

## Corporate Innovation Challenge Template

<b>Challenge Name: Biopolymer feed blocks</b>
<b>Code Name: BIOECONOMYVENTURES-2022-OC1-NB_1</b>
<b>Challenge Domain:</b>
<ul style="list-style-type: none"> <li>· Agriculture</li> <li>· Food, Feed and Ingredients</li> </ul>
<b>Description of the Corporate innovation Challenge</b>
<p>Nutribio wish to develop a new process of manufacturing mineral feed lick-blocks. These blocks are provided free choice to farm animals, and contain minerals and vitamins to provide the animal's daily supplementary requirements.</p> <p>We wish to utilise by-products from other industries (e.g., Food, marine, brewing/distillation) that will be suitable for animal consumption, to use as biopolymers for a hot melt extrusion process. A vitamin-mineral premix will be dosed into the extruders and combined with the biopolymer, which will then be poured into moulds to set.</p> <p><b>We are seeking to identify suitable biopolymer materials to use in the extrusion process – plentiful (2000t per year), consistent supply (150-200t per month), suitable for animal feed, palatable and relatively inexpensive (&lt;€1000/t).</b></p>
<b>Expected results</b>
<ul style="list-style-type: none"> <li>● Improved process and accuracy of formulations</li> <li>● Increased throughput of up to 50% from current process, and increase sales in similar manner from this increased output</li> <li>● Increase loading of active ingredients, reducing the carrier content of the blocks</li> <li>● Increase range of nutrients contained in the licks</li> <li>● Increase sustainability of production through use of by-products and reduced feed-food competition</li> </ul>
<b>Types of Collaboration</b>

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

## Corporate Innovation Challenge Template

1. Pilot running and product testing
2. R&D opportunity
3. New business model exploration (i.e. exclusive distribution, profit sharing, IP sharing ...)
4. Knowledge sharing and Tech Transfer

### Company Information

**Company Name: Nutribio Ltd.**

#### Company information:

Nutribio is an animal nutrition premix and supplement manufacturer, based in Cork, Ireland. We supply mineral, vitamin and functional feed supplements to the Irish and international markets. Our major focus in our innovation program is to develop and deploy solutions that enhance the environmental sustainability of animal production, and reduce the spread of AMR through optimising the metabolic and immune function of the animal.

We have ongoing collaborations with research institutions and industry partners in these areas, and have an extensive route to market in Ireland and in over 40 countries globally.



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