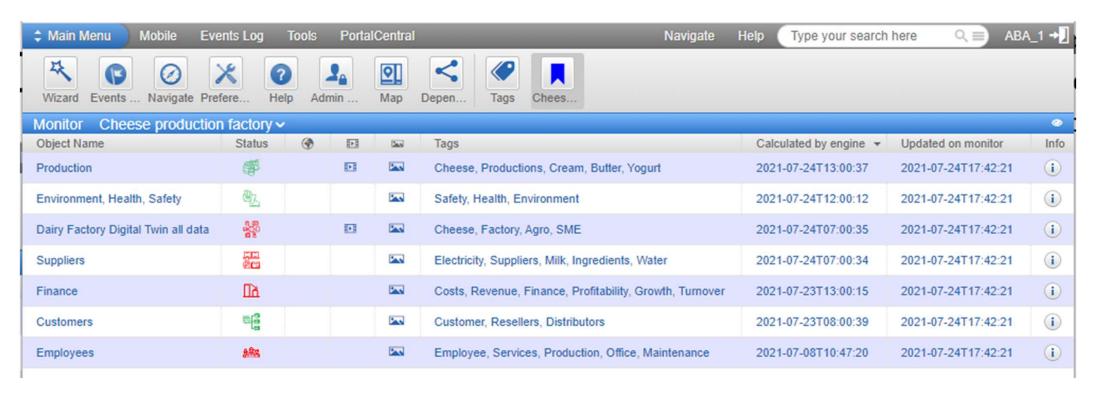
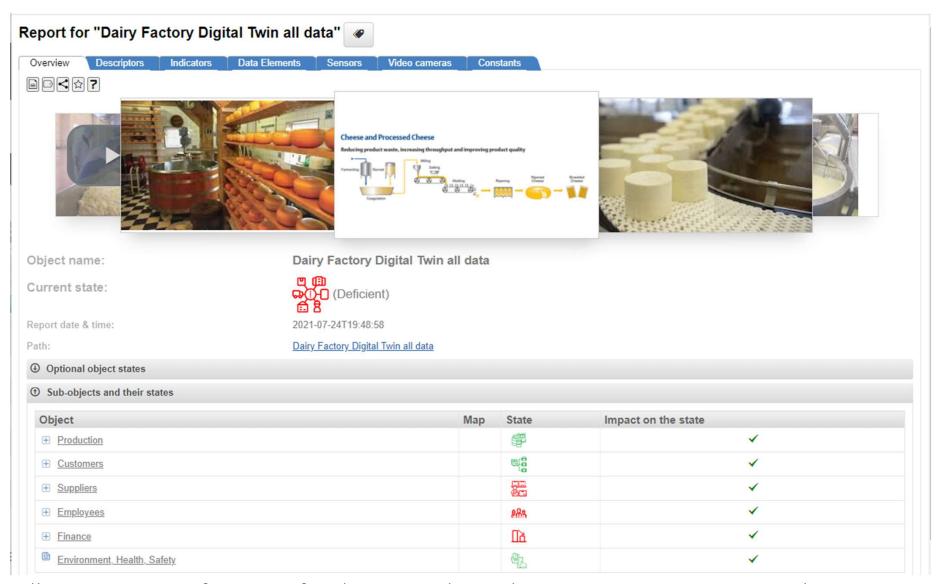
Sample screens' illustrations representing Digital Twin interactions with a plant manager

Web application screens
Stage 0 Model

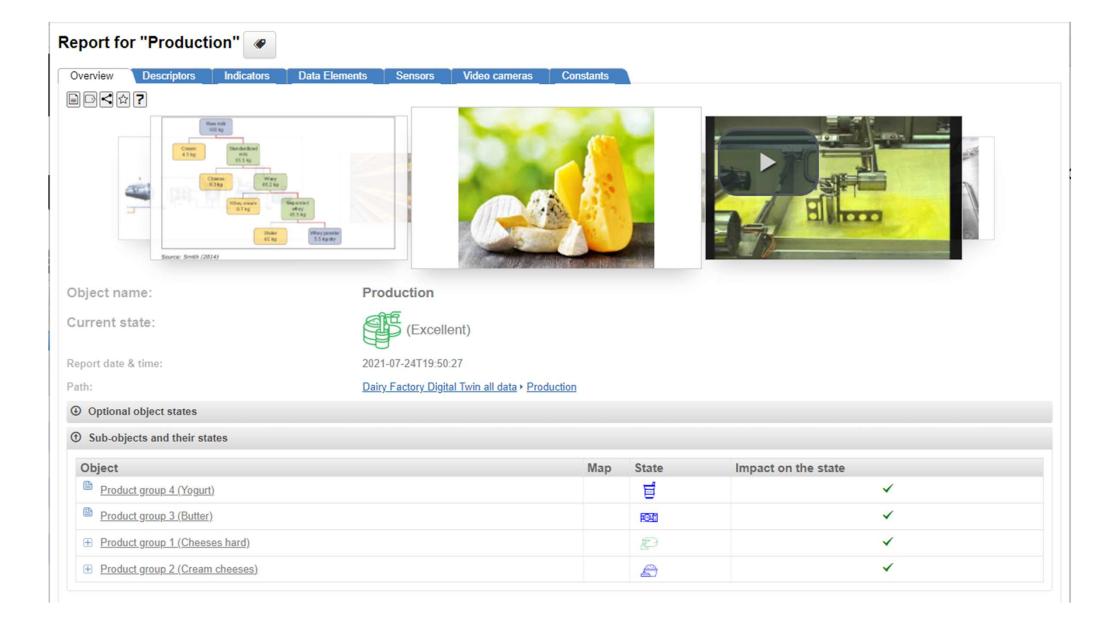
Plant Monitoring Dashboard



Represents holistic ongoing status of each object. By a click on the object name or relevant icon an user can access the relevant detailed reports and analytics. Dashboard objects can be searched by tags. The dashboard objects and reporting can be customized according to user preferences and role.



