



Grain cluster

LC-GD-3-2: Demonstration of systemic solutions for the territorial deployment of circular economy





EUROPEAN GREEN CAPITAL

Grain cluster

Enables Innovative Biobased Circular Economy

Finland's most extensive and diverse network representing the entire chain of grain processing .
promotes R&D, and supports cooperation and networking among the cluster companies, farmers and grain-processing companies.
□ brings together all regional actors, from grain producers to industry and retail, both large international and small craft companies, e.g. mills, breweries, malt producer, bakeries, and about 1000 farmers.
The grain cluster and its individual cases have got recognition as <u>Good Practices</u> of the <u>BIOREGIO project</u> .
A successful demonstration of synergies, sustainable product development and innovation, and circular economy solutions.
Thanks to the cluster collaboration, industrial symbiosis and new innovative food products have been introduced.



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Industrial symbiosis and new innovative food products, for example
New prospects in carbon dioxide recovery from a bakery and mash processes.
$oldsymbol{\square}$ More effective possibilities in using biowaste through e.g. logistics.
Industrial symbiosis where process residues from the food industry are utilised to produce bioethanol fuel for vehicles.
☐ Xylitol from oat mill sidestreams, onsite production to miminise emissions from transport.
Use of oat oils, for beauty products for skin and hair.

Where? And with whom?

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European Commission

• Country: Finland,

Region: Päijät-Häme Region

• City district: LAHTI, <u>European Green Capital 2021</u>



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