

THE MAIN OPPORTUNITIES AND CHALLENGES IN ORGANIC PROCESSING

TIINA HÄMÄLÄINEN, VALIO OY LUOMUELINTARVIKEPÄIVÄ 2.10.2019



FINNISH DAIRY FARMERS FOUNDED VALIO IN 1905 to export butter.







DAIRY FARMERS ARE STILL VALIO'S OWNERS

Valio

We pay out our profits through dairy cooperatives to 5100 Finnish farms.

A DRIVING FORCE

NOBEL PRIZE WINNING INNOVATIONS

The head of Valio's laboratories, A.I. Virtanen received the Nobel Prize in Chemistry in 1945. His legacy lives on at Valio. We use science to make food that improves everyday lives.

Valio Research Laboratories founded in 1917

"Only a country whose entire economy is based on science can achieve and retain first place in the economic battle between nations. The advancement of the dairy sector requires science as much as any other sector."

(Valio

- Valio Board on founding the research laboratories

ORGANIC IN VALIO: اس SMALL ACTIONS THAT MATTER THE MOST

OUTSIDE ALL YEAR ROUND – All cows on organic farms graze outside in summer and exercise outside in winter. Grazing also promotes cow's health as well as the conservation of natural diversity.

ORGANIC NUTRITION – No pesticides or artificial fertilisers are used in growing feed for organic cows.

NATURAL INGREDIENTS – The milk, berries, fruit and oats in organic products are completely free of pesticides.

RENEWABLE PACKAGING MATERIALS – All out milk, yoghurt, juice and berry soup cartons are made from 100% plant-based material – even the caps.

FULLY RECYCLABLE – All Valio Luomu packages can be recycled.

GREAT AS THEY ARE – Valio Luomu products contain only essential additives or added sugar.

RENEWABLE ENERGY – Valio Luomu products are mostly manufactured with renewable energy. We are increasing renewable energy in our Luomu chain from the farm to the to the consumers home and eventual recycling of the packaging material.

SMALL BIOGAS PLANTS - Organic farmers have small biogas plants on their farms, where they make biogas out of cow manure.

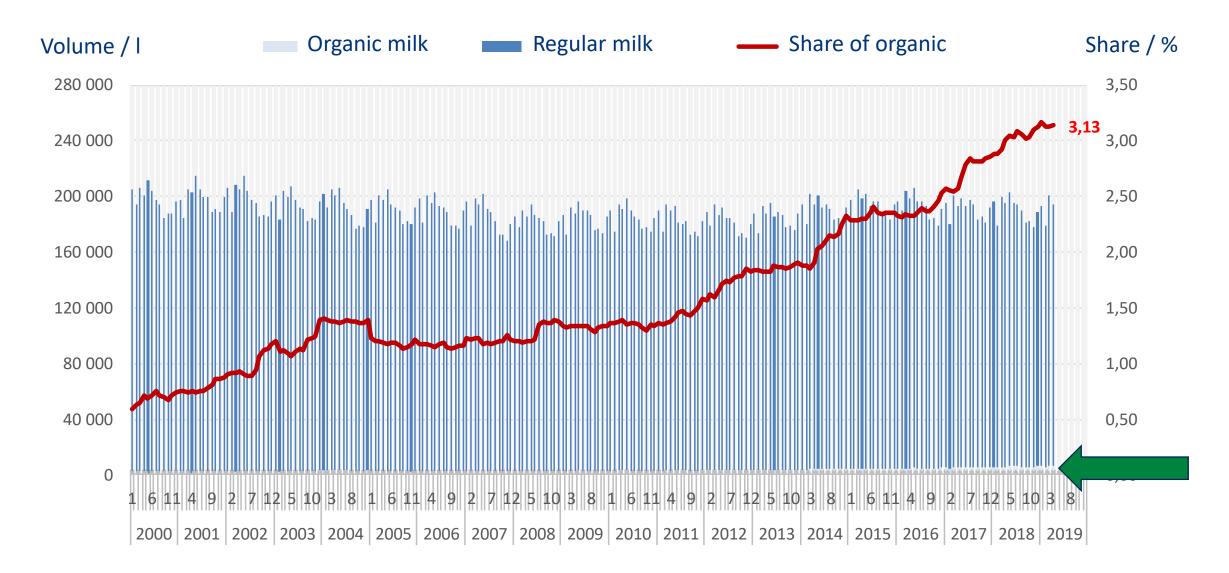
LBG MILK COLLECTION TRUCK - First liquid biogas (LBG) milk collection truck was adopted to collect Valio Luomu[™] milk. Truck uses biogas, which is made from renewable energy.



