

# Minutes – ESPP Constitutive Assembly

## Brussels, 2<sup>nd</sup> December 2014

9h30 – 16h30 Lombardy Region Delegation, 3rd floor - 2, place du Champ de Mars, B - 1050 Brussels

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## Participants

### **Present**

Jonathan Bardoux, SEDE (Véolia)  
 Jennifer Bilbao, Fraunhofer IGB Stuttgart, Germany  
 Marco Bonetti, EU Commission - DG Environment  
 Will Brownlie, CEH Edinburgh / International Nitrogen Initiative  
 Roberto Canziani, Politecnico de Milano (by video link)  
 Ariane Catala, European Commission - DG Agriculture  
 Eva Clymans, Ghent University / BioRefine Cluster Europe  
 Wouter De Buck, Netherlands Nutrient Platform  
 Pieter De Jong, WETSUS  
 Rob De Ruiter, Ecophos / Aliphos  
 Carl Dewaele, NuReSys  
 Carlos Galeano, Phos4Ever  
 Dirk Halet, Flanders Nutrient Platform  
 Ludwig Hermann, Outotec  
 Antoine Hoxha, Fertilisers Europe  
 Nineta Hrastelj Majcen, EuCheMS (Eur. Ass. Chemical and Molecular Sciences)  
 Christian Kabbe, Kompetenz Zentrum Wasser Berlin  
 Carlo Leifert, Newcastle Univ England  
 Ingard Leifert, ECN European Compost Network  
 Anders Nätörp, FHNW Switzerland  
 Arnoud Passenier, Netherlands Ministry for Environment and Infrastructure  
 Michaela Pokorna, ASIO Czech Republic  
 Francesco Presicce, EU Commission - DG Environment  
 Harald Raupenstrach, RecoPhos Austria  
 Stuart Ravenscroft, ESPP

Kirsty Ross, Lancaster University  
Willem Schipper, Phosphate industry expert  
Franziska Schmacka, Rostock Phosphorus Camput  
Roland Scholz, Fraunhofer IGB  
Stefanie Siebert, ECN European Compost Network  
Laetitia Six, Fertilisers Europe  
Emilie Snauwaert, VCM  
Edward Someus, 3R Pyrolysis  
Mark Sutton, CEH Edinburgh / International Nitrogen Initiative  
Chris Thornton, European Sustainable Phosphorus Platform  
Thomas Turecki, EU Commission - DG Research  
Kris Van Damme, Ecophos / Aliphos  
Kimo Van Dijk, Wageningen University  
Alexis Van Maercke, EU Commission, DG Enterprise

### **Excused**

Malcolm Bailey, Link2Energy UK  
Mathias Bergman, Baltic Sea Action Group (BSAG)  
Sofie Bouteligier, OVAM Flanders  
Geoff Cooper-Smith, United Utilities UK  
Michael D'Arcy, BHSL  
Giuliana D'imporzano, Gruppo Ricicla, Università degli Studi di Milano  
Silvia Doñate, DAM - Depuracion de Aguas del Mediterraneo  
Bengt Hansen, Kemira  
Murray Hart, DEFRA, UK  
Rosanna Kleemann, Thames Water UK  
Leon Korving, WETSUS  
Kees Langeveld, ICL  
Simon Leaf, Environment Agency (England/Wales)  
Sandrine Leménager, France Ministry for Agriculture, Food and Forest  
Antonio Paz González, University A Coruña, Spain  
Arno Rosemarin, SEI Stockholm Environment Institute  
Andy Ross, Leeds University UK  
Rainer Schnee, PAPA and Budenheim  
Eric Streeter, Ostara

## **Welcome and agenda**

Arnoud Passenier welcomed participants.

He thanked the Lombardy Delegation in Brussels for hosting the meeting and WssTP (Pieter de Jong) for support in organisation.

The agenda as circulated was agreed:

- 9h30 – round table, welcome & participants
  - rapid summary ESPP actions since 2013
  - ESPP statutes, election of Board
  - 2015 action plan and budget
- 12h30 – 14h00 lunch (sandwiches provided here)
- 14h00 – 16h30 P / P-rock on EU Critical Raw Materials list

Agenda and slides as circulated in preparation for the meeting:



ESPP GA slides  
2-12-2014.pdf

## **Developments and ESPP actions since launch in 2013**

Chris Thornton summarised rapidly developments and ESPP since launch of the Platform in mid-2013  
Meetings organised by ESPP:

### **Phosphorus policy developments**

- EU Commission conclusions from **Sustainable Phosphorus Communication** (SWD 2014)263, 1/8/2014
- EUC **Circular Economy Communication** COM(2014)398, 2/7/14
- P added to EU “**Critical Raw Materials**” list 5/2014
- **Sweden** : sustainable P policy consultation

- **Netherlands:** struvite fertiliser legislation
- **Denmark:** recycling policy
- **Baltic:** nutrient recycling objectives
- **Germany:** P-recycling proposals, proposed sludge policy
- **Switzerland:** P-recycling regulatory consultation

### **Summary of the EU Commission conclusions to the Sustainable Phosphorus Communication consultation** (August 2004, see [SCOPE Newsletter](#) 107)

Need for an integrated EU policy on P including :

- monitoring of P flows
- cooperative agreements with P-rock producing countries
- reinforcing implementation of existing environmental legislation
- incentive systems to encourage efficient & appropriate P use
- reduce P losses in agriculture, develop balanced fertilisation
- fund joint stakeholder projects through EU policies
- review of national/regional policies
- develop a common EU approach to P recycling
- address P losses in food wastes
- prevent soil contamination from fertilisers or recycling
- define research needs to support phosphorus sustainability
- define best practices, include P in innovation policies
- stakeholder organisations and platforms
- awareness raising

### **Key points of EU Commission Communication ‘Towards a Circular Economy’** (July 2014, see [SCOPE Newsletter](#) 105). Phosphorus is one of five materials targeted for action:

*“Recycling of phosphorus: Phosphorus is a vital resource for food production, but it has significant security-of-supply risks and its current use involves waste and losses at every stage of its lifecycle.*

*... The Commission is considering developing a policy framework on phosphorus to enhance its recycling, foster innovation, improve market conditions and mainstream its sustainable use in EU legislation on fertilisers, food, water and waste.”*

### **International developments**

- **US/Canada: NAPPs** (North America Phosphorus Partnership) proposal (see [SCOPE Newsletter](#) n°100)
  - following from P-RCN meetings
  - led by Arizona State University
  - launch Washington 19th May 2015
- **4th Global Sustainable Phosphorus Summit**, Montpellier, France, 9/2014 (see [SCOPE Newsletter](#) n°104)
- **GPNM (Global Partnership on Nutrient Management)**
  - May 2014 task force of 3 to define global action on P
    - Arnoud Passenier
    - stakeholder consultation underway
  - Next meeting 11-12 December 2014, Washington
  - Experience of International Nitrogen Initiative (INI)
  - P-governance proposals to UNEP GPA convention meeting 2016
  - GPA = *UNEP Global Programme of Action for the Protection of the Marine Environment from Land Based Activities*

### **ESPP actions and inputs**

- ESPP input to EU Consultation on Sustainable Phosphorus (see [SCOPE Newsletter](#) n°95)
- European Economic and Social Committee Opinion on “Sustainable Use of Phosphorus”  
<http://www.eesc.europa.eu/?i=portal.en.nat-opinions.30554>
- UK Parliamentary Office of Science and Technology briefing on phosphate resources (see [SCOPE Newsletter](#) n°107)
- ManuResource position on manure recycling and Nitrates Directive (12/2013) (see [SCOPE Newsletter](#) n°100)
- EU Fertilisers Regulation recast: (see [SCOPE Newsletter](#) n°104)
  - ESPP Observer status
  - next meeting 15th & 16th December

- REACH and “recovered” phosphates (see [SCOPE Newsletter n°98](#))
  - ESPP telcon 19/12/2013
  - REACH struvite dossier 2013 Berlin Wasser
  - ESPP letter to EU Commission 13/12/2014
- REACH and digestate: ESPP letter to EUC 13/1/14
- ESPP/WssTP position on magnesium scarcity
- ESPP actions addressing R&D:
  - Circulation information Horizon 2020 calls
  - ESPP input EUC consultations on H2020 orientations
  - Input WssTP proposals on water in H2020
  - ESPP website “opportunities/projects” pages (under construction)
  - Support / contacts for various R&D projects / proposals (European, national)
- Biorefineries:
  - ESPP collaboration BioRefine, Arbor
  - EU Commission meeting, Brittany, 7/2014
  - DG Enterprise: regions-biorefineries initiative

### ESPP outreach activities

- **SCOPE Newsletter**: 50 000 emailing list (transferred from Cefic-PAPA), 17 issues since ESPC-1 Brussels March 2013, summaries of scientific publications, conferences, regulatory developments, move to electronic / mobile format planned, 30-40 new subscribers online per month.
- **SCOPE Newsletter** special “**sustainable phosphorus society vision**”, published as **SCOPE Newsletter** n°106 at SPS4, 110 contributions received, 25 selected
- **ESPP website** [www.phosphorusplatform.eu](http://www.phosphorusplatform.eu) - re-launched after various problems, now managed by FHNW Switzerland: news, opportunities/projects, business cases, P-REX e-market (launched 11/2014), ESPC2 pages, events listing
- **Twitter** @phosphorusfacts : 300 tweets, 422 followers (up from 320 in July 2014)
- 4-page **flyer**
- **Stuart Ravenscroft**, intern Brussels / Basel (FHNW) June – August 2014: contacts with prospective Members, Baltic
- France Chambers of Agriculture meeting 11/2014

### ESPP outreach: participation in meetings and conferences

- Green Alliance Circular Economy, London, 4/2013; RBB9 (BioRefineries), Antwerp 6/2013
- RBB10, Spain, 6/2014; Fertilisers Europe phosphorus committee, Brussels, 6/2013
- P-REX, Podebrady, 9/2013; Decadmiation (Fertilisers Europe), Brussels, 10/2013
- UNIFA (French fertiliser & soil amendment ass.), Paris, 11/2013
- IWW (Int. Water Week), Amsterdam 11/2013; DPP (German P Platform launch), 11/2013; Thames Water/Ostara plant launch, Slough, 11/2013
- ManuResource (manures), Brugge, 12/2013;
- AD (Anaerobic Digestion) Europe, Dublin, 2/2014; ARBOR, Brussels, 3/2014
- IFA (International Fertiliser Association), 3/2014
- Phosphates 2014 (CRU industry conference), Paris, 3/2014
- COPA-COGECA phosphorus in agriculture, Brussels, 3/2014
- WssTP water resource recovery Horizon 2020 input preparation, Brussels, 2/2014
- EU Commission Brussels Green Week, 6/2014, Toronto P-recycling seminar 18/6/2014
- DG Environment / Closing Mineral Cycles, Brussels, 18/11/14
- WssTP water resource recovery Horizon 2020 input, Brussels, 13/11/14
- EU Commission Regions Circular Economy, Brittany, France , 8-9 July 2014
- 4th global Sustainable Phosphorus Summit, Montpellier, France, 1-3 Sept 2014
- P-REX summer school, Basel, 9-10 Sept 2014
- i-net CleanTechnology P-recycling in Switzerland, Basel, 11/9/14
- EU Critical Raw Materials assessment meeting, Brussels, 30/10/14  
French national assembly of Chambers of Agriculture 4/11/14
- SUSPHOS / ICSPC, Firenze, 4-5 December 2014
- Nutriplanta, Lisbon, 6-8 December 2014

## ESPP website status

Anders Nättorp, FHNW, explains that the website is now being largely updated, after transfer away from Cranfield who proved not able to manage the site. He presents the following slides:



Nättorp ESPP slides  
2-12-14.pdf

He explains that in 2015, resources will be dedicated to partly to updating and completing the website structure (Members' pages, success stories, links ...) including regular updates of information and partly to priority improvements identified as follows:

- Relaunch of the **SCOPE Newsletter**: optimisation of the e-mail and online - Newsletter
- New layout
- Success stories on the webpage as support for ESPC2
- Establishment and promotion of "Inventory of competences"
- Updating and extension of "Links and Resources" - section including videos, tools etc.
- Establishment of a common server space for sharing and working on web-related content (with logos, pictures, contacts, manuals)

It is emphasised that the website is open to collaboration with other organisations, in order to optimise technical resources and audience. The following are already implemented:

- Sharing of "events" page with NAPPs North America
- Visibility of Sustainable Phosphorus Blog on homepage (replaces non-functional ESPP blog.
- Hosting of P-REX E-Market, putting producers of recovered phosphorus products in contact with users and buyers. This is now operational and is hosted on the ESPP website, see press release below



E-market press  
release 11-12-14.pdf

## Status and development of Platforms

- **ESPP membership and commitment to date:**
  - Paid or committed to date: 3 national governments / platforms, 3 regional authorities, knowledge institutes, 10 companies, In kind = 9
  - development inhibited since mid 2014 because of absence of legal structure able accept members



- **Netherlands Nutrient Platform** [www.nutrientplatform.org](http://www.nutrientplatform.org)
  - 2010
  - Legally part of Netherlands Water Partnership
  - Paid member ESPP
- **Flanders Nutrient Platform** <http://www.vlakwa.be/nutrientenplatform>
  - 2012
  - Hosted by Vlakwa
  - Paid member ESPP

- Confirmed Platform initiative - **UK** - DEFRA / EA paying ESPP Partner 2014-2015
  - Highest number of ESPP members
  - Meetings ESPP London 24/9/13, BioRefine Leeds 12/11/14
  - Scotland: decision pending
  - Objectives and questions:
    - proposal = establish a moderated network within ESPP (candidates: IsleUtilities, Link2Energy)
    - initial support possible by BioRefine
    - funding: proposal XX % of UK members'/partners' fees ?
    - P network or nutrient network ? **Action 23**
- Phosphorus Platform initiative – **Germany** – not yet ESPP member
  - [www.deutsche-phosphor-plattform.de](http://www.deutsche-phosphor-plattform.de)
  - Meetings 15/11/2013, 22/9/2014, 21/10/2014
  - Initial initiative = Fraunhofer IWKS Alzenau
  - Decision 22/9/14: establish as Not-for-Profit Association: now pending adoption of statutes, election of Board, President, ... **Action 24**
- Phosphorus Platform project – **France**
  - Meeting Brittany 8/6/14
  - Significant interest
  - Specific national issues / opportunities: need for language translations, France competence in standards, manure valorisation, link to European projects
  - Orientation towards a French network within ESPP
  - No commitment yet from French Ministries **Action 25**
- **Other:**
  - Czech Republic, Michaela Pokorna, ASIO, is interested in establishing a platform. P-REX may be able to support this **Action 26**
  - Antonio Giménez Lorang interested to develop a network in Spain **Action 27**
  - Anne Haarr, Norwegian Water = possible project in Norway **Action 28**
  - Baltic – explore cooperation with Baltic Sea Action Group [www.bsag.fi](http://www.bsag.fi) (Stuart Ravenscroft contact) **Action 29**

Three different models for national platforms are proposed:

1. national Platform has its own legal entity - pays 10 K€ fee to ESPP ?
2. national network is funded by national government / national member companies pay ESPP / national platform is an ESPP member if company fees > 10 K€
3. companies and national governments pay ESPP / ESPP returns 30% of fees to 'moderator' or national network

It is agreed that national platforms should be allowed to have any of these different models, to correspond to local needs and resources. It is emphasised **the need to ensure that national "Platforms" are coherent with ESPP**, in terms of working together, objectives, openness and transparency, funding mechanisms.

Consider offering a discount on ESPP membership to members of national platforms.

Membership of a national platform does not result in receiving all ESPP services "for free". ESPP membership gives access to a different level of contacts and visibility. **Action 30**

## Establishing ESPP as a not-for-profit association

Chris Thornton explains that ESPP was initially "launched" without establishing a legal entity, by hosting within another organisation (EPE). It is now proposed to establish an independent legal entity in order to ensure ESPP's financial and decision-making independence and to develop the platform.

It is proposed to establish ESPP as a not for profit association (Association Sans But Lucratif) under Belgian law. ASBL is identified as adequate and less complicated than the International association type AISBL. The French version of the statutes is the legally valid one, but the English translation is provided for information. He presents the proposed statutes, in particular the Objectives, Actions, organisation clauses, delegations and the distinction between Member and Partner status. This information is given in detail in the proposed statutes.

Chris Thornton explains that formalities to be carried out at this meeting are:

- ➔ **Establishment of the ASBL association**, by signature of the establishment minutes and (French) statutes by member organisations present
  - Members only make these formalities (not Partners)
  - Additional Members can then be added progressively (companies and organisations not present)
  - After other Members have come in, a new General Assembly could be organised (physical or electronically) to widen the Board
- ➔ **Election of the Board** (Conseil d'Administration) by the Members, including at least 3 physical persons (President, Secretary, Treasurer). In addition to this minimum of three physical persons, the Board can also include other persons or organisations, nominated by Members.
- ➔ Voting by General Assembly (Members) of **level of Fees** (same fees are applicable for Partners)
- ➔ Voting by General Assembly of **power of attorney** to an accounting company (Tax Consult) to carry out legal formalities and to open and manage a bank account for ESPP

It is discussed whether the association should be a **“nutrient” or a “phosphorus” platform**, and decided that it should be a Sustainable Phosphorus Platform and concentrate on the specific issues around P, whilst also considering synergy and interactions with other nutrients where relevant.

Clarification was given on the following point in the statutes *“Actions ... facilitate dialogue concerning proposals for policies, regulation and actions to further phosphorus sustainability in Europe”*. At the meeting it was stated that ESPP is not a lobbying organisation. It is noted that the statutes specify in Art. 19 *“positions, documents or communications ... should generally represent consensus of ESPP Members and Partners”*.

### Initial ESPP Members

The organisations present agree to become Members of ESPP, accept the ESPP statutes, and agree to pay the annual Membership Fee for 2014-2015:

- Fachhochschule Nordwestschweiz (FHNW), Bahnhofstrasse 6, 5210 Windisch, Switzerland
- Fertilizers Europe asbl, Avenue E. Van Nieuwenhuysse 6, B-1160 Bruxelles, Belgium
- Ministerie van Infrastructuur en Milieu (IenM), Duurzaamheid, Piesmanweg 1-6, Den Haag, Postbus 20901, 2500 EX Den Haag, The Netherlands
- Nutrients Recovery Systems bvba, Fr. Rooseveltlaan 108/1, B8790 Waregem, Belgium
- Outotec GmbH & Co KG, Ludwig-Erhard Strasse 21, D-61440 Oberursel, Germany
- Phos4Ever BVBA, Orteliuskaai 2, 2000 Antwerpen, Belgium
- Terra Humana Clean Technology Engineering and Manufacturing Ltd., Phosphorous Recycling Laboratory, Gyula Manor, 8154 Polgardi, Hungary

### Member and Partner Fees

The following fees are votes unanimously by the Members present

Covers to end 2015, Includes small stand at ESPC2, Berlin, 2015

- |                                   |          |
|-----------------------------------|----------|
| • Company                         | 6 000 €  |
| • SME                             | 2 000 €  |
| • National governments, platforms | 10 000 € |
| • Regional authorities            | 4 000 €  |
| • NGOs, research institutes, etc  | 2 000 €  |

### Power of attorney

The Members present unanimously vote the following decision:

*“The members of ESPP meeting at the establishment assembly give Power of Attorney to Tax Consult, av. du Dirigeable 8, 1170 Brussels to carry out legal declaration and publication obligations in Belgium, open and manage bank account, represent to income tax and VAT authorities”*

### Election of the Board

The following persons are proposed and elected unanimously by the Members as the Board of ESPP:

- President : Arnoud Passenier
- Treasurer : Sofie Bouteligier (not present but has previously confirmed her candidature by email)
- Secretary: Anders Nättorp
- Fertilisers Europe (as a legal entity)
- Ludwig Hermann

## Signatures

The representatives of the 7 organisations (Members) listed above sign the ESPP statutes (in French), the establishment minutes and the power of attorney, and the election of the Board.  
The English translation of the statutes as signed is here:



ESPP English  
Statutes signed 2-12-

## Other decision making and involvement

In complement to the ESPP association's formal decision structures (General Assembly = all Members, Board), both Members and Partners are invited to be involved in active working groups:

- Established **National Platforms** – establish regular telcons
- **SCOPE Newsletter editorial committee** (designated 5/6/2014) :
  - Arno Rosemarin (SEI)
  - Annemiek Strijkers (Netherlands Platform)
  - Leon Korving (Wetsus – P-recycling technology aspects)
  - Lancaster University (agriculture and soil themes)

**ESPP steering committee** designated at 5 June 2014 meeting

- ESPP President Arnoud Passenier
- Representatives of National Platforms which are ESPP members (i.e Netherlands, Flanders, UK = DEFRA)
- FHNW (website)
- Arno Rosemarin (SEI, knowledge institute)
- Bengt Hansen (Kemira, industry)
- Laetitia Six (Fertilisers Europe, industry)

## ESPP actions 2015

### Priority 2015 actions

The following were identified as **priority actions for 2015**:

- Networking, access to expertise, experience
  - structure in IT data base
  - member webinars on thematic / technical questions
- Awareness : website / **SCOPE Newsletter**, social media
  - communicating opportunities, innovation, success stories
- Regulatory monitoring: EU Commission thematic contacts
- International: GPNM / UNEP-GPA
- ESPC2 Berlin
- Develop national Platforms
- Enlarge action to Baltic, Danube
- EU Critical Raw Materials – P flows data
- Stakeholder consultation on R&D priorities

### **Networking expertise and contacts**

This is a priority identified by the July ESPP meeting **Action 13**

Proposed approach:

- Invest in IT support system to network expertise, competence, experience, projects ...
- Proposal: use an existing system / organisation
  - requests made: InnovationUK, Isle Utilities
- Combine with targeted networking tools (e.g. members webinars) and ESPP website "Opportunities" pages  
**Action 2**



## European Commission thematic contacts **Action 33**

It is agreed to send ESPP letters, requesting discussions of thematic integration of P into policy to:

- SANCO
- Agriculture and Rural Development
- Environment (e.g. water policy, waste)
- Research
- External Action (international)
- Enterprise (beyond fertilisers, raw materials)

## Other 2015 actions

### SUSPHOS videos project **Action 35**

As a follow-on from ESPC1 P-challenge animation, SUSPHOS propose with ESPP to make a series of short videos on different questions of the Phosphorus Challenge

- not duplicate existing material
- series of short 2-3 minute videos
- editorial committee SUSPHOS – ESPP - funders
- different themes, e.g.: P in diet, P and food security, eutrophication, P in industry, P-recycling, manure processing ...
- format (animation, interviews) variable, packing coherent

The four ESPC1 videos are available at <https://www.youtube.com/user/PhosphorusPlatform/videos>

- The Phosphorus Challenge – general introduction (2'30")
- Phosphorus and food security (2'30")
- Phosphorus and the environment (2'10")
- Geopolitical consequences (2'10")

Wouter De Buck indicates that language versions (using subtitles) can be produced cheaply and significantly increase impact. Kirsty Ross indicates the interest of MOOC (massive open online courses) and Lancaster Univ. can provide experience in this area. It is also suggested to work with Arizona State University and NAPPS.

**Other actions** proposed by participants:

- Action on phosphorus at Expo2015: Feeding the Planet, Energy for life Milano, 1 May-31 Oct 2015, Milano, Italy <http://en.expo2015.org/> Members/platforms to see if phosphorus can be integrated into national stands. Wouter de Buck to coordinate. **Action 22**
- Contact the IWA resource recovery from water (RrfW) cluster (Willy Verstraete, Ghent University, Peter Cornel, TU Darmstadt, <http://www.iwahq.org/26z/communities/clusters/iwa-resource-recovery-cluster.html> ) to look at possible cooperation, in particular product-to-market. Ludwig Hermann to do **Action 31** - NOTE: IWA Nutrient Removal and Recovery Conference, 18-21 May 2015, Gdansk, Poland <http://www.iwahq.org/2jw/events/iwa-events/2015/nrr2015.html>
- implement the Memorandum of Understanding signed between the national platforms and ESPP to promote successful business cases, e.g. in ESPC2 **Action 32**
- proposal to organise a meeting in EU Parliament **Action 34**
- Dirk Halet is preparing a contribution to the EU consultation on water reuse to take phosphorus recycling into account [http://ec.europa.eu/environment/consultations/water\\_reuse\\_en.htm](http://ec.europa.eu/environment/consultations/water_reuse_en.htm) **Action 37**

## R&D workshop Berlin 4<sup>th</sup> March 2015

Tomas Turecki, DG Research presents the workshop on phosphorus recycling R&D (co-organised by DG Research, P-REX and ESPP in Berlin on 4<sup>th</sup> March 2015, the day before the ESPC2 conference.



Turecki ESPP slides  
02\_12\_2015.pdf

The workshop will include:

- morning : presentation of projects underway
- catalogue of projects
- discussion of research and demonstration needs
- barriers and conditions for deployment

Conclusions will be presented at ESPC2 conference and will be summarised in a short report, which should input to defining future H2020 funding calls.

## ESPC2 – 2<sup>nd</sup> European Sustainable Phosphorus Conference Berlin 5-6 March 2015

C. Kabbe explains that organisation is now clarified:

- Fraunhofer IKWS = onsite logistics, registration, documents
- C. Kabbe (KWB) = programme content
- ESPP = posters, stand selection / commercialisation
- Netherlands Water Partnership = communications/media, slogan, design

A web space for the conference has been established on the ESPP website [www.phosphorusplatform.eu](http://www.phosphorusplatform.eu) and made available to Fraunhofer, but the only content to date is that initially put online by ESPP.

Following the call for posters/presentations made by ESPP, around 90 submissions have been received.

The meeting designates the following committee to select posters and presentations for the programme:

- Christian Kabbe, Germany, KWB, in charge of ESPC2 programme
- Chris Thornton, ESPP
- Kimo Van Dijk, Netherlands, Wageningen
- Jennifer Bilbao, Germany, Fraunhofer
- Laetitia Six, Fertilisers Europe
- Franziska Schmacka, Germany, Rostock
- Anders Nättorp, Switzerland, FHNW

## Phosphorus and the EU list of “Critical Raw Materials”

Chris Thornton explains that “**Phosphate Rock**” is on the EU list of (20) “**Critical Raw Materials**” since May 2014 (see [SCOPE Newsletter 104](#))

This is important in facilitating that P is taken into consideration in EU policies.

