

Conclusions from the R&D workshop

Tomáš Turecki
Unit I.2
DG Research & Innovation



2nd European Sustainable Phosphorus Conference
Berlin, 6 March 2015

Circular approaches to phosphorus: from research to deployment

- 4 March 2015, BAM
- 80 attendees (16 countries, research/academia, also industry)

Circular approaches to phosphorus: from research to deployment

- 8 EU funded projects – presentations



- Some 20 other projects/initiatives present

Netherlands, Spain, Finland, Greece, France, Denmark, Austria...

Many technologies are available

- Experience with P recovery technologies
- Different waste streams:
 - ❖ WW treatment (sludges, sludge ash)
 - ❖ manure
- Some at commercial production scale (Airpex, Ostara, Nuresys)
- Many applications aiming at fertiliser market
- Some applications aiming at a premium market—Thermphos, possibly ReCoPhos (chemical and food industry), Ecophos (feed)

Research/demonstration needs

- Studies on phosphorus flows in the whole food production chain (to identify best points for action)
- Research into phosphorus too technology focused, social dimension needs to be addressed as well (attitudes, acceptance, choices)
- Detection methods and risk assessment for organic pollutants in sewage sludge

Research/demonstration needs

- Real-environment demonstration projects needed as reference for the new technologies
- R&D in support of standardization
- Value chain covering actions (not only recovery, but also recycling)

Barriers/preconditions for deployment

- Varying national interpretation of legislation (end-of-waste criteria, etc.)
- Absence of supportive legislative frameworks (Fertiliser Regulation not applying to recycled or organic sources)
- Companies planning to export secondary phosphates or recycling technologies depend on consistent interpretation of EU legislation

Barriers/preconditions for deployment

- Level of awareness on the part of WWT managers and personnel
- Need for a policy driver (P recovery targets, mixing quotas, taxation...)
- Need for regional approaches, addressing specific local situations (solutions best suited for the context)
- Problems with upscaling

Report from the workshop

- ☐ What relevant research/demonstrations are in the pipeline
- ☐ What research/demonstration is still needed
- ☐ What are the barriers for deployment of P-recycling solutions
- ☐ 4-5 pages & project factsheets

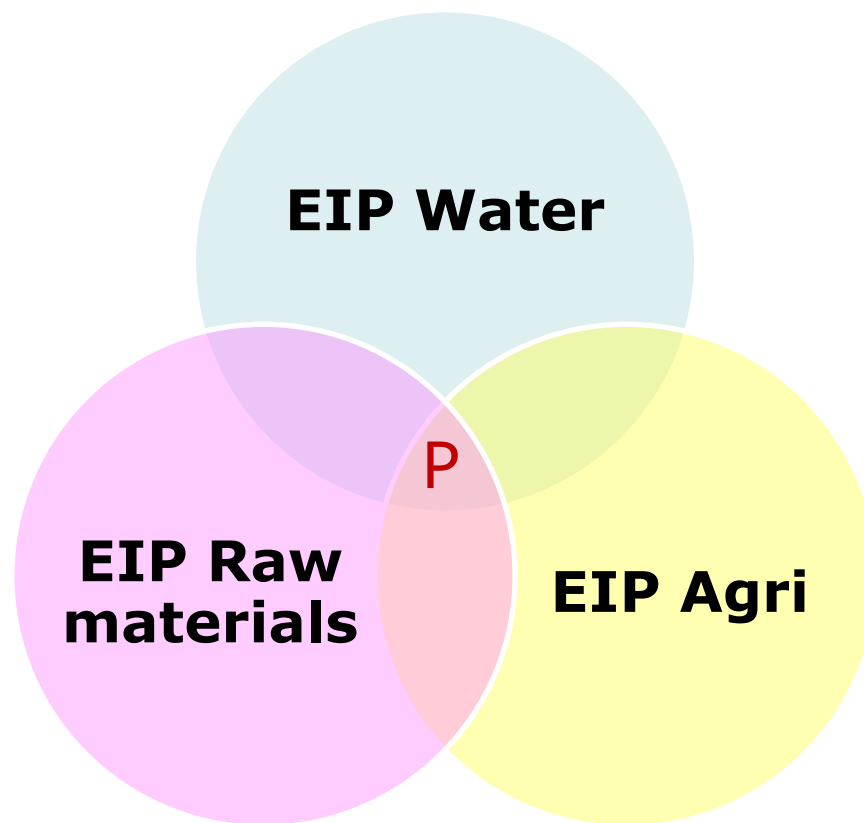
Societal challenges

- **SC5** Climate action, environment, raw materials and resource efficiency
- **SC2** Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

Greater emphasis on closer to market actions

- Innovation actions (support for closer to market activities)
- SME instrument
- Fast track to innovation pilot
- ❖ Large scale demonstration projects

EIPs helping to shape the innovation agenda in H2020



Other

➤ InnovFin

- Joint initiative between the EIB Group and EC within Horizon2020
- Financing tools and advisory services
- Applies to circular economy

➤ Combination with Structural funds

Take part as an expert...



Horizon 2020

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Experts

HOME | FUNDING OPPORTUNITIES | HOW TO PARTICIPATE | EXPERTS | SUPPORT ▾

Search PP

[LOGIN](#) [REGISTER](#)

News

The 3rd Health Programme and the Consumer Programme, managed by the Consumer, Health and Food Executive Agency (CHAFAEA), and the Research Fund for Coal and Steel (RFCS) are now using the [European Commission's experts database](#) to select experts for assignments including the evaluation of proposals and monitoring of projects. If you are already registered as an expert and wish to also indicate your interest in these programmes, please [update your profile](#) by ticking "RFCS (Research Fund for Coal and Steel)" and/or "Third Health Programme (managed by Chafea)" ('Programme Selection' section). New experts registering can indicate their interest in working for any of the programmes listed in the 'Programme Selection' section.

Quick Links

- [FAQ for Experts](#)
- [Expert recommendations](#)
- [Guidance on the evaluation of innovation, social sciences and humanities and other aspects of H2020 proposals](#)



Experts

[H2020 ONLINE MANUAL](#)

Join the database of independent experts for European research and innovation.

The European Commission appoints independent experts to assist with research and innovation assignments including the evaluation of proposals, monitoring of projects, and evaluation of programmes, and design of policy.

New experts

Who can be an expert?

You have a chance of being selected as an expert if you:

- have high-level of expertise in the relevant fields of research and innovation ([see call](#) for details on types of expertise).
- can be available for occasional, short-term assignments

[REGISTER AS EXPERT](#)



What do expert assignments involve?

Experts, as peer reviewers, assist in the:

- **evaluation** of proposals
- **monitoring** of actions

In addition, experts assist in the:

- **preparation, implementation or evaluation of programmes and design of policies.** This includes the Horizon 2020 Advisory Groups.

Assignments mainly concern research and innovation, falling within the Horizon 2020 programme designed to address the challenges Europe is facing through funding excellent science, technology and innovation.

Take a look at the most recently [funded projects](#).

In order to access the expert registration form, you are first asked to login with a valid Participant Portal (ECAS) account. If you do not have it yet, it easy to [create your Portal \(ECAS\) account](#).

Registered experts

- Registered experts can complete or **update their profile** at any time by [logging-in](#) to their Portal account (ECAS) and accessing **My Expert Area**.
- Your profile is only available to the Commission for consideration once it is complete and valid.



HORIZON 2020

**Thank you
for your attention!**

Find out more:
www.ec.europa/research/horizon2020

HORIZON 2020