

SUCELLOG PROJECT

TRIGGERING THE CREATION
OF BIOMASS LOGISTICS CENTRES
BY THE AGRO-INDUSTRY

RESULTS & LESSONS LEARNED





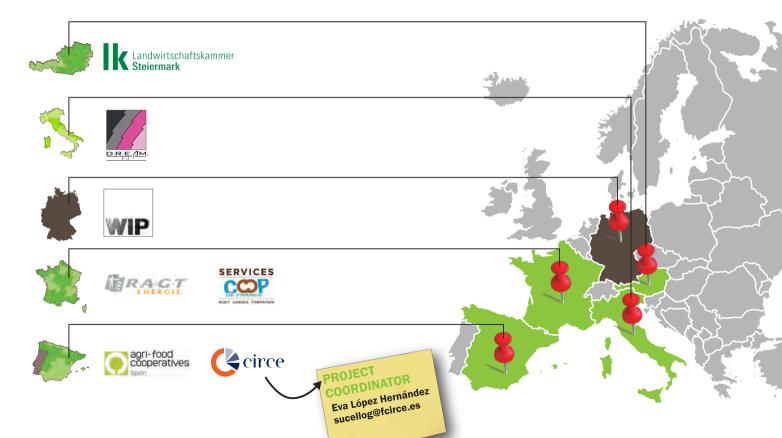


Project features, partners & regions

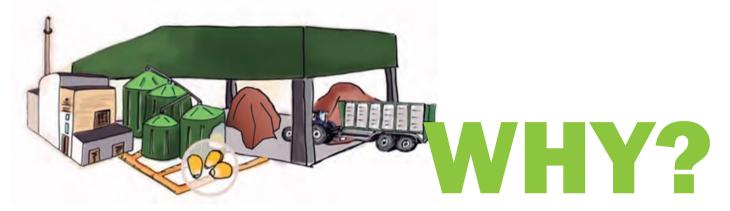








Let's make agro-industries **key actors** in the supply of solid biomass for Europe!



Equipment & facilities compatible with solid biomass production

Work under **seasonal** regime

They are **key** actors in the territory

They produce residues or surrounded by residues

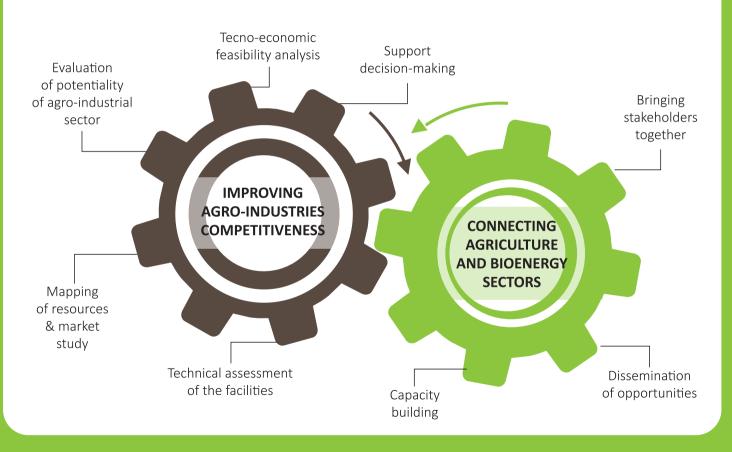
Experience
with organic
feedstocks and
aware about
quality assurance

SUCELLOG concept proposes the use of agro-industrial equipment, facilities and man-force in their idle periods to develop a new business line as solid biomass logistic centres based on agricultural residues with no competing uses.

SUCELLOG concept

USUAL	BION	ASS LOGIST	IC CENTRE		USUAL
JAN	MAR			OCT	DEC
Agro-industry usual operation (Nov-Feb)			—		
	Raw materials	Equipment Man force	Products		Market
Operation as biomass logistic centre (Mar-Oct)) 🗪	

SUCELLOG gears & actions



SUCELLOG impact in Europe



63 Agro-industries supported

AGRO-INDUSTRIES GIVING STEPS TOWARDS

becoming a biomass logistic centre in a short-term

BIOMASS LOGISTIC CENTRES

integrated in an agro-industry created

SPAIN

Awakening the interest on the valorisation of own agricultural residues in Spanish cooperatives



Triggering national awareness about the use of agricultural residues for solid biomass production



Expected ktoe of biomass mobilised/year



S S P A I N

F R A N C C

I T A L Y

A U S T R I A

Troil Vegas Altas

Cooperative for oil mills by-products transformation

Cooperativa Agraria San Miguel de Tauste Forage dehydration industry

. .