The list is currently under an assessment (MSA), contracted by DG Enterprise to Deloitte, who have subcontracted ‘phosphate rock’ to Charles Univ. Prague (Tomas Hak).

ESPP (represented by Kimo Van Dijk, Willem Schipper, Arno Rosemarin) participated at a workshop organised by DG Enterprise to discuss this process on 30/10/2014. A number of issues were raised, including inadequate time/budget to collect reliable data on phosphorus and the question of whether the critical ‘material’ should be phosphorus (in any form, P) or phosphate rock.

**Kimo Van Dijk summarises the approach of this MSA assessment, and underlines various difficulties with insufficiency or non-reliability of available data.**

Carlo Leifert: **China** sees phosphorus as highly critical.

China is also concerned about cadmium content.



Kimo Van Dijk slides  
ESPP GA 2-12-14.pdf

Participants underline that **supply vulnerability** of P is not so much about total world resources, but about geographical concentration and market access.

Alexis Van Maercke, DG Enterprise: **inclusion on the list of “Critical Raw Materials” is taken into account in different EU policies** including DG Trade actions, definition of R&D priorities (Horizon 2020 looks at production, substitution, efficiency, recycling). Future legislation may refer to “Critical Raw Materials” so that a substance will be concerned if and only if it is on the list

Ludwig Hermann: companies can use the list for **defining company corporate policies**.

It was discussed which forms of P are potentially critical for the EU, with the following conclusions:

- **P in general** (the element in whatever form) = potentially yes, essential for agriculture, supply vulnerable
- **Phosphate rock** – no : limited user industry in Europe, largely substitutable by phosphoric acid
- **Low cadmium phosphate rock** – no : not critical with current proposed future cadmium limits, decadmiation technically possible for some fertiliser processes
- “Green” **phosphoric acid** (merchant grade acid MGA) = no, better to look at P in general
- **Purified acid** = no – purification technology not a bottleneck
- **White phosphorus** = potentially yes – no production in Europe, supply very concentrated and vulnerable, critical for a number of industries

### After discussion, the following actions were defined:

- Remain in contact with T. Hak and try to improve the approach and data of the ongoing study, within the budget/time constraints and objectives fixed (timeframe – early 2015) **Action 36**
- Prepare a short (several pages only **Action 37**) document outlining why the candidates for the Critical Raw Materials list should be P in general and White Phosphorus (not phosphate rock) – supply issues, uses. This document should also outline the issues with data collection. DG Enterprise confirm that they would be interested to receive this.
- Longer term: promote the need to improve European phosphorus flow data (need for budgets to fund such data collection)

A working group is established to pilot the above: Antoine Hoxha, Christian Kabbe, Edward Someus, Ludwig Hermann, Willem Schipper, Kimo Van Dijk, Roland Scholz, Carlo Leifert.

### List of actions

|  | Decided | Action | Who ? | Status |
|--|---------|--------|-------|--------|
|--|---------|--------|-------|--------|

#### Done

|    |        |   |           |      |
|----|--------|---|-----------|------|
| 4  | 5/6/14 | Transfer website from Cranfield to technical supplier competent in Joomla |           | DONE |
| 5  | 5/6/14 | <b>SCOPE Newsletter</b> vision special                                    | ChTh      | DONE |
| 18 | 5/6/14 | Establish conference committee ESPC2                                      | DPP, ChTh | DONE |
| 19 | 5/6/14 | Contract Christian Kabbe for leadership of ESPC2                          | DPP       | DONE |
| 14 | 5/6/14 | Coordinate IT tools   | SR        | DONE |

#### Pending from previous meetings

|    |        |  |  |          |
|----|--------|--|--|----------|
| 1  | 5/6/14 | Possible new members contacts:<br>- Prayon : ChTh - via ICL<br>- CGT Tunisia ?????? Algeria: | ChTh via ICL<br>ChTh                             |          |
| 2  | 5/6/14 | Organise members' technical/thematic seminars  | Propose themes: ChTh<br>Technical Platform: Arno |          |
| 3  | 5/6/14 | Site visits for ESPP network   | ChTh + members                                   |          |
| 6  | 5/6/14 | P vision high-level group  | ChTh 1-page proposal                             |          |
| 7  | 5/6/14 | Establish <b>SCOPE Newsletter</b> editorial committee  | ChTh   |          |
| 8  | 5/6/14 | Widen ESPP steering committee  | ChTh   |          |
| 9  | 5/6/14 | Organise contaminants P recycling meeting Denmark or Finland                                 | ChTh, SR<br>Contacts: Bengt Hansen               |          |
| 10 | 5/6/14 | Nutrient conference Danube region  | ChTh   | ON HOLD  |
| 11 | 5/6/14 | Input H2020 consultation (water R&D)<br>- ESPP<br>- members                                  | ChTh (refer FP slides)<br>members                |          |
| 12 | 5/6/14 | LinkedIn   | Arno Rosemarin                                   |          |
| 13 | 5/6/14 | Database of expertise, coherent with members pages, inventory ...                            | ChTh, FHNW                                       |          |
| 15 | 5/6/14 | Feed system for targeted information   | FHNW, SR   |          |
| 16 | 5/6/14 | Project "sanity check" offer   | ChTh + W Schipper                                |          |
| 17 | 5/6/14 | Collect success stories for ESPC2 (and also website)   | All, ChTh, FHNW                                  | ongoing  |
| 20 | 5/6/14 | Contract communications agency for ESPC2   | C Kabbe, DPP                                     | underway |
| 21 | 5/6/14 | Finalise programme ESPC2, budget, invite high-level speakers                                 | C. Kabbe, DPP                                    | underway |

## New from this meeting

|    |         |   |   |  |
|----|---------|---|---|--|
| 22 | 2/12/14 | Presence Milano Expo 2015   | WdB   |  |
| 23 | 2/12/14 | Establish UK network within ESPP, with DEFRA, Scotland                                  | ChTh, BioRefine                                     |  |
| 24 | 2/12/14 | Establish German Platform as not-for-profit association, elect Board and President, etc | AP, DPP   |  |
| 25 | 2/12/14 | Establish France network within ESPP, engage Ministries                                 | ChTh, BioRefine                                     |  |
| 26 | 2/12/14 | Czech Republic platform project   | ASIO, P-REX   |  |
| 27 | 2/12/14 | Spain network project   | ChTh  |  |
| 28 | 2/12/14 | Norway contacts   | ChTh, A Rosemarin                                   |  |
| 29 | 2/12/14 | Baltic network – coordination BSAG  | ChTh  |  |
| 30 | 2/12/14 | Ensure coherence of national platforms with ESPP  | ChTh – AP – established platforms (NL and Flanders) |  |
| 31 | 2/12/14 | Contact IWA P-recovery platform   | L Hermann   |  |
| 32 | 2/12/14 | MoU – promote business cases  | WdB   |  |
| 33 | 2/12/14 | EU Commission thematic letters  | ChTh  |  |
| 34 | 2/12/14 | Action towards EU Parliament  | WdB   |  |
| 35 | 2/12/14 | SUSPHOS videos project. Lancaster – MOOC. NAPPs   | Marissa de Boer                                     |  |
| 36 | 2/12/14 | Contact with T. Hak / Deloitte Critical Raw Materials MSA                               | Kimo Van Dijk                                       |  |
| 37 | 2/12/14 | Document on P, white P as Critical Raw Materials  | ChTh + cttee  |  |
| 38 | 2/12/14 | Contribution to EU consultation on water reuse  | Dirk Halet  |  |



European Sustainable Phosphorus Platform

ESPP Constitutive GA  
Brussels 2<sup>nd</sup> December 2014



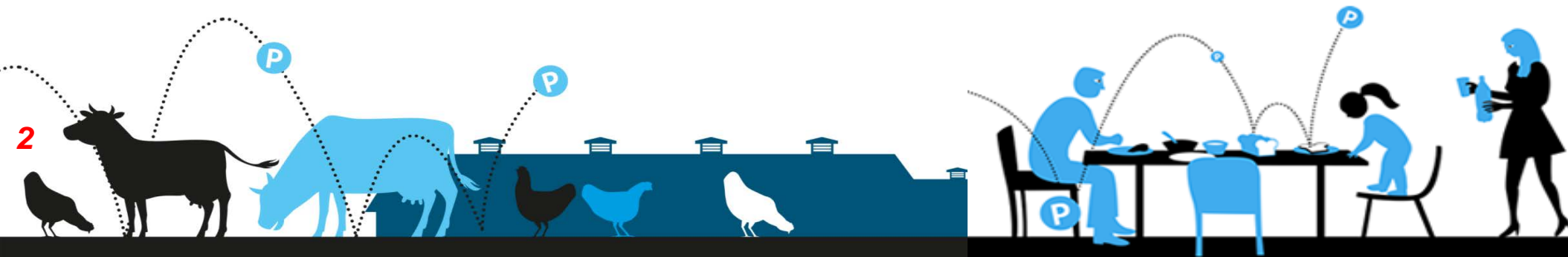
[info@phosphorusplatform.eu](mailto:info@phosphorusplatform.eu)



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



[@phosphorusfacts](https://twitter.com/phosphorusfacts)





# *Proposed agenda*

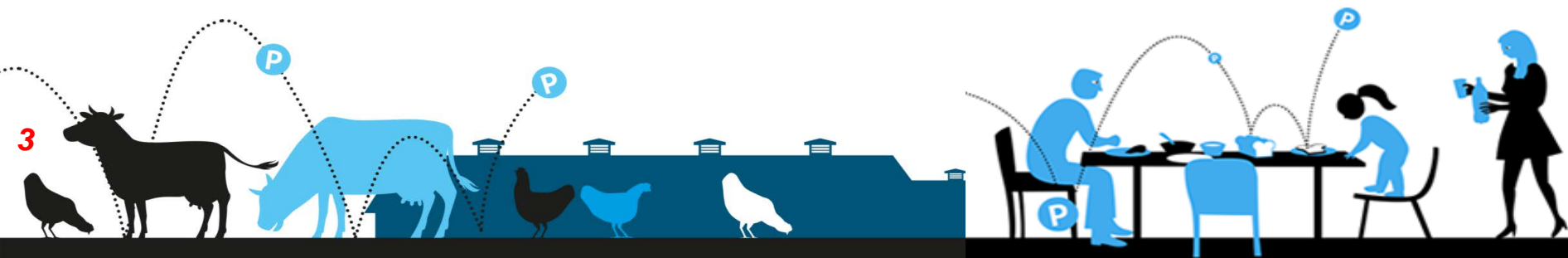
## 9h30 – round table

- welcome & participants
- rapid summary ESPP actions since 2013
- ESPP statutes, election of Board
- 2015 action plan and budget

## 12h30 – 14h00 lunch (sandwiches provided here)

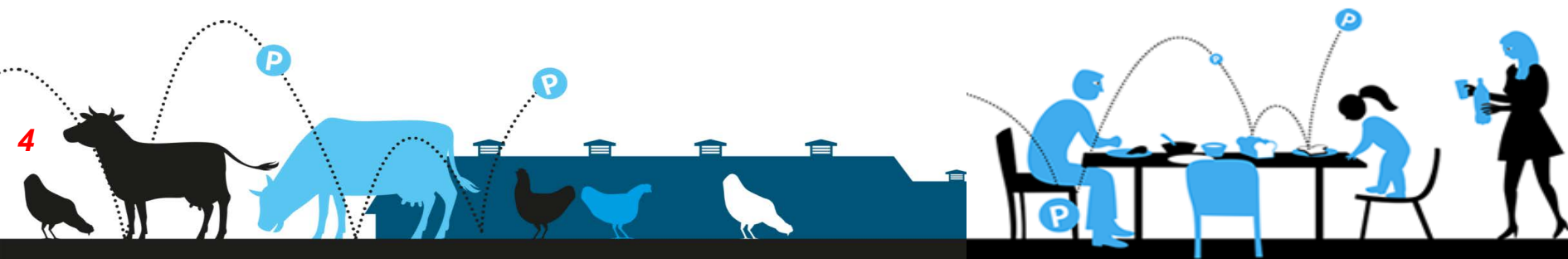
- P / P-rock on EU Critical Raw Materials list

## 16h30 close





# *ESPP actions to date and policy developments*





## *Phosphorus policy developments*

- EU Commission conclusions from Sustainable Phosphorus Communication (SWD 2014)263, 1/8/2014
- EUC Circular Economy Communication COM(2014)398, 2/7/14
- P added to EU “Critical Raw Materials” list 5/2014
- Sweden : sustainable P policy consultation
- Netherlands: struvite fertiliser legislation
- Denmark: recycling policy
- Baltic: nutrient recycling objectives
- Germany: P-recycling proposals, proposed sludge policy
- Switzerland: P-recycling regulatory consultation







## *ESPP actions: ESPP policy inputs*

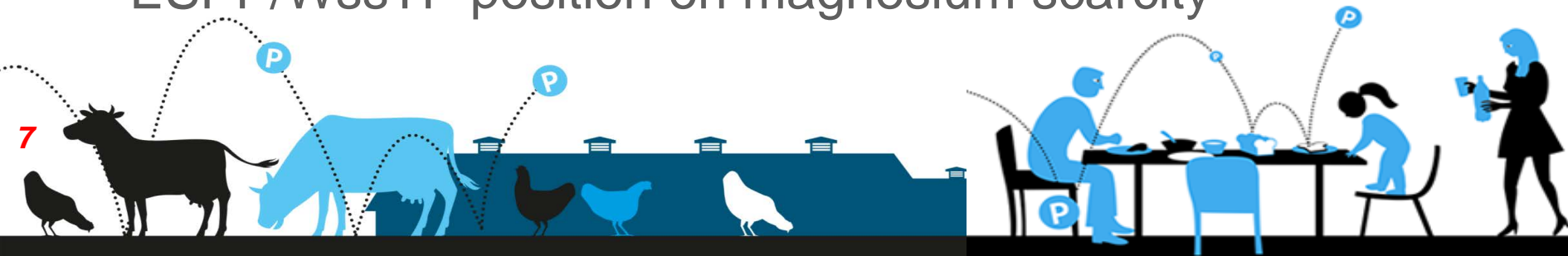
- ESPP input to EU Consultation on Sustainable Phosphorus (*see SCOPE n° 95*)
- European Economic and Social Committee Opinion on “Sustainable Use of Phosphorus”  
<http://www.eesc.europa.eu/?i=portal.en.nat-opinions.30554>
- UK Parliamentary Office of Science and Technology briefing on phosphate resources (*see SCOPE n° 107*)
- ManuResource position on manure recycling and Nitrates Directive (12/2013) (*see SCOPE n° 100*)





## *ESPP actions: EU policies P-recycling*

- EU Fertilisers Regulation recast: ([see SCOPE n° 104](#))
  - ESPP Observer status
  - next meeting 15<sup>th</sup> & 16<sup>th</sup> December
- REACH and “recovered” phosphates ([see SCOPE n° 98](#))
  - ESPP telcon 19/12/2013
  - REACH struvite dossier 2013 Berlin Wasser
  - ESPP letter to EU Commission 13/12/2014
- REACH and digestate: ESPP letter to EUC 13/1/14
- ESPP/WssTP position on magnesium scarcity





## ***EUC conclusions Sustainable P Communication***

Need for an integrated EU policy on P including :

- monitoring of P flows
- cooperative agreements with P-rock producing countries
- reinforcing implementation of existing environmental legislation
- incentive systems to encourage efficient & appropriate P use
- reduce P losses in agriculture, develop balanced fertilisation
- fund joint stakeholder projects through EU policies
- review of national/regional policies
- develop a common EU approach to P recycling
- address P losses in food wastes
- prevent soil contamination from fertilisers or recycling
- define research needs to support phosphorus sustainability
- define best practices, include P in innovation policies
- stakeholder organisations and platforms
- awareness raising

*See:*

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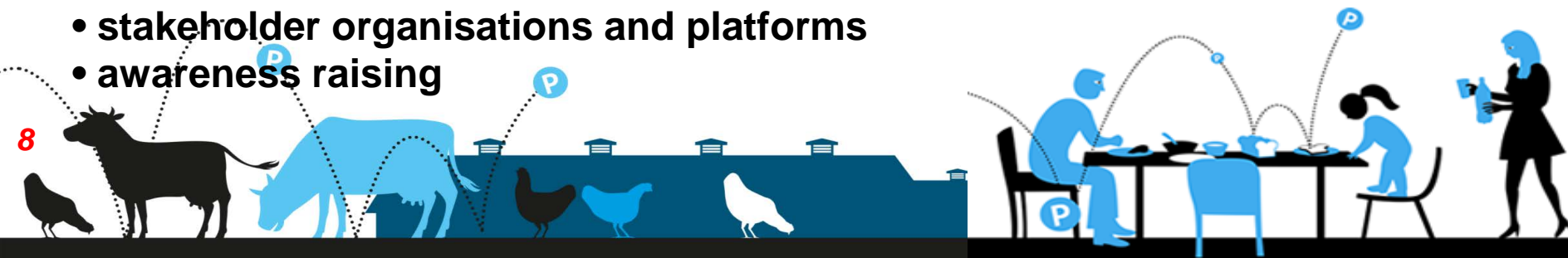
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SCOPE NEWSLETTER

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*N° 107*





## *EUC Communication Towards a Circular Economy*

**P = one of five materials targeted for action:**

*“Recycling of phosphorus: Phosphorus is a vital resource for food production, but it has significant security-of-supply risks and its current use involves waste and losses at every stage of its lifecycle.*

...

*The Commission is considering developing a policy framework on phosphorus to enhance its recycling, foster innovation, improve market conditions and mainstream its sustainable use in EU legislation on fertilisers, food, water and waste.”*

*See:*

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SCOPE NEWSLETTER

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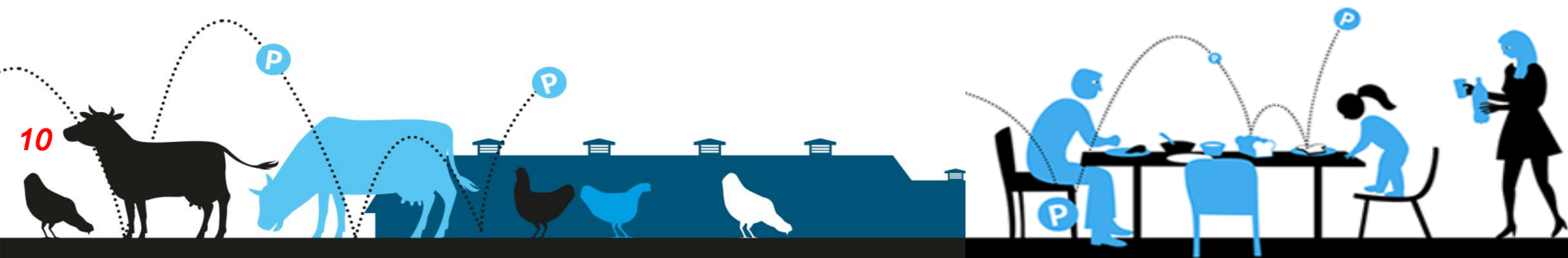
*N° 105*





## *Developments – international*

- US/Canada: **NAPPs** (North America Phosphorus Partnership) proposal ([see SCOPE n° 100](#))
  - following from P-RCN meetings
  - led by Arizona State University
  - launch Washington 19<sup>th</sup> May 2015
- 4<sup>th</sup> Global **Sustainable Phosphorus Summit**, Montpellier, France, 9/2014 ([see SCOPE n° 104](#))



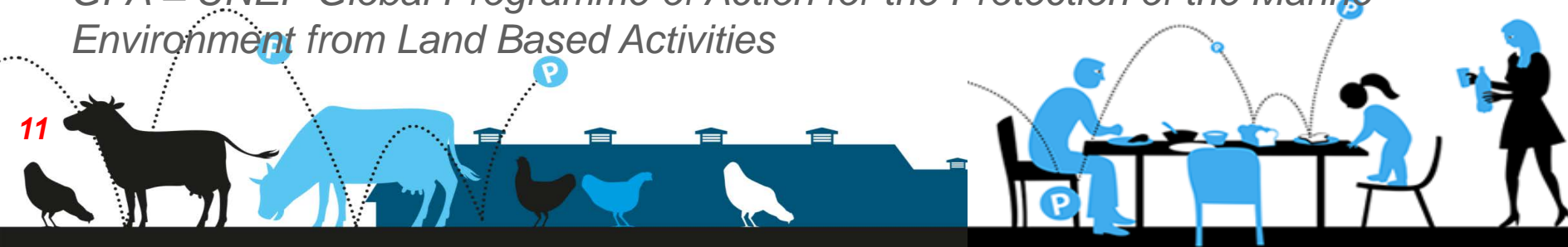


## *Developments – international*

### **GPNM** (Global Partnership on Nutrient Management)

- May 2014 task force of 3 to define global action on P
  - Arnoud Passenier
  - stakeholder consultation underway
- Next meeting 11-12 December 2014, Washington
- Experience of International Nitrogen Initiative (INI)
- P-governance proposals to UNEP GPA convention meeting 2016

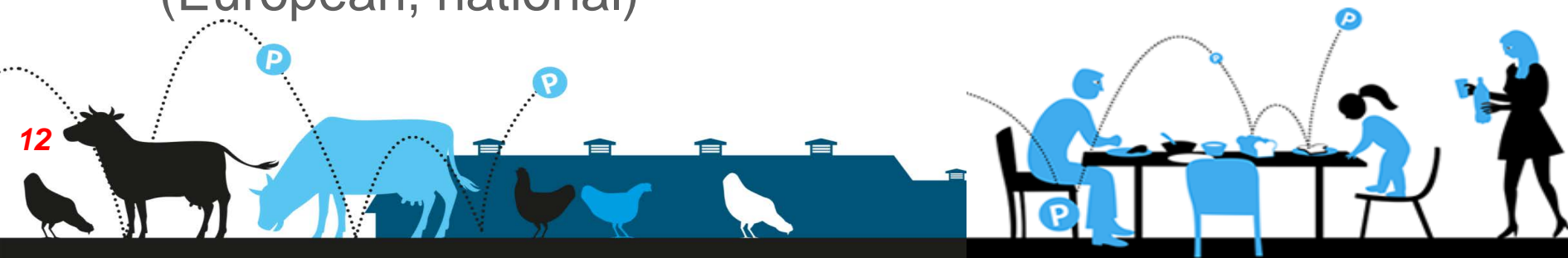
*GPA = UNEP Global Programme of Action for the Protection of the Marine Environment from Land Based Activities*





## *ESPP actions: R&D*

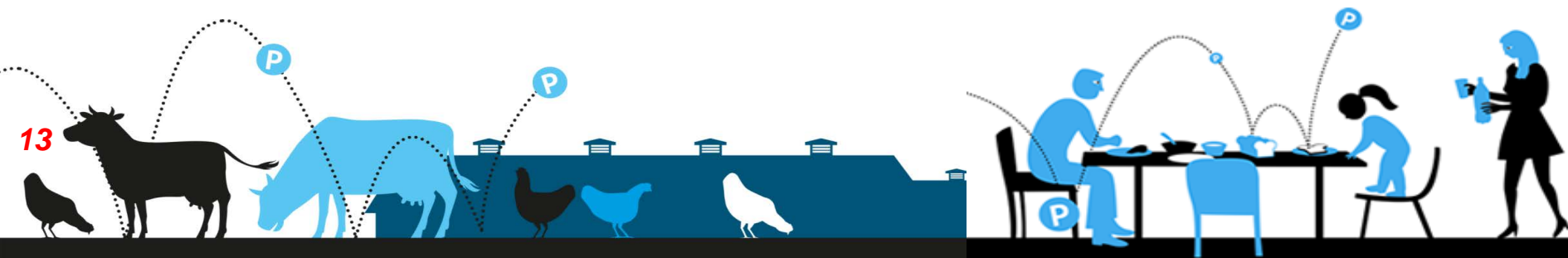
- Circulation information Horizon 2020 calls
- ESPP input EUC consultations on H2020 orientations
- Input WssTP proposals on water in H2020
- ESPP website “opportunities/projects” pages (under construction)
- DG Research workshop of P-recycling R&D projects Berlin, 4<sup>th</sup> March 2015 (day before ESPC2)
- Support / contacts for various R&D projects / proposals (European, national)





## *ESPP actions: biorefineries*

- ESPP collaboration BioRefine, Arbor
- EU Commission meeting, Brittany, 7/2014
  - DG Enterprise: regions-biorefineries initiative
- France Chambers of Agriculture meeting 11/2014







## *ESPP actions: outreach*

**SCOPE Newsletter:** 50 000 emailing list (transferred from Cefic-PAPA), 17 issues since ESPC-1 Brussels March 2013, summaries of scientific publications, conferences, regulatory developments, move to electronic / mobile format planned, 30-40 new subscribers online per day.

