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Abstract

Data driven optimization in production at Arla Foods Høgelund Dairy

The “semi big data” in Høgelund comes from many various sources and all hold valuable information. Data can, in the long run, tell the entire history of the cheese from farm to warehouse.

All these data will, if combined, visualized and interpreted, give a greater understanding of the biological processes that are responsible for the taste development and growth of the blue mould, and of the variables that can be adjusted to achieve the optimal product quality every time and throughout the seasons.

The project will contribute to the increased quality of Danablu and consequently, enable Arla to stay competitive on the market of specialty cheese in the world.

Two cases which gave evidence of the gains from looking at data in new ways were data from cheese filling sensors and the chemical lab results on finished cheese e.g. water%, salt% and fat%. Digitalization of lab data from Excel to SAP QM systems and into dashboard has made a difference in the daily work. It was evident that optimization can be more targeted when data driven.