & Software
- Machine Topology



Using Plant Simulation, Paulaner was able to get a grasp on a number of key issues

Use Case – Plant Simulation: Paulaner

PAULA NER SELBINET

Initial situation

Paulaner

- German brewery with headquarters in Munich
- Exports more than 2 million hectoliters in over 70 countries
- New plant in Munich under construction

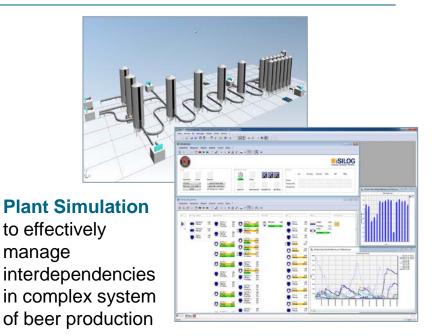
Challenges

- Right dimensions of components
- Invest in right equipment
- Develop feasible and robust production plans

Value Proposition

- Secure product quality with stable and harmonized production flow
- Compare alternative maintenance strategies
- Identify and fix bottlenecks

Improved through plant simulation



→ Paulaner considers Plant Simulation to be an essential planning tool for its current and future success



Sitrans LR250 HEA ful"fills" all expectations in SABMiller comparison test

Use Case - Process Instrumentation - SABMiller Chamdor in South Africa

Initial situation





SABMiller

- Operating in more than 80 countries
- More than 200 local beers and nurtured a range of special regional and global brands
- Chamdor is one of SAB's mediumsized breweries with 2,2 million hectoliters

Challenges

- Provide a hygienic, reliable and low-cost system
- Provide an accurate measurement of the tank fill levels through layers of foam

Value Proposition

- Little to no maintenance needed
- Easy Access to the electronics
- Minimizes losses of time or product with synchronizing the tank emptying with the bottle feed to the filling machine



SITRANS LR250

 With a range of industry-standard process connections, SITRANS LR250 is suitable for a broad variety of hygienic applications.



KTIS – Allied Tek Integrated Drive System for biggest sugar plant of the world

Use Case – SINAMICS – KTIS Thailand Allied Tek

Initial situation



KTIS

- Third biggest sugar producer in Thailand
- · 3 sugar factories in Thailand
- This factory is the biggest sugar plant in the world



 Thailand's largest Original Equipment Manufacturer (OEM)

Challenges

- Increase Capacity
- Reduce energy demand
- Reduce Mill shutdown time

Value Proposition

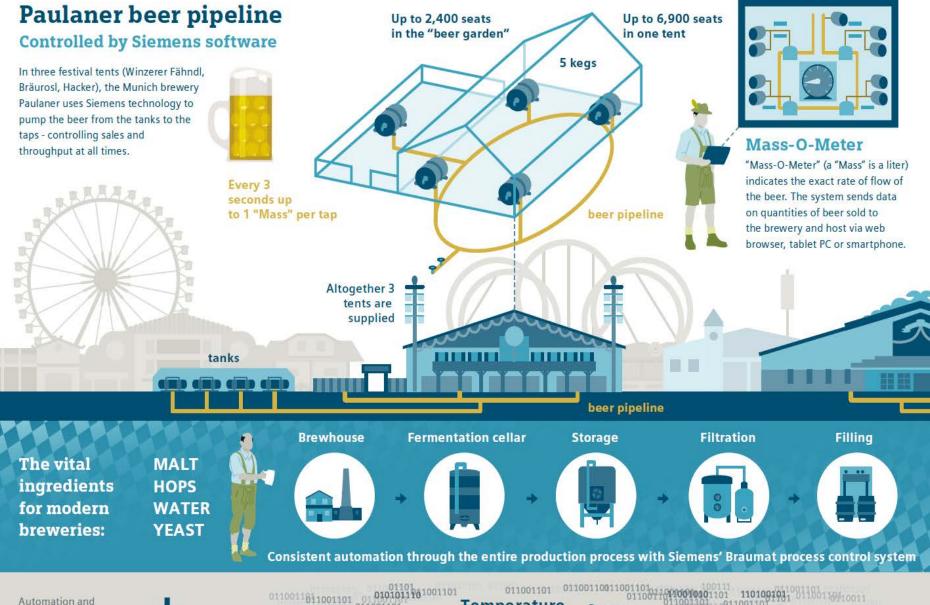
- Reduction in power consumption by 40%
- Diagnostic information to minimize downtime
- Reduced Maintenance

Integrated Drive Systems



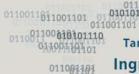
Consisting of:

- 2 Set of Sinamics S150 Drive unit
- Compact Motor 1 MW & 2 MW
- Siemens Flender Gear Box



Automation and digitalization make production more efficient, flexible and reliable and help to avoid or eliminate production errors.





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Temperature

Tank Farm Management Energy Management Identification

Control Center

Ingredients Condition Monitoring Level and Flow **Route Control System**

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