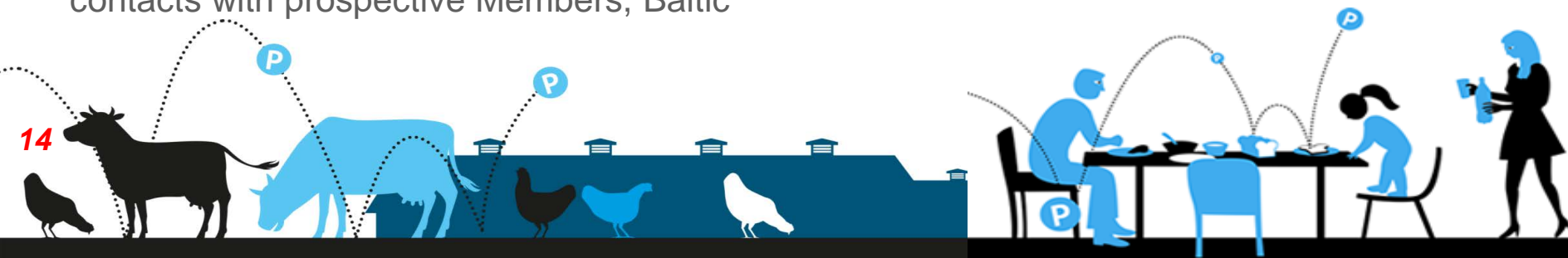
**SCOPE Newsletter special “sustainable phosphorus society vision”,** published as SCOPE n° 106 at SPS4, 110 contributions received, 25 selected

**ESPP website** [www.phosphorusplatform.eu](http://www.phosphorusplatform.eu) - re-launched after various problems, now managed by FHNW Switzerland: news, opportunities/projects, business cases, P-REX e-market (launched 11/2014), ESPC2 pages, events listing

**Twitter** [@phosphorusfacts](https://twitter.com/phosphorusfacts) : 300 tweets, 422 followers (up from 320 in July 2014)

**4-page flyer**

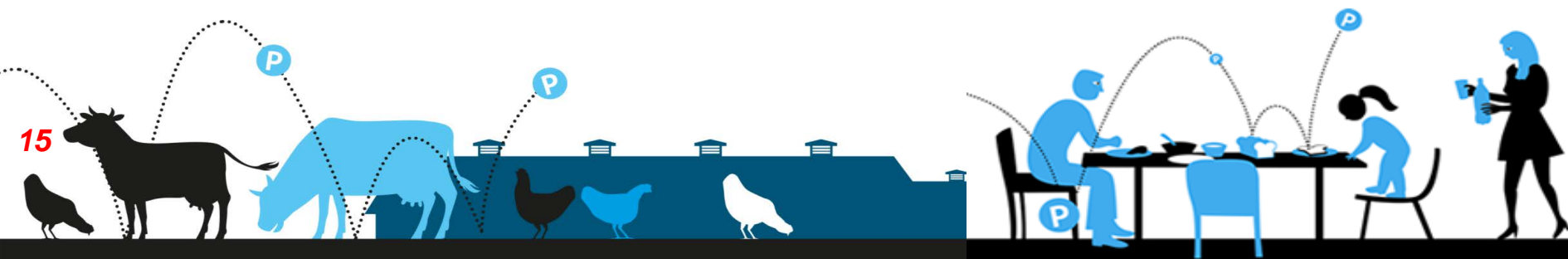
**Stuart Ravenscroft**, intern Brussels / Basel (FHNW) June – August 2014:  
contacts with prospective Members, Baltic





## ***ESPP actions: outreach***

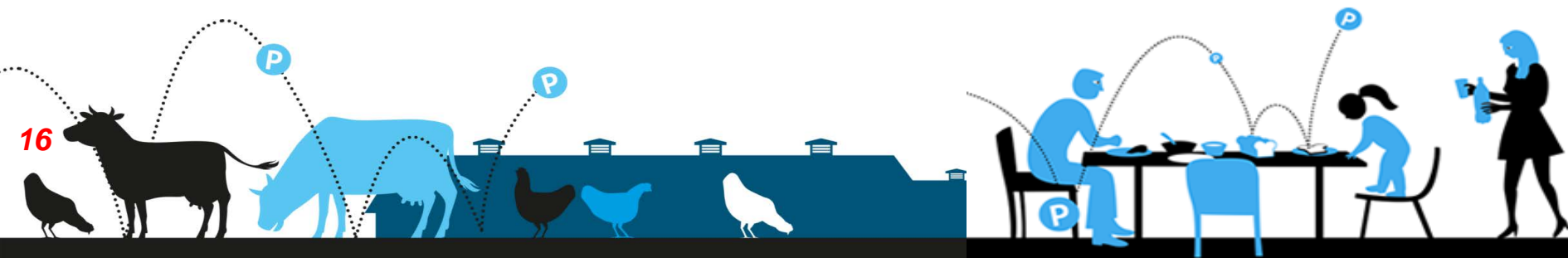
Green Alliance Circular Economy, London, 4/2013; RBB9 (BioRefineries), Antwerp 6/2013  
RBB10, Spain, 6/2014; Fertilisers Europe phosphorus committee, Brussels, 6/2013  
P-REX, Pödebrady, 9/2013; Decadmiation (Fertilisers Europe), Brussels, 10/2013  
UNIFA (French fertiliser & soil amendment ass.), Paris, 11/2013  
IWW (Int. Water Week), Amsterdam 11/2013; DPP (German P Platform launch), 11/2013;  
Thames Water/Ostara plant launch, Slough, 11/2013  
ManuResource (manures), Brugge, 12/2013;  
AD (Anaerobic Digestion) Europe, Dublin, 2/2014; ARBOR, Brussels, 3/2014  
IFA (International Fertiliser Association), 3/2014  
Phosphates 2014 (CRU industry conference), Paris, 3/2014  
COPA-COGECA phosphorus in agriculture, Brussels, 3/2014  
WssTP water resource recovery Horizon 2020 input preparation, Brussels, 2/2014  
EU Commission Brussels Green Week, 6/2014, Toronto P-recycling seminar 18/6/2014





## *ESPP actions: outreach*

- DG Environment / Closing Mineral Cycles, Brussels, 18/11/14
- WssTP water resource recovery Horizon 2020 input, Brussels, 13/11/14
- EU Commission Regions Circular Economy, Brittany, France , 8-9 July 2014
- 4<sup>th</sup> global Sustainable Phosphorus Summit, Montpellier, France, 1-3 Sept 2014
- P-REX summer school, Basel, 9-10 Sept 2014
- i-net CleanTechnology P-recycling in Switzerland, Basel, 11/9/14
- EU Critical Raw Materials assessment meeting, Brussels, 30/10/14
- French national assembly of Chambers of Agriculture 4/11/14
- SUSPHOS / ICSPC, Firenze, 4-5 December 2014
- Nutriplanta, Lisbon, 6-8 December 2014





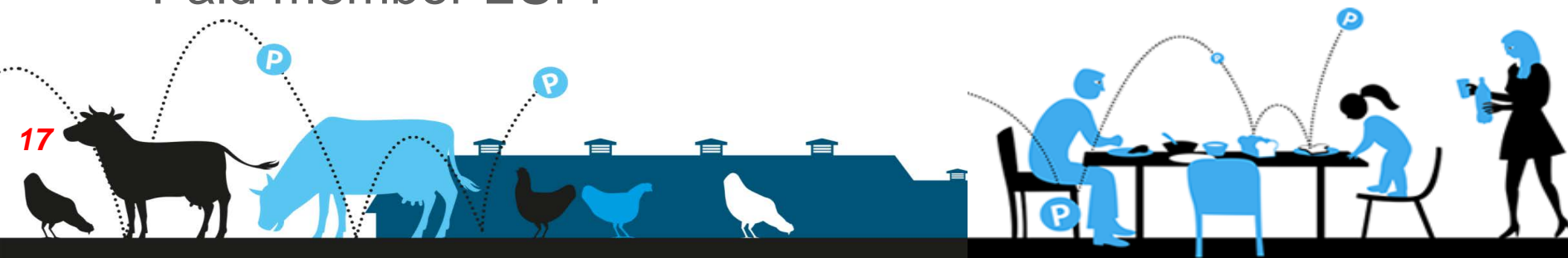
## *National Platform initiatives*

Netherlands Nutrient Platform [www.nutrientplatform.org](http://www.nutrientplatform.org)

- 2010
- Legally part of Netherlands Water Partnership
- Paid member ESPP

Flanders Nutrient Platform <http://www.vlakwa.be/nutrientenplatform>

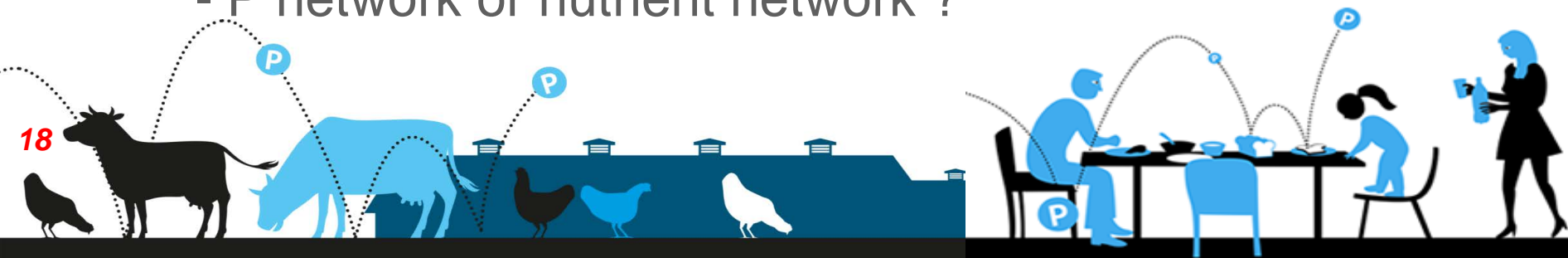
- 2012
- Hosted by Vlakwa
- Paid member ESPP





## *National Platform initiatives - UK*

- Highest number of ESPP members
- Meetings ESPP London 24/9/13,  
BioRefine Leeds 12/11/14
- DEFRA / EA paying ESPP Partner 2014-2015
- Scotland: decision pending
- Objectives and questions:
  - establish a moderated network within ESPP  
(candidates: IsleUtilities, Link2Energy)
  - funding: proposal XX % of UK members'/partners' fees ?
  - P network or nutrient network ?

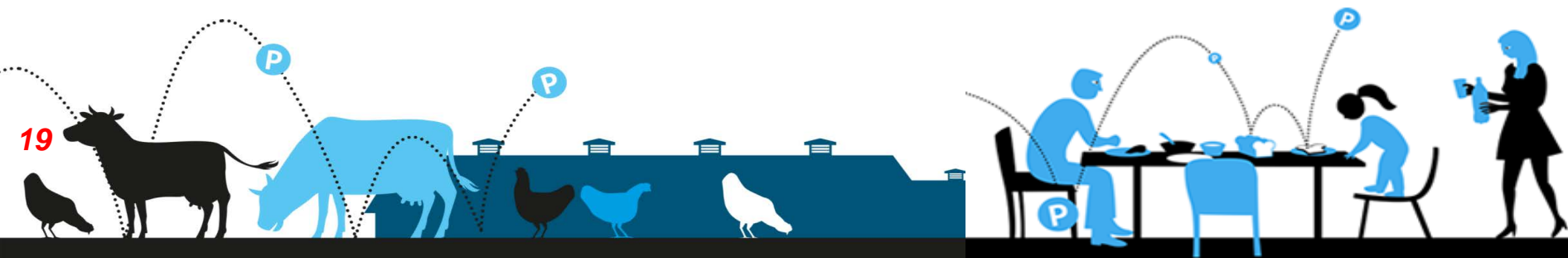




# *National Platform initiatives - Germany*

[www.deutsche-phosphor-plattform.de](http://www.deutsche-phosphor-plattform.de)

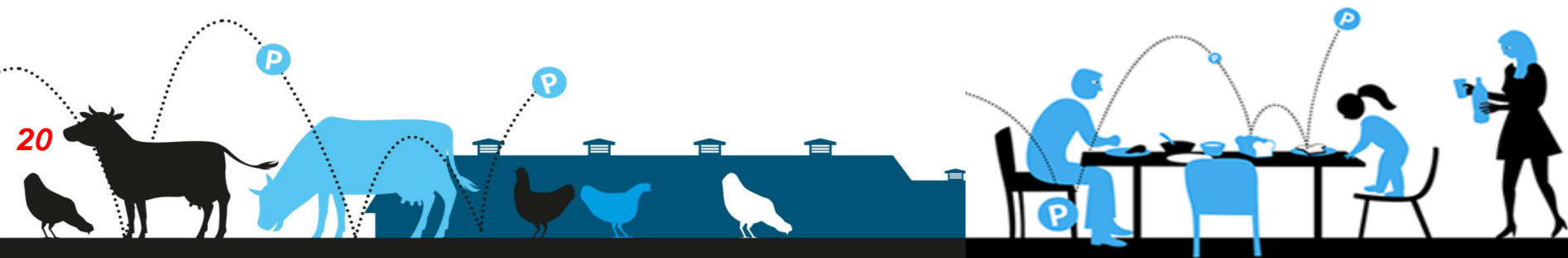
- Meetings 15/11/2013, 22/9/2014, 21/10/2014
- Initial initiative = Fraunhofer IWKS Alzenau
- Decision 22/9/14: establish as Not-for-Profit Association  
→ now pending adoption of statutes,  
election of Board, President, ...
- Not yet ESPP member





## *National Platform initiatives - France*

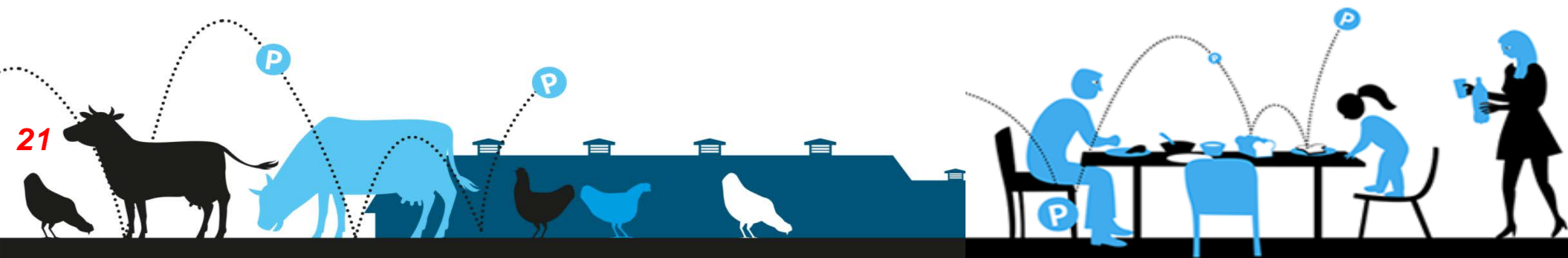
- Meeting Brittany 8/6/14
- Significant interest
- Specific national issues / opportunities:
  - need for language translations
  - France competence in standards, manure valorisation
  - link to European projects
- Orientation towards a French network within ESPP
- No commitment yet from French Ministries





## *National Platform initiatives - other*

- Spain ?
- Czech Republic ?
- Norway ?
- Baltic





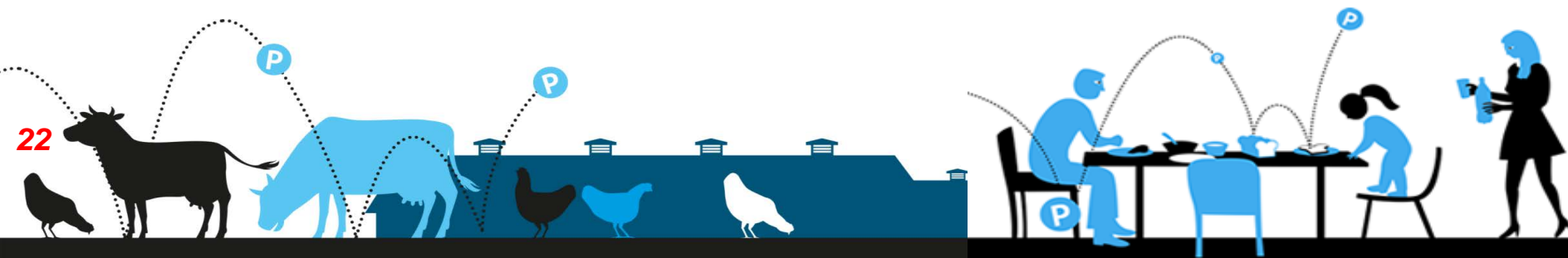


## *ESPP membership – to date*

Paid or committed to date

- 3 national governments / platforms
- 3 regional authorities, knowledge institutes
- 10 companies

In kind = 9





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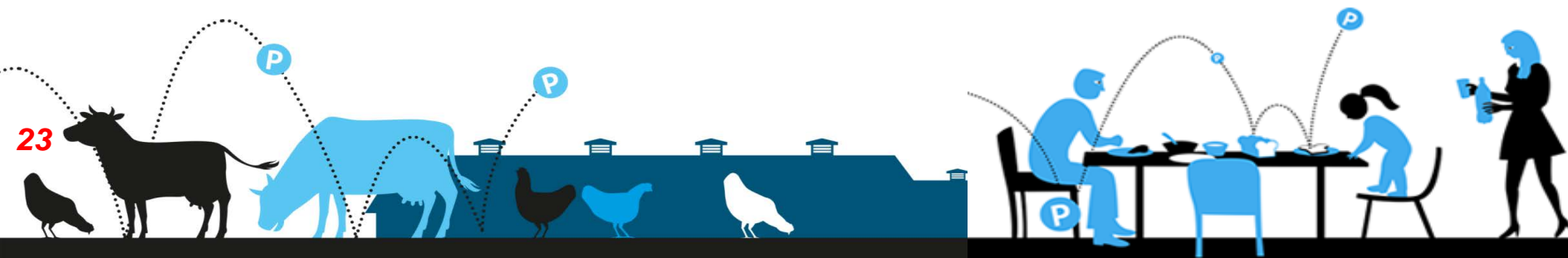
[info@phosphorusplatform.eu](mailto:info@phosphorusplatform.eu)



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



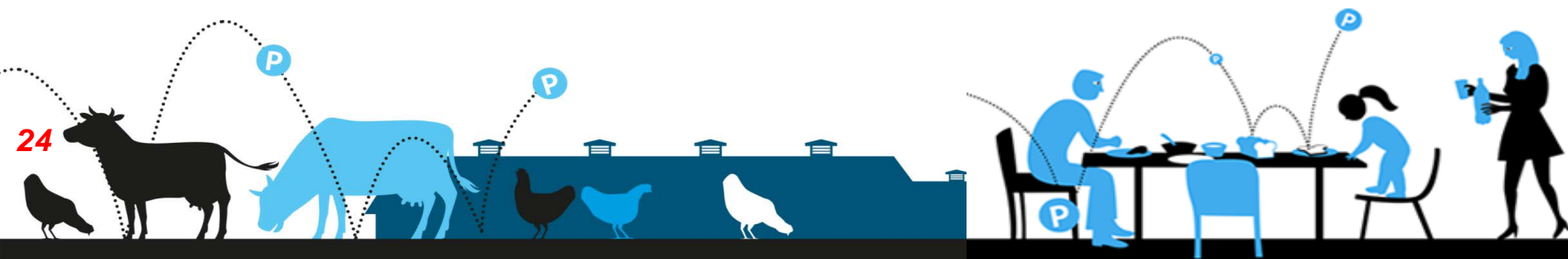
[@phosphorusfacts](https://twitter.com/phosphorusfacts)





# *Establishing ESPP as a not-for-profit association*

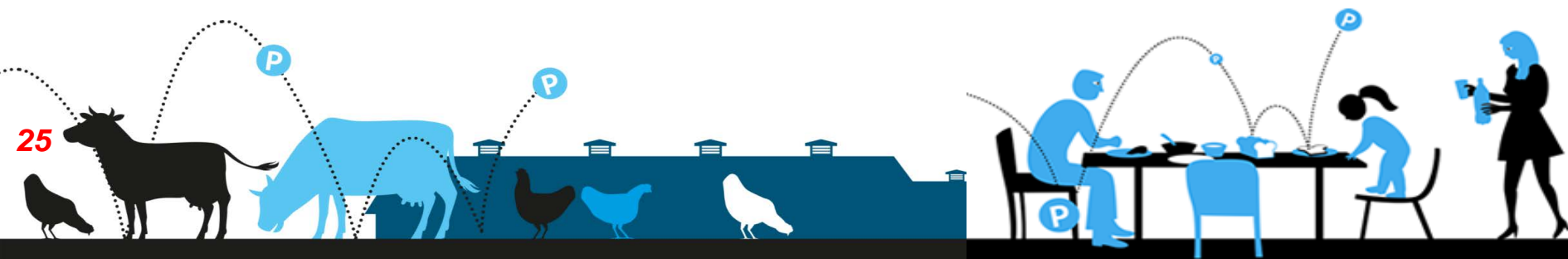
- Approval of statutes*
- Election of Board*
- Election of Chairperson, Treasurer, Secretary*
- Mandate for bank account and legal formalities*





## *ESPP statutes – why ?*

- Independence (financial, strategy)
- Not-for-profit association under Belgian law (ASBL not AISBL)
- French version of statutes is legally valid
- Statutes fix decision making, representation





## ESPP statutes - objectives

*“to promote, facilitate, contribute to and/or implement phosphorus sustainability in Europe. These objectives include in particular, but not exclusively, addressing the following issues:*

- phosphorus as a non-renewable and critical resource for agriculture (food supply) and industry in Europe*
- sustainable phosphate rock supply, mining and processing, including industrial applications*
- phosphorus re-use, recovery and recycling in synergy with other nutrients/minerals and carbon/energy*
- phosphorus use effectiveness and efficiency in agriculture (in crop and animal production) and the in the bio-economy (bio-energies and bio-materials production ...)*
- sustainability and safety of the food chain, from farm to diet”*



# *ESPP statutes - actions*

*“In particular, and not exclusively, ESPP shall achieve its purpose by the following means:*

- promote through communications and awareness raising the general principles of phosphorus sustainability*
- facilitate the definition of shared visions for phosphorus sustainability in Europe*
- identify, initiate or support relevant dialogue, networking, information exchange, innovation, collaborative actions, business cases, value-chains, etc.*
- identify and address obstacles, propose solutions, communicate opportunities*
- contribute to knowledge development, dissemination and implementation*
- facilitate dialogue concerning proposals for policies, regulation and actions to further phosphorus sustainability in Europe*
- outreach to, involve and work with a wide range of sectors and stakeholders, including: farming, fertiliser and animal feed, chemicals and minerals, waste and water treatment, food processing, bio-resources and bio-energies, food safety and diet ...*
- support the development of national phosphorus/nutrient platforms/networks in Europe and of actions at different scales towards a circular economy for phosphorus*
- cooperate with organisations involved in sustainable phosphorus management outside Europe, including phosphate rock producers / producing countries, networks, conferences, technology suppliers, organisations concerned by global phosphorus governance”*



## **ESPP statutes - organisation**

*ESPP is a not-for-profit organisation and will carry out or participate in commercial activities only in so far as these further ESPP's objectives. In particular, ESPP may promote its Members' and Partners' commercial activities, services and products in so far as these are coherent with ESPP's objectives.*

*ESPP will ensure in all its activities full respect of all applicable anti-trust legislations.*

*The Board of Directors may define and validate positions, documents or communications to be published or made by ESPP, with the principle that positions should generally represent consensus of ESPP Members and Partners reached after consultation of all Members and Partners.*



# ESPP statutes - delegations

*The Board of Directors may, under its own responsibility, delegate the day-to-day management of ESPP or any specific tasks and/or responsibilities to one of its Members or Partners, or to a named member of the staff of the Members, or to any other individual or organisation.*

*In particular, the Board may designate and mandate person(s) or organisation(s) as Secretariat, Director (= “directeur”. to be distinguished from an “administrateur” which is a member of the Board of Directors) or similar, with a statute as employed staff and/or as contracted service suppliers and/or as some other form of contractual arrangement, to carry out management, representation, development, coordination, communication, etc. of and on behalf of the association. The Board will ensure that the actions and positions taken on behalf of the association, by these persons/organisations correspond to the association’s objectives and to the priorities and orientations fixed by the General Assembly.*

*The Board will define and adopt a document specifying the different delegations, roles and responsibilities of the Chairperson, and where appropriate of other designated Board members, principal staff or external suppliers and where appropriate relations with other organisations (e.g. other nutrient/phosphorus platforms or similar structures).*

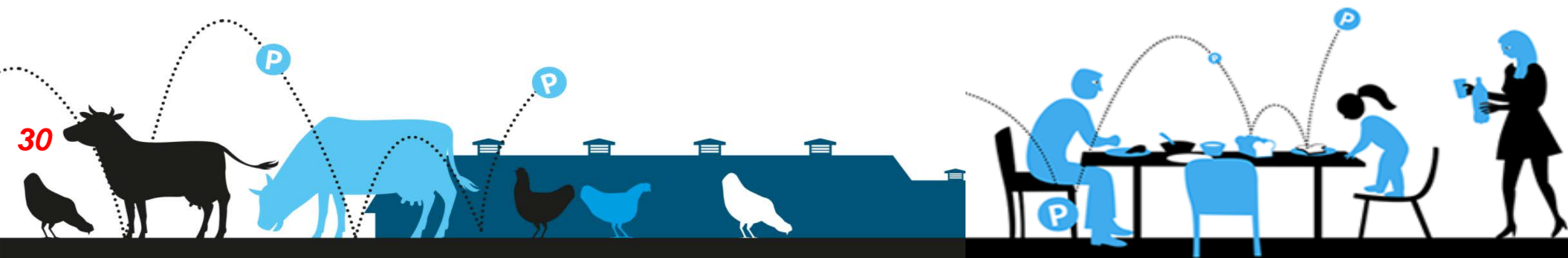






## **ESPP statutes – Member**

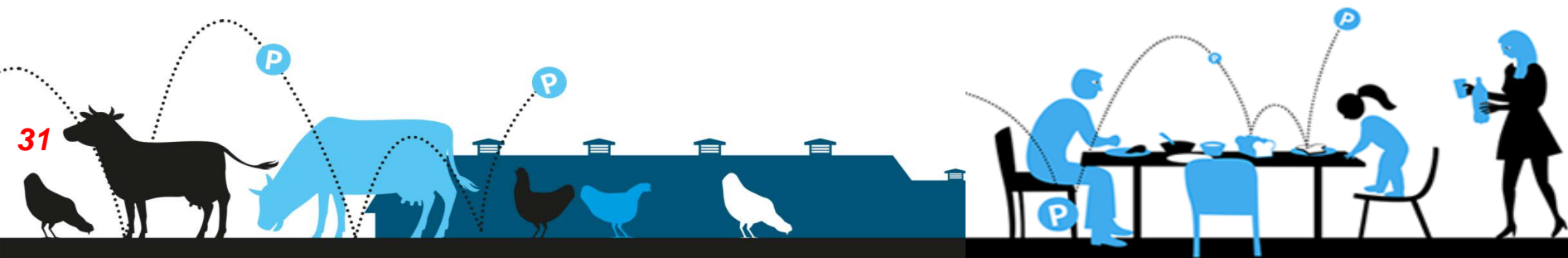
- a) *Legal status: any type of organisation (NOT individuals)*
  - b) *Must have activities or products related to sustainable phosphorus management. Must not carry out activities which are contrary to ESPP's objectives*
  - c) *Agreement with ESPP's statutes (in writing or by email)*
  - d) *Payment of the annual fee*
- **Access to network, visibility (website, Newsletter ...)**
- **Participates in General Assembly (vote)**





