

## ESPP – BioRefine workshop

in cooperation with the European Commission

### **Nutrient data monitoring to support decision making**

(proposed project Data on Nutrients to Support Stewardship - DONUTSS)

**Ghent, Belgium**

**Ghent University, site address Coupure Links 653 block E**

***Thursday 3rd Sept. 2015***

***scientists, researchers, data monitoring organisations***

***Thursday 3rd Sept. evening:***

***scientists – stakeholders networking dinner***

***Friday 4th Sept.***

***data users, data holders, industry, decision makers, stakeholders plus lead scientists from day 1***



WAGENINGEN UNIVERSITY  
WAGENINGEN UR



TECHNISCHE  
UNIVERSITÄT  
WIEN  
Vienna University of Technology

## Day 1 - Thursday 3<sup>rd</sup> September

*Participants: scientists, researchers, data monitoring organisations involved in nutrient Mass Flow Analysis (MFAs) for P, N, K, other nutrients, organic carbon and similar studies*

*Which data and quality do we have and what research or analysis is needed to enable more coherent and useable nutrient data generation and availability?*

### 9:00 Registration

#### **Welcome and opening**

9:30 Welcome by ESPP (European Sustainable Phosphorus Platform) and BioRefine (Erik Meers – Ghent University) - workshop objectives and organisation

9:40 Introductory speech by the European Commission (Eric Liégeois – DG GROW)

9:50 Participants each indicate shortly their name and organisation

#### **From nutrients flow analysis in Europe towards indicators and system optimization**

10:00 - 11:00 Short presentations and plenary discussion

- EU wide overview of P flows and data quality (Kimo van Dijk - Wageningen University)
- Intercomparison of national nutrient flow analysis (Michael Jedelhauser - Ludwig-Maximilian University Munich)
- From scientific MFA to routine monitoring schemes (Ottavia Zoboli on behalf of Helmut Rechberger - TU Vienna)
- What data is available on nitrogen and what is missing for 'nutrient management'? (Gerard Velthof, Alterra – Wageningen UR)

11:00 Break

#### **Institutional nutrients monitoring and how nutrients data “could” feed current indicators**

11:30 – 12:30 Short presentations and plenary discussion

- Data quality and implications for P governance – experience from P-REX project (Christian Kabbe – Kompetenzzentrum Wasser Berlin GmbH)
- Data availability and quality (Anne Miek Kremer – Dutch Central Bureau of Statistics, previously Eurostat)
- Nutrient data, a crucial input to environmental assessments (Geertrui Louwagie - European Environment Agency)

12:30 Lunch (provided, at location)

### ***Parallel table discussion on data priorities in 5 specific sectors***

13h30 – 15h00 Table sessions: What data do we need? What data is available? Which data should be targeted as priority for action to improve?

Expert invited speakers will give very short (max. 5 minutes) presentations to provoke discussions. All tables will be expected to provide answers to specific questions related to data (quality challenges), not to generally discuss about broad topics.

- **Inputs and trade, Production and processing** chaired by Jantine van Middelkoop (Wageningen UR Livestock Research) and Ottavia Zoboli (Vienna University of Technology)
- **Agricultural nutrient use and losses** chaired by Kersti Linderholm (Silver Mountain Environmental Engineering) and Chris Thornton (ESPP)
- **Diet, nutrient demand and food nutrient footprint** (chair tbc)
- **Waste and wastewater** chaired by Christian Kabbe and Fabian Kraus (Kompetenzzentrum Wasser Berlin GmbH)
- **Nutrient balances and indicators** chaired by Frank de Ruijter (The Sustainability Consortium) and Kimo van Dijk (Wageningen University)

15:00 Break

### ***Reporting of table discussions and plenary discussion***

15:20 – 17:00 Short reports of outcomes of each table discussion and plenary discussion

### ***Proposed DONUTSS project***

17:00 Proposed DONUTSS project – see attached (Ottavia Zoboli - TU Vienna)

17:15 – 17:45 Final discussion to summarize outcomes of the day, inputs to second day of the Workshop and to the proposed DONUTSS project

