



## **SUS**tainable **FER**tilisers

Sustainable, multifunctional fertilisers for plant phosphorus and iron supply fitting into existing production processes and EU agricultural practice

KETBIO online partnering event, Oct 10<sup>th</sup> 2019  
Dr. Natascha Miljković (RTDS Group)



SUSFERT has received funding from the Bio -Based Industries Joint Undertaking (BBI-JU) under grant agreement No. 792021. The BBI-JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio-Based Industries Consortium.



# SUSFERT in a nutshell

Title: Sustainable multifunctional fertilisers – combining bio-coatings, probiotics & struvite for phosphorus and iron supply

Start: 1 May 2018

Duration: 5 years

Keywords: fertiliser, agriculture, sustainability, plant nutrition, phosphorus, iron, coating, probiotics, struvite

Budget: € 9.4 Million

BBI-JU funding: € 6.6 Million

Consortium: 11 partners



# SUSFERT consortium



## 3 research partners:



University of Natural Resources  
and Life Sciences, Vienna



## Coordination:



## 2 small and medium enterprises (SMEs):



## 5 industry partners:



[www.susfert.eu](http://www.susfert.eu)

# The challenges

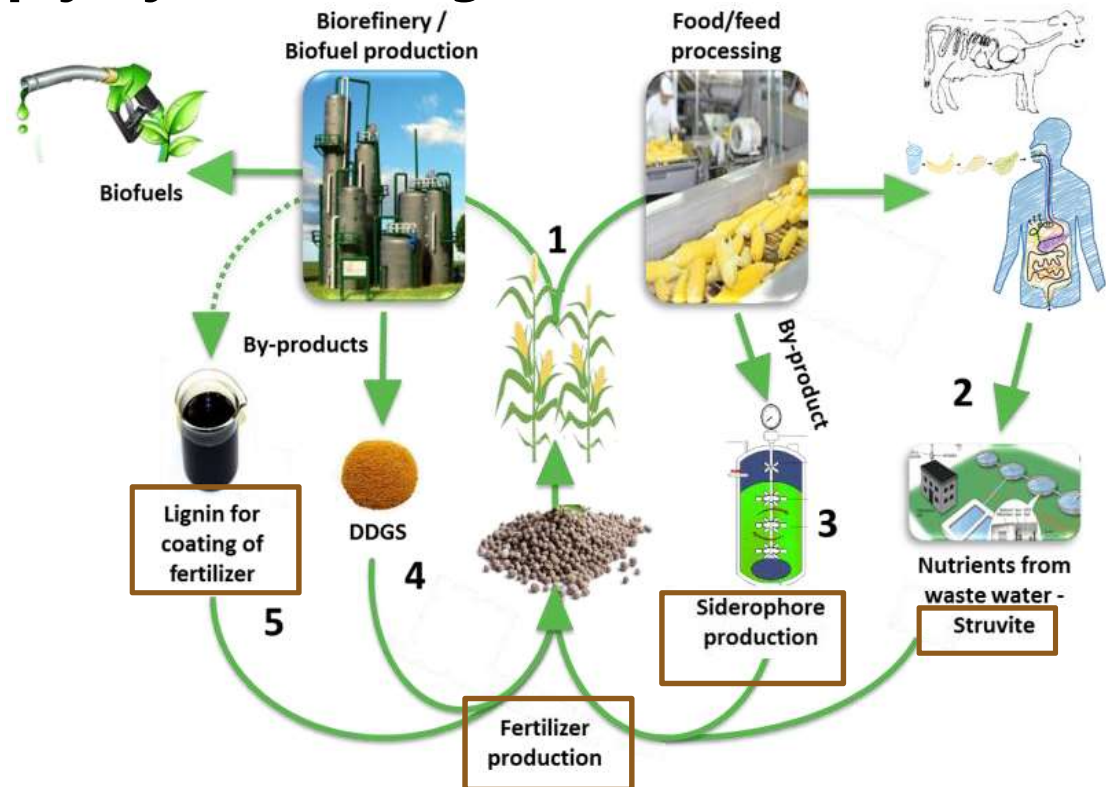
- 1) Dependency on non-renewable, resource-intensive fertilisers
- 2) Mined phosphorus is a critical resource, 90% imported into EU
- 3) Huge loss of nutrients from conventional fertilisers and low availability at right time

# SUSFERT solutions

Develop more sustainable, multifunctional fertilisers for phosphorus and iron supply by combining:

- Bio-based and bio-degradable **coatings**
- **Probiotics** to increase nutrient availability
- Renewable phosphorus source **struvite**

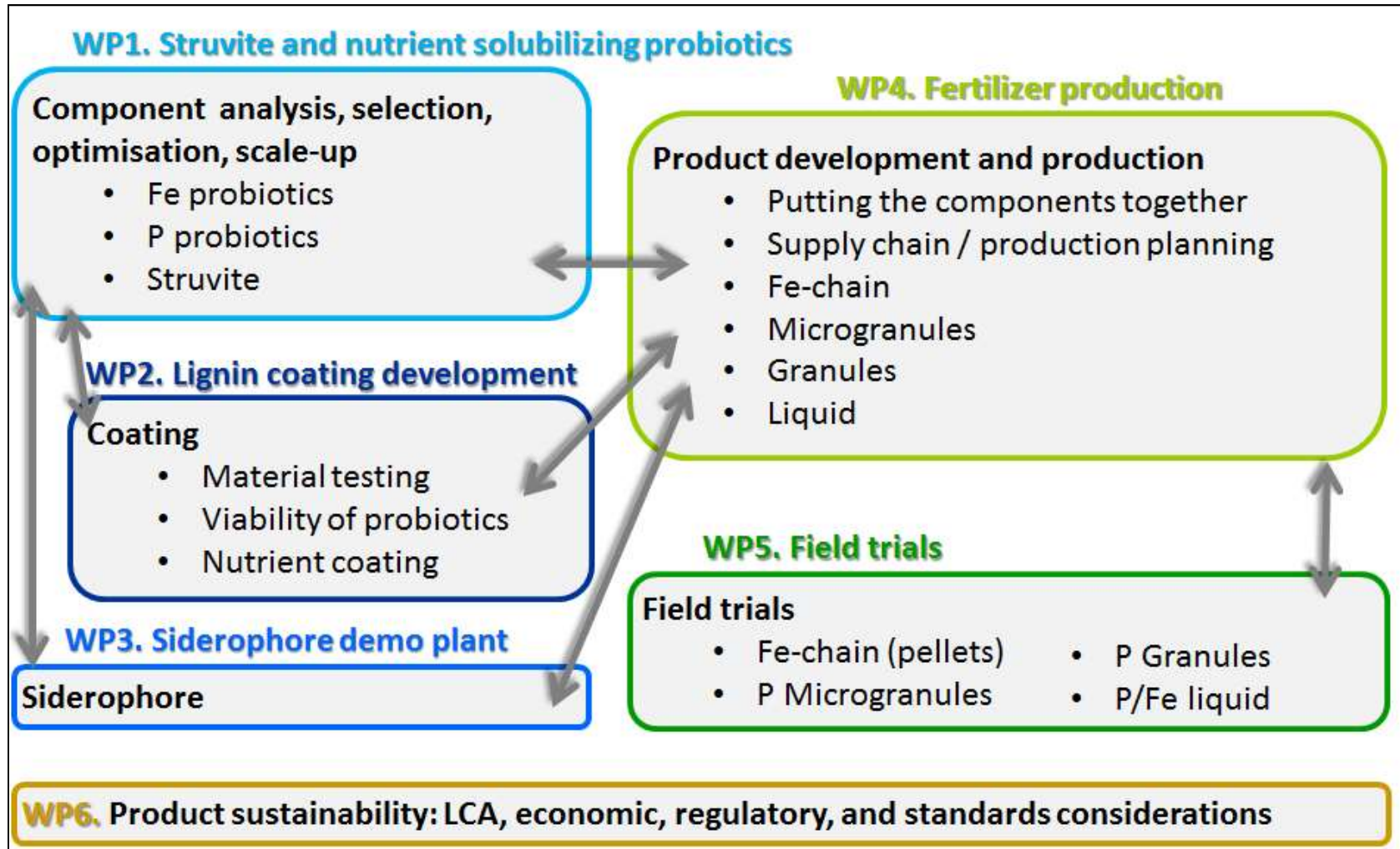
Demonstrate fertiliser efficacy for major crops



# SUSFERT impacts

- 1) Decrease dependency on mined phosphorus by 40%
- 2) Strengthen circular economy by valorising waste and by-products
- 3) Reduce soil contamination
- 4) Strengthen rural areas by establishing local value chains
- 5) Demonstrate green technologies

# SUSFERT Work Packages - Overview



# Acknowledgements

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# Keep in touch!

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