## **ESPP statutes – Partner**

- *Same conditions as for Members as regards (a) legal status and (b) activities*
- *Same fee level as Members or may make in-kind contribution of equivalent level*
- *Full access to information: observer and consultative participation GA – but no vote*
- *Same network access & visibility as Members*



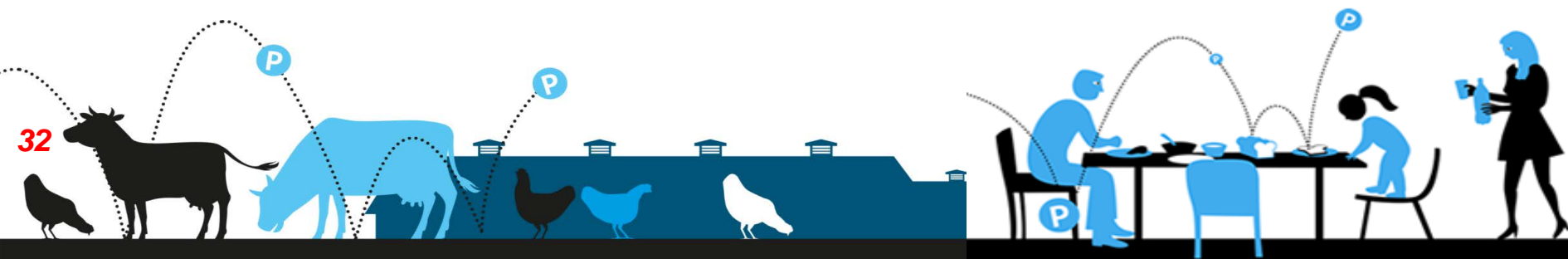


## **Member & Partner annual fees**

**Covers to end 2015**

**Includes small stand at ESPP2, Berlin, 2015**

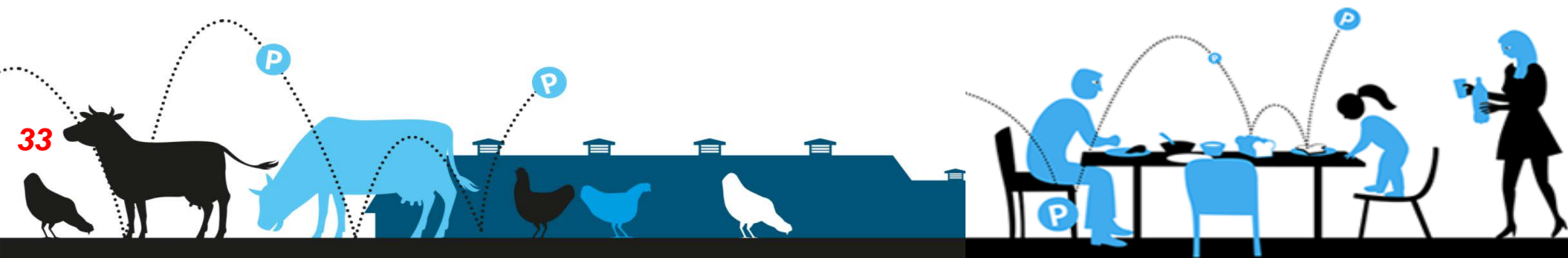
- **Company** 6 000 €
- **SME** 2 000 €
- **National governments, platforms** 10 000 €
- **Regional authorities** 4 000 €
- **NGOs, research institutes, etc** 2 000 €





## **ESPP statutes – decision making**

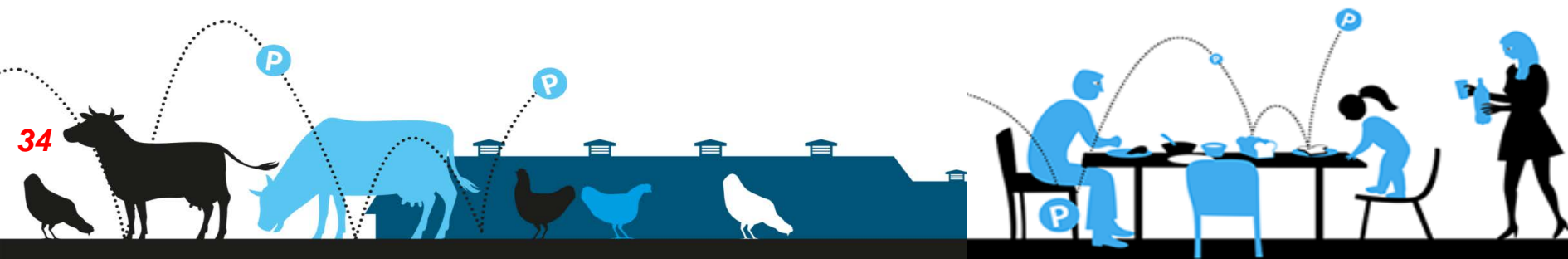
- *General Assembly = all Members, as organisations vote:*
  - *only Members vote (not Partners)*
  - *number of votes proportional to fee paid*
- *Board = or organisations or physical persons*
  - *Members or Partners or representatives of these*
  - *must be proposed by a Member*
  - *Board is elected by General Assembly (Members only vote)*
- *Chairperson, Secretary and Treasurer are elected by and from within the Board – must be physical persons*





## ***Formal decisions to take today***

- *Adoption of statutes = establishment of ESPP (only Members vote)*
- *Election of Board*
- *Election of Chairperson, Secretary, Treasurer, other ?*
- *Power of attorney to Tax Consult SA*





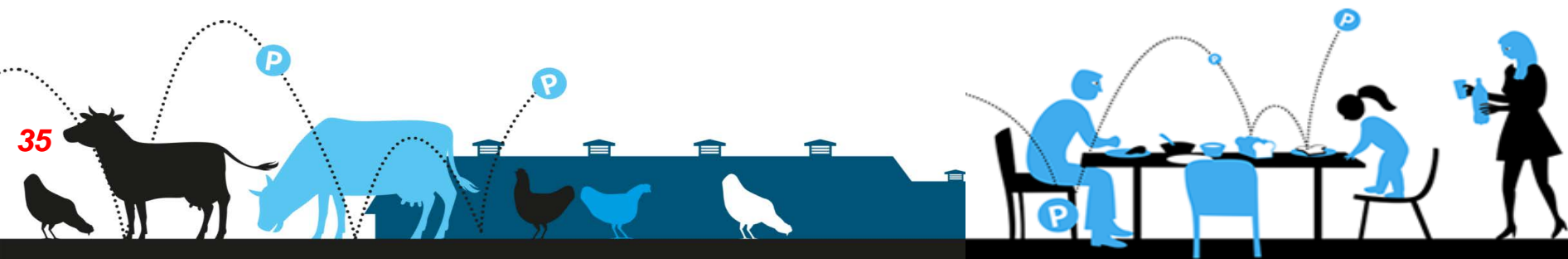
## ***Signature of establishment minutes***

- *“We the undersigned ... declare the establishment of a not-for profit association (ASBL) under Belgian law with the following statutes ...*

*List of initial members*

- **only** companies and organisations **agreeing to pay fee**
- specify legal name, address, legal registration number

*Absent but agreed already to statutes: Kemira, Ostara, Thames Water, United Utilities*



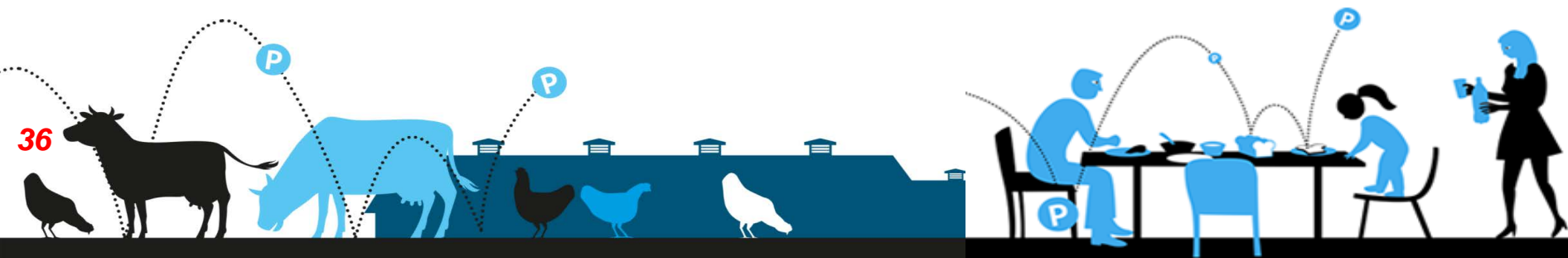


## **Election of Board**

*“The members of ESPP meeting at the establishment assembly 2/12/14 agree unanimously to name as administrators (Board) the following persons ...*

### **Paying members only vote**

- legal information as above for organisations / address, place and date of birth, passport number for individuals
- election until the General Assembly adopting the 2015 accounts
- the named persons accept this mandate, which is not remunerated

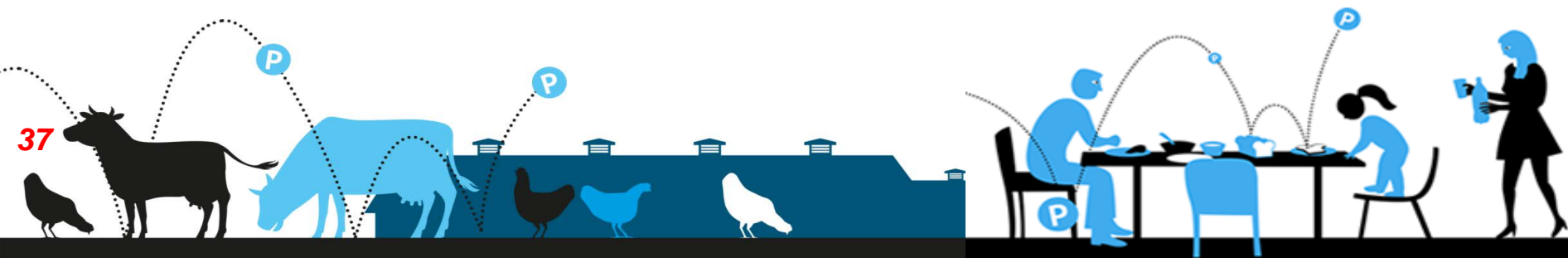




## ***Power of attorney***

*“The members of ESPP meeting at the establishment assembly give Power of Attorney to Tax Consult, av. du Dirigeable 8, 1170 Brussels to*

- carry out legal declaration and publication obligations in Belgium*
- open and manage bank account*
- represent to income tax and VAT authorities*





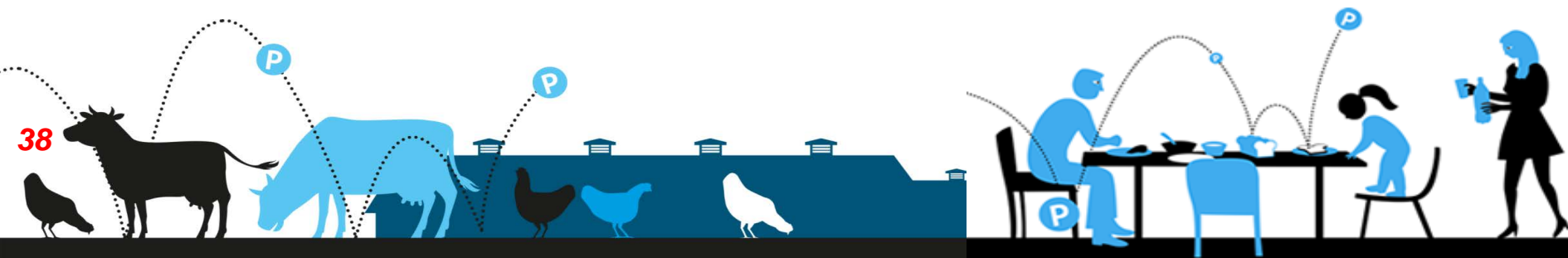


# Other decisions and involvement

*How to organise ?*

*Who should take part*

- *SCOPE Newsletter editorial committee*
- *Working group of national Platforms*
- *ESPC2 committee*
  
- *ESPP Secretariat*





European Sustainable Phosphorus Platform

ESPP Constitutive GA  
Brussels 2<sup>nd</sup> December 2014



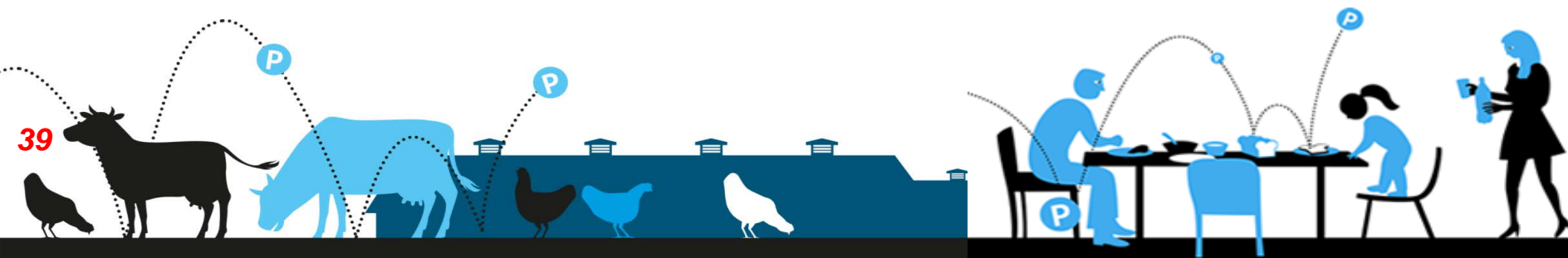
[info@phosphorusplatform.eu](mailto:info@phosphorusplatform.eu)



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

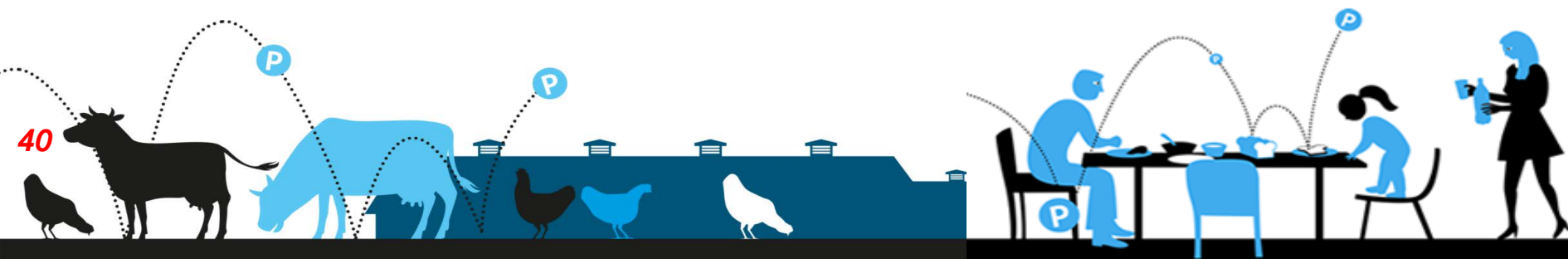


[@phosphorusfacts](https://twitter.com/phosphorusfacts)





# *ESPP action plan 2015 and budget*





## **ESPP 2015 – priority actions**

- *Networking, access to expertise, experience*
  - *structure in IT data base*
  - *member webinars on thematic / technical questions*
- *Awareness : website / SCOPE, social media*
  - *communicating opportunities, innovation, success stories*
- *Regulatory monitoring: EU Commission thematic meetings*
- *International: GPNM / UNEP-GPA*
- *ESPC2 Berlin*
- *Develop national Platforms*
- *Enlarge action to Baltic, Danube*
- *EU Critical Raw Materials – P flows data ?*
- *Stakeholder consultation on R&D priorities ?*





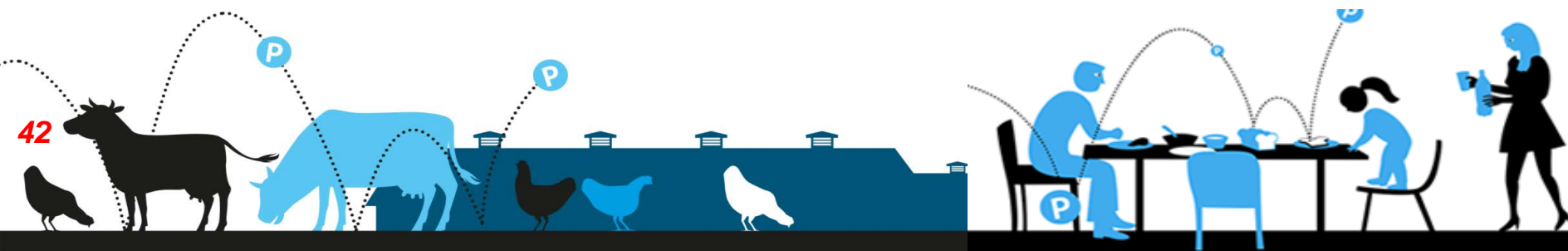
## *ESPC2 Berlin*

*P-recycling*

*R&D – implementation workshop*

*Berlin 4<sup>th</sup> March 2015*

*DG Research / P-REX*

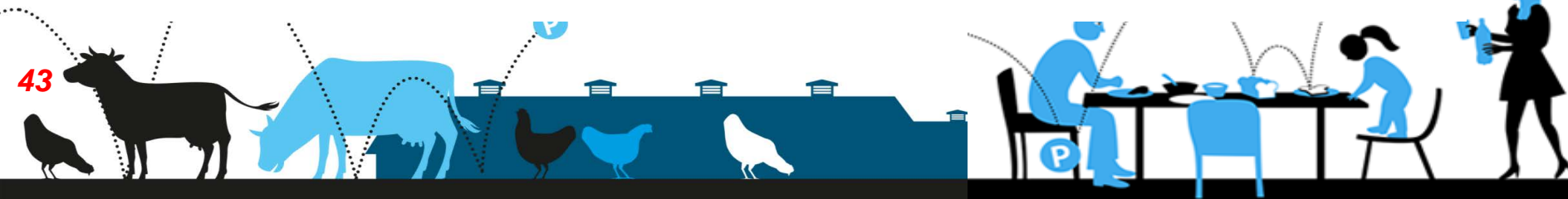




# Networking expertise and contacts

## *July ESPP meeting priority identified:*

- *Invest in IT support system to network expertise, competence, experience, projects ...*
- *Proposal: use an existing system / organisation - requests made: InnovationUK, Isle Utilities*
- *Combine with targeted networking tools (e.g. members webinars) and ESPP website “Opportunities” pages*





## *EU Commission contacts*

*Proposal to send ESPP letters, requesting discussions of thematic integration of P into policy*

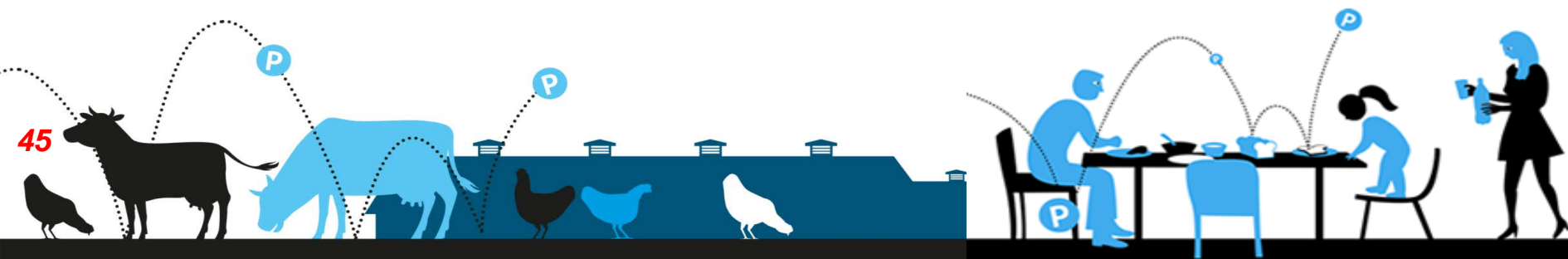
- *SANCO*
- *Agriculture and Rural Development*
- *Environment (e.g. water policy, waste)*
- *Research*
- *External Action (international)*
- *Enterprise (beyond fertilisers, raw materials)*





# *ESPP website*

## *FHNW proposal*







## *ESPC2 Berlin*

### *2<sup>nd</sup> European Sustainable Phosphorus Conference*

*Berlin 5-6<sup>th</sup> March 2015*

*- organisation: DPP*

*- programme: KWB*



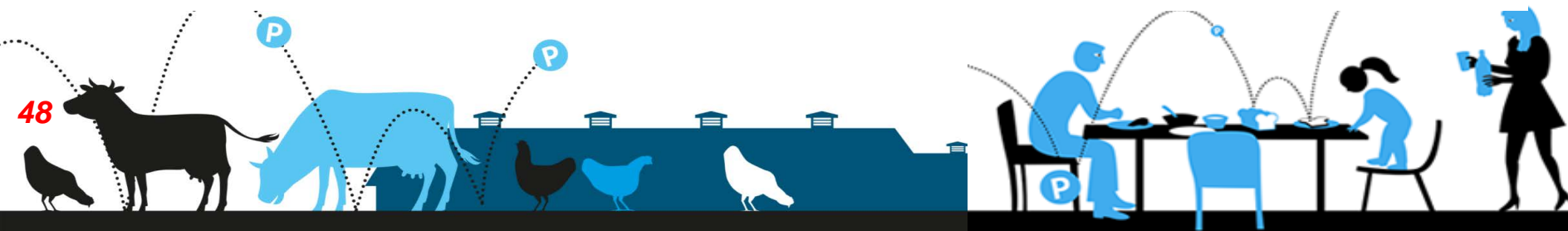




# Phosphorus Challenge videos

## **SUSPHOS proposal** [www.susphos.eu](http://www.susphos.eu)

- *follow-on from ESPC1 P-challenge animation*
- *not duplicate existing material*  
*Arte "Indispensable Phosphore" (5")* <http://future.arte.tv/fr/sujet/lindispensable-phosphore>  
*Rosemarin Peak-P (5") - Het Fosforprobleem (3")*  
*ESPC1 Phosphorus Challenge animation (1 ½") - Arizona RCN Elser (8")*
- *series of short 2-3 minute videos*
- *editorial committee SUSPHOS – ESPP - funders*
- *different themes, e.g.: P in diet, P and food security, eutrophication, P in industry, P-recycling, manure processing ...*
- *format (animation, interviews) variable, packing coherent*

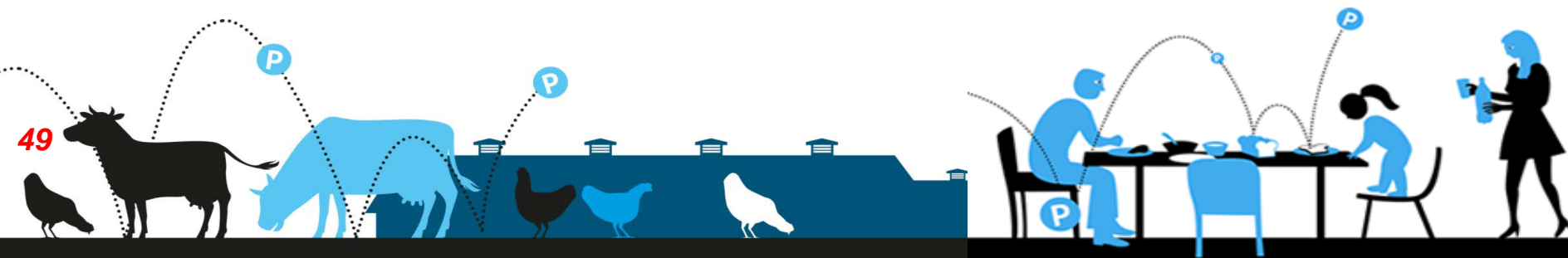




# ESPP budget 2014-2015

## Already engaged end 2014

- C. Thornton fees 2014 (already paid 7 K€) 43 K€
- C. Thornton travel and costs (already paid 5 K€) 3 K€
- Cranfield website invoice outstanding
- ESPP website technical
  - Maija Ravenscroft
  - repair and renovation = 3 K€
  - maintenance to end 2014 = 4 K€
  - Hosting, Joomla, domains 1 K€
- **TOTAL = 57 K€**

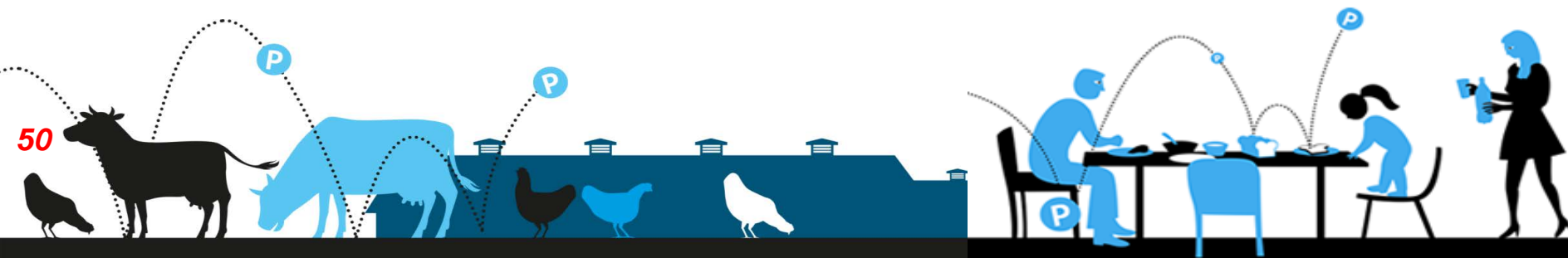




# ESPP budget 2014-2015

## Spending 2015

|   |               |
|---|---------------|
| • C. Thornton fees 2015                               | 50 K€         |
| • Support / part-time post in Brussels                | 40 K€         |
| • FHNW website content                                | 20 K€         |
| • Web technical : maintenance, hosting, emailings ... | 8 K€          |
| • Upgrading SCOPE to electronic format                | 5 K€          |
| • Legal / accounting (inc. establishment)             | 10 K€         |
| • Competence/network data base system                 | 10 K€         |
| • <b>TOTAL =</b>                                      | <b>143 K€</b> |