Full report Page1 of 7 pages for the Dairy Plant. The icons represent current object statuses: Green - Excellent, Blue - Normal, Red - Deficient (i.e. there are ongoing problems).



Report for "Product group 4 (Yogurt)"



<u>Dairy Factory Digital Twin all data</u> > <u>Production</u> > <u>Product group 4 (Yogurt)</u>

Optional object states

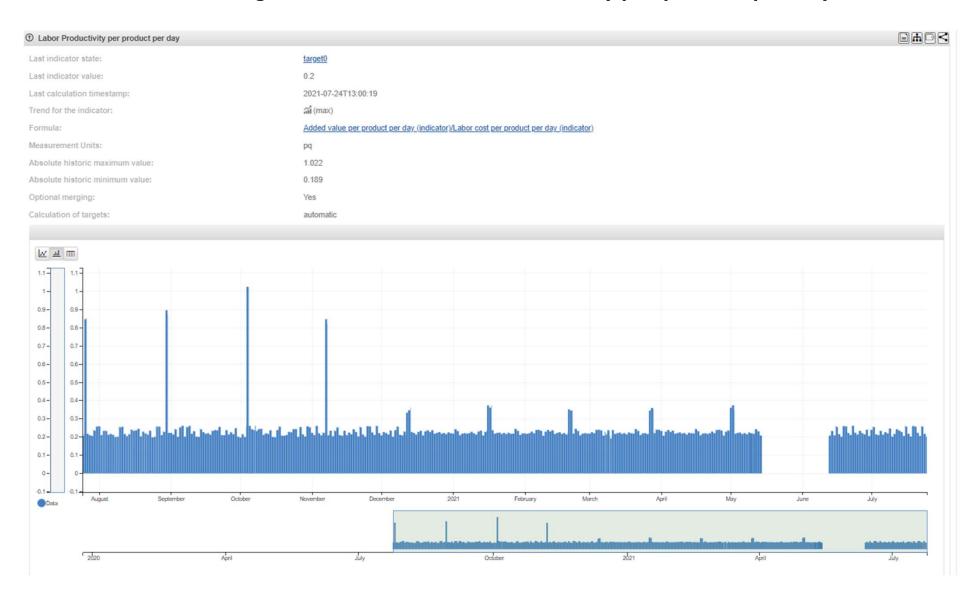
Path:

① Sub-objects and their states

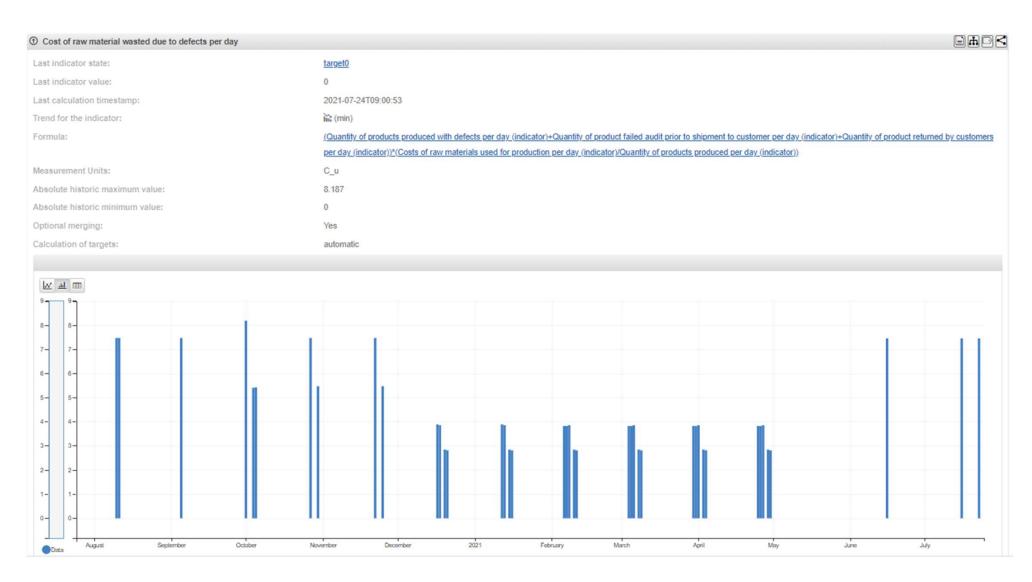
Object Map State Impact on the state

There are no sub objects available for Product group 4 (Yogurt)

Product: Yogurt, Indicator "Labor Productivity per product per day"



Product: Yogurt, Indicator "Cost of raw material wasted due to defects per day"



Overview of the plant model complexity (Stage 0)

Digital Twin Business Objects	# of data sources	Total # of KPIs	Total # of objects and its statuses
Production of 6 products (Cheeses, Butters, Yogurts)	60	132	9
Customers in 3 groups (Restaurant chain, Dairy retailer, Hotel chain)	21	30	4
Suppliers 4 companies (Milk, Ingredients, Water, Electricity)	24	36	5
Employees in 3 groups (Office, Production, Services)	33	63	4
Finance in 3 subgroups (Revenue, Costs, Profitability, Growth, Turnover)	3	12	4
Environment, Health, Safety (EHS)	11	11	1
Factory as top-level business object			1
Totals for the Digital Twin model	152	284	28

Each plant object is Smart, it is calculating own performance according to planned targets and reports the results to the Plant Manager and operators in real time.

Reference site:

Dairy.Pharosnavigator.com