The Role of the Hemp Cooperative.

The Hemp Event April 2022.



EST. 2018

Irish Hemp Co-operative Society Limited

- Farmers first met in autumn 2016.
- The Co-operative was registered May 2018.
- 250 + members at present.
- Set up to address the many issues facing small farmers.
- Already working with companies in the bio-economy.
- Addressing legislative and logistical barriers.
- Kate Carmody, Organic farmer, Biochemist/Biomedical Scientist, Social Scientist, EU Expert in Agricultural Productivity & Sustainability.



The many uses of hemp – Ireland's answer to climate change?

Whole stalk		Hemp seed		
Bast Fibre	Woody Core (Hurd)	Hemp Nut	Hemp Oil	Seed cake
Textiles Clothing Bags Shoes Socks 	 Building products Fibreboard Insulation Hempcrete 	Foods Bread Granola Ice cream Milk 	Foods Salad oil EFA Food Supplement Margarine 	(after pressing) Animal feed Protein rich flour
Technical textiles Cordage Netting Canvas Carpeting 	 Industrial products Animal bedding Boiler fuel Mulch Chemical absorbent 	 Cereal Protein powder 	Bodycare Soap Shampoo Hand Cream Cosmetics Lip Balm 	
New products Geotextiles Biocomposites Nonwovens Pultrusions Compression Moulding	Paper Printing Filters Packaging Newsprint Cardboard	 Whole stalk uses Biofuels Ethanol Erosion control blankets 	Technical products Oil paints Solvents Varnish Lubricants Printing Ink Diesel Fuel Coating 	

Two essential processing facilities.

• A decortication plant, this processes the stalk.

• A mobile biorefinery, this processes the leaf and flower, to separate the oils, proteins and whey fraction and leaves a pressed cake for silage addition.



Biorefinery Glas

- This Irish project used grass in the mobile biorefinery.
- This unit can easily be adapted to use hemp leaf and flower.
- The versatility of this unit means that it can operate in all rural areas.



Hemp cooperative stakeholder role.

- As Ireland's leading hemp organisation we recently responded to the consultation request from DAFM on the development of an Irish hemp industry.
- Presented our policy to the Agricultural Committee in the Oireachtas.
- EU project engagement. COOPID, CERERE, AGRI4VALOR
- The Hemp Cooperative has a wide range of expertise available and we would welcome a role as a partner in any project.
- In 2019 we were appointed as the Irish Rural Innovation Ambassador under the LIASION project.

COOPID PROJECT- MOLLERUP CASE STUDY.

Bioeconomy starts on the fields

COOPeration of bioeconomy clusters for bio-based knowledge transfer via Innovative Dissemination techniques in the primary production sector



https://coopid.eu/

Companies involved

- Moellerup Estate is the mother company
- Farmers cultivate the hemp for seeds
 - Dava Foods (a cooperative) will now increase the production
- Moellerup Brands handle seeds for food ingredients
 - Moellerup Brands innovates new hemp products together with numerous companies

Organic Plant Protein is one example creating meat replacement products with hemp protein flour

Convert is turning hemp fibers into insulation, furtinures etc

Advance Nonwoven Develops the prduction line for non-Woven productions





Hemp fiber utilization was the start

- Develop non-woven mats of hemp fiber for insulation, furnitures etc
 - Technology is now at industrial scale
 - Innovation goes on







Grant Agreement No. 101000519



Collaboration through research and innovation

- While hemp is in the programme for government in Ireland, it is not in policy.
- Twice turned down for EIP-AGRI funding.
- Major divide in Europe in funding for hemp. Spain, Italy, Slovenia and Germany have funded projects.
- We need a major project for the Northern member states to mainstream hemp into traditional farming systems as a rotational crop.

Future Vision for the hemp industry.

- More inclusive collaboration through a level playing field within Europe.
- As a single market economy we should recognise geographical constraints and cater for them.
- Industrial hemp should be removed from the Misuse of Drugs Act.
- Every size of farm should have access to grow, harvest and process this crop in order to make it a mainstay of the bioeconomy.
- Carbon credits for farmers growing hemp.



HEMP COOPERATIVE

Thank you for listening!