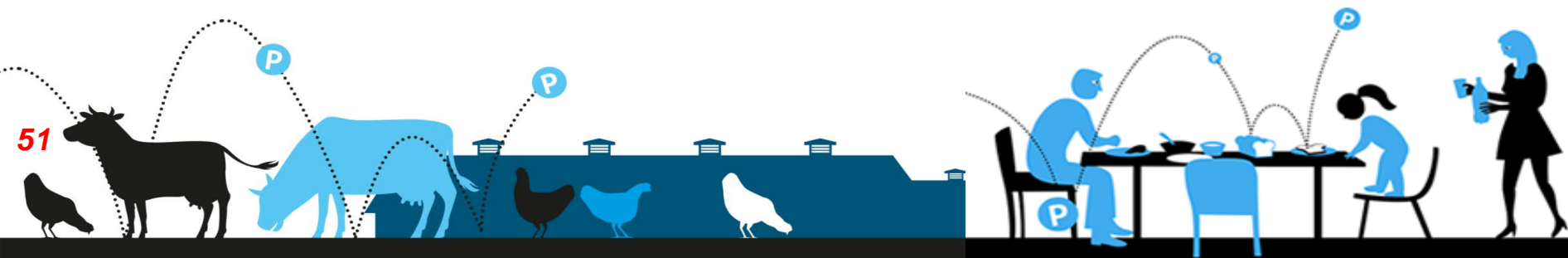


# National networks

## How to fund national / European Platform ?

### Proposed options

1. national Platforms with legal entity pay 10 K€ fee to ESPP ?
2. national network is funded by national government / companies pay ESPP / national platform is ESPP member if company fees > 10 K€
3. Companies and national governments pay ESPP / ESPP returns 30% of fees to 'moderator' or national network





European Sustainable Phosphorus Platform

ESPP Constitutive GA  
Brussels 2<sup>nd</sup> December 2014



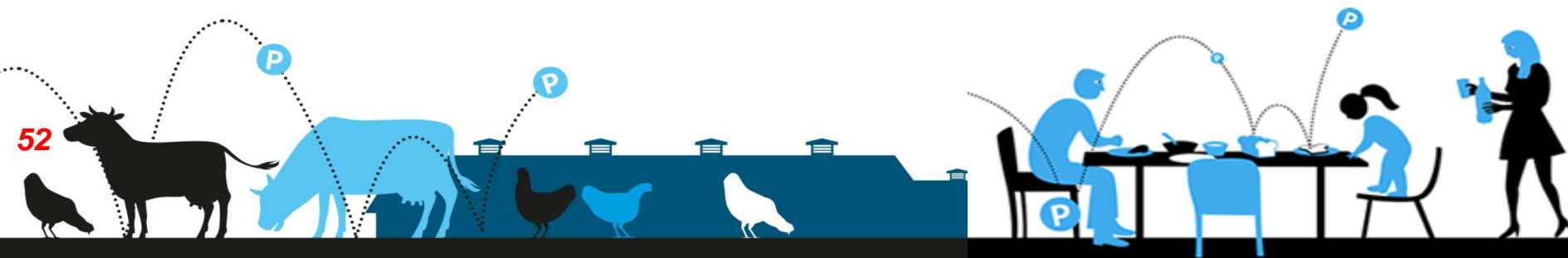
[info@phosphorusplatform.eu](mailto:info@phosphorusplatform.eu)



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



[@phosphorusfacts](https://twitter.com/phosphorusfacts)





## *P – P-rock Critical Raw Material*

**May 2014: “Phosphate Rock” added to EU Critical Raw Materials list.** List = DG Enterprise. Currently 20 materials listed. Justification for P-rock:

- essential for fertilisers = food
- non substitutable
- non recyclable (questionable)
- EU largely dependent on imports
- (global) demand expected to increase
- world resources widely distributed but in many cases inaccessible

*See:*

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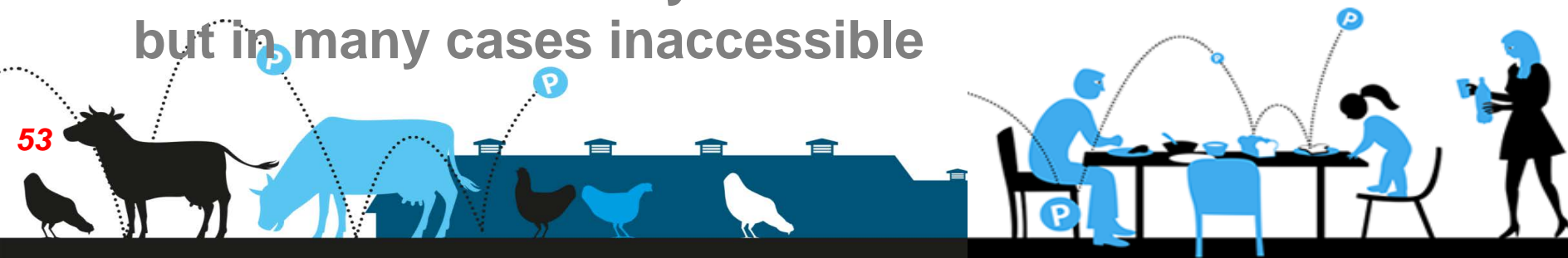
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SCOPE NEWSLETTER

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*N° 104*







## *P – P-rock Critical Raw Material*

**October 2014 – Spring 2015: “Data inventory for Raw Materials System Analysis” (MSA) for the 21 materials.**

DG Enterprise – contracted to Deloitte, for P-rock subcontracted to Charles Univ. Prague (Tomas Hak)

DG Enterprise workshop 30/10/2014:

- ESPP represented by Kimo, Antoine, Willem, Arno
- issues raised concerning both overall approach and specifically for phosphorus / phosphate rock





## ***P – P-rock Critical Raw Material***

### **Operational issues with DG Enterprise MSA project**

- Limited budget to collect and analyse data for 21 different materials
- Deloitte and subcontractors not specialists in materials
- Industry data often confidential
- Objectives: material flows data ? criticality analysis ?  
Official data only. System outline – not balance flows.

### **Specific issues with P / P-rock MSA**

- Charles Univ. Prague do not have data
- No budget (or 2000 €?) to collect data

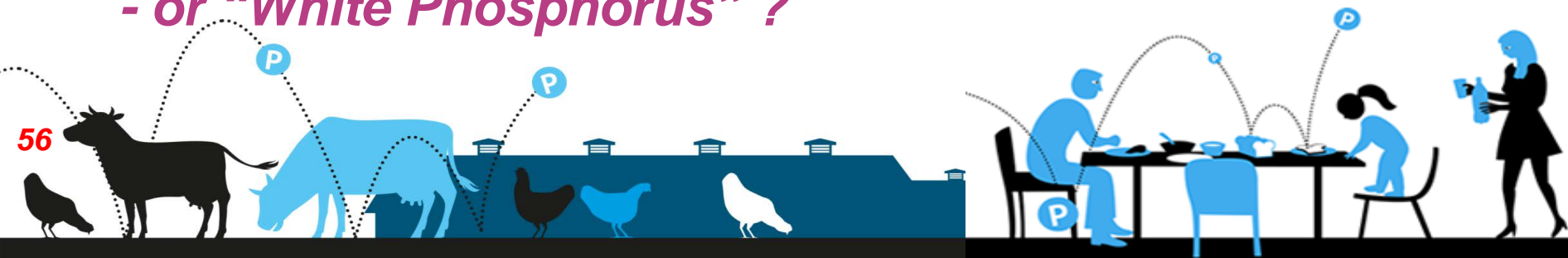




## *P – P-rock Critical Raw Material*

### Issues with overall approach to P vs. P-rock

- “Phosphate rock” is the currently listed Critical Material
  - This is based on analysis which needs clarifying ([see SCOPE n° 104](#)), e.g. recycling ? Industrial uses in EU ?
- *So how to provide data ? For P ? For rock ?*
- *What proposals to make:*
- *keep P-rock on list ?*
  - *replace on list with “P” ?*
  - *or “White Phosphorus” ?*





European Sustainable Phosphorus Platform

ESPP Constitutive GA  
Brussels 2<sup>nd</sup> December 2014



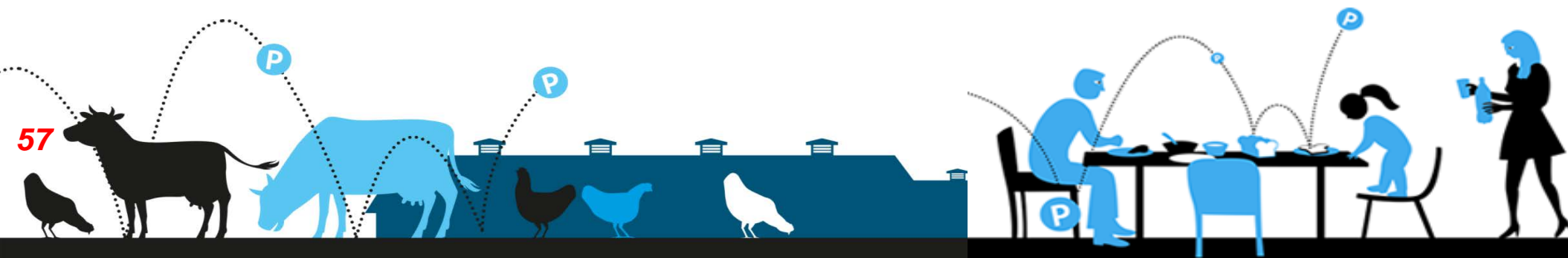
[info@phosphorusplatform.eu](mailto:info@phosphorusplatform.eu)



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



[@phosphorusfacts](https://twitter.com/phosphorusfacts)



# Website and information management

## Recent changes

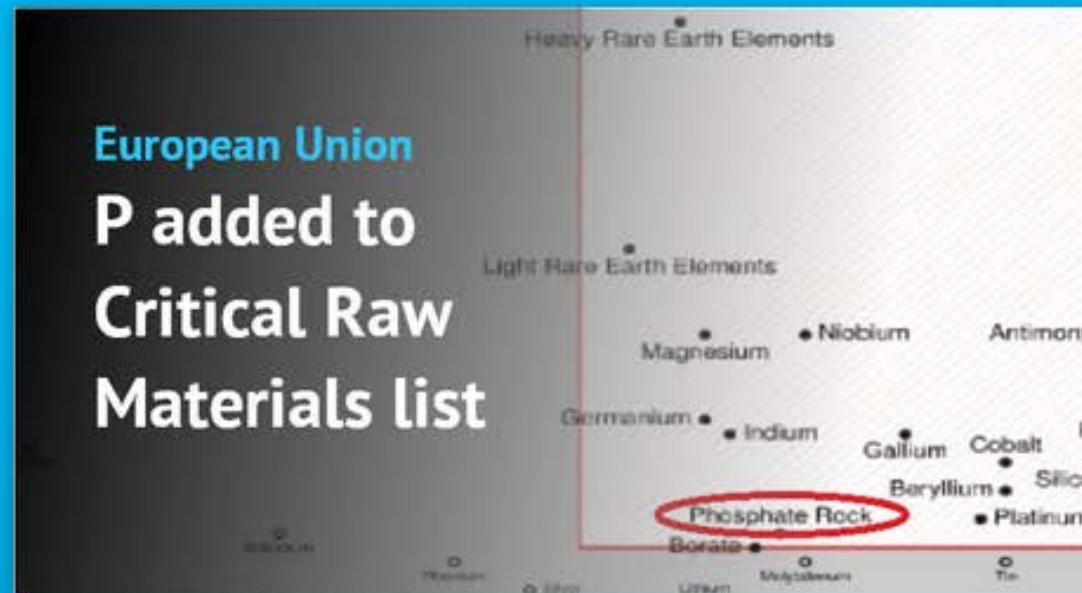
– Homepage



**Participate  
Collaborate  
Innovate**

**European Sustainable Phosphorus Platform (ESPP)**

Sustainable management of Phosphorus is crucial for agriculture, food, industry, water and the environment. ESPP brings together companies and stakeholders to address the Phosphorus Challenge and its opportunities...



European Sustainable Phosphorus Platform

# Website and information management

## Recent changes

### – Member pages

#### Members of ESPP

Find out more about our members and their activities by clicking their logos.



**AWEL** is responsible for Phosphorous Mining strategy for sewage sludge management of the Canton Zurich.



The **biorefine cluster** focuses on sustainable biomass, energy technology and refining products from the bio-energy sidestreams.



**EcoPhos** is a Belgian based technology provider founded in 1996, producer of animal feed phosphates.



**Fertilizers Europe** represents the major mineral fertilizer manufacturers in Europe.



Research at **FHNW** is focused on Environmental Technologies, Resource management and Environmental Biotechnology.



**ICL Fertilizers** is a multi-national fertilizer producer. In Amsterdam extensive research is being performed regarding the use of secondary phosphates in the fertiliser production.



The **Lancaster Environment Centre** is a hub of knowledge and experience in terms of sustainable phosphorus management.



Home > Platform > About us > ESPP Members > Member Pages > AWEL



Kanton Zürich  
Baudirektion  
Amt für Abfall, Wasser,  
Energie und Luft

#### Baudirektion Kanton Zürich AWEL Amt für Abfall, Wasser, Energie und Luft

Office for Waste, Water, Energy and Air (AWEL), Canton of Zurich, Switzerland

AWEL is responsible for implementation the defined Phosphorous Mining strategy for sewage sludge management of the Canton Zurich.

The strategy was adopted according to a resolution of the governing council of the Canton of Zurich in 2007 with the following clear general conditions:

"The general conditions for the planning of future methods of disposal form the specifications for the retrieval of phosphorus and energy use. In accordance with sustainable resource management, future disposal methods are to be planned, in particular when building new plants, so that the (later) retrieval of phosphorus is possible. The renewable energy in sludge should be used, regardless of the place it is treated, in the optimum economic manner."

The agency is fulfilling the implementation together with partners from industry, academia and consultancy.

For further fotos and information see [the AWEL website](#).



Waste water treatment plant



Sewage sludge



Fertilizer

#### Contact

Dr. Leo Morf  
Baudirektion Kanton Zürich  
AWEL Amt für Abfall, Wasser, Energie und Luft  
Sektion Abfallwirtschaft



# Website and information management

## Recent changes

### – Events

Home > Events

#### Upcoming Events

This calendar of sustainable phosphorus related events is maintained in co-operation between the European Sustainable Phosphorus Platform (ESPP) and the North American Partnership for Phosphorus Sustainability (NAPPS).



European Sustainable  
Phosphorus Platform




Sustainable Phosphorus  
Initiative

27 November 2014, Strasbourg, France  
The workshop language is French  
[Programm](#)

27. November 2014, Aachen, Germany  
[Information](#), event in German

28 November 2014, Wageningen, Netherlands  
Precision fertilisers and recycled products  
<http://www.fertilizerplacement.nl/>

2 December, 9.30 - 16.30, 2014  
[ESPP\\_meeting\\_2-12-14\\_invite.pdf](#)  
 **organised by ESPP**

#### Tag Cloud

Agriculture Anaerob digesting Australia  
Conference ESPP participating

**Europe** Fertilisers Food

Global International links Manure

Meeting Mining North America

Nutrient cycling Nutrient platform

Organised by ESPP Phosphate

industry Phosphorus chemistry

Seminar Symposium Waste water

Water Workshop



European Sustainable Phosphorus Platform

# Website and information management

## Recent changes

– Other:

The screenshot displays the website's navigation and content. On the left, a vertical menu lists various project areas: R & D, Projects, Biochar, BioEco, Fertilizers, and others. The main content area features a breadcrumb trail (Home > Conference > ESPC2015) and a section for the ESPC2015 conference, including a description of the event and a list of topics. A map of Europe is shown with labels for various countries and cities. On the right, there is a 'User login' section with fields for Username and Password, and a 'Log in' button. Below the login section, there are links for 'Create an account', 'Forgot your username?', and 'Forgot your password?'. The 'eMarket' logo and social media icons are also visible.

**R & D, Projects**

**Biochar**  
Biochar, In  
[www.biochar.org](http://www.biochar.org)  
Tags: Biochar

**BioEco**  
Valorisation  
[www.bioeco.org](http://www.bioeco.org)  
Tags: Biochar

**Fertilizers**  
Recycling  
[www.fertilizers.org](http://www.fertilizers.org)

**Links and network**

**Biogas-E**  
Anaerobic dige

**Biorefine Europe**  
Cluster of current  
of nutrient and

**Global Phosphorus**

**Global Transdisciplinary**

**PhoSciNet**  
Sustainable P-based processes

Home > Conference > ESPC2015

**ESPC2015**

The second European  
This follows the 1st ESPC  
announcements or con  
phosphorus use, recyc  
the following themes,  
Black Sea and Mediter

- P losses and environ
- P from farm to plate
- Food security and in
- Reuse of P and P-re
- Progress made add

**Stay informed!**

- Download the outlin
- Call for posters, pre
- Register to receive

Contact: Dr. Lars Zegge  
Further information sc

**eMarket**  
European eMarket  
platform for recovered  
nutrients.

**User login**

Username

Password

**Log in**

**Create an account**  
Forgot your username?  
Forgot your password?

**European Sustainable Phosphorus Platform**





# Website and information management Organisation

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- **Information shared and distributed between the different channels of communication**
  - **SCOPE/ESPP Newsletter for news (editorial team, lead C. Thornton)**
  - **Twitter for alerts (by C. Thornton)**
  - **Website management and content (FHNW, [sirja.hukari@fhnw.ch](mailto:sirja.hukari@fhnw.ch))**
- **ESPP website partners**
  - **North American Partnership for Phosphorus Sustainability (NAPPS) – blog, events**
  - **P-REX / Christian Kabbe - eMarket**
- **ESPP website technical services by Maija Ravenscroft**
- **Coordinated with the communication in relation to the ESPC2 (Lars Zeggel, Christian Kabbe and Wouter de Buck)**



# Website and information management Plans until mid 2015

- **50% of resources - update information and maintain structures**
  - **Member pages, including logo management**
  - **Events**
  - **Newsletter**
  - **Links and Resources**
  - **Success stories**
  - **Carousell-homepage**
  - **Spotlight**
  - **P-Challenge**
  - *Inventory*
  - *Blog*
  - *General website structure*
  - *Content management in joomla*



# Website and information management Plans until mid 2015

- **50% of resources- gather and structure information to establish or incorporate new areas.**
- **Main priorities until mid 2015**
  - **Relaunch of the SCOPE/ESPP Newsletter**
    - optimisation of the e-mail and online - Newsletter
    - New layout
  - **Success stories on the webpage as support for ESPC2**
  - **Establishment and promotion of “Inventory of competences”**
  - **Updating and extension of "Links and Resources" - section including videos, tools etc.**
  - **Establishment of a common server space for sharing and working on web-related content (with logos, pictures, contacts, manuals)**



# Website and information management

## Collaboration and inputs welcome

---

- **Success stories**
  - **Business cases / success stories can be submitted for upload**
  - **Facts and figures regarding P management (recycling, abatement, catchment...) and a story**
- **Inventory of Competences**
  - **yellow pages “of phosphorus management**
  - **For industry and knowledge institutes**
  - **Describe their offer the field of in Phosphorus Stewardship**
  - **Enables contacts through the ESPP webpage.**
- **Adding your member page information**
- **Blog (NAPPS Blog available, linked to ESPP website)**
- **News (currently over Newsletter)**

**If you are interested in contributing to any of the sections,  
contact Sirja [sirja.hukari@fhnw.ch](mailto:sirja.hukari@fhnw.ch) or Chris**





European Sustainable Phosphorus Platform



# ESPC2: European Sustainable Phosphorus Conference

## Berlin, 5-6<sup>th</sup> March 2015

Scandic Hotel, Berlin Postdamer Platz. Programme v24/9/2014

Call for contributions, posters:  
open to 15<sup>th</sup> November 2014 at  
[www.phosphorusplatform.eu](http://www.phosphorusplatform.eu)

### Wednesday 4<sup>th</sup> March

- **Site visit:** Berlin Water Wassmansdorf P-recycling from sewage
- **P-REX workshop on P-recycling** : joint meeting of EU projects and new technologies

### Thursday 5<sup>th</sup> March

9h00 – 10h45 (plenary keynotes)

**The Phosphorus Challenge:  
European and national actions**

- Video lessons since ESPC1

### Friday 6<sup>th</sup> March

8h30 – 9h30 (plenary)

**Messages from the round tables  
International**

- North America Phosphorus Partnership
- Engaging with P-reserve holding countries

9h45 – 11h00 and 11h45 – 13h00

2 x 3 parallel sessions

- **P in the environment:** eutrophication mitigation, farm P management ...
- **P from farm to fork:** agricultural supply

## ***"Circular approaches to phosphorus: from research to deployment"***

### ***Morning session:***

- *Presentations by relevant research & demo projects*
  - **FP7: P-REX, END-O-SLUDG, ROUTES, RECOPHOS...**
  - **Other: LIFE+, national, InterReg,...**
- *Poster presentations foreseen*

## ***Afternoon session 1: Research & demo needs***

- *Moderated discussion*

## ***Afternoon session 2: Barriers and pre-conditions for deployment***

- *Moderated discussion*

## ***Conclusions:***

- *to be presented at the ESPC2 on 5-6 March*
- *to be summarised in a short report*



***Venue: Berlin, BAM***

***Contact details of organisers:***

*Dr Christian Kabbe, Kompetenzzentrum Wasser  
Berlin gGmbH (P-REX):*

*[Christian.Kabbe@kompetenz-wasser.de](mailto:Christian.Kabbe@kompetenz-wasser.de)*

*Chris Thornton, European Sustainable Phosphorus  
Platform: [info@phosphorusplatform.eu](mailto:info@phosphorusplatform.eu)*

*Tomáš Turecki, DG Research & Innovation,  
European Commission: [tomas.turecki@ec.europa.eu](mailto:tomas.turecki@ec.europa.eu)*



# Phosphorus flow analysis and monitoring in the EU

Kimo van Dijk  
Researcher nutrient management  
& phosphorus security

Wageningen University, [kimo.vandijk@wur.nl](mailto:kimo.vandijk@wur.nl)



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# Overview

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- P-Rock Raw Material System Analysis study
- Phosphorus flows in the EU-27 Member States
- Data and methods used
  
- Phosphorus monitoring challenges

# P-Rock Raw Material System Analysis

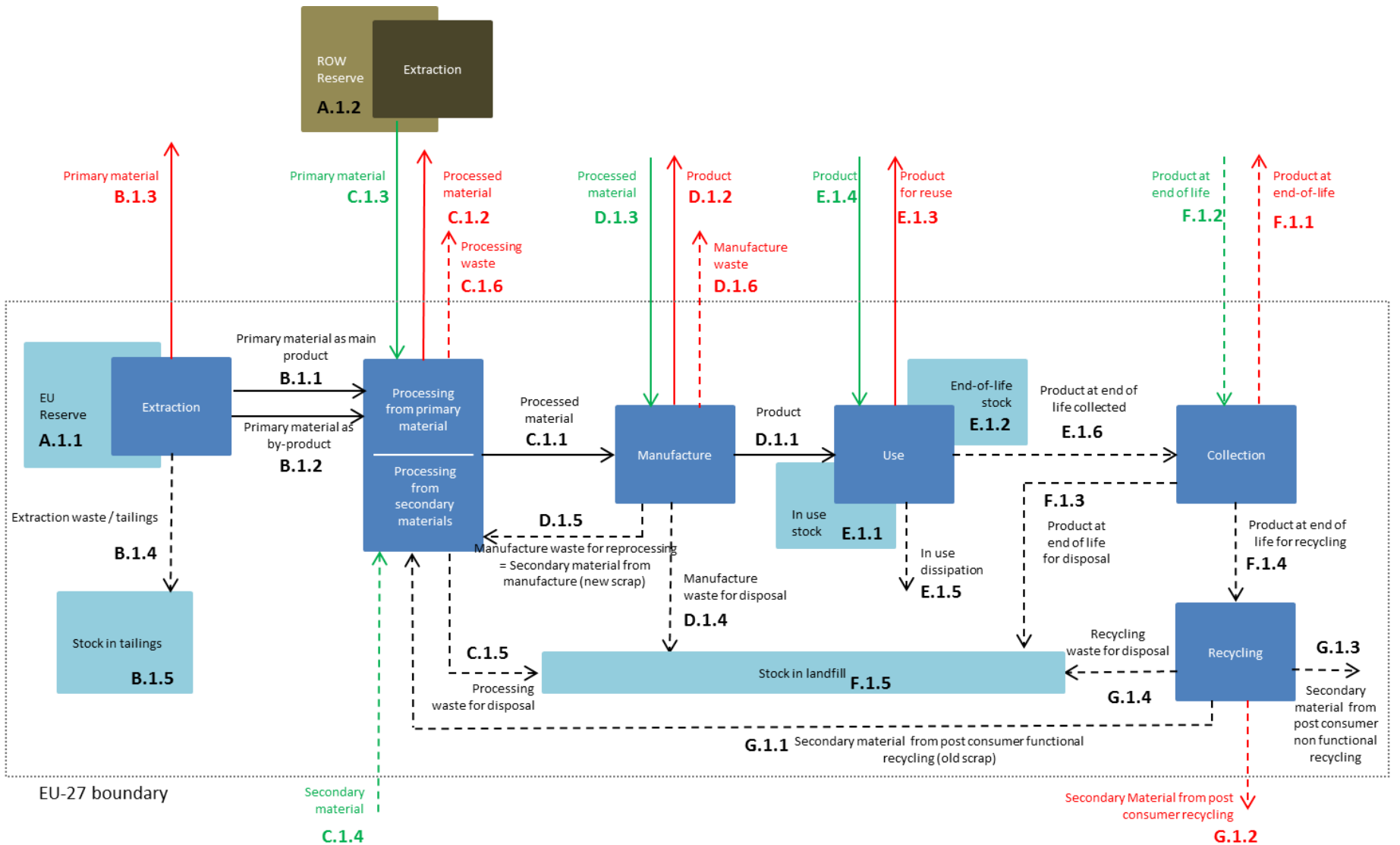
- Study on Data Inventory for a Raw Material System Analysis: Roadmap and Test of the Fully Operational MSA for Raw Materials
- MSA definition:  
*The project applies material system analysis (MSA) which consists of a **map of the flows of materials** through the economy, as **raw materials** or as parts of basic materials, components or products, in terms of entry into the economy (**extraction and import**), movement through the economy (**production, consumption, exports**), additions to **stock**, and end-of-life through either **disposal or recovery**. **MSA also includes information on the sustainability of the use of materials and the security of supply.***

