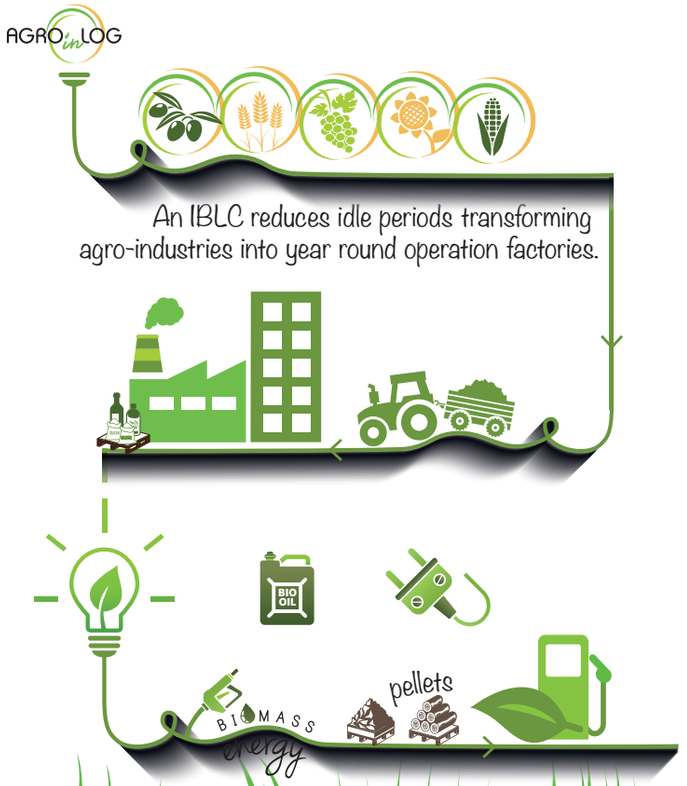
A Biomass Logistics Centre integrated in an agro-industry (IBLC) - refers to the start of a new biomass activity, integrating a new non-food value chain into the existing food chain.The new activity involves field harvesting, collection and procurement of the biomass resources towards the agro-industry, the use of residues, and their transformation into bio-commodities and intermediate bio-products for new markets.



PROJECT PARTNERS

«AGROinLOG is composed by a multi-disciplinary team of 15 partners from 8 European countries integrating agro-industries, agrarian associations, enterprises and research organisations"

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement Nº 727961

AGROinLOG

Integrated Biomass Logistics Centers (IBLCs)

for food & non-food products into the agro-industry sectors taking advantage of their seasonal operation

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Current Situation

Nowadays, agro-industries are facing several barriers that hinder their competitiveness, such as:

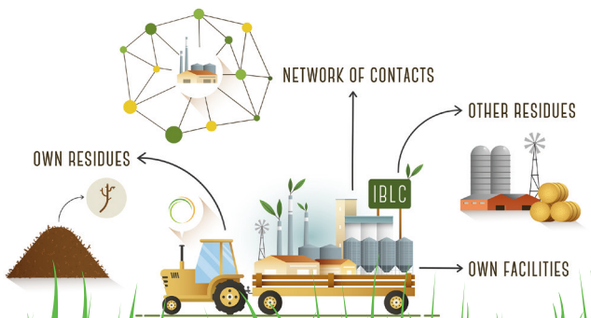
- its seasonal nature, which implies low or even non-existent activity periods;
- the underutilization of opportunities such as the exploitation of their own residues or those from nearby areas in order to create new business lines.

Main Goal

AGROinLOG aims to implement and demonstrate the technical, environmental and economic feasibility of Integrated Biomass Logistics Centres (IBLCs) for food and non-food products into existing agro-industries.

Integrated Biomass Logistics Centre

An IBLC takes advantage of the facilities of an agro-industry, its network of contacts and its waste or non-used local resources to create new activities and obtain new bio products such as biomass, biofuels or raw materials for other sectors.



Strategy

AGROinLOG´s strategy for demonstrating the implementation of an IBLC business model includes:

Integrated harvest of products and by-products and harvest optimization

The optimization of the harvesting operations increasing yield or the amount of products collected (chaff and straw, corn cob and stalks...) allows achieving logistics improvements that might contribute to ensure the economic profitability of the whole chain.

Integration of non-food processes in the existing ones

AGROinLOG pursues to maximize the use of already existing food equipment of the agro-industry in the IBLCs, especially during their idle periods, in order to decrease the investment and reduce equipment pay-back while increasing the plant operation time.

Integrated logistics

Regarding the logistics of raw materials and final products, AGROinLOG will not only look for optimising and integrating both chains into the agro-industrial lines without affecting food products quality or properties, but will also determine the convenience of using existing equipment designed for food activities for transporting raw materials, biocommodities and biomass products.

Production and validation of new bio-commodities and intermediate bio-products in the agro-industries

AGROinLOG will make a techno-economic evaluation of the possibility of manufacturing new biocommodities in the IBLC from straw and from agricultural prunings.The new products will be validated both at lab and at real scale by different end users.

Demonstration

AGROinLOG will test the IBLC concept in 3 demonstrating agro-industries that are willing to deploy new business lines in their facilities to open new markets in bio-commodities (energy, transport and manufacturing purposes) and intermediate bio-products (transport and biochemicals):

Spain	Greece	Sweden
Fodder industry	Olive oil industry	Grain milling industry

These pilots will develop new logistics chains and will adapt the existing equipment to the new production.AGROinLOG will evaluate the technical, financial and environmental feasibility of their new activity and the final quality of the new products.Afterwards, the replication potential of AGROinLOG business model will be studied in other 7 agro-industries of different sectors.The project will prepare and evaluate the business models for the new IBLCs deployment.

Expected results in the Demo agro-industries

- New markets opened. 12 % turnover growth
- Year round activity. New and full-time jobs
- Compared to a new biomass supply business built from the scratch:
  - Investment reduction
  - 1-2 M€ saved in the first decade.