



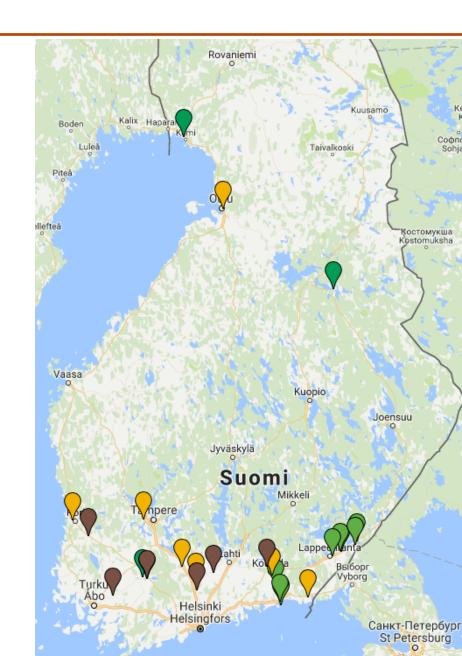
Soilfood today

- Sidestreams recycled from 26 factories
- Spread over 15 000 hectares (0,8 % of cultivated area of Finland)
- 17 employees
- Estimated turnover 4 MEUR in 2017
- Operation is based on strong partnerships

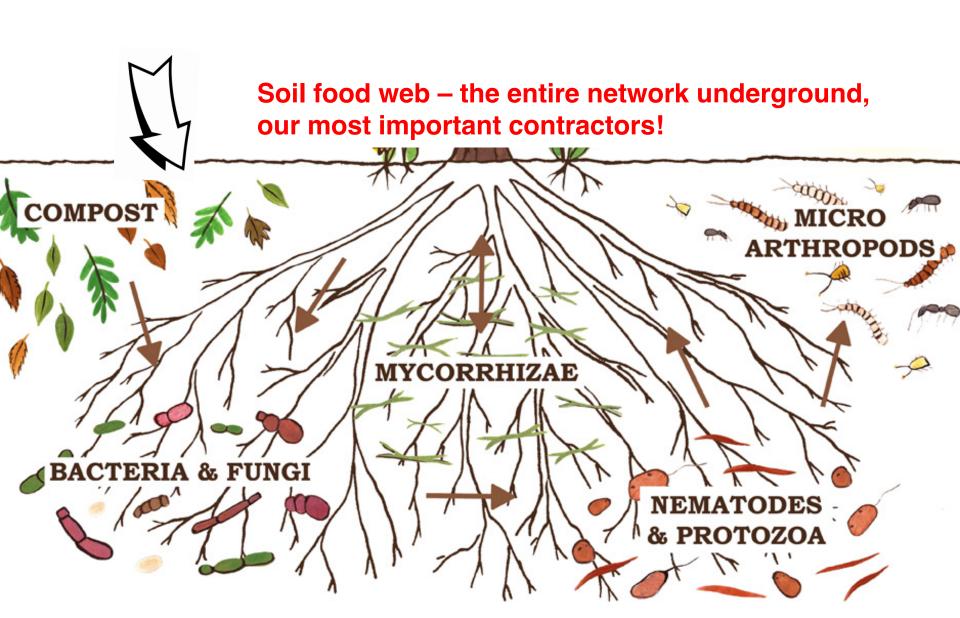


Results from Tattari farm

- Yields of organic winter wheat have more than doubled in three years.
- Medium yield in 2017 was 4600 kg and revenue 1900 €/ha (average 480 € in Finland).
- Fertilizer costs have not increased.



WHY SOILFOOD?





Soil is essential





22 t Foliar FOOD feeding Acceleration of microbial activity 16,52 t Biologic-mechanical loosening Minimized tillage Organic fertilizers and SOIL FOOD soil amendments Perennial plants, winter crops and mixed crops 4,07 t Optimized fertilization, FOOD 2,03 t controlled pH Water economy



How are fields fertilized at the moment?



The production of 1 kg of inorganic nitrogen consumes 0,92 kg of fuel = 1,09 litres



Change in fertilization

Consumes fossile Mineral origin fuels

Raw material

Design

Production

Distribution

yearly

Norwegian origin, over 200 M€ import

Soil degradation, Emissions to the Baltic Sea and the loss of soil carbon atmosphere

Use

Waste

CROP ROTATION MODEL AND KNOW-HOW



NUTRIENT RECYCLING: High knowledge base and know-how, nutrients added where they are needed.

Intelligent and profitable recycling -NO for dumping

Everybody wins

- Inexpensive for industry and farmers with less emissions
- Productive fields→ profitable and environmentally sustainable farming
- Self-sufficiency in nutrients = food security
- Reversing climate change



Focus on know-how

- Only with high agronomical know-how can recycled fertilizers and soil amendments be used on a wider scale
- Recycled fertilizers and soil amendments to be used where needed; crop and soil specific demand for nutrients
- Only then can we talk about fertilization and soil improvement, not dumping of waste!



Strong R&D

3 people and ca. 100 000 € yearly funding

Examples of studies and topics

- PÄÄSTÖSÄÄSTÖ: the impact of organic soil amendments on nutrient emissions and soil properties
- OSMO project: improvement of farmers' know-how on soil
- NSP Pulp: crop available nutrient supply and environmental impacts of soil improvement fibres
- Risks related to pollutants in sewage sludge

Our partners:









Our partners





























Recycled nutrients 2016



280 t N 80 t P 60 t K 100 t S

10 300 ha



Sequestration of carbon (2016)

28 000 t CO₂ emissions saved by reusing instead of burning fibrous masses.

+ 5400 t CO₂ emissions saved by replacing calcitic lime with recycled lime.

+ 1000 t CO₂ emissions saved by replacing mineral nitrogen fertilizers.

- 1000 t CO₂ emissions from logistics

= 33400 t

of which

11 000 t

sequestred as stable organic compounds in the soil.

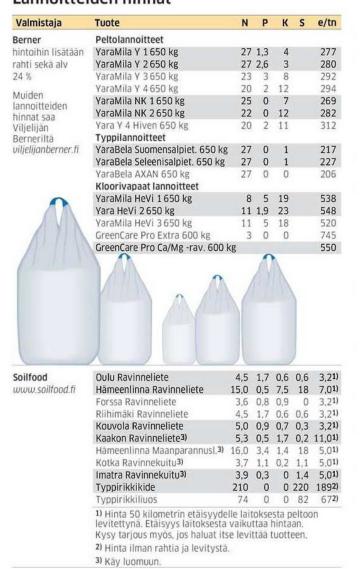




Compared with our competitors

Yaran ja Soilfoodin lannoitehinnat esille

Lannoitteiden hinnat MT 31.10.2016



The farmer is not the problem but the solution

Restoring carbon to the soil is the only way to reverse climate change!