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# P-Rock RMSA details

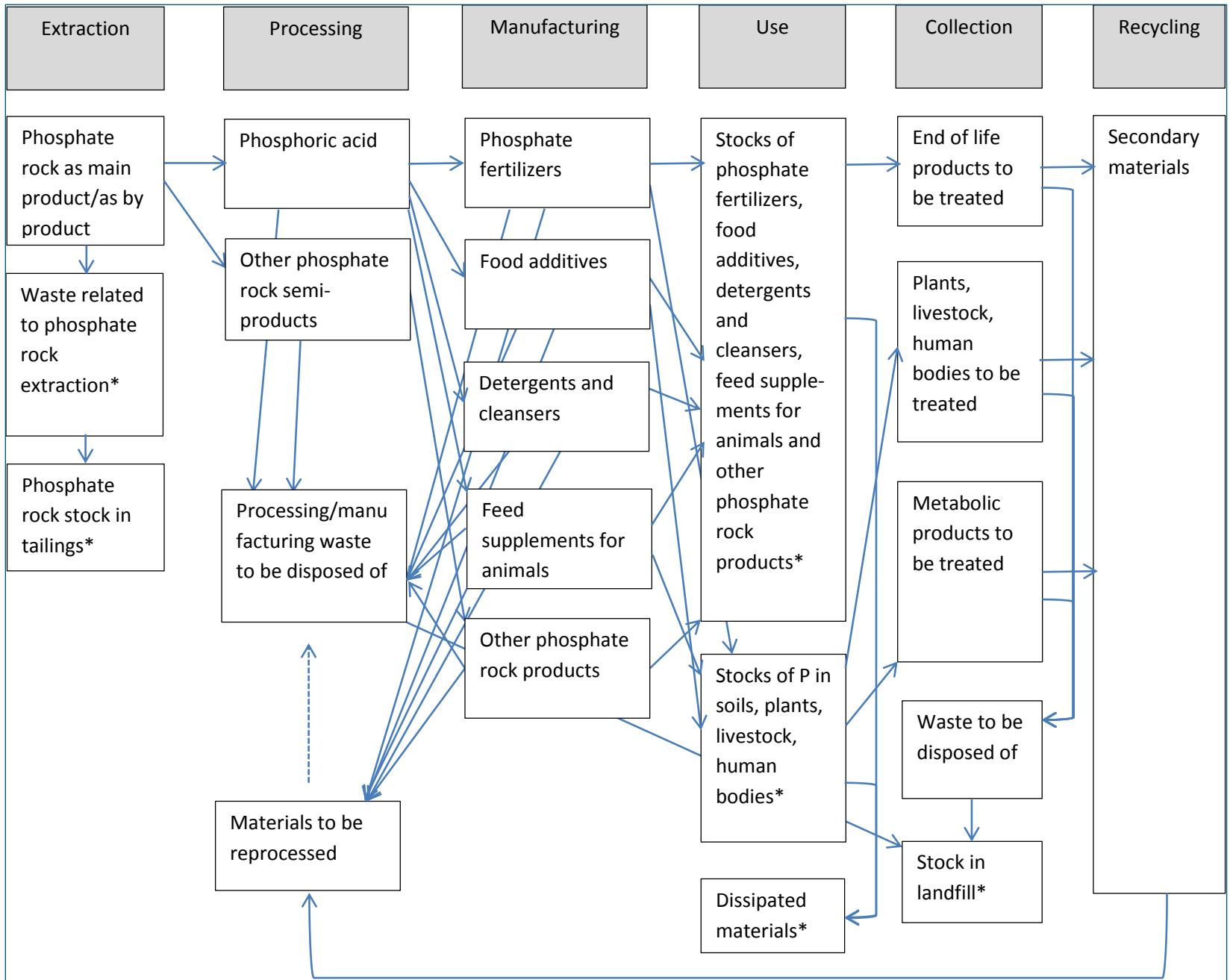
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- P-rock versus P versus P4
- First general and uniform picture, no balancing
- Public monitoring tool
- Three years before next update
- Data preference:
  - 1. publicly accessible sources with some guarantee of quality and regular update (Eurostat, BGS, etc.)
  - 2. scientific studies, free company reports;
  - 3. models;
  - 4. commercial sources



- Arrow color
- Red arrow: Export
  - Green arrow: Import
  - Black arrow: Internal EU flow

- Arrow type
- Solid arrow: Standard flow
  - Dashed arrow: Waste or secondary material flow



# Exploration & extraction

| Life cycle stage | Parameters  |
|------------------|---|
| A. Exploration   | A.1.1 Reserves in EU  |
|                  | A.1.2 Reserves in ROW   |
|                  | A.3.1 Resources in EU   |
|                  | A.3.2 Resources in ROW  |
|                  | A.3.3 Investment in exploration   |
| B. Extraction    | B.1.1 Production of primary material as main product in EU sent to processing in EU |
|                  | B.1.2 Production of primary material as by product in EU sent to processing in EU   |
|                  | B.1.3 Exports from EU of primary material   |
|                  | B.1.4 Extraction waste disposed in situ /tailings in EU                             |
|                  | B.1.5 Stock in tailings in EU   |
|                  | B.2.1 Company concentration   |
|                  | B.2.2 Country concentration   |
|                  | B.2.3 Governance risk supply  |
|                  | B.2.4 Environmental risk supply   |
|                  | B.2.5 Production of primary material as main product in ROW                         |
|                  | B.2.6 Production of primary material as by product in ROW                           |
|                  | B.2.7 Industry structure  |
|                  | B.3.1 Future supply   |
|                  | B.3.2 Typical time required for production of primary material in EU                |
|                  | B.3.3 Typical time required for production of primary material in ROW               |

# Processing & manufacture

|   |  |   |
|---|--|---|
| C. Processing   | C.1.1 Production of processed material in EU sent to manufacture in EU |   |
|   | C.1.2 Exports from EU of processed material                            |   |
|   | C.1.3 Imports to EU of primary material                                |   |
|   | C.1.4 Imports to EU of secondary material                              |   |
|   | C.1.5 Processing waste in EU sent for disposal in EU                   |   |
|   | C.1.6 Exports from EU of processing waste                              |   |
|   | C.2.1 Company concentration  |   |
|   | C.2.2 Country concentration  |   |
|   | C.2.3 Governance risk supply   |   |
|   | C.2.4 Environmental risk supply  |   |
|   | C.2.5 Industry structure   |   |
|   | C.3.1 Future demand  |   |
|   | D. Manufacture   | D.1.1 Production of manufactured products in EU sent to use in EU |
|   |  | D.1.2 Exports from EU of manufactured products                    |
| D.1.3 Imports to EU of processed material                 |  |   |
| D.1.4 Manufacture waste in EU sent for disposal in EU     |  |   |
| D.1.5 Manufacture waste in EU sent for reprocessing in EU |  |   |
| D.1.6 Exports from EU of manufacture waste                |  |   |
| D.2.1 Main uses   |  |   |
| D.2.2 Substitutes   |  |   |
| D.2.3 Economic importance                                 |  |   |
| D.2.4 Industry structure                                  |  |   |
| D.3.1 Future supply                                       |  |   |





# Use, collection & recycling

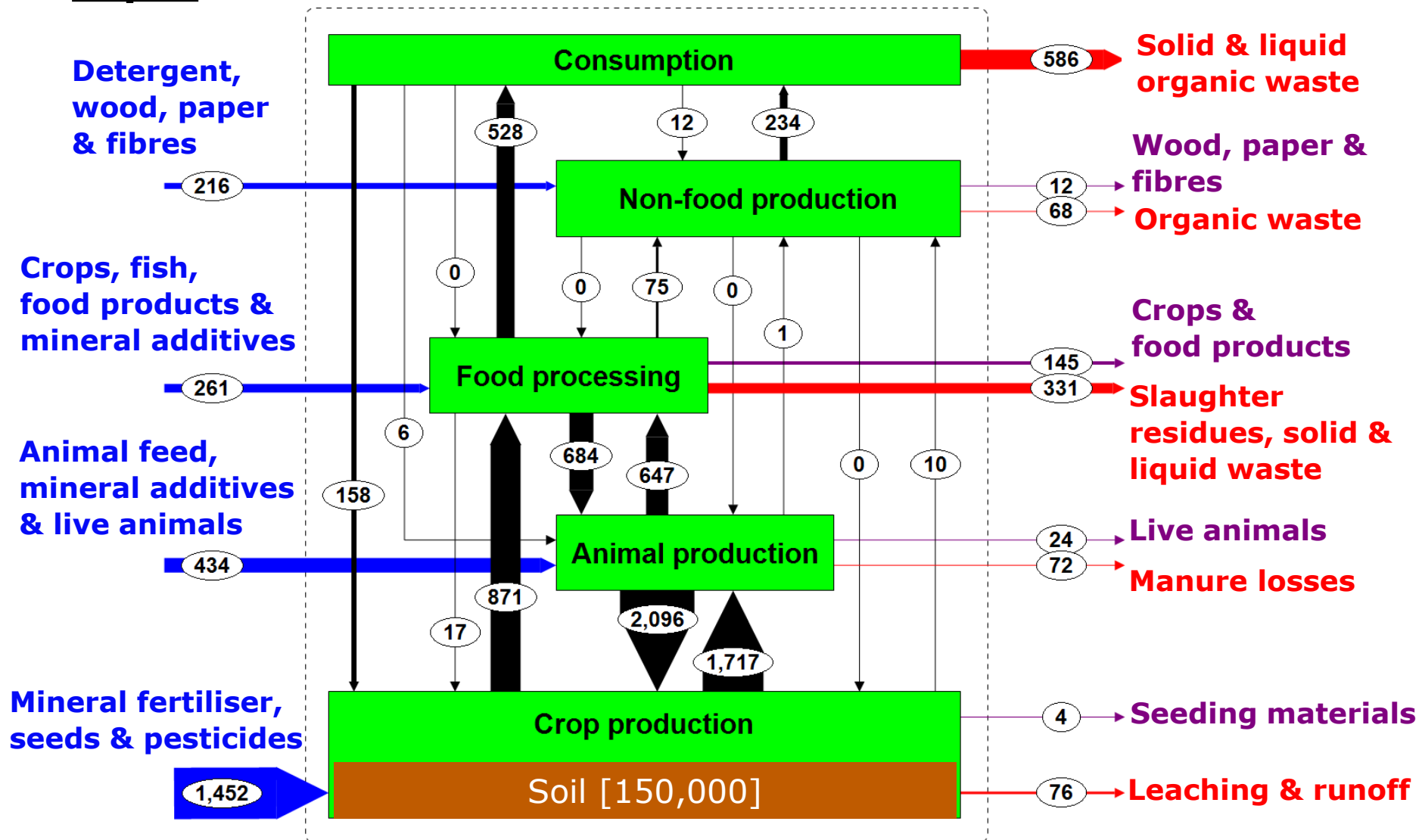
|               |   |
|---------------|---|
| E. Use        | E.1.1 Stock of manufactured products in use in EU   |
|               | E.1.2 Stock of manufactured products at end-of-life that are kept by users in EU                                  |
|               | E.1.3 Exports from EU of manufactured products for reuse  |
|               | E.1.4 Imports to EU of manufactured products  |
|               | E.1.5 In use dissipation in EU  |
|               | E.1.6 Products at end of life in EU collected for treatment   |
| F. Collection | F.1.1 Exports from EU of manufactured products at end-of-life   |
|               | F.1.2 Imports to EU of manufactured products at end-of-life   |
|               | F.1.3 Manufactured products at end-of-life in EU sent for disposal in EU  |
|               | F.1.4 Manufactured products at end-of-life in EU sent for recycling in EU   |
|               | F.1.5 Stock in landfill in EU   |
| G. Recycling  | G.1.1 Production of secondary material from post consumer functional recycling in EU sent to processing in EU     |
|               | G.1.2 Exports from EU of secondary material from post consumer recycling  |
|               | G.1.3 Production of secondary material from post consumer non-functional recycling in EU sent to processing in EU |
|               | G.1.4 Recycling waste in EU sent for disposal in EU   |
|               | G.2.1 Functional Recycling rate   |
|               | G.2.2 Non Functional Recycling rate   |
|               | G.2.3 Industry structure  |
|               | G.3.1 Future supply   |

# Phosphorus use in the EU-27 in 2005

## Input

Flows & stocks in Gg = Mkg = kton P per year

## Output



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# Data & methods used

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- As detailed as data allows: 91 sub flows
- Imports, exports, losses and internal flows
- Main data sources: Miterra-Europe, CAPRI, FAOSTAT, Eurostat, reports, articles and experts
- For EU-27 and individual Member States
- Time series if present in data (e.g. FAOSTAT, Eurostat)
- Data for 2005 complete and checked, other base years possible with additional data input
- Entire food system + non-food (e.g. forestry, detergents, pet food, etc.)
- EU-27 corrections for intra/extra trade
- Raw data is balanced based on mass balance principle

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# Phosphorus monitoring challenges

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- Unclear definitions and not enough detail in data
- Data quality: trade > production > consumption > recycling
- Data gaps for waste flows and (new) recycling flows
- Eurostat data is incomplete and inconsistent
- Report/article data mostly not recent and specific base years
- Trade databases not available for all products/materials
- Data gaps requires balancing the data
- Uncertainties for most data unknown
- Industry data not publically available, sometimes commercially, but no peer reviewed

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Thank you for  
your attention

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**Questions? Comments? Suggestions?**

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**Website: [kimovandijk.weebly.com](http://kimovandijk.weebly.com)**

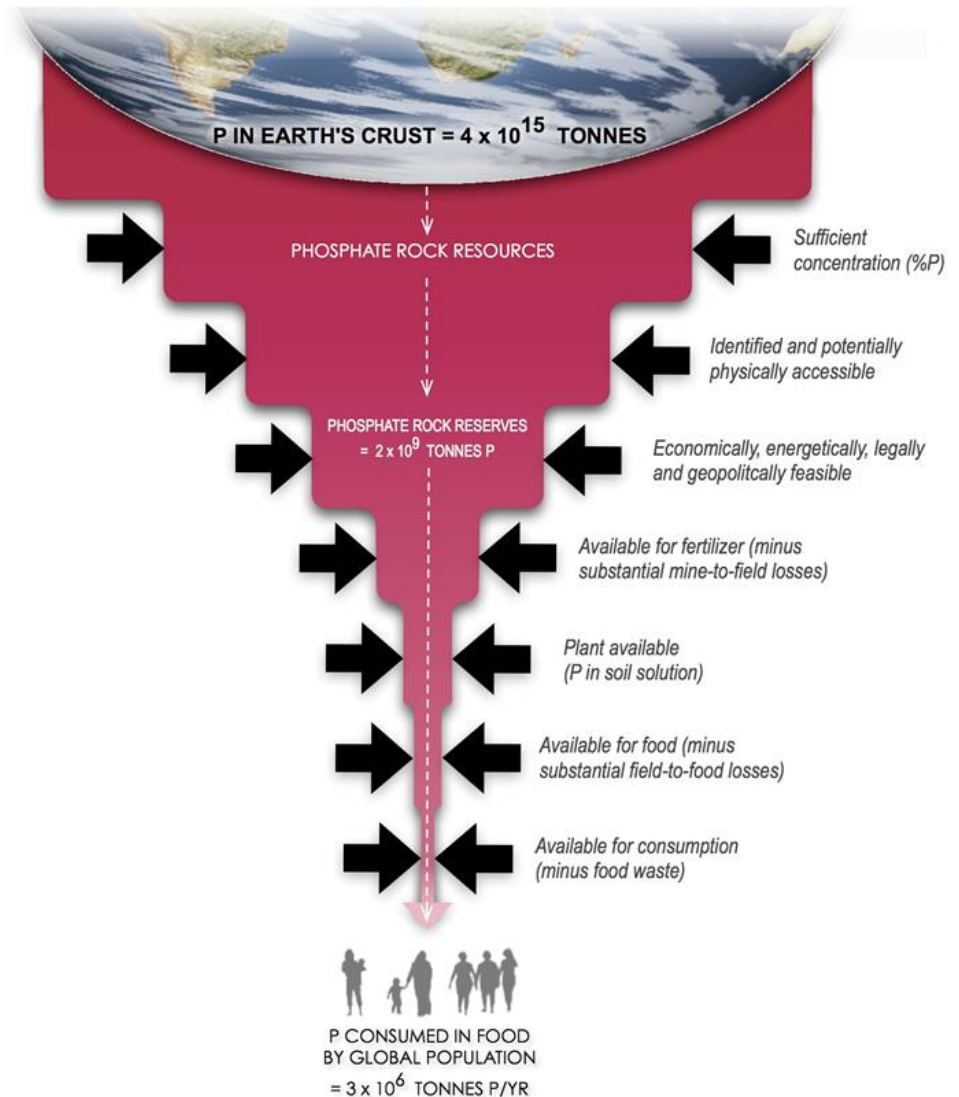


**WAGENINGEN UR**  
*For quality of life*

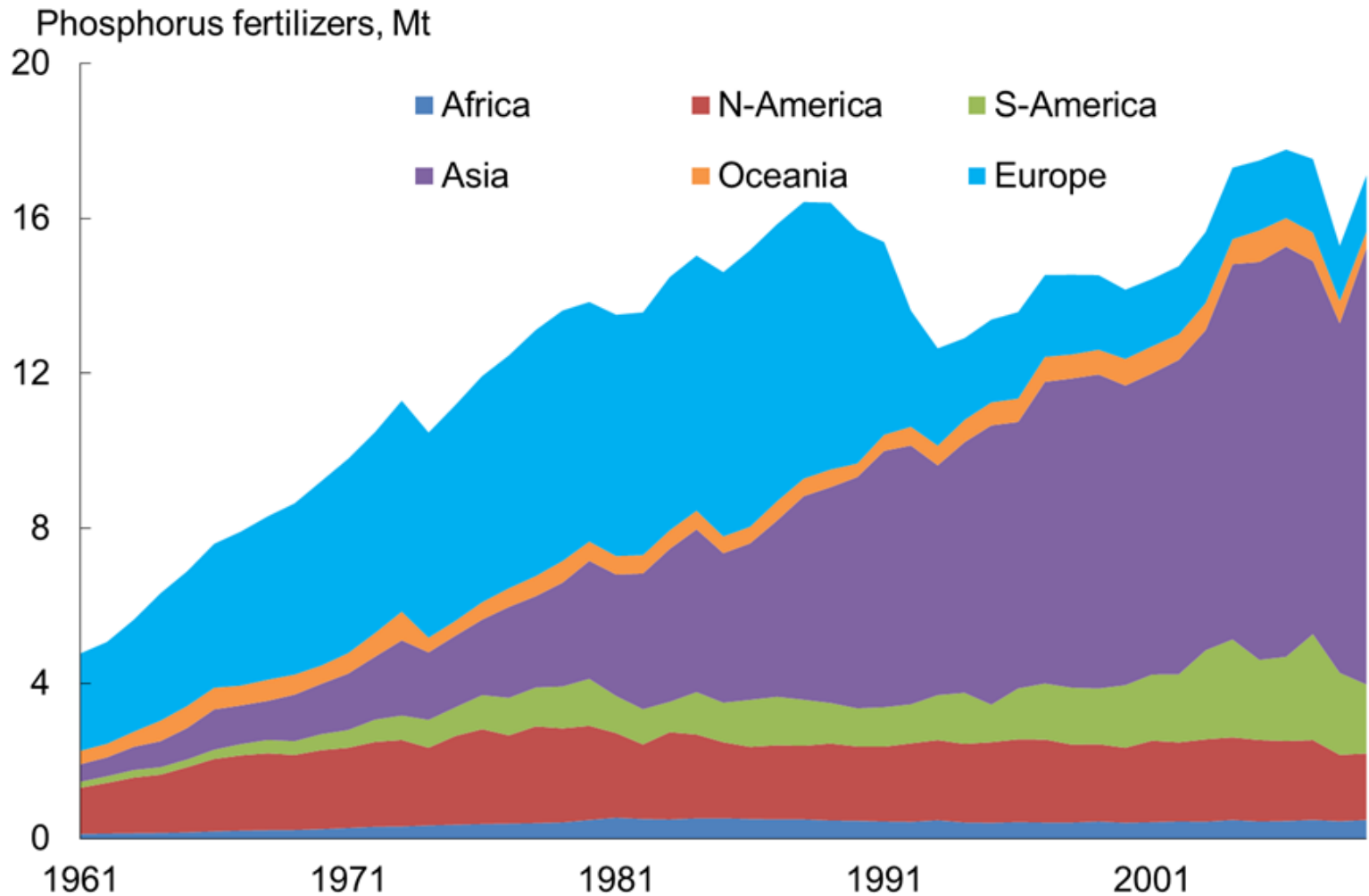


# Phosphorus challenge

- Non-renewable at human time scale
- Spatially concentrated: geopolitical dependency and tension
- Relatively low price, but price volatility (2008 case)
- Lower P-rock quality:
  - decreasing P content
  - impurities (e.g. cadmium, uranium)
- Pollution and eutrophication

