



# Digital capacity simulator sets the stage for production optimization

## COMPANY

Tetra Pak



## SOLUTION

CELEMI Custom Solution

Tetra Pak Packing Solutions AB is a multi-national packaging company, with head offices in both Lund, Sweden and Laussane, Switzerland. With nearly 25,000 employees worldwide, and €11.5 billion in revenue in 2017, Tetra Pak is a leader in their field, providing processing and packaging solutions to customers and suppliers in over 160 countries.

## THE CHALLENGE

Tetra Pak approached Celemi requesting an interactive, engaging learning solution, aimed to help the engineers responsible for testing Tetra Pak's filling machines understand the importance of volume and capacity analysis when identifying bottle-necks and improvement potentials in their testing facilities.

## SOLUTION

This digital solution allowed participants to act as production planners and test out "what ifs", which made for an exciting, engaging, and fun environment where they could discuss their real-life challenges. The solution's operational parameters were designed together with representatives from Tetra Pak to resemble their reality. In teams of two, participants were challenged with increased customer demand after initial production planning and finding a way to keep production costs as low as possible by balancing different factors, such as manpower, competence levels, production space, and time buffers.

## OUTCOME

Participants were engaged and committed, and there was a high energy in the room. They tested out different strategies until they had found a perfect solution. They exercised their creativity to find outside-the-box solutions and optimize their results. The engineers who participated in the training felt afterwards that they had a better grasp on how to plan and improve efficiency and capacity when testing filling machines, and Tetra Pak will continue to integrate this solution into their training in the coming years.

## SUCCESS FACTORS

Participants explored and understood the immediate effects that their decisions had on production lead times, staffing, and cost.

*"The simulation triggered good discussions and made us aware of the factors that need to be considered in connection with production planning. This training challenged our way of thinking."*

– Johan Karlström  
WCM Manager  
Tetra Pak