## **Thursday 3 September evening Networking dinner: scientists & stakeholders**

***Restaurant 'Oude Vismijn' at 7:00 pm***

## Day 2 - Friday 4 September 2015

*Participants: stakeholders: concerned industries, agriculture, sustainability indicator organisations, regulators, organisations using and holding nutrient data ... plus lead scientists from Day 1*

*Networking dinner: Day 2 participants are invited to the networking dinner, Thursday 3rd September evening, with Day 1 participants*

*What nutrient data is needed for decision support for industry and decision makers (agriculture, fertiliser industry, agri-food sustainability indicators, waste and water management, regulators ...)?  
What data is available today and how should it be completed and managed to provide information suitable for decision support? Which amounts of biomass or industrial by-products are available for recycling and which types and amount of nutrients are available in each of them? How to define collaborative systems to collect, monitor/update and disseminate this information?*

### 8:30 Registration

#### **Welcome and opening**

9:00 Welcome to invitees who did not take part to 1<sup>st</sup> day and introduction to DONUTSS and goals of the workshop (Chris Thornton - ESPP)

9:10 Welcome from Ghent University and Biorefine (Erik Meers – Ghent University)

9:20 Participants shortly each indicate their name and organisation

9:30 General policy context in relation to nutrient flows (Francesco Presicce – European Commission)

#### **Nutrient flow data and monitoring – Experiences and outlook**

9:45 Flanders nutrient flow study with focus on involvement of stakeholders and data acquisition (Joeri Coppens – Ghent University)

10:00 UK phosphorus flow study with focus on proposed indicators for decision makers (Cynthia Carliell-Marquet – University of Birmingham)

10:15 A national data system on P input and balance established by fertilizer industry (Philippe Eveillard – UNIFA). Note: K and Mg also considered, for N and S partial balance

10:30 Break

11:00 Nutrient data availability challenges for having comparable data, useable for decision making by industry or regulators at regional – national – EU levels (Kimo van Dijk – Wageningen University)

11:15 Report of outcomes of the first day of the workshop

11:30 Specific needs identified by the European Commission to support Circular Economy for nutrients/fertilisers (DG GROW – Eric Liégeois / Vincent Delvaux)

11:45 Panel discussion

12:30 Lunch

***What data do stakeholders need to support nutrient stewardship?***

13:30 Short stakeholder statements on data need by selected representatives from different sectors (agriculture, fertilizer / food and feed / water /etc., both industry and policy makers). Max 5 min. 3 slides each to express positions on the following 3 questions:

- Why do you need data on nutrients?
- Which data do you need?
- What is currently missing?

The following companies / organisations gave a presentation:

- Food processing and retail sector: The Sustainability Consortium (Frank de Ruijter)
- Wastewater sector: Depuración de Aguas del Mediterráneo (Sofía Grau González)
- Compost sector: European Compost Network (Wim Vanden Auweele)
- Water sector: EUREAU (Bertrand Vallet)
- Organic fertiliser sector: ECOFI (Benoît Planques)
- Mineral fertiliser sector: Fertilizers Europe (Laetitia Six)
- Paper sector: CEPI (Jori Ringman-Beck)

The following companies / organisations have been invited to respond:

- Agriculture: COPA-COGECA / European Cattle Innovation Partnership (ECIP) (*tbc*)
- Animal feeds: European Feed Manufacturers' Federation (FEFAC) / Agrifirm (*tbc*)
- Animal by-products: EFPRA (*tbc*)
- Food and food processing: a consumer food product / processing company (*tbc*)
- European regulators: DG GROW (Innovation Fund, Critical Raw Materials policy) / ENCI / AGRI (*tbc*)
- National regulators: Denmark / Germany / Flanders / Baltic-HELCOM (*tbc*)
- Chemical industry: European Chemical Industry Council (CEFIC) (*tbc*)

14:45 Plenary discussion following these statements and in particular to address questions of DG GROW as to how and what data to collect for EC needs/call

15:15 Conclusions for action – discussion of content of proposed DONUTSS project (Data on Nutrients to Support Stewardship) and how to take this forward

**16:00 Close of meeting.**