

AgriLoop

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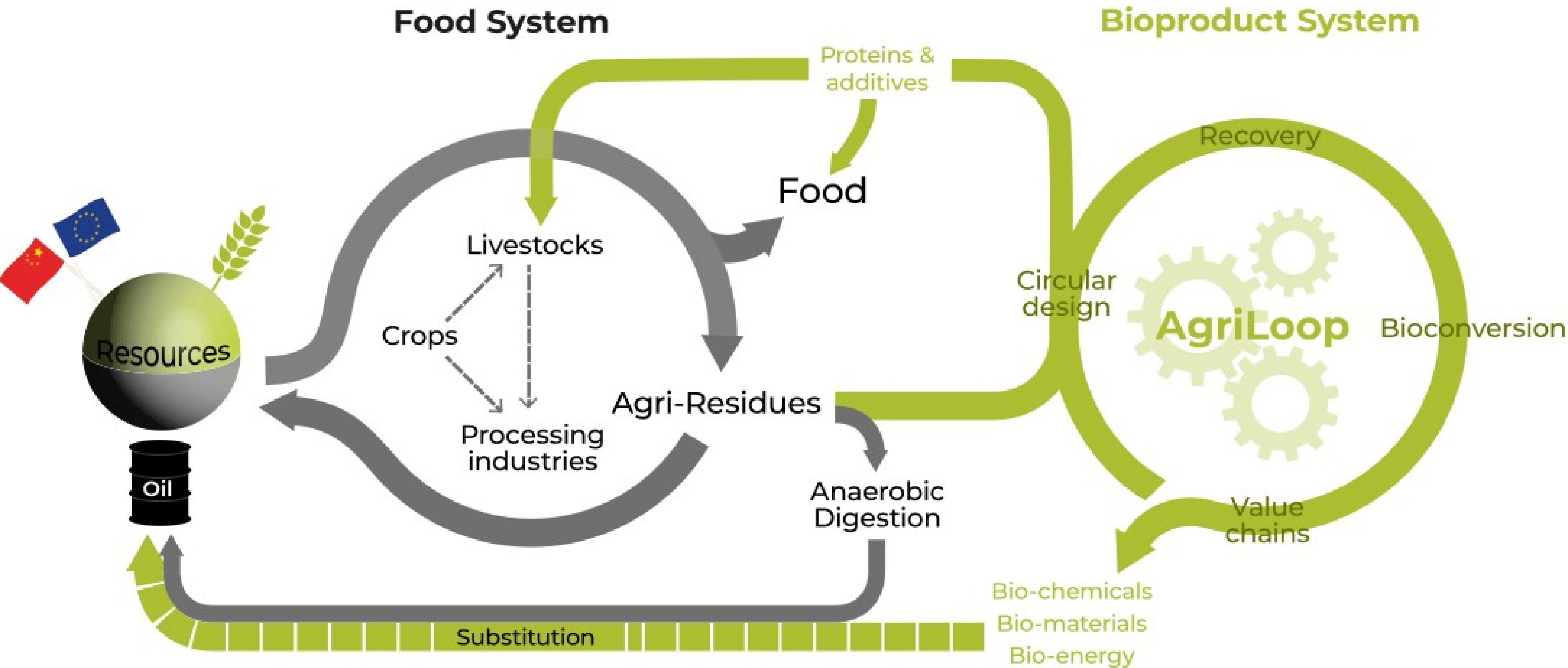


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Agricultural-food Residues

Agri-residues are a hitherto under-exploited resource in the global bioeconomy. AgriLoop seeks to upgrade these residues to create new bio-based markets or compete with existing food crop- and oil-based markets.

Safe and Sustainable By Design

SSbD is a voluntary framework initiated by the European Commission as a process for designing and redesigning chemical processes to minimize the negative impacts of industrial processes on the environment and human health; as well as promoting development towards the green transition.

Partners

AgriLoop is a cooperation of 35 partners across 11 countries: 20 from eight EU countries, 1 each from the United Kingdom and Switzerland, and 13 from China. Among these partners are research centers, universities, SMEs, and a regional farmer's cooperative.

Work Package 1

Develop tools and produce data for early assessment of circular pathways for agri-residue valorization. Included is the estimation of residue yield, optimal processing pathways, and hazards and sustainability effects.

Task 1.4

It is SDU's responsibility to develop a framework for the preliminary assessment of sustainability impacts of circular solutions and estimates for impacts of environmental, health, economic, and social sustainability indicators. Further exploration of these indicators with prospective tools will then be utilized in conjunction with MCDM tools to provide guidance and support for future work packages.

Key Activities

- ◆ Data collection from all partners including processes, economic indicators, and social indicators
- ◆ LCA and prospective LCA on value chain sections
- ◆ Development of MCDM tool to calculate pathways and optimize for arbitrary criteria including social-, environmental-, economic-, and circularity indicators.