



EIP Water

*Boosting opportunities
Innovating water*

**Accelerating Resource Recovery
from the water cycle**

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European Innovation Partnership on Water

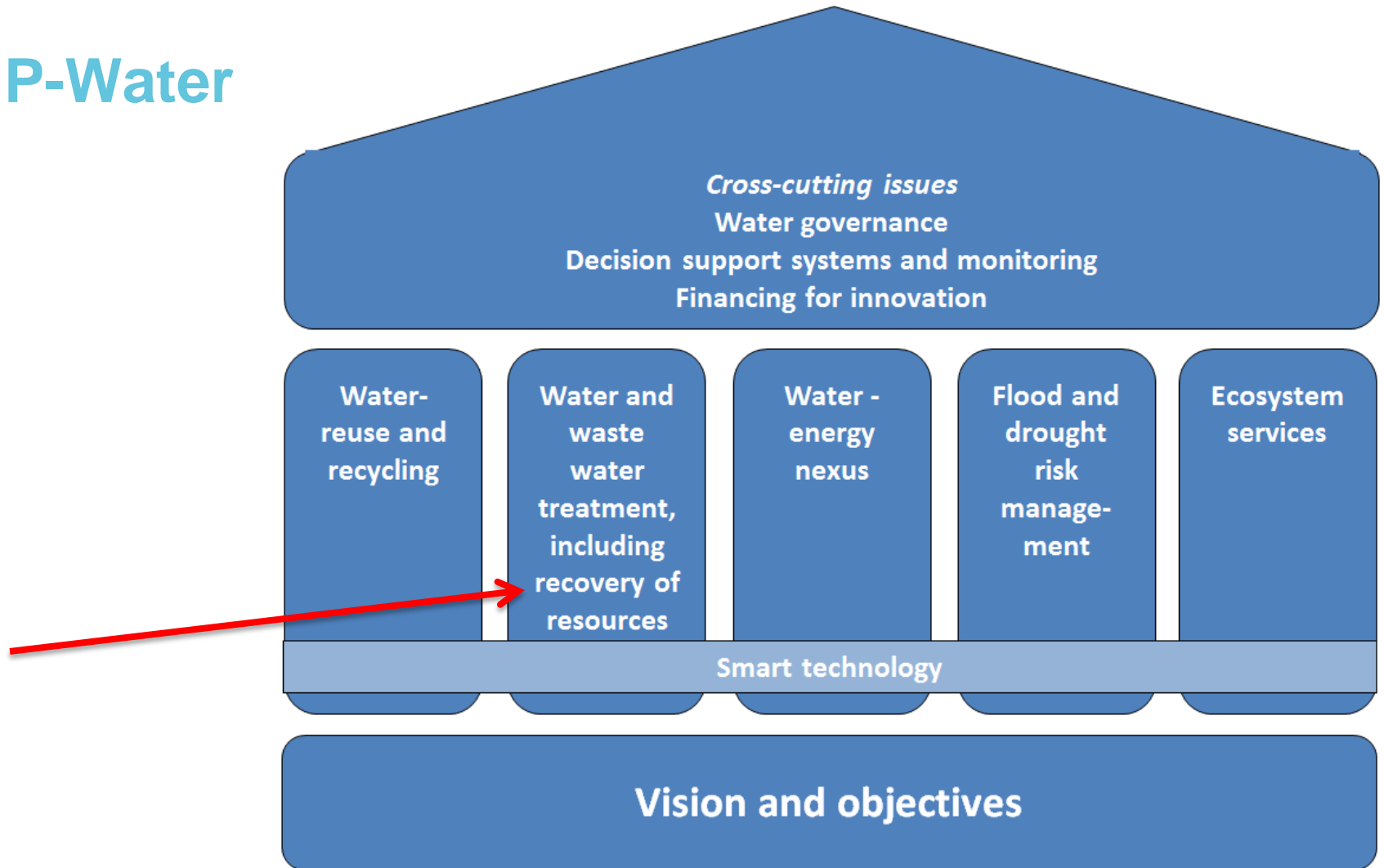
New EC instrument to boost innovation

- Launched in May 2012 to
 - Facilitate, support and speed up development and application/deployment of innovative solutions to water challenges
 - Create market opportunities for innovations
- High level governance and visibility
- Strategic Implementation Plan





EIP-Water



Start Action Group April 2014

Members > 35

Objectives:

- Review current European initiatives and best practices
- Identify success factors and barriers for profitable value chains
- Support initiatives on resource recovery and upcycling (VALUE CHAINS)

Main deliverables

- Review of best practices on recovery of phosphorous and cellulose from wastewater and residuals from drinking water (www.eip-water.eu/arreau).
- A review of barriers and bottlenecks for the valorization of resources from the water cycle.
- Several workshops (e.g. at IWW Amsterdam, November 2015).
- Start discussion with EIB on supportive financial instruments.