CHALLENGE #1: ORGANIC IS SMALL (BUT BEAUTIFUL)



ORGANIC RAW MILK 3% OF TOTAL



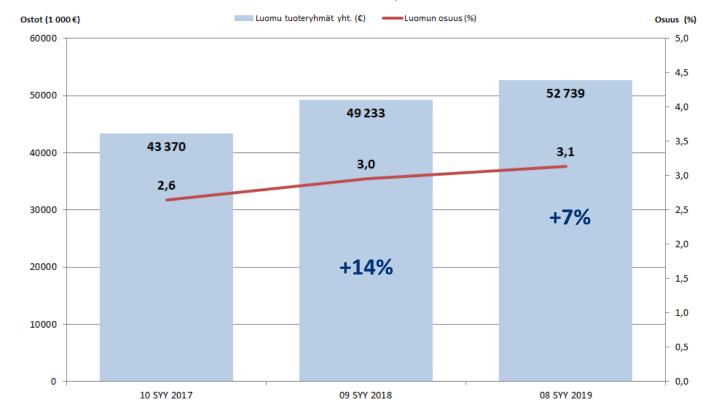


SHARE OF ORGANIC PURHACES > 3% IN VALIO'S PRODUCT GROUPS

Luomutuotteiden osuus (€) tuoteryhmien ostoista

(Tuoretuotteet, juustot, rasvat, mehut ja marjakeitot)

Lähde: Nielsen Homescan, 52 viikkoa



MILK COLLECTION Logistics Timing Volumes

(uomu

TANK EAN

Valio

uusiutuvalla BIOKAASULLA

WYX-149

TANK EAN

MILK RECEPTION Separate (=small) silos for organic milk

Valio



CHALLENGE #2: PROCESSING



VALIO'S ORGANIC PRODUCTION

Oulu

Fresh dairy

Joensuu

Cheeses

Jyväskylä

Eila lactose-free milks

BALTIC SEA

Seinäjoki

Fresh dairy, butter, spreads and powders

Riihimäki

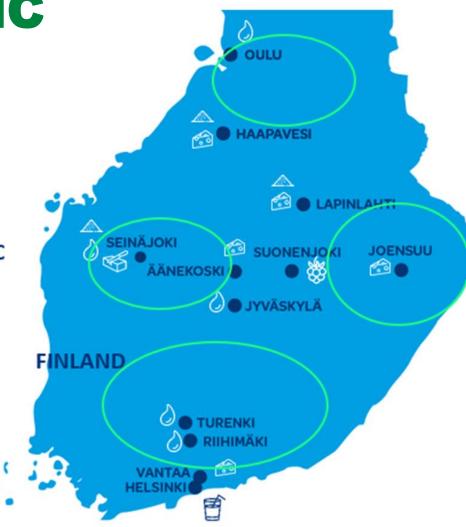
Milks and creams

Turenki

Creams

Helsinki & Suonenjoki

Juices, berry soups and jams











CHALLENGE #3: RAW MATERIALS

OTHER RAW MATERIALS Regulations Additives Availability Quality

Valio



CHALLENGE #4: DIFFERENT REGULATIONS



REGULATORY DIFFERENCIES in different markets e.g. Vitamin D addition to milk Sweden vs. EU



OPPORTUNITIES



ORGANIC IN FINLAND +9% IN 2018



Organic market in Finland

Share of organic is expected to grow up to 10 % in the long term in Finland.

Total dairy market won't grow, but consumption will shift to organic products.

Source: Pro Luomu



PURE FINNISH NATURE IS WHERE THE BEST MILK IN THE WORLD IS MADE

Valio

Our cows are among the healthiest in the world, with zero traces of antibiotics in their milk.





DOMESTIC WILD BERRIES

Valio

yomu

SCHUERONNORUBBER

SMART INNOVATIONS, CATEGORY TRENDS, EVERYDAY PRODUCTS



40mu

More than 50 SKUs in Valio Luomu[™] portfolio already

Valio luomu SMALL EVERYDAY ACTIONS HAVE A GREAT SIGNFIGANCE

