

Corporate Innovation Challenge Template

Challenge Name: Digitalization process development Corbion
Code Name: BIOECONOMYVENTURES-2023-OC3-CORBION_1
Challenge Domain: <