EIP Water Online Market Place
Matchmaking for water innovation

ARREAU

European best practices on resource recovery from the water cycle

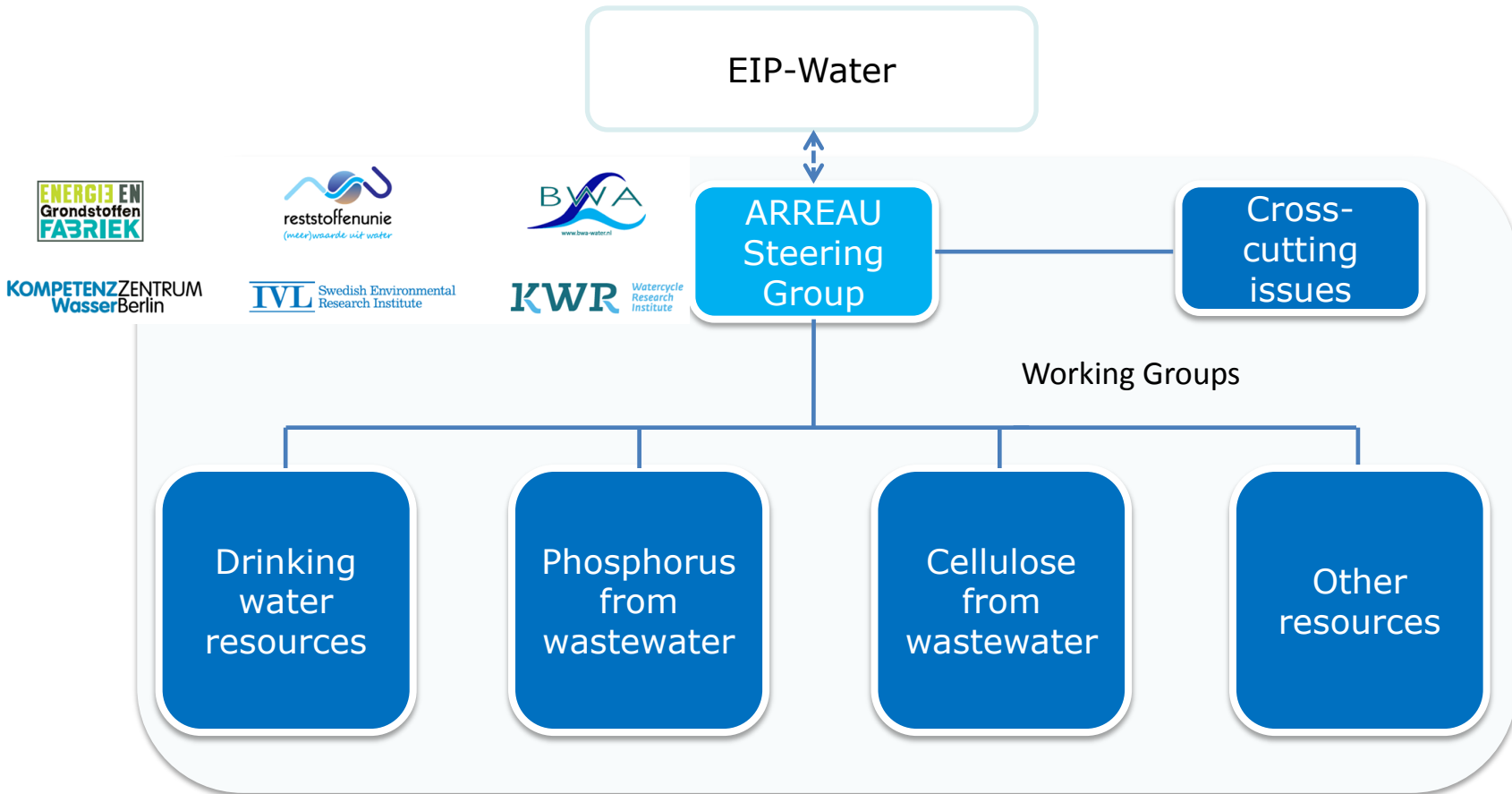