COCOPE Sociedad Cooperativa

Wine producer and distillery of aromatic plants

La Cavale Distillery

Sofragrain

Feedstuff producer

Luzeal

Forage dehydration facility

Oleificio Cooperativo Produttori Agricoli Molfetta Oil mill

Serragiumenta

Wine producer, owns olive fields, vineyards and orchards

Cooperativa Agricola Rinascita Oliena

Dairy product producer

Tschiggerl Agrar GmbH

Agro-industry harvesting and processing of corn grains and cereal straw for animal feed

Alwera AG Logistic operator and cereal dryer Use of 3000 t/yr of olive prunings to cover near future drying heat demand starting a new logistic chain and avoiding on-field burning

Production of biomass using their lucerne pelletising line from straw from members' cereal cultivation to heat the own members pig farms

Consumption of their residues (grape stem and lavender straw) to supply their own heat demand and other nearby facilities and solve a problem of residue disposal

Production of pellets based on grape marc in synergy with another company to feed their future gasification plant

Creation of biomass logistic centre based on silo dust using their pelletising line and in cooperation with an energy service company

Production of straw based pellets in their existing facilities to cover biomass market demands

Use of underutilised olive prunings as fuel in a planned cogeneration facility in coordination with 3 other oil mills and a logistic operator of the area.

Use of prunings from olive trees, vineyards and orchards currently burnt on-field for the planned cogeneration plant to heat their facilities

Pellets production from olive tree and vineyards prunings, grape pomace and grape stems to cover their heat demand and an oil mill' demand aside

Creation of a biomass logistic centre based on corn cobs, using an adapted machinery that integrates the maize and cob harvesting and taking advantage of the synergy with a feedstuff association. Own heat demand and local biomass market

Creation of a logistic centre of corn cobs to fulfil their own heat demand and in cooperation with Tschiggerl Agrar GmbH

PUTS



Handbooks and guidelines

oriented to the agriculture sector to promote the integration of biomass logistic centres

- Lessons learned and good practice examples
- How to carry-out a feasibility study
- Guideline to implement a logistic centre
- Auditors guide
- Others

Analysis of regional situation, biomass resources and priority areas of **FU REGIONS**

TECHNICAL MATERIALS









Tailor-made business models to become agricultural biomass logistic centres

+160





Potential actors of initiatives engaged in bilateral meetings

ATTENDANTS

to European, national and regional workshops

TECHNICIANS TRAINED

from agrarian associations

NETWORKING

68

Policy-makers engaged

146

Personal meetings to identify sector opportunities and barriers

+170

Publications with +2 mill. people audience

+700

Contacts carried out with the agrarian and bioenergy sectors

CHA LLEN GES



- Low oil and gas prices
- Large amount of wood stock
- Lack of appropriate technology for agro-fuels at a reasonable price



LACK OF AWARENESS/KNOWLEDGE

- Change the "residue" into a "by-product"
- Social acceptance of new products
- Lack of information confidence
- Existing farming practices



SUCELLOG



POLICY, REGULATORY AND LEGISLATIVE FRAMEWORK

- Lack of political commitment
- Regulation subject of interpretations



ORGANISATIONAL ISSUES

- Sector not structured
- Difficulties in securing signed commitments
- Large logistic efforts for upscaling



FINANTIAL SITUATION

Lack of incentives



LESSONS LEARNED



The opportunity to implement logistic centres on agriculture biomass inside the agro-industries has a special sense when this activity is strictly linked to their main business as food product producer. Therefore, when **the** agro-industry faces a problem of "residue" disposal and presents an energy demand to be covered.



Agro-industries have significant influence in rural territories and therefore are **essential actors to trigger the development** of new initiatives in the local scale.



The distance between the agriculture and energy sector is an important obstacle. A **national entity representing all involved sectors** can help to shape more positive public opinion on agriculture biomass, to join stakeholders and to influence policy decisions.



One successful example: promotes initiatives, triggers technological innovation and creates awareness for policy makers. However, one bad example at the initial phase of a new business activity may stop the progress for several years.

Combining direct support actions and capacity building activities,

SUCELLOG has planted a seed for the further development of local initiatives
to valorise residues from agriculture, and thus to increase
the competitiveness and sustainable development of rural economy

SUCESS STORY

Tschiggerl Agrar GmbH - agro-industry dedicated to the harvesting and processing of corn grains and cereal straw for animal feed and NOW...thanks to SUCELLOG...a biomass logistic centre based on corn cobs

In 2007, the agro-industry decided to use local biomass instead of fossil fuels

Cob based products
(loose, grits and pellets)
are sold on the local
market

They adapted a regular corn harvester to collect corn grains & cobs in one step

In 2015, they started to work as biomass logistic centre using their facilities for the pre-treatment and storage

They use corn cobs as biomass for their grain drying process saving 200 000 €/yr