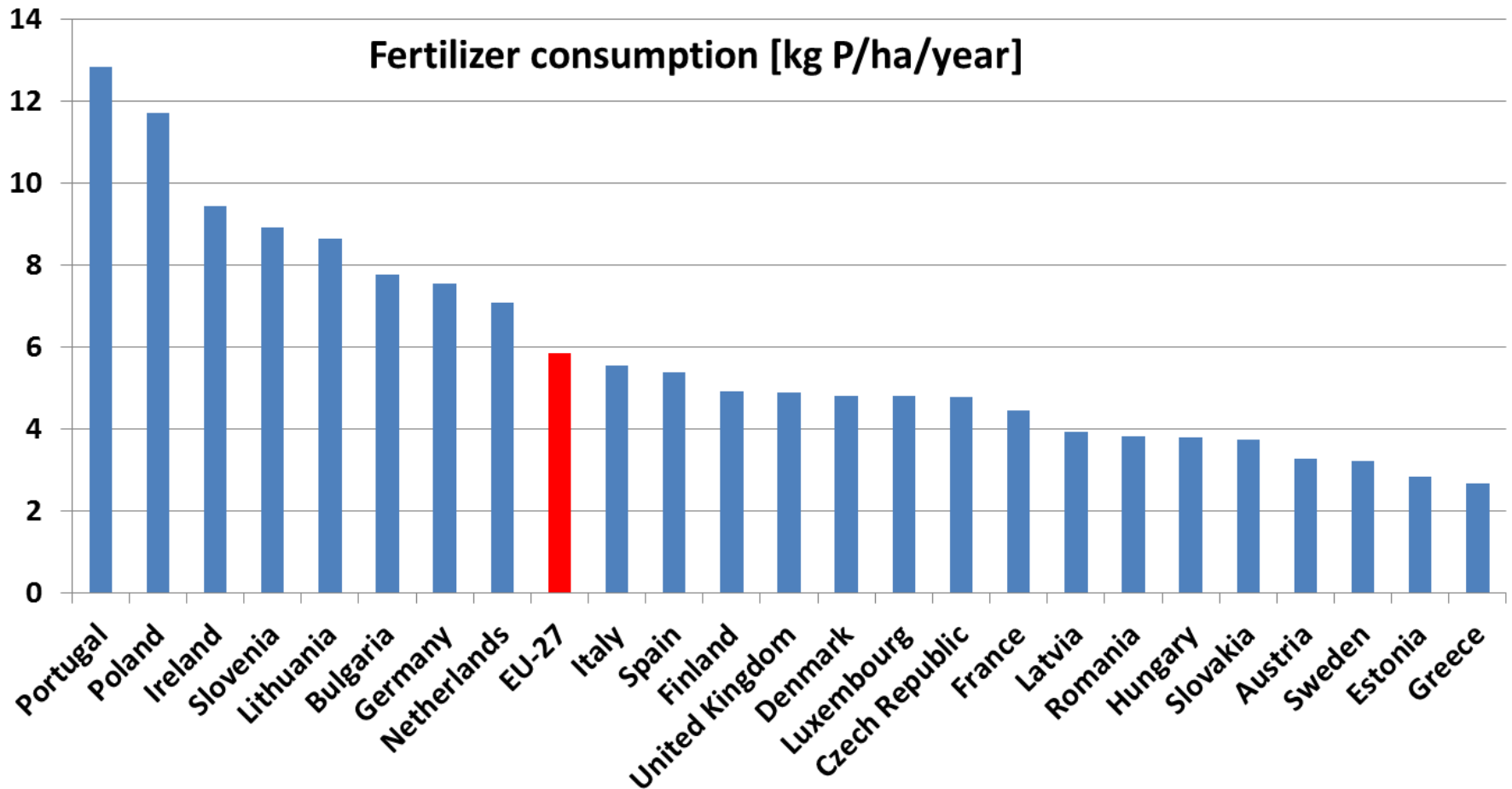


# Global fertilizer P consumption 1961-2010

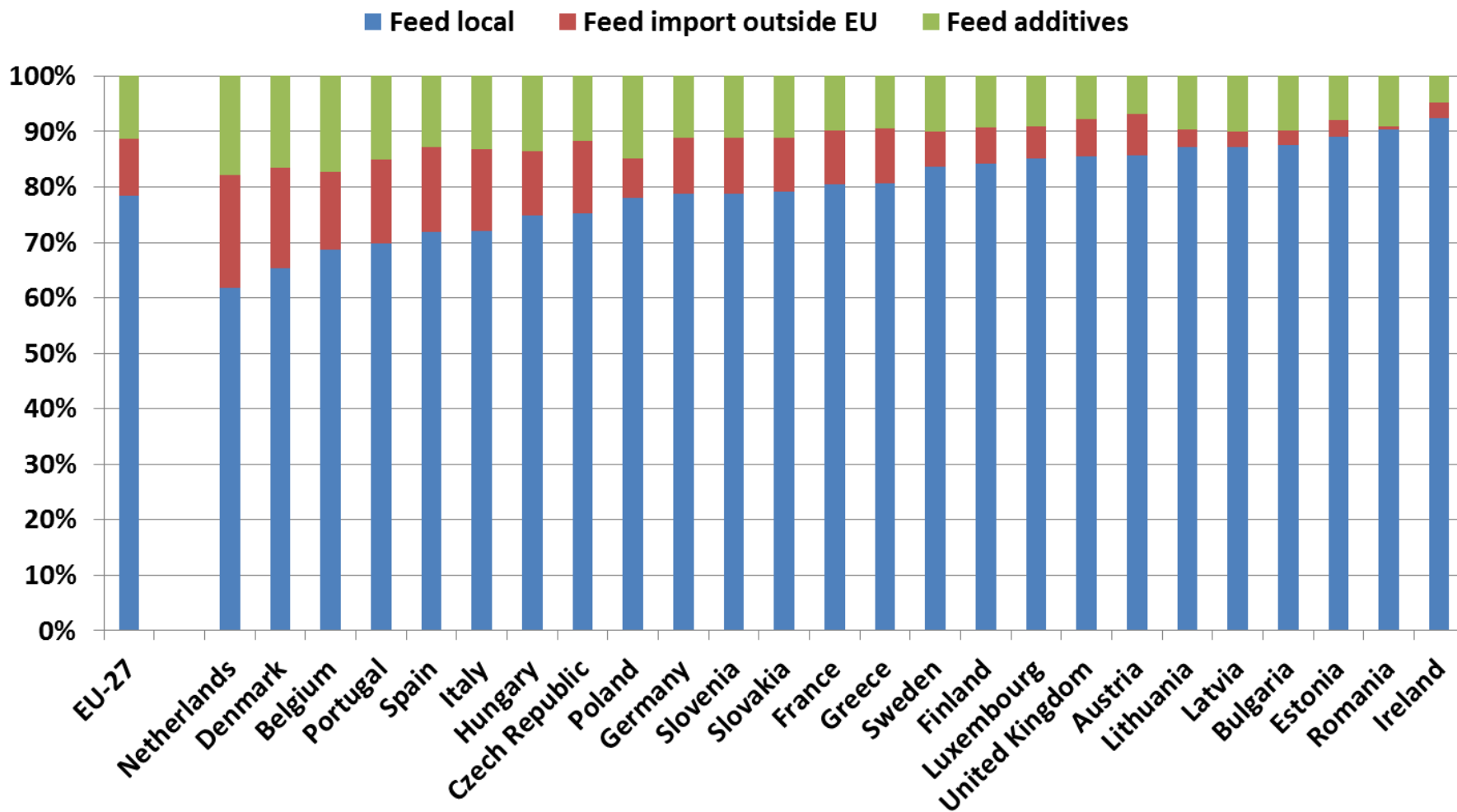




# Fertilizer P consumption in EU-27 in 2010

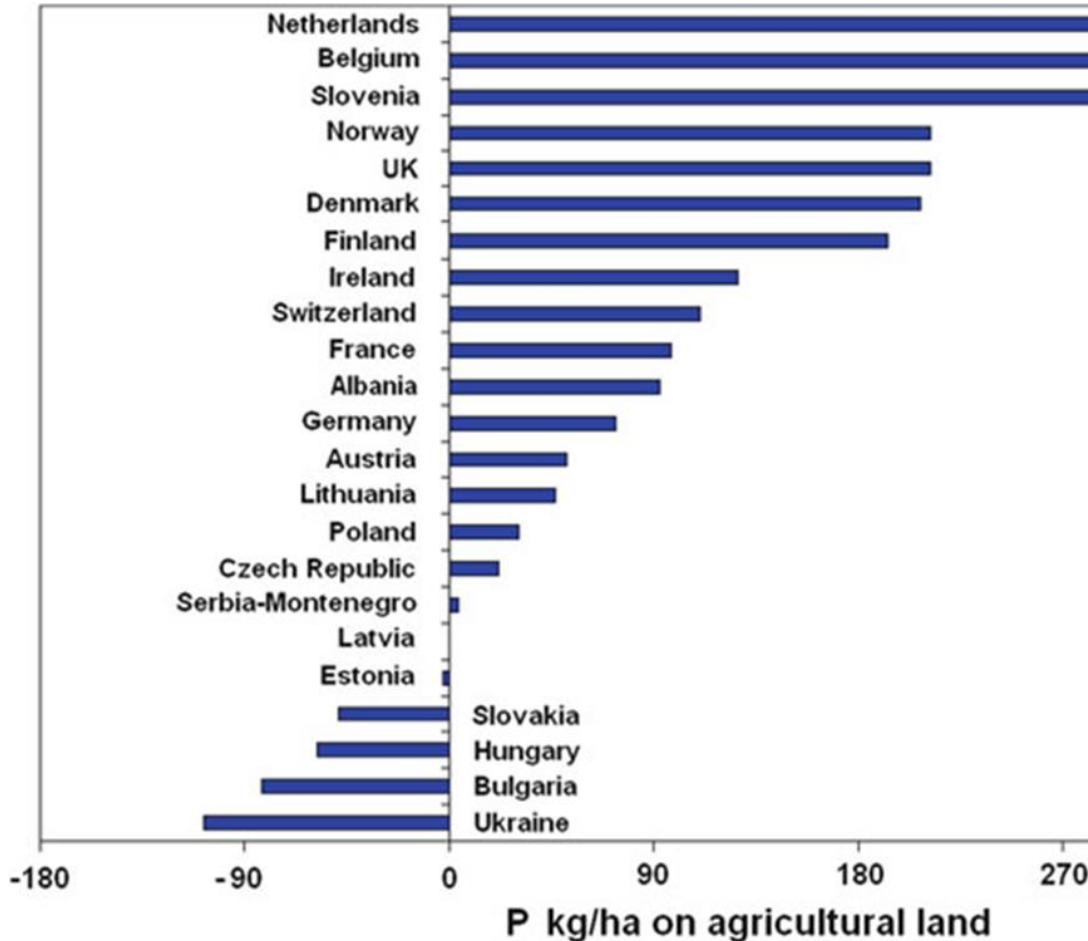


# Animal feed P origin in EU-27 in 2005



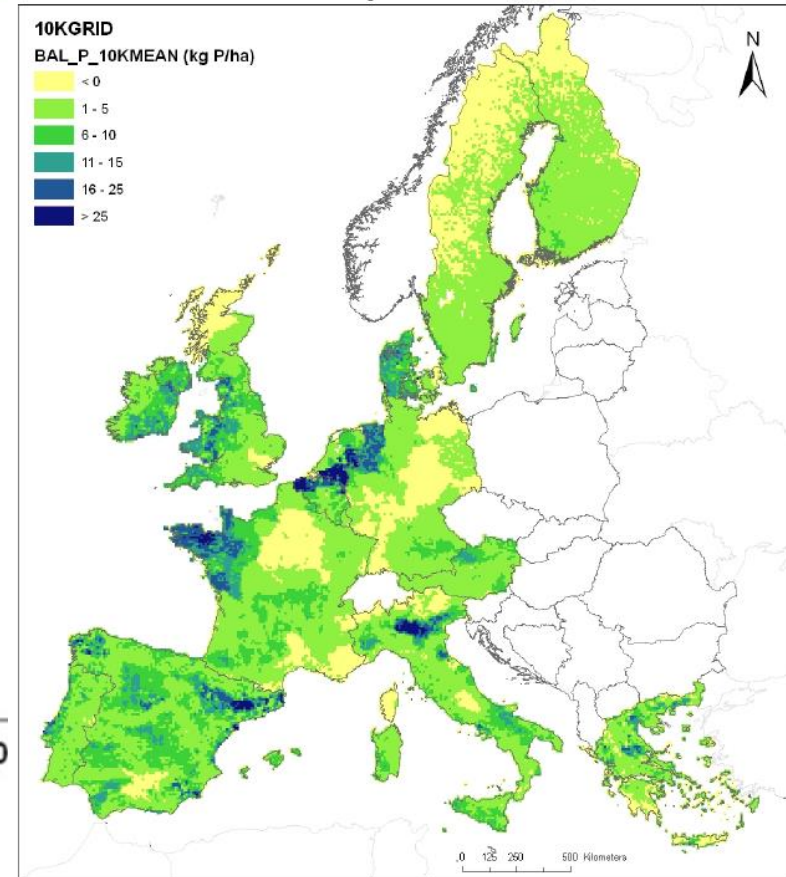
# Agronomic P balances in the EU

Source: Csathó & Radimsky 2012



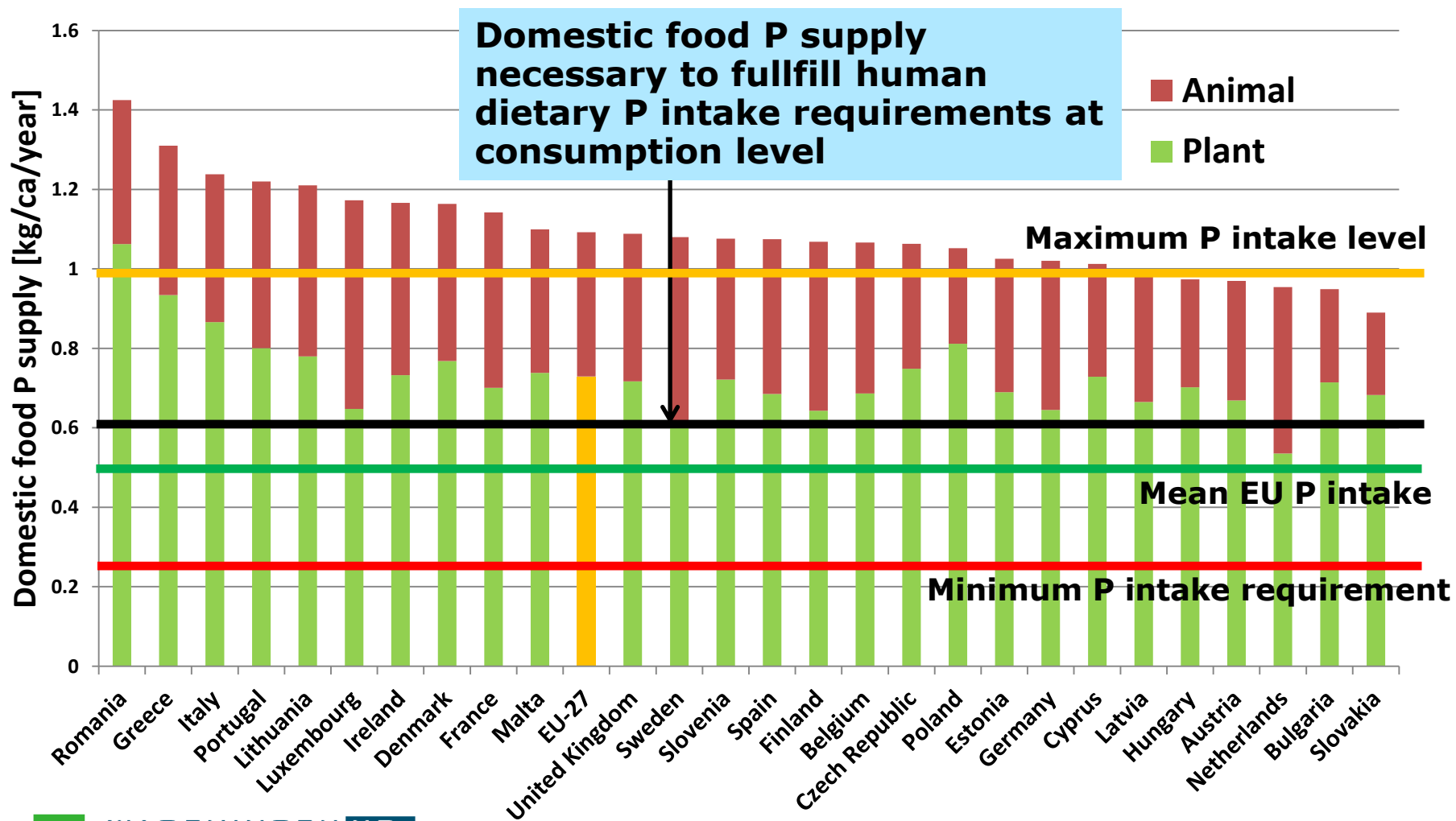
**Estimated cumulative P balances [kg P/ha] of EU countries during 1991–2005**

Source: Csathó & Radimsky 2012

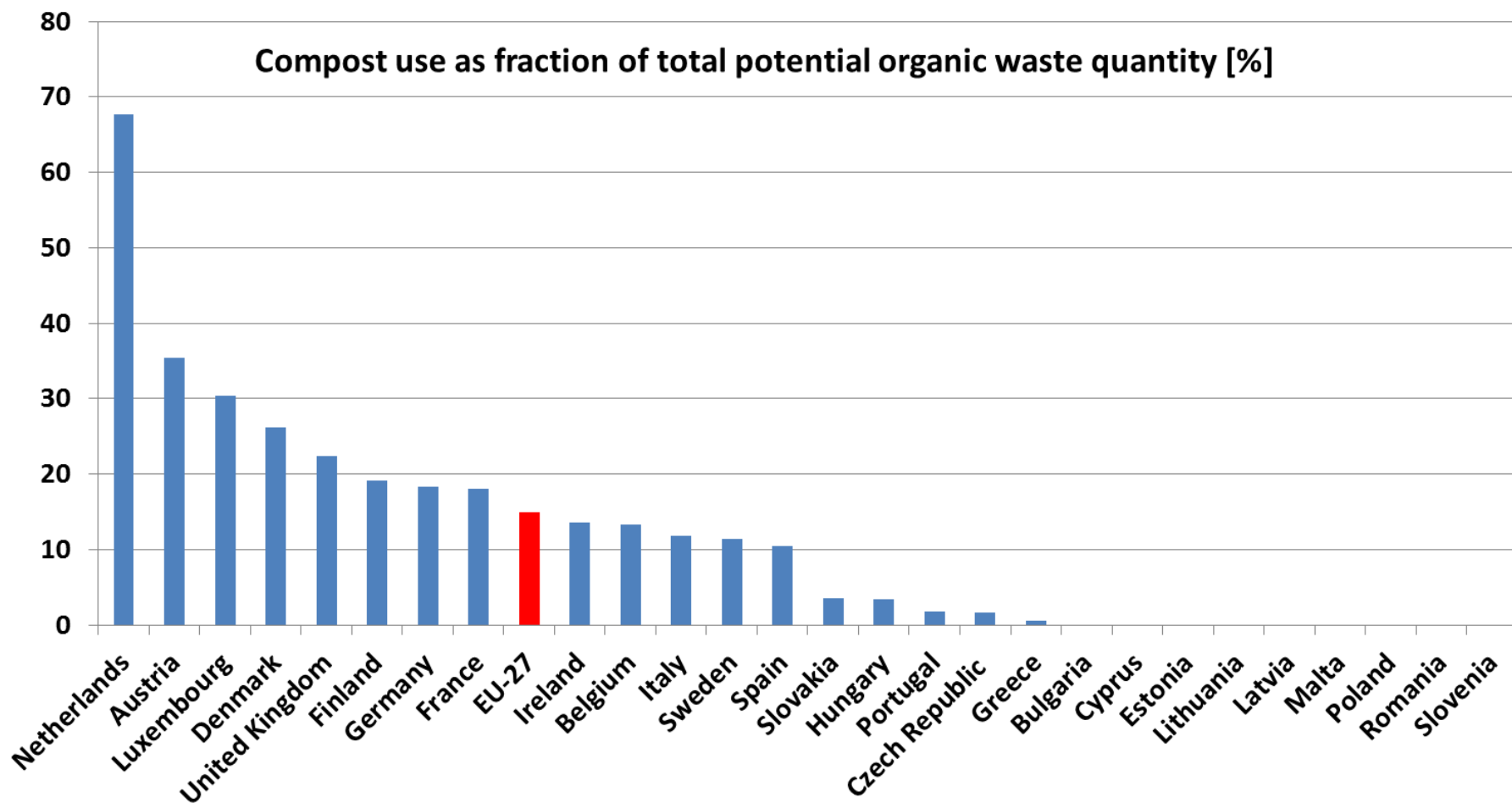


**Annual regional agricultural P balances [kg P/ha] for EU-15 in 2000**

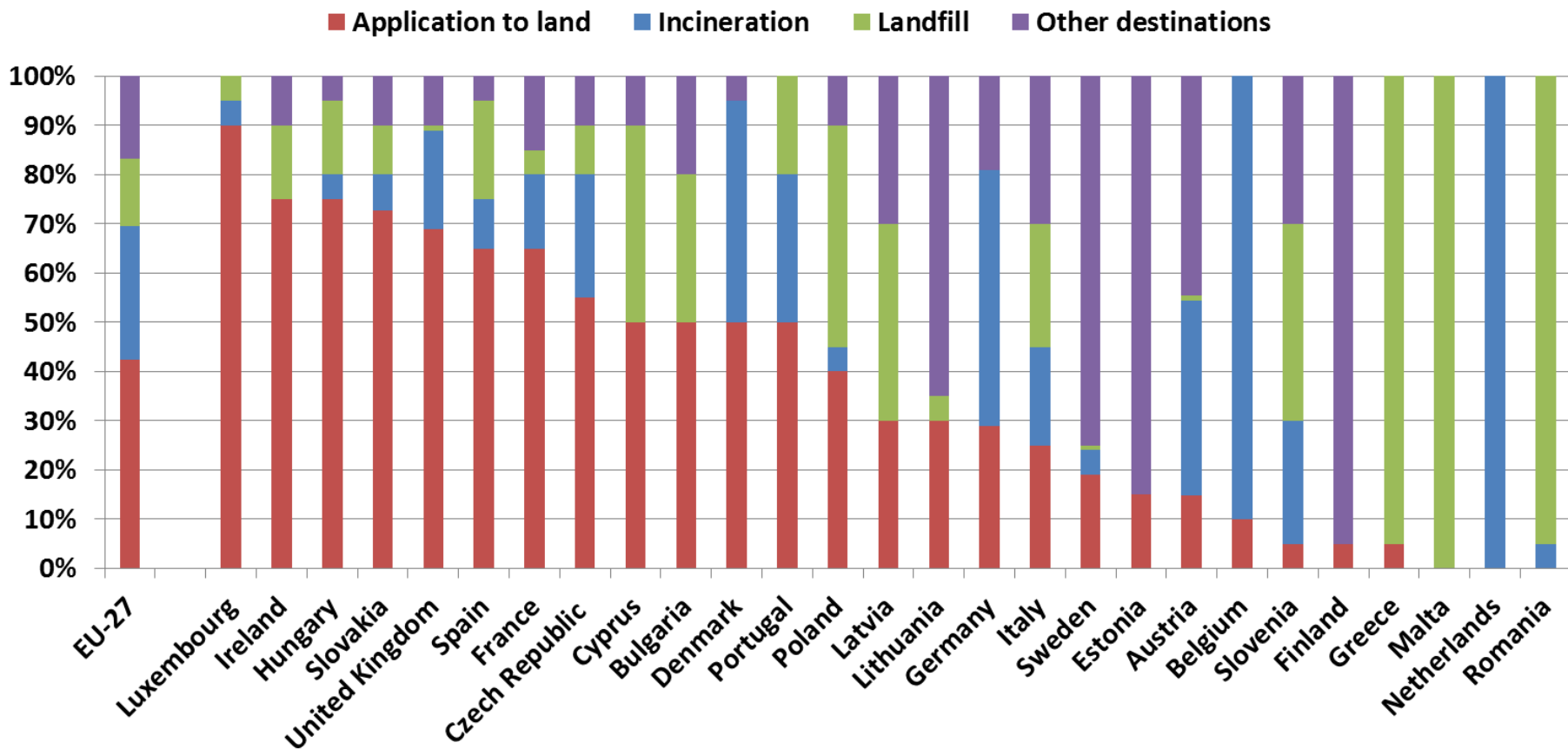
# Domestic food P supply in EU-27 in 2005



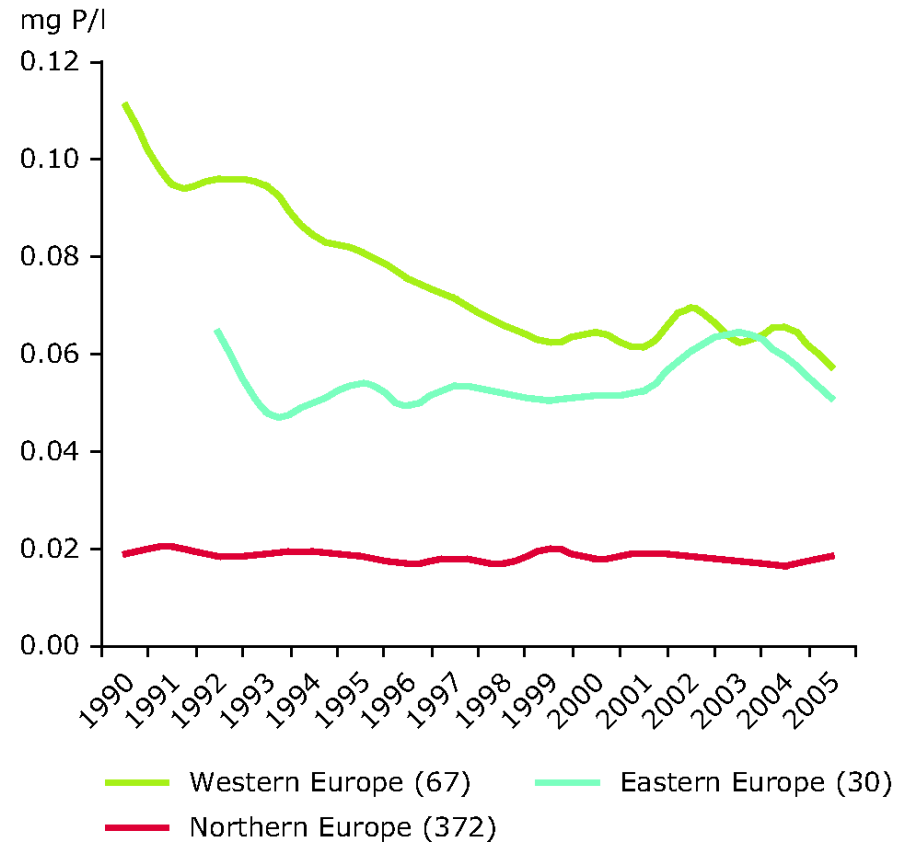
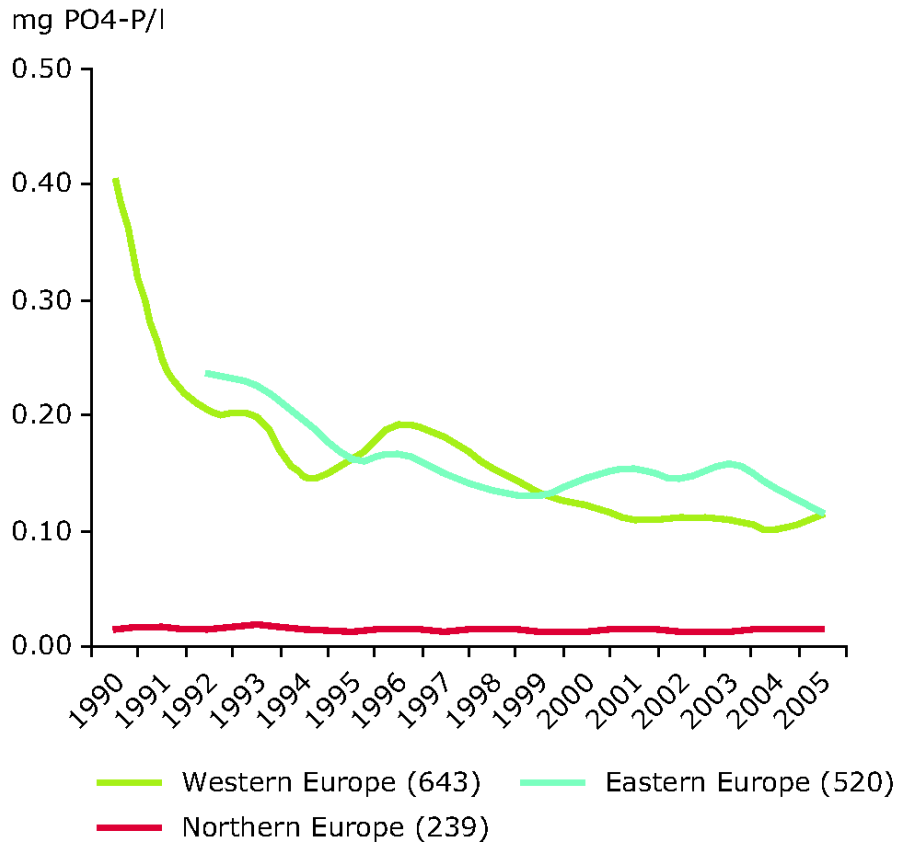
# Reuse of organic waste in EU-27 in 2005



# Sludge destinations in EU-27 in 2010



# P concentrations in rivers and lakes in EU regions, period 1990 - 2005





## Press release

11 December 2014

### Nutrients Recovery - eMarket platform launched!

#### European project P-REX and European Sustainable Phosphorus Platform launch eMarket platform to facilitate the recovery of nutrients.

The eMarket platform enables match making between suppliers of recovered nutrients (and potential end-users looking for secondary raw materials and products).

Suppliers of recovered nutrients include water utilities, manure processing plants, waste management companies. Potential users cover the agricultural supply chain from fertiliser manufacturing (use as a secondary raw material), through fertiliser blenders and distribution, to agricultural cooperatives and farmers, as well as other nutrient users such as nurseries, parks and gardens, forestry and land reclamation.

The eMarket platform is non-commercial and facilitates the market development for secondary nutrients. Interested companies, utilities, farmers and other nutrient suppliers or users are invited to register their offer or requirements online. Use and participation are free of charge with information/content given on voluntarily base.