ARREAU review

<http://www.eip-water.eu/ARREAU>

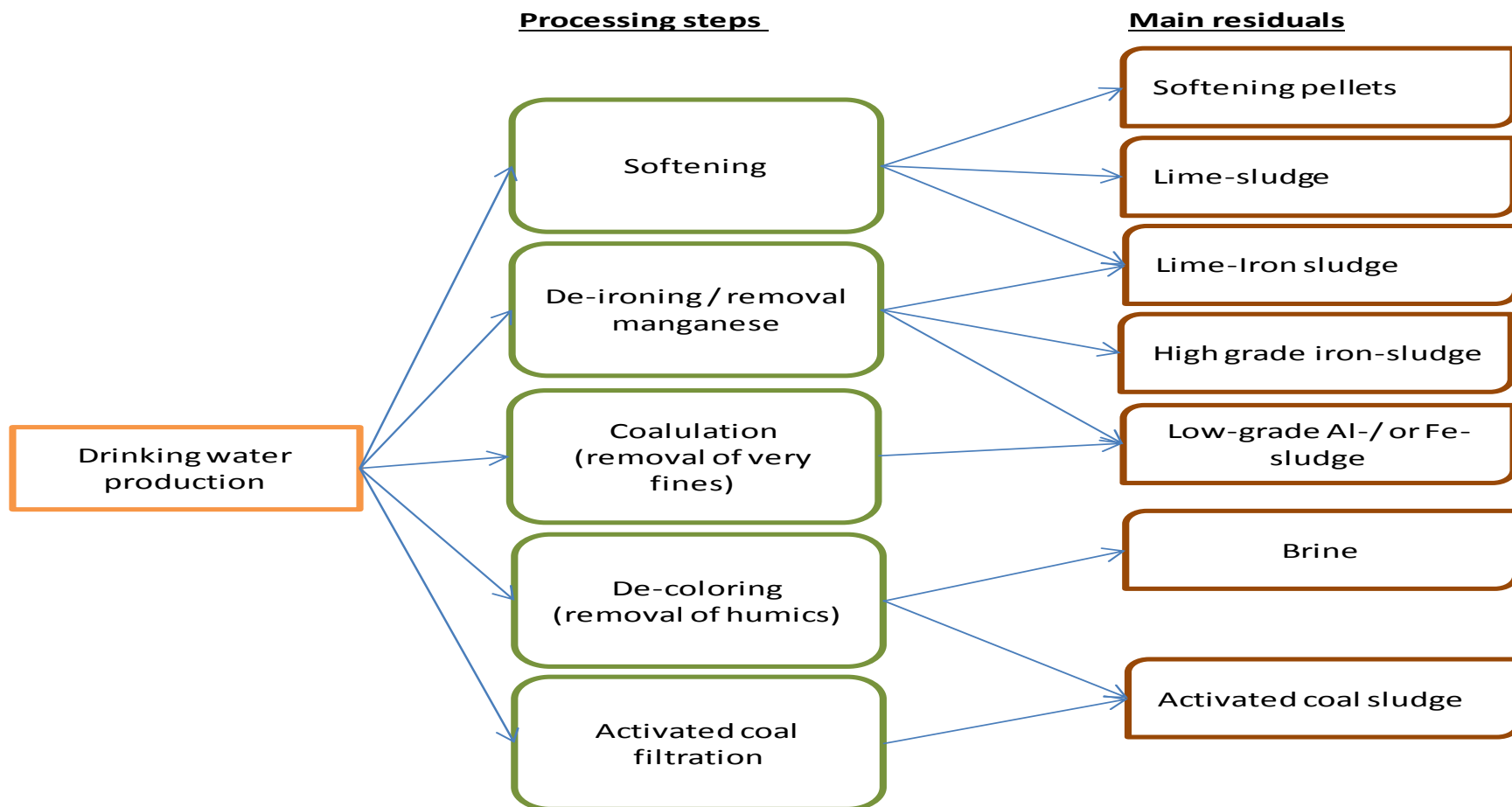
June 2016



Current focus areas

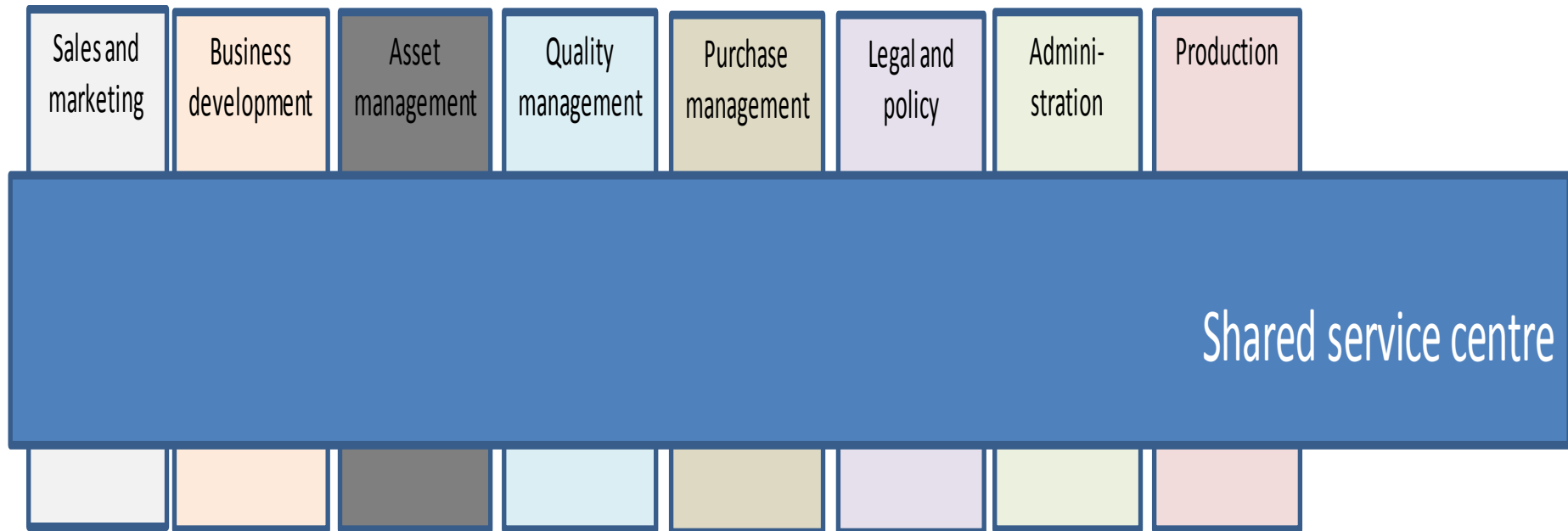


