NewFert. Nutrient recovery from biobased waste for fertiliser production
(H2020-BBI-PPP-2014-1)

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Motivation of the project:

Europe is highly dependent in nutrient imports

The nutrients end up in wastes:

sludge, manure, water, …

Expected impacts:

✓ Take advantage of the nutrient accumulation in bio-wastes
✓ Improve waste management and valorisation
✓ Reduce nutrient dependence from abroad
✓ Increase resilience of the fertiliser industry
✓ Improve agricultural sustainability
✓ Improve farmer competitiveness
Main Outcome:

Recovery and valorisation of nutrients (N, P and K) from biobased waste streams for fertiliser production

New family of Advanced Fertilisers:

- Efficient
- Profitable
- Environmentally friendly
- Safe

Current state of the project: month 30 (out of 42)
- > 45 biobased materials analysed (10 selected for inclusion within fertiliser processes)

- 3 groups of new raw materials for the fertiliser industry:

  - Ashes
  - Processed ashes = available P
  - Struvites

Pilot scale

Biobased materials integration in NPK fertiliser process

- Up to 15 % nutrients substitution rate from biobased materials, for the time being.