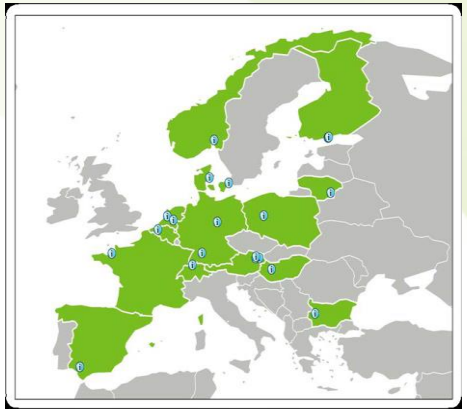
LEX4BIO

-Optimising bio-based fertilisers in agriculture – Providing a knowledge basis for new policies (LEX4BIO)
-Project duration: 1.6.2019 – 31.5.2024
-20 partners from 14 countries
-Project coordinator: Natural Resources Institute Finland (Luke), coordinator: Kari Ylivainio (kari.ylivainio@luke.fi)



4th Phosphorus in Europe Research Meeting (PERM)

Nutrient stewardship session

2nd June 2021

Else K. Bünemann, FiBL

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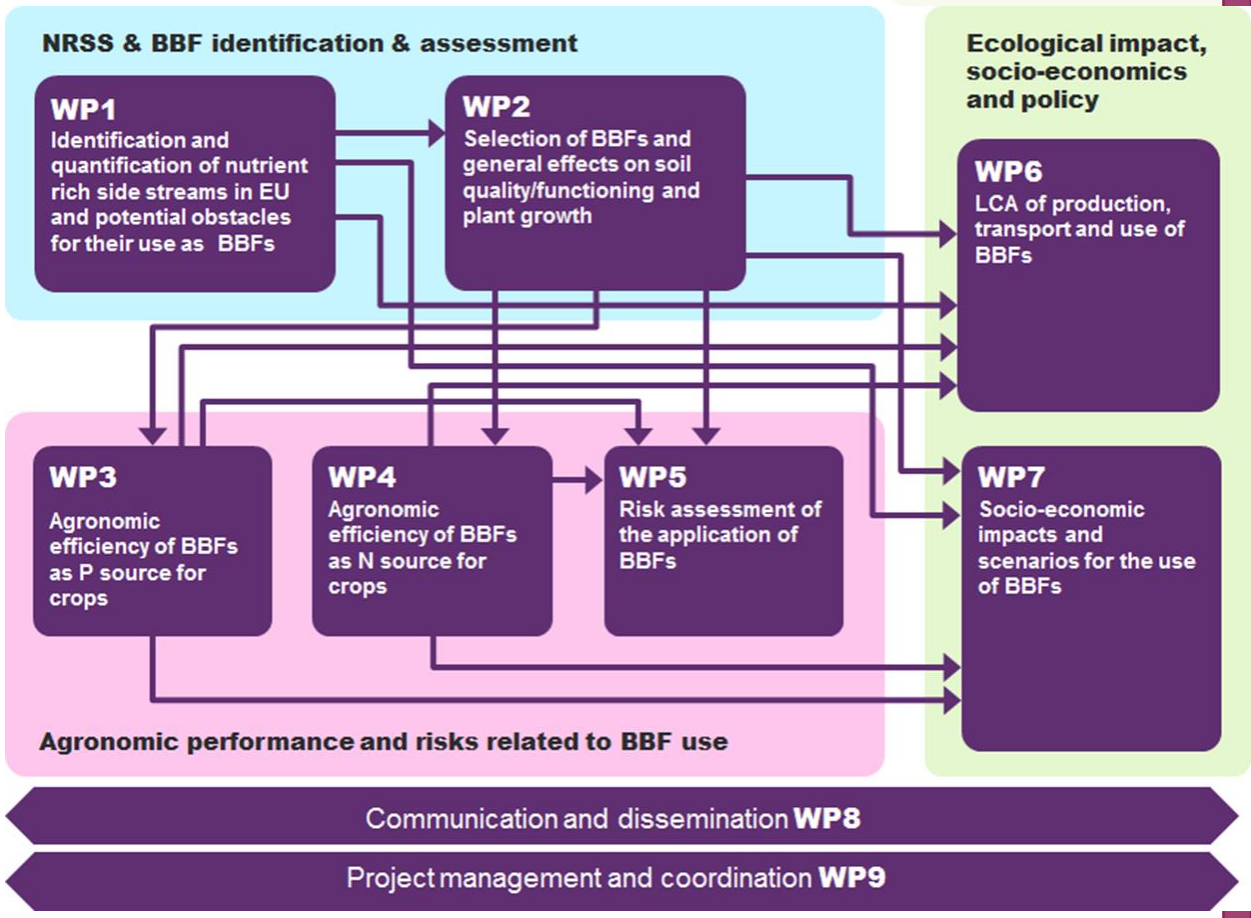
Objectives of LEX4BIO

- Identifying novel bio-based fertilisers (BBF) to replace mineral (N, P) fertilisers in the EU

- Evaluating agronomic efficiency of BBFs and potential risks for food and feed safety, human health and environmental losses, considering site specific requirements

- Assessing the integrated ecological impacts over the entire lifecycle of the production and use of BBFs

- Determining the logistic costs, public perception and political actions required for optimal use of BBFs



Research activities of LEX4BIO

Broad range of BBFs, covering PFC/CMC categories (EU 2019/1009), selected for laboratory/greenhouse/field trials:

- Field and greenhouse trials across the EU (Finland, Germany, Austria, Switzerland, Hungary, France and Spain) => Agronomic efficiency, overall effect on crop growth and on soil quality, food and feed safety, human health
- Evaluating of compliance tests (EU 2019/1009) and novel methods for predicting agronomic efficiency
- Requirement of P fertilisers in the EU
  - LUCAS soil data (bioavailable P content in agricultural soils of the EU), critical P content for crop growth and P requirement for optimal growth
- Potential P losses from different types of soils after application of BBFs