Type of drinking water residuals





Teaming up benefits

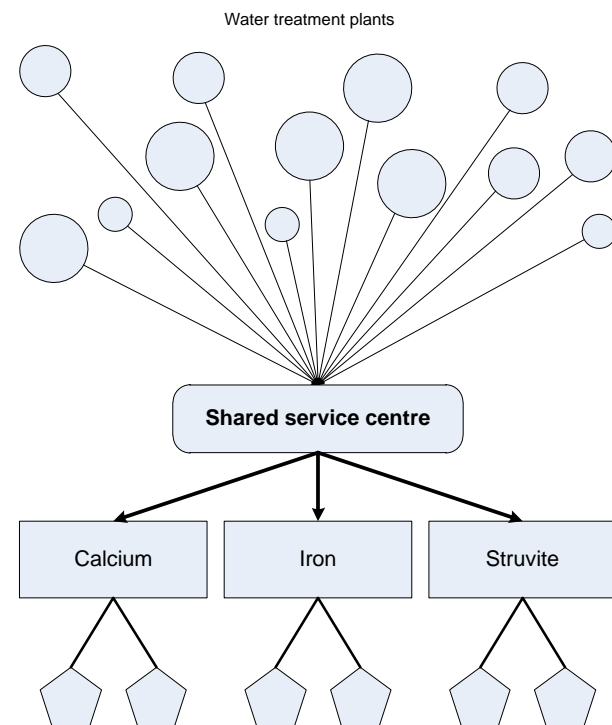


Recovery and upcycling of resources from water can be profitable

Shared Service Center Dutch Waterworks

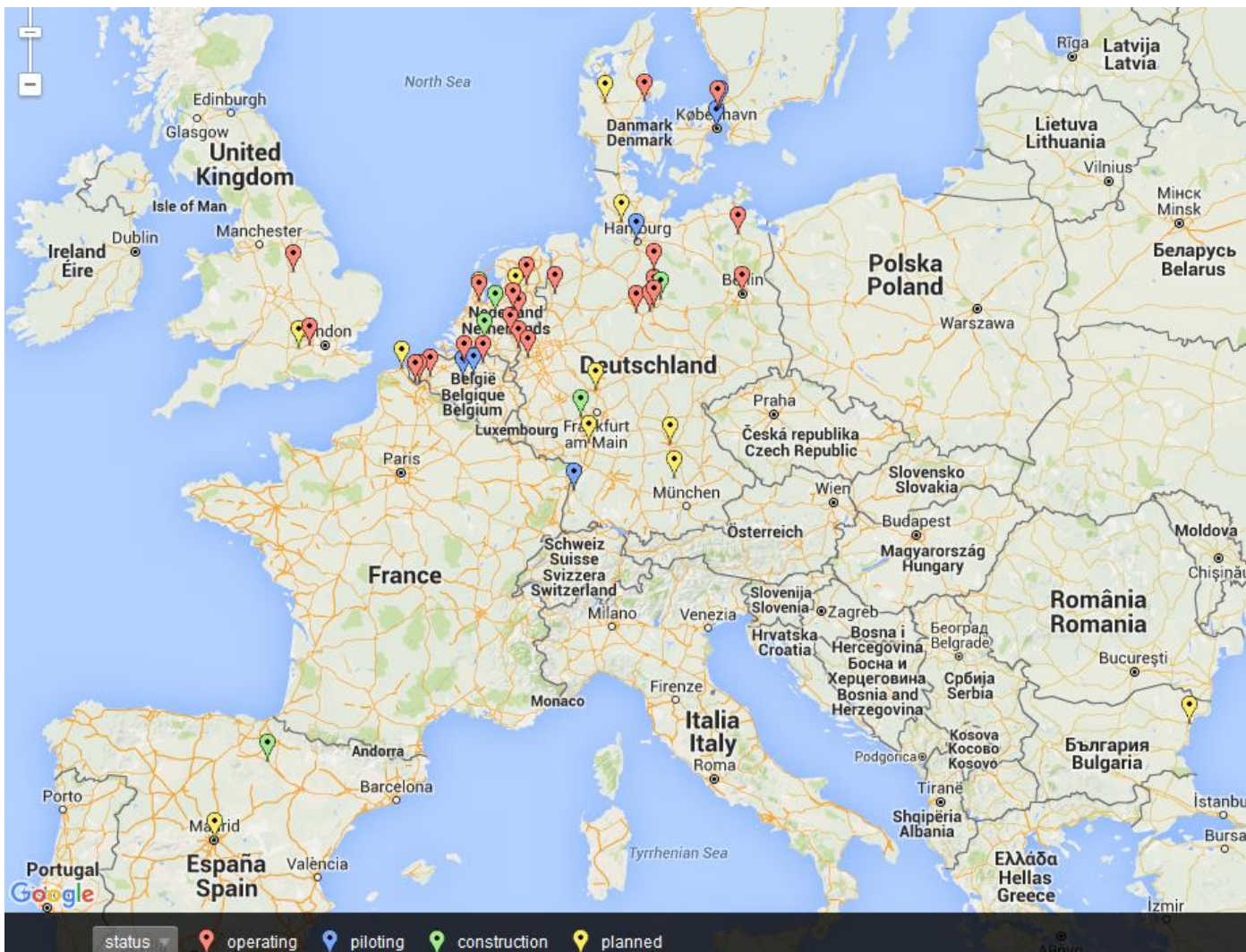
- Calcium for glass and carpet industry
- Iron for bricks and S-control in biogas
- Struvite for fertilizer industry

IWA Award
 September 2015



End users

Recovery & upcycling of phosphorus



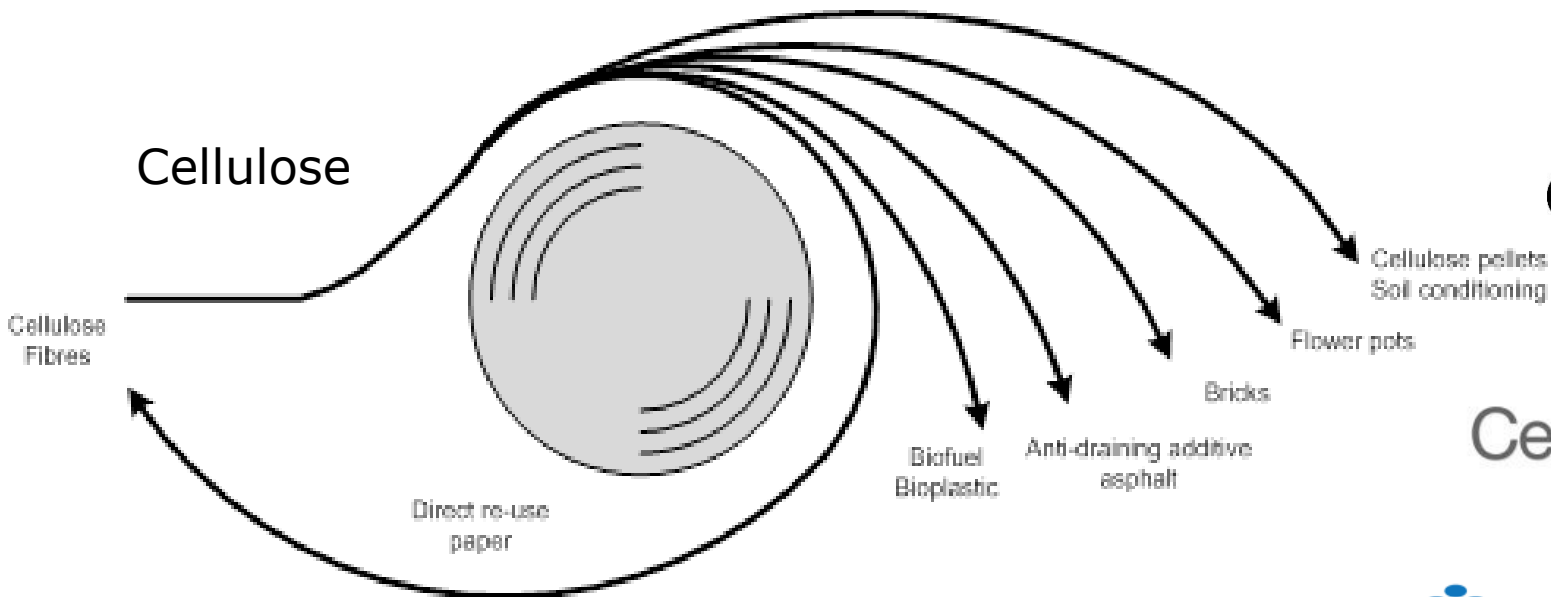
**Phosphorus for
fertilizer and
basic chemicals
market**



Recovery and upcycling of cellulose



Cellvation



Recovery and upcycling of phosphorus and cellulose from wastewater

- *Many local project initiatives*
- *Several positive business cases*
 - **Integral value chain assessment**
- *Partners: water utilities, tech providers, fertilizer companies, chemical industry, (organic) farmers*
- *Uncertainty about legislation*
- *Financial risks a key hurdle*
 - **European Investment Bank opportunity**

Cross-cutting issues

- *Need for policy support*
 - Initiatives on Member State level (e.g. Switzerland)
 - EU wide policy development is needed.
- *Governance (building the value chain, defining responsibilities and benefits)*
- *End user acceptance*
- *Finance*

Large scale demonstrations needed

Action Plan 2016

- Identify showcases of successful value chains for further dissemination and support
- Explore opportunities to expand the membership to Eastern Europe (continuous) starting with a phosphorous-platform in the Czech Republic
- Further explore relevant European initiatives including industrial waste water in the phosphorous cases (continuous, upload update to EIP-W Marketplace every 6 Months)

Action Plan 2016 continued

- Explore synergy with other Action Groups
- Look for useful cooperation with other European platforms (e.g. WssTP WG Resource Recovery, the European Sustainable Phosphorous Platform) and projects (e.g. R3Water, Value4Urine, Screencap) (continuous).
- Promote large scale demonstrations (continuous)
- Develop market plans (December 2016)



Thank you

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