



NO AGRO-WASTE:

INNOVATIVE APPROACHES TO TURN
AGRICULTURAL WASTE INTO ECOLOGICAL
AND ECONOMIC ASSETS

BIOENERGY AND BIOMATERIALS FROM AGRICULTURAL RESIDUES



Create more value out of agriculture by-products and waste: the NoAW research project has found innovative break-through solutions for up-cycling unavoidable and continuously generated by-products from agriculture. Thanks to the project, straw residues, manure and winery wastes are transformed into eco-friendly bioplastics, biofertilizer and biogas. Thus, the circular economy principle brings sustainable solutions for agro-waste valorisation - reducing conventional plastics, mitigating global warming and protecting natural resources.

The project is funded by the Horizon 2020 Framework Program of the European Union.

VALUE BEYOND ANAEROBIC DIGESTION OF AGRICULTURAL WASTE

The boosting action of innovative pre- and post-treatment of the agro-wastes extends the scope of the types of feedstocks that can be used in biogas facilities. The innovative two-step anaerobic digestion produces biogas, biohydrogen, biomethane, biofertilizers and high added-value polyhydroxyalkanoate (PHA) biopolymers in the same plant.



NEXT GENERATION OF ECO-FRIENDLY PLASTICS IN THE AGRI-FOOD SECTOR

Using innovative processing routes, the project converted straw, winery and other vegetal wastes into innovative biodegradable composite materials (combining for example PHAs and lignocellulosic fibres) to be used as sustainable food and non-food packaging and many other applications like in agriculture and horticulture, to replace some petrochemical single-use polluting plastics.

TAILORING SUSTAINABLE REGIONAL BUSINESS AND MARKETING CONCEPTS

With an integrative and strategic approach, the project suggests combining techno-economic and environmental assets and derives relevant, applicable regional business concepts for agro-technical clusters of various sizes and applications.



CONNECTING PEOPLE AND BUSINESS TO DRIVE INNOVATION

The NoAW project provides inspiration of future generation of farmers, agronomists or food actors to reshape the agro-food supply chains for better profitability and sustainability.

The NoAW project enforced linkage between practitioners, industrial and economic actors via a Knowledge Exchange Stakeholder Platform and the trainings organized in the project. The collaboration with the Chinese project partners and an Asian mirror platform allows the project to expand beyond the European Union.



Further information on NoAW project:
INRAE (Coordinator): Prof. Nathalie Gontard,
e-mail: nathalie.gontard@inrae.fr



noaw2020.eu/



twitter.com/noaw2020



linkedin.com/groups/13507644



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688338