



VIO CHEMICALS

Project idea:
Efficient upstream and downstream processes using Deep Eutectic Solvents (DES)

Brussels, SusChem Brokerage 2018, 23 October

- We are a Swiss chemical SME with global presence (EU, USA, China, India, Japan)
- We design chemical processes and improve products for diverse global end markets
- We are driven by technological innovation and our passion for chemistry
- We are a SusChem Switzerland member and dear supporter of sustainable use of chemistry

**OUR
SCIENCE,
YOUR
PRODUCT**

Objectives

The aim of this project is to demonstrate the advantages of using Deep Eutectic Solvents (DES) in the design of chemical and biochemical manufacturing processes to achieve improved integration and greater efficiency.

Innovativeness

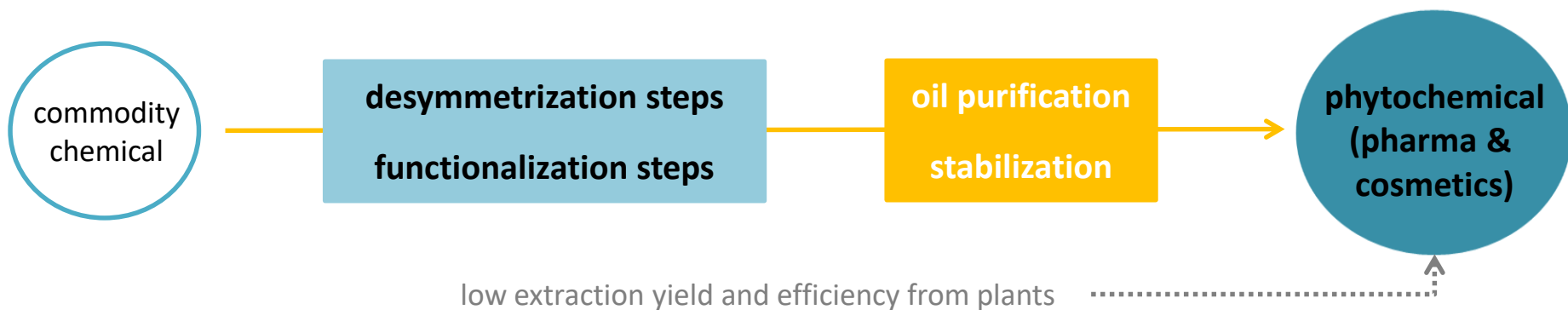
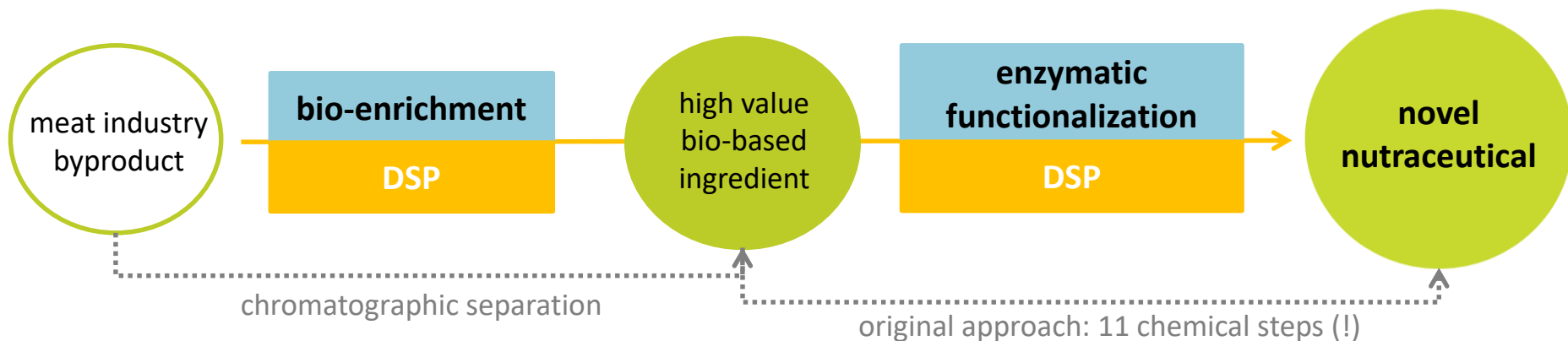
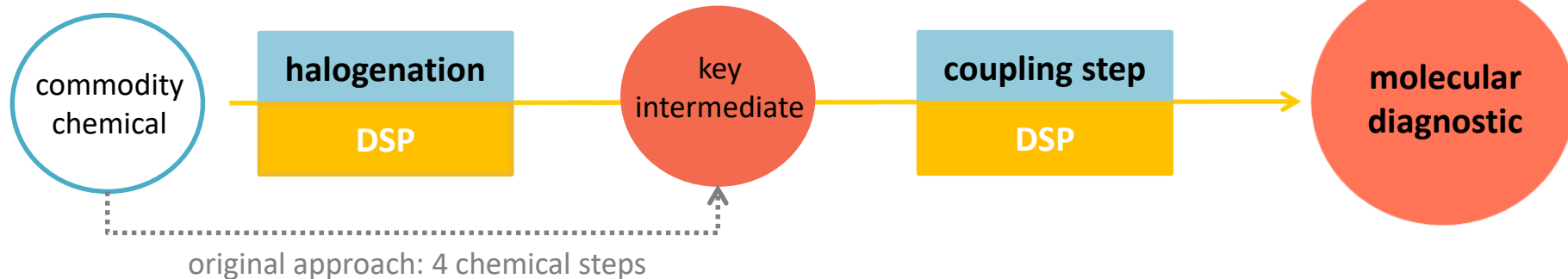
- Improved production efficiency and selectivity of the chemical and biochemical transformations compared to the state-of-the-art methodologies
- Mitigation of downstream risks by using DES as extraction and purification media
- Deployment of built-for-purpose process monitoring tools and implementation of process intensification concepts to achieve additional reaction control, improved efficiency and higher product quality
- Cross-sectorial technology application for high value products

Budget

Total estimated budget: 15-20 million Euro

Requested from the SPIRE PPP: 10-14 million Euro (Innovation Action 70%)

Targeted topic: CE-SPIRE-04-2019 - Efficient integrated downstream processes



We seek partners

SMEs/Large Industries/RTOs/Universities/Consultants

- Demonstration of chemical and/or biochemical manufacturing processes up to TRL7 using DES (incl. Large industries)
- DES application in analytical development and process monitoring tools
- Expertise in known and novel components and eutectic mixtures, their potential as reaction and downstream processing media and their recycling/re-use procedures
- Consortium building, proposal preparation, proposal drafting and submission, project coordination, budget preparation, project and financial management
- LCA, IP/innovation management, dissemination, education

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