Data utilization in dairy industry

Digital farming

Jukka Partti
Senior vice president
Valio LTD

Helsinki, November 20th, 2019
THE MOST INNOVATIVE DAIRY AND FOOD COMPANY IN THE WORLD
Food brings friends together and makes you feel good. We create wellbeing and taste experiences, sustainably.
**Milk that’s among the cleanest in the world**

- Founded in 1905
- 15 cooperatives
- Profits for the farms through milk price
- 5,100 dairy farms

**Valio and its farms employ**
- 3,200 employees in Finland
- 1,000 employees around the world

**The biggest food company in Finland**
- 80% of Finnish milk

**Market leader in dairy products in Finland**
- 1.8 BN litres of milk per year
- 12+2+1 plants in Finland and abroad
- 114 years

**Exports to 60 countries**
- EU average better milk price to farms
- 30,000 people

**Turnover**
- 1.7 BN

**Nobel Prize**
- 1

**Valio turnover**
- 1.7 BN

**EU average**
- Better milk price to farms

**Valio and its farms employ**
- 3,200 employees in Finland
- 1,000 employees around the world

**The biggest food company in Finland**
- 80% of Finnish milk

**Market leader in dairy products in Finland**
- 1.8 BN litres of milk per year
- 12+2+1 plants in Finland and abroad
- 114 years

**Exports to 60 countries**
- EU average better milk price to farms
- 30,000 people

**Valio turnover**
- 1.7 BN
Data

Why?

What?

How?
COMPANIES CAN SOLVE
GLOBAL CHALLENGES

FOR US, SUSTAINABILITY MEANS CONCRETE ACTS, FROM THE FARMS TO THE TABLE
Carbon farming courses with Baltic Sea Action Group started in April 2019

100% Soy-free feeding saves rainforests, cows eat mainly grass

Biogas and fertiliser from manure, we are building a network for recycling manure and nutrients

First bio gas fuelled milk truck rolled out in February 2019

100% plant-based cartons (yoghurt, milk, sour milk and cream cartons), we are giving up black plastic in 2019
What is data?

Data is raw.

It needs to be processed to get useful information and knowledge.
Agriculture is a part of the climate solution – data to calculate is needed

1. Emissions must be reduced in all sectors
2. Emissions must be removed from the atmosphere. Merely reducing emissions is not enough to achieve the targets of the Paris climate agreement
3. We must move from fossil economy to circular economy

• Valio can affect all three through its own operations.

Finland’s greenhouse gas emissions 2017

Source: Statistics Finland, Finland’s greenhouse gas emissions 2017
The carbon footprint of milk, from field to dinner table, consists of

![Bar chart: Milk climate emissions by source (semi-skim milk),

%]

Distribution of semi-skim milk environmental emissions

- Primary production: 93%
- Transportation: 6%
- Product manufacturing: 1%

Source: Valio
OBJECTIVES
Production excellence ambitious objectives

- Set ambitious objectives and proceed towards target.
- Create Data driven decision making culture.
IT’S ALL ABOUT DATA.
QUALITY DATA.

AND QUALITY DATA DOES NOT JUST HAPPEN, IT NEEDS THOUGHT AND WORK.
Thanks

Jukka Partti
Jukka.partti@valio.fi