

Corporate Innovation Challenge Template

Challenge Name: Biobased plastics/other food packaging that meet EC food contact migration standards and also are effective barriers that does not adversely affect the shelf life of the product. Supply and proven functionality of the packaging needed.

Code Name: BIOECONOMYVENTURES-2022-OC1-GI-04

Challenge Domain:

- Ag Tech and Food Tech

Description of the Corporate innovation Challenge

Plastic is cheap, flexible, robust, and versatile, the ideal product for a huge range of packaging formats. However, they greatly impact our environment. The biggest marine litter evaluation ever completed recently found that 8 out of 10 pieces of litter found in and around rivers, oceans, shorelines, and the seafloor were made of plastic. Close to half of those this plastic litter relate to take-out food and drinks, with single-use bottles, food containers and wrappers, and plastic bags made up the biggest share. Most of these plastics are made from petrochemicals which is non- renewable and non-biodegradable. Moreover, the raw materials used to make plastic packaging may be harmful to our health, or there may be harmful chemicals added to the plastic to make it more functional.

Glanbia is seeking Bio-based alternatives to petroleum-based plastic, for improved end-of-life functions to limit pollution (including biodegradable plastics, better recycling technologies and reusable packaging) and safer linings and coatings for our health. Also, we are also interested in Ag Tech and Food Tech- biodegradable packaging options for butter and cheese.

What Glanbia requires is a packaging specialist help at this point that understands regulatory changes re. promotion of recycled packaging plus understanding of food safety re. balance of environmental sustainability improvements with maintain food safety credentials.

This challenge is driven by the Farm to Fork Strategy aspect:

- 50% reduction of the use and risk of chemical pesticides and 50% reduction of the use of more hazardous pesticides.
- At least 50% reduction of nutrient losses by while ensuring no deterioration in soil fertility, reducing the use of fertilizers by at least 20%.
- 50% reduction of the sales of antimicrobials for farmed animals and in aquaculture.
- 25% of agricultural land under organic farming.

This project has received funding from the Bio-based Industries Joint Undertaking (JU) under the European Union's Horizon 2020 research and innovation programme under grant agreement No 101023260. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio-based Industries Consortium

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Expected results

- Ability to promote sustainability credentials with our customers per Farm to Fork goals.
- Be able to show proof points (authenticate that real change has occurred on the ground) can be shown to the customer and potential to the consumer.
- Ability to engage with a packaging supplier on robust bio-alternatives to e.g., non-recycled packaging.
- Options required on suitable packaging to use including recycled packaging etc, however without reduce shelf life or cause integrity or migration concerns.

Types of Collaboration

1. Pilot running and product testing
2. R&D opportunity
3. Knowledge sharing and Tech Transfer

Company Information

Company Name: Glanbia Ireland <https://www.origingreen.ie/who-is-involved/manufacturers/dairy/glanbia-ireland/> (includes logo)

Company information

- Company Name & Location- See attached <https://www.glanbiaireland.com/our-company/our-locations>
- Company Vision, Mission & Growth <https://www.glanbiaireland.com/our-story/our-mission-vision-and-values>
- Industry Focus & Market Size- Dairy ingredients, RTE dairy products e.g., cheese, butter, soup, RTE oat and milk-based drinks, petfood (dry), animal compound feed.
- Company Services/Products- <https://www.glanbiaireland.com/our-brands>
- Previous Innovation Collaborations- Science Foundation Ireland, Horizon Europe, DPTC, Universities/IT
- Contact Details- Joe Tierney +353(0)860472973 jtierney@glanbia.ie

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