



PLM/CM/SE at Tetra Pak

A few experiences

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 **Tetra Pak**[®]
PROTECTS WHAT'S GOOD



A few experiences from PLM, CM, SE

- ▶ Tetra Pak is not just a product supplier, but a supplier of integrated systems, including production lines and plant automation
- ▶ CM relies on product architecture
 - The stronger the architecture, the less time CM needs to talk to stakeholders and estimate change impact
- ▶ Model-based systems engineering
 - While BOM lists focus on product structure, SysML can define both structural, behavioural and temporal dependencies. This gives very strong impact analysis.
 - Control variants through Product line engineering.
 - By defining variation points (VP) and rules already in architecture, product variants can be understood already during product planning and pre-sales. With a PLM suite, it also enforces the BOM structure, allowing only valid configurations.



A tip

- ▶ Software Center is a collaboration between industrial companies and academia. Participating companies can run projects supported by applied research.
 - [Software Center \(software-center.se\)](https://software-center.se)
 - [Research themes – Software Center \(software-center.se\)](https://software-center.se)

General info about Tetra Pak





Protects What's Good



FOOD



PEOPLE



PLANET



The challenge ahead: how to feed a growing population, sustainably?

2050

Global population
will reach 9.1 billion

70%

more food must
be made available

1/3

of all food
produced globally
is lost or wasted

26%

of global greenhouse
gas emissions caused
by food systems

Sources:

<http://www.fao.org/climate-change/our-work/areas-of-work/food-loss-and-waste/en/>

<http://www.fao.org/news/story/en/item/35571/icode/>

<https://ourworldindata.org/food-ghg-emissions>

More than 100 years of customer service

1878 | The continuous milk separator developed by Gustaf de Laval

1952 | The first Tetra Pak machine delivered in Lund, Sweden

1961 | Sidel manufactures its first blow-molding machines for plastic bottles



Tetra Pak

Food processing and packaging systems



Tetra Pak

We commit to making food safe and available everywhere

- President and CEO: Adolfo Orive
- Employees: 24,391
- Net sales: Million € 12,755

- Packages sold: 190 billion / year
- Packaging machines: >8,700
- Processing machines: >81,000
- Production plants: 51



Fields of operation

Tetra Pak in more than 160 countries

- Processing Solutions
- Packaging Solutions
- Services





Processing.

Solutions and equipment for dairy, plant-based, cheese, powder, ice cream, beverages and prepared food



Services.

Helps you improve your performance, optimise costs and ensure food safety throughout the lifecycle of your operations



Packaging.

A complete carton packaging range for consuming food products offering convenience, easy opening, optimal shelf life and the ability to give maximum brand exposure