With regards to long term sustainability beyond the duration of P-REX as a project, the eMarket has been directly incorporated into the website of the [European Sustainable Phosphorus Platform \(ESPP\)](#).

The eMarket-database will provide a wide range of information: type of product, nutrients content, quantities available, physical location of production, supply/transport logistics

The eMarket has been developed within the EU FP7 funded project P-REX (contract no. 308645; [www.p-rex.eu](http://www.p-rex.eu)) and was shaped by many stakeholders in and outside the project.

Let's make nutrient recovery and recycling happen!

<http://e-market.phosphorusplatform.eu/>

#### Contact:

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D 10709 Berlin

Tel: +49 30 53653 841

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**KOMPETENZZENTRUM  
Wasser Berlin**



European Sustainable Phosphorus Platform



# **Statuts de l'association sans but lucratif European Sustainable Phosphorus Platform (ESPP)**

Le 2 décembre 2014, à Bruxelles, se sont réunies les personnes morales suivantes et ont déclaré l'établissement d'une association sans but lucratif selon les statuts repris ci-après.

## **Personnes morales fondatrices présentes**

Voir l'acte de constitution.

## **Chapitre I: dénomination et siège social**

### **Article 1: forme juridique et dénomination**

Une association sans but lucratif est établie conformément au Titre 1 de la loi belge du 27 juin 1921 et à ses amendements ultérieurs sous la dénomination "**European Sustainable Phosphorus Platform**" (ci-après "ESPP" ou "l'Association").

### **Article 2: Siège social**

Le siège social de l'association, qui doit être localisé en Belgique, est établi au 34 rue Henri Wafelaerts, 1060 Bruxelles, dans l'arrondissement judiciaire de Bruxelles.

L'adresse du siège social peut être modifiée par décision du Conseil d'Administration (CA = Board of Directors) et uniquement si elle se situe à l'intérieur de la même zone linguistique de la Belgique. Cette décision doit faire l'objet d'une confirmation par l'Assemblée Générale suivante. Une telle modification sera déclarée au Tribunal de Commerce couvrant la nouvelle adresse et sera publiée dans les annexes du Moniteur Belge.

## **Chapitre II: Objectifs et durée**

### **Article 3: Objectifs et activités**

Les objectifs d'ESPP sont de promouvoir, faciliter, contribuer à et/ou mettre en œuvre la gestion durable du phosphore en Europe


Ces objectifs comprennent notamment, de façon non limitative, les enjeux suivants :

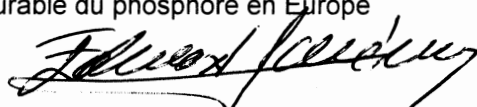
- Le phosphore comme ressource non-renouvelable et essentielle pour l'agriculture (production d'alimentation) et pour l'industrie en Europe
- Soutenabilité de la fourniture de la roche de phosphate, l'extraction minière, les procédés et les utilisations industrielles
- Réutilisation, récupération et recyclage du phosphore, en synergie avec d'autres nutriments/minéraux et énergie/carbone organique
- Efficacité et efficience de l'utilisation du phosphore en agriculture (productions végétales et élevage) et dans la bio-économie (bio-énergies, production de bio-matériaux ...)
- Soutenabilité et sécurité de la chaîne alimentaire, depuis la production jusqu'à la consommation finale

ESPP peut mener toute action légale et engager toute activité appropriée à la poursuite de ses objectifs.

L'association peut engager toute activité directement ou indirectement liée à ses objectifs et peut s'intéresser ou prêter concours à toute action comparable qui est cohérente avec ces objectifs. Plus particulièrement, et de façon non limitative, ESPP mènera les actions suivantes dans le cadre de ses objectifs :

- Promouvoir les principes généraux de gestion durable du phosphore par des communications et la sensibilisation
- Faciliter la définition d'une vision partagée de la gestion durable du phosphore en Europe
- Identifier, initier ou soutenir des dialogues, réseaux, échanges d'information, innovations, actions collaboratives, politiques, exemples et modèles économiques, chaînes de valeur ...
- Identifier et agir concernant des obstacles, proposer des solutions, communiquer sur les opportunités
- Contribuer au développement, à la propagation et la mise en application de la connaissance
- Faciliter le dialogue concernant des propositions de politiques, réglementations ou actions pouvant contribuer à la gestion durable du phosphore en Europe

  
Antoine Hoch







- Contacts, communications et sensibilisations avec différents secteurs et acteurs, dont : l'agriculture, engrais et alimentation animale, chimie et minéraux, déchets et eaux usées, industries agro-alimentaires, bio-ressources et bio-énergies, sécurité alimentaire et régimes alimentaires
- Soutenir le développement de plateformes/réseaux phosphore/nutriments en Europe et d'actions à différentes échelles favorisant une économie circulaire pour le phosphore
- Coopérer avec des organisations impliquées dans la gestion du phosphore au-delà de l'Europe, dont les entreprises et pays producteurs de roche de phosphate, des réseaux, des conférences, des fournisseurs de technologies, des organismes concernés par la gouvernance mondiale du phosphore

ESPP n'a pas d'objectifs lucratifs . Elle n'engagera ou ne participera à des actions commerciales que dans la mesure où ces activités contribuent aux objectifs de l'association. ESPP peut notamment promouvoir les activités commerciales de ses Membres et Partenaires en ce que ces activités sont cohérentes avec les objectifs d'ESPP.

ESPP s'assurera dans toutes ses activités le respect de toute réglementation anti-trust applicable.

Les Membres et Partenaires d'ESPP ne doivent pas rechercher dans leur participation aux activités d'ESPP l'obtention directe d'avantages économiques . L'objectif d'ESPP ne doit pas être d'obtenir des avantages économiques directes pour ses Membres ou Partenaires.

#### Article 4: Durée

L'association est créée pour une durée illimitée.

### Chapitre III: Membres et Partenaires

#### Article 5: Deux catégories: Membres, Partenaires

Il existe deux catégories différentes de membres :

- **Membres (membres pléniers)**
  - membres pléniers de l'association
  - participent à la prise de décision (droit de vote comme défini ci-après)
  - paient la cotisation annuelle
- **Partenaires (membres adhérents)**
  - membres adhérents conformément à l'Article 2ter de la loi du 27 juin 1921
  - voix consultative seulement dans la prise de décision (sans pouvoir de vote)
  - paient la même cotisation annuelle que les Membres, ou apportent une contribution équivalente en nature
  - ont les mêmes accès que les Membres aux informations et aux autres services et activités d'ESPP, y compris la même mise en valeur sur les documents, site web, etc.

Les Membres de l'association sont les personnes morales suivantes :

- initialement et tant qu'elles continuent à remplir les conditions fixées ci-après, les organisations ayant signé les présents statuts établissant l'ESPP
- toute organisation remplissant les conditions ci-après, admise par la suite comme Membre par le Conseil d'Administration (CA = Board of Directors).

L'association doit avoir à tout moment un minimum de trois Membres.

#### Article 6: Conditions pour être Membre ou Partenaire

- **Membres:**

- a) Statut légal: toute personne morale, par exemple : entreprises, associations, gouvernements, collectivités locales, centres de recherche ...
- b) Activités:
  - doit avoir des activités ou produits liés à la gestion durable du phosphore
  - ne doit pas mener des activités contraires aux objectifs d'ESPP
- c) Accord écrit (par ex. email) aux statuts d'ESPP
- d) Paiement de la cotisation annuelle, pour le montant et selon les conditions fixées par l'Assemblée Générale (AG)

- **Partenaires**

- Doivent respecter les conditions ci-dessus (a) et (b)
- Doivent payer la même cotisation annuelle que les Membres ou doivent apporter une contribution en nature équivalente selon les conditions définies par le Conseil d'Administration

#### Article 7: Droits et obligations des Membres et Partenaires

Les Membres et Partenaires auront les droits qui leur sont attribués dans les présents statuts ou dans les décisions ou règles internes prises ou adoptées par le Conseil d'Administration ou l'Assemblée Générale conformément aux présents statuts.

Les Membres pourront participer et voter aux Assemblées Générales avec les droits de votes fixés ci-après. Les Partenaires pourront participer aux Assemblées Générales, en tant qu'observateurs avec voix consultative, sans droit de vote.

Les Membres et Partenaires, même en quittant l'association, ne disposent d'aucun droit sur les biens de l'ESPP.

Les Membres et Partenaires ont le droit de consulter les Comptes Rendus de L'Assemblée Générale et du Conseil d'Administration (Board of Directors).

### **Article 8: Candidature pour devenir Membre ou Partenaire**

Toute organisation éligible souhaitant devenir Membre ou Partenaire d'ESPP doit envoyer à l'ESPP (courrier papier ou électronique) une candidature pour devenir Membre ou Partenaire justifiant de leur éligibilité et précisant leur acceptation des présents statuts. Le Conseil d'Administration examinera la demande à sa prochaine réunion. Sa décision est communiquée à l'organisation candidate par courrier (papier ou électronique), accompagnée si la décision est positive par les informations concernant le paiement de la cotisation. La cotisation est payable à partir de la date de la décision du Conseil d'Administration, proportionnée pour la première année au temps restant à courir entre la décision d'admission et la fin de l'année comptable. La décision du Conseil d'Administration concernant l'admission de Membres ou Partenaires doit être justifiée selon les conditions d'éligibilité reprises à l'article 6, mais cette décision est sans appel et ne peut pas être contestée par l'organisation candidate. Si la candidature est refusée, la même organisation peut postuler à nouveau mais une seule fois.

### **Article 9: Départ de l'association des Membres et Partenaires**

Les Membres et Partenaires peuvent démissionner de l'Association à tout moment en informant l'ESPP par écrit (courrier postal ou électronique). Le départ de l'Association sera immédiat dès réception de l'écrit par ESPP. Toutefois, les cotisations restent dues pour l'année comptable en cours.

L'Association ne peut exclure une organisation éligible Membre ou Partenaire sauf dans les situations suivantes :

- Le non-paiement de la cotisation due en tant que Membre ou Partenaire dans les délais fixés par l'Assemblée Générale ou le Conseil d'Administration entraîne l'exclusion automatique
- L'Assemblée Générale peut exclure d'ESPP tout Membre ou Partenaire soupçonné, par vote de l'Assemblée Générale conforme aux conditions ci-après, d'avoir mené ou d'être responsable d'actions qui seraient gravement en conflit avec les objectifs ou les statuts d'ESPP. Le Conseil d'Administration peut suspendre temporairement un Membre ou Partenaire s'il considère que ces critères s'appliquent en attente d'une décision à prendre par la prochaine réunion de l'AG. L'exclusion n'entraîne pas le remboursement des cotisations ni aucune autre compensation.

## **Chapitre IV: Ressources financières, actif et cotisations**

### **Article 10: Ressources et actifs**

Les ressources de l'ESPP constituant son avoir social dans le cadre de ses objectifs sans but lucratif comprennent :

- Les cotisations annuelles et autres contributions versées par les Membres et Partenaires
- Honoraires pour services fournis par ESPP, revenus de ventes de produits, contributions pour des projets développés par ESPP pour ses Membres, Partenaires ou des tiers
- Toute subvention, don ou financement reçu d'un tiers
- Tout autre source de revenu autorisée par la loi

### **Article 11: Cotisations et autres contributions des Membres et Partenaires**

Le montant des cotisations pour les Membres et Partenaires est fixé par l'AG par un vote avec majorité simple (fixé pour l'année N+1 si l'AG a lieu après le 1<sup>er</sup> juillet ou pour l'année en cours si l'AG a lieu avant cette date).

La cotisation peut être différente pour différents types d'organisation à condition que le calcul s'appuie sur des critères objectifs et que le niveau de cotisation le plus élevé ne doit pas excéder cinq fois le niveau le plus bas.

Le montant de la cotisation annuelle ne peut pas excéder 20 000 Euros

Les niveaux de cotisation pour des Membres et des Partenaires du même type d'organisation sont identiques.

Les cotisations payées ne sont en aucun cas remboursables ni en totalité ni en partie.

Les cotisations ne couvrent pas d'éventuels projets ou services spécifiques réalisés par ESPP pour un ou plusieurs Membres ou Partenaires.

## **Chapitre V: L'Assemblée Générale (AG)**

### **Article 12: Membres de l'Assemblée Générale**

L'Assemblée Générale est l'organe de décision souveraine de l'ESPP. Elle seule peut décider de modifier les statuts, objectifs, politique générale et stratégie de l'Association.

L'Assemblée Générale est composée de tous les Membres.

Elle se réunit au moins une fois par an.

Le nombre de votes dont dispose chaque Membre à l'AG est proportionnée à sa cotisation pour l'année N si l'Assemblée Générale a lieu après le 1<sup>er</sup> juin ou proportionnée à sa cotisation pour l'année N-1 si elle a lieu avant cette date.

Les Partenaires peuvent également participer à l'Assemblée Générale mais seulement de façon consultative (droit à l'information, droit à la parole, mais pas de vote).

Les droits de vote de chaque Membre sont déterminés selon le calcul suivant : cotisation / 100 = nombre de votes

Le Conseil d'Administration informera chaque année les Membres du nombre total de votes disponibles pendant l'année comptable précédant.

Chaque Membre et Partenaire peut être représenté à l'Assemblée Générale par une seule personne physique, qui peut être désigné par le Membre ou Partenaire pour chaque réunion de l'Assemblée, mais qui doit être un représentant légal ou doit bénéficier d'un mandat approprié.

Un Membre (avec ses droits de vote) peut être représenté par un autre Membre pourvu que celui-ci soit mis en possession d'un mandat valable. Chaque Membre peut représenter (et voter pour) au maximum deux autres Membres.

Les Membres et Partenaires supportent individuellement leurs frais de personnel, de déplacement et autres frais liés aux Assemblées Générales.

L'Assemblée Générale est présidée par le Président du Conseil d'Administration. Elle est tenue à tout endroit désigné pour la réunion suivante par l'Assemblée Générale, ou à défaut par le Conseil d'Administration. Elle est convoquée par le Président du Conseil d'Administration, ou à la demande d'au moins un tiers des Membres.

### **Article 13: Les attributions de l'Assemblée Générale**

L'Assemblée Générale a le pouvoir de :

- de modifier les statuts ou prononcer la dissolution de l'Association ;
- de nommer et révoquer les Administrateurs, nommer et révoquer des observateurs au conseil d'administration ;
- d'admettre tout nouveau membre ou d'exclure tout membre existant ;
- d'approuver annuellement le budget et les comptes proposés par le Conseil d'Administration ;
- d'approuver le plan d'action annuel ;
- de donner décharge aux membres du Conseil d'Administration et aux auditeurs
- de fixer le montant de la cotisation annuelle des Membres et des Partenaires et les modalités de paiement ;
- de nommer un ou des auditeurs
- d'exercer tous autres pouvoirs et décisions conformément à la loi belge et aux statuts.

### **Article 14: Organisation des réunions de l'Assemblée Générale**

Les Membres et Partenaires sont convoqués à l'Assemblée Générale par le Conseil d'Administration. La convocation comprend l'ordre du jour et est envoyée à tous les Membres et Partenaires par courrier (papier ou électronique) au moins trois semaines avant la date de la réunion. Les réunions peuvent avoir lieu physiquement ou de façon virtuelle (réunion téléphone, conférence vidéo, conférence électronique en ligne ...). Pour les réunions électroniques, les Membres et Partenaires participant sont considérés comme présents.

## Article 15: Votes de l'Assemblée Générale

- a) Quorum: les décisions de l'Assemblée Générale sont valables seulement si au moins un cinquième des Membres (Membres uniquement, non pas Partenaires) et au moins un cinquième des votes des Membres sont présents ou représentés, sauf comme précisé ci-après
- b) Les décisions de l'Assemblée Générale sont prises par majorité simple des votes des Membres présents ou représentés sauf comme précisé ci-après. Dans le cas d'un vote à égalité, l'organisation dont le Président du Conseil d'Administration est le représentant dispose d'un vote prépondérant.
- c) Par exception, les décisions concernant (i) l'exclusion d'un Membre ou d'un Partenaire (ii) la modification des statuts (iii) la dissolution de l'Association ou (iv) l'utilisation de l'actif net nécessitent un quorum de 2/3 des votes des Membres présents ou représentés et ne peuvent être prises qu'avec une majorité pour (i) ou (iv) d'au moins deux tiers et pour (ii) et (iii) d'au moins quatre cinquièmes des votes des Membres présents ou représentés
- d) Si les conditions ci-dessus concernant le quorum en (a) ou (c) ne sont pas respectées, une nouvelle réunion de l'Assemblée Générale sera tenue dans un délai de six semaines, par réunion physique ou électronique, qui pourra décider valablement sans quorum (quel que soit le nombre de Membres présents ou représentés).

## Article 16: Comptes Rendus

Les décisions de l'Assemblée Générale sont consignées par le Secrétaire du Conseil d'Administration dans un registre de procès-verbaux diffusé à tous les Membres pour validation puis signé par le Président et par un autre membre du Conseil d'Administration. Ces procès-verbaux sont archivés au siège de l'Association. Tous les Membres et Partenaires peuvent, sur demande, recevoir copie des procès-verbaux.

## Chapitre VI: Le Conseil d'Administration

### Article 17: Membres du Conseil d'Administration (administrateurs)

L'association est administré par un Conseil d'Administration (CA), comprenant un nombre impair de membres (administrateurs) qui doivent être : (i) des Membres ou Partenaires de l'ESPP (administrateurs personnes morales) ou (ii) des représentants de Membres or Partenaires de l'ESPP (administrateurs personnes physiques). Les administrateurs sont élus par l'Assemblée Générale, parmi des candidats proposés par les Membres et non par les Partenaires. Ils sont révoqués par l'Assemblée Générale.

Le Conseil d'Administrateur doit avoir au moins trois administrateurs et au maximum sept administrateurs, étant entendu qu'il doit compter à tout moment un membre de moins que le nombre de Membres à l'Assemblée Générale.

Les administrateurs sont élus pour une période d'un an à laquelle s'ajoute la période allant jusqu'à l'Assemblée Générale suivant la fin de cette période d'une année). Cette période d'un an est renouvelable. Par ailleurs, les administrateurs peuvent être révoqués à tout moment.

Le Conseil d'Administration élit parmi ses membres personnes physiques : un Président, un Trésorier (responsable des budgets et comptes à soumettre à l'Assemblée Générale) et un Secrétaire (responsable des questions légales).

Si le Président ne peut participer à une réunion de l'Assemblée Générale ou du Conseil d'Administration, il ou elle est remplacé(e) par l'administrateur personne physique le plus âgé.

### Article 18: Réunions et votes du Conseil d'Administration

Le Conseil d'Administration est convoqué par le Président par courrier (papier ou électronique) comprenant l'ordre du jour, au moins cinq jours francs ouvrables avant la date de la réunion.

Les réunions du Conseil d'Administration peuvent être tenues physiquement ou virtuellement (comme pour les réunions de l'Assemblée Générale). Si au moins un tiers des administrateurs le demande pour des raisons de déplacement, la réunion aura lieu virtuellement.

Les décisions du Conseil d'Administration sont prises par simple majorité des administrateur présents ou représentés. Chaque administrateur dispose d'un vote. Chaque administrateur peut être désigné mandataire d'un autre administrateur au maximum et ce, au moyen d'un mandat papier ou électronique. Le Président dispose d'un vote prépondérant. Les décisions du CA sont valables si au moins la moitié des administrateurs sont présents ou représentés.

Le Conseil d'Administrateur peut décider d'inviter l'ensemble des Membres et Partenaires à ses réunions comme observateurs consultatifs.

Les décisions du Conseil d'Administration sont consignées dans des procès-verbaux, envoyées à l'ensemble des administrateurs pour validation, signées par le Président. Ces procès-verbaux sont archivés au siège de l'Association. Tous les Membres et Partenaires peuvent, sur demande, recevoir copie des procès-verbaux.

### **Article 19: Pouvoirs du Conseil d'Administrateur**

Le Conseil d'Administration a tous les pouvoirs pour l'administration et la gestion de l'Association. Il dispose également des pouvoirs résiduels, c'est-à-dire toute question qui n'est pas expressément attribuée à l'Assemblée Générale par la loi Belge ou par ces statuts.

Le Conseil d'Administration a notamment au moins les pouvoirs suivants :

- Mettre en application les décisions de l'Assemblée Générale
- Préparer les décisions de l'Assemblée Générale
- Préparer et adopter ou proposer à l'Assemblée Générale des règles internes
- Etablir des groupes ou comités, désigner les participants, définir leur mission et durée, surveiller et coordonner leurs activités
- Approuver tout projet engageant ou portant le nom de ESPP
- Sous réserve de validation par l'Assemblée Générale (comme précisé ci-dessus), modifier l'adresse du siège social de l'Association
- Planifier les activités et définir leurs budgets, à l'intérieur du budget global fixé par l'Assemblée Générale
- Prendre les décisions opérationnelles, suivre et mettre en œuvre les plans d'activité et la stratégie
- Gérer le bureau et les salariés

Le Conseil d'Administrateur peut notamment définir et valider des positions, documents ou communications qui seront prises ou publiées par ESPP, avec comme principe que les positions doivent généralement représenter un consensus des Membres et Partenaires convenu après consultation de tous les Membres et Partenaires.

### **Article 20: Délégations**

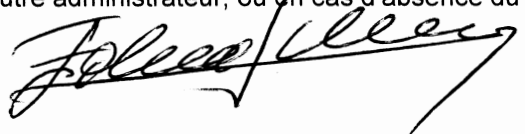
Le Conseil d'Administration peut, sous sa propre responsabilité, déléguer la gestion journalière d'ESPP ou toute tâche ou responsabilité spécifique à l'un des Membres ou Partenaires, à toute personne désignée parmi les salariés des Membres ou Partenaires d'ESPP, ou à tout autre organisation ou personne.

Notamment, le Conseil d'Administration peut désigner et mandater des personne(s) ou organisation(s) comme Secrétariat, Directeur ou équivalent, avec un statut de salarié ou non, qu'elles soient fournisseurs et/ou relevant de toute autre forme de relation contractuelle, pour assurer pour le compte de l'Association la gestion, la représentation, la communication, le développement, la coordination, etc. de celle-ci. Le Conseil d'Administration s'assurera que les actions menées et positions prises pour le compte de l'ESPP par ces personnes ou organisations correspondent aux objectifs de l'ESPP et aux priorités et orientations fixées par l'Assemblée Générale.

Le Conseil d'Administration définira et adoptera un document qui précise les différentes délégations, rôles et responsabilités du Président et – si cela est pertinent – d'autres administrateurs, principaux salariés, représentants, fournisseurs ou intervenants, et qui précisera en cas d'utilité les relations entre ESPP et d'autres organisations (par exemple, avec d'autres plateformes nutriments/phosphore ou structures similaires).

### **Article 21: Représentation**

Tous les contrats, actes, lettres et autres documents engageant ESPP, sauf ceux qui relèvent de la gestion journalière ou d'une délégation spécifique accordée par le Conseil d'Administrateur, sont validés (signés sur papier ou validés électroniquement) par le Président et par un autre administrateur, ou en cas d'absence du Président par trois administrateurs agissant conjointement.



## Chapitre VII: Divers

### Article 22: Année comptable, budget et comptes

L'année comptable d'ESPP commence le 1er janvier et finit le 31 décembre.

Exceptionnellement, pour la première année, l'année comptable commencera le jour de l'établissement et se terminera le 31 décembre 2015. Celle-ci intégrera les fonds disponibles des activités menées au nom d'ESPP préalablement à son établissement.

Le Conseil d'Administration soumet, chaque année à l'Assemblée Générale, les comptes annuels et une proposition de budget du prochain exercice ou de l'exercice en cours. L'Assemblée Générale décide chaque année du budget, lequel comprend une estimation des dépenses correspondant aux projets d'activité de l'ESPP et une estimation des recettes pour financer ces dépenses (y compris notamment les cotisations des Membres et Partenaires).

L'Assemblée Générale approuve chaque année les comptes de l'année écoulée qui ont été préparés par le Trésorier et le Conseil d'Administration.

L'Assemblée Générale peut (notamment, si la loi Belge l'exige) désigner un ou plusieurs auditeurs statutaires chargés de l'audit de la situation financière de l'Association, de ses comptes et de la régularité de ses opérations financières. L'auditeur statutaire rédigera un rapport écrit compréhensif qui sera soumis à l'Assemblée Générale.

### Article 23: Règles internes

Le Conseil d'Administration peut rédiger et adopter ou proposer pour adoption à l'Assemblée Générales des règles internes conformes aux présents statuts et aux orientations définies par l'Assemblée Générale et ce, pour encadrer le fonctionnement de l'ESPP.

### Article 24: Dissolution de l'association


En cas de dissolution de l'ESPP par décision de l'Assemblée Générale conformément aux présents statuts ou parce qu'elle n'a plus au moins trois Membres, l'Assemblée Générale désignera le ou les liquidateurs, définira leurs pouvoirs et indiquera l'affectation à donner à l'actif net de l'avoir social qui doit être transmis à une organisation sans de but lucratif et poursuivant un ou des objectifs similaires à ceux de l'ESPP.

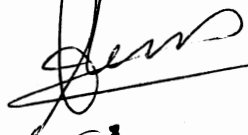
### Article 25: Engagements et responsabilités

Les engagements pris, dettes et responsabilités de l'ESPP lui sont propres : les Membres et Partenaires de l'ESPP, en cette qualité, n'encourent aucune obligation (sauf celle de payer leur cotisation) relativement aux engagements, dettes et responsabilités de l'Association


Cela s'applique également aux membres du Conseil d'Administration, sauf faute de gestion.

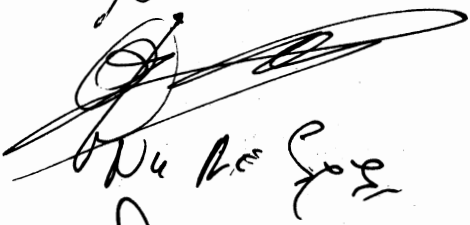
~~Johannes~~  
~~TEWA~~

Wouter de Bock  
Nathalie Plateau  


Antony Hoels  


  
Ludwig Hermelin

Arnould Passenier  


  
Nu de Goe

  
P&E