

Preliminary Programme
4th Phosphorus in Europe Research Meeting (PERM)
Online, 2nd June 2021

In partnership: ESPP, Biorefine, Proman, ETA Florence

9h00 - 10h15 CEST: P-recycling research & technology update

- Welcome, networking app, meeting objectives (ESPP, Biorefine)
- Short outline of status of implementation of P-recycling technologies today (ESPP)
see [ESPP – NNP – DPP technology catalogue](#)
- Phosphorus recycling projects under Horizon 2020, LIFE, Interreg (European Commission, tbc)
- Nutrient R&D objectives under HorizonEurope (European Commission, tbc)
- Nutrient R&D projects inventory, ETA Florence Renewable Energies
- Thematic networks initiatives on nutrients (ITN-Re-source, ESNI), Ana Robles Aguilar, Gent University
- From project recommendations to policy implementation and user uptake
SuMaNu [Gap Analysis report](#) 2021, Henning Lyngsø Foged, Organe and Kaj Granholm, BSAG
- Nutrient recovery thematic network: from project development to farmer implementation, Erik Meers, University of Gent, [Nutriman](#) WP2 leader
- Questions and discussion

10h45 – 12h00 CEST: Four parallel breakout sessions

- **manure nutrient recycling** – led by Laia Llenas Argelaguet, Universitat de Vic-Universitat Central de Catalunya
- **nutrient recovery from sewage sludge** – led by UKWIR / EUREAU or Phos4You
- **contaminants, safety, LCA** – led by UGent/Biorefine
- **fertiliser properties and user uptake of recycled nutrient materials** – led by Kari Ylivainio, LUKE (Lex4Bio)

Short pitch summaries of nutrient projects and phosphorus R&D institutes (3' - 3 slides max. updates on advanced/completed nutrient recycling projects and work of targeted research centres / 2' - 1 slide pitches presenting new / starting projects or novel PhD projects). Discussions on research needs and cooperation

- **confirmed:** SuMaNu (Interreg Baltic Sea Region), Phos4You (Interreg North-West Region), Fertimanure (2020), P-TRAP (H2020 Marie Curie), WETSUS, SYSTEMIC (H2020), Water Mining (H2020), ViviMag (EIT), RecaP (ITN), FertiCycle, LOTUS (India-Netherlands Partnership), Netherlands Institute of Ecology (NIOO-KNAW), Circular NP (Sweden, private funding), Pegasus (ERA-NET), TYPKI (Finland national funding), Organic-PLUS (H2020), RESTOR (county of Møre og Romsdal, Norway), Circular Agronomics (H2020), Sabana (Horizon2020), ALG-AD (Interreg NWE), Hydrousa (Horizon2020), Lex4Bio (Horizon2020), Run4Life (Horizon2020), RecoPhos Scale-Up (Uni. Loeben, Austria), MeY4bioPP bio-polyphosphate (BMBF Germany), Phosphorus Campus Rostock, Reflow (H2020 ETN), Gypsum agricultural application (John Nurminen Foundation), Urbabiofin (Horizon2020), Waste2Bio (ERA-NET)
- **pending:** RePhoKUs, Enrich (LIFE), MonGOS, Rapsodee, FHNW, Prosumer, NIBIO, UGent, SMART-Plant, ...

14h00 – 15:30 Perspectives for research and market uptake

- Rapid conclusions of parallel sessions by Rapporteurs
- EU Farm-to-Fork and Biodiversity Strategy nutrient management and nutrient loss reduction targets: research needs
- Farmers' needs and visions for recycled phosphorus products (Chambre d'Agriculture, France, tbc)
- Phosphorus recycling in Organic Farming (RELACS Horizon2020 / IFOAM tbc)
- Relating nutrient recycling to 'Soil Health and Food' HorizonEurope Mission (tbc)

Panel discussion on what research is missing, where more is needed, improving support to implementation, networking and filling gaps.