

SUSFERT Challenge



- Rising demand for food and feed
- Non-renewable, resource-intensive fertilisers
- Dependency on imported resources
- Nutrients often not available to plant when most needed

Sustainable multifunctional fertiliser - combining bio-coatings, probiotics and struvite for phosphorus and iron supply

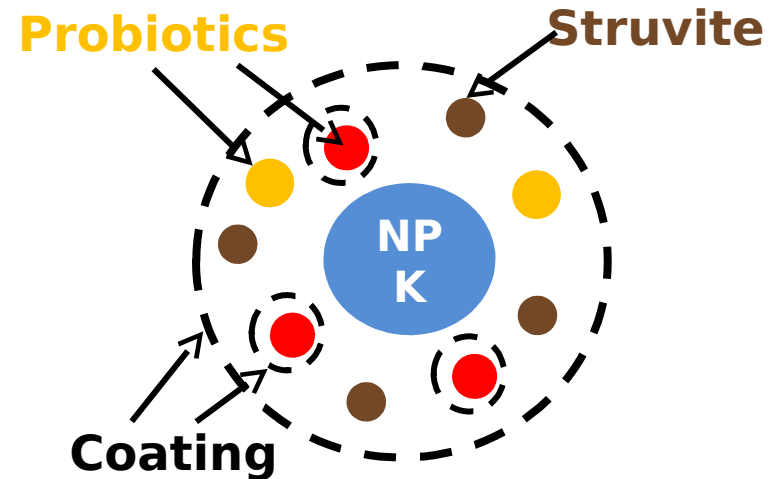


Solution

Multifunctional fertilisers for phosphorus and iron supply

Main SUSFERT components:

- **Probiotics** and fungal siderophore
 - for phosphorus and iron supply
- **Struvite** as renewable phosphorous source
 - from wastewater plants
- **Coatings:** biobased, biodegradable
 - modified lignosulfonates for controlled release
 - from pulp & paper industry



Fact box:

Number of partners: 11

Start: 1st May 2018

Duration: 5 years

Budget: €9.4 Million

BBI-JU funding: €6.6 Million

Concept



- **Fit into existing production processes and EU agricultural practice**
- Demonstrate large-scale production
- Field trials for major crops (maize, tomato)
 - Several countries, several years
- Economic potential
- Regulatory compliance
- Environmental sustainability



Impact



- Decrease dependency on mined phosphate rock by 40%
- Strengthen the circular economy by valorising waste and by-products from:
 - wastewater treatment
 - bioethanol production
 - pulp & paper
- Reduce soil and water contamination with novel fertilisers
- Strengthen rural areas:
 - local value chains
 - local feedstock sourcing

Partners



Industry



SME



Research



University of Natural Resources
and Life Sciences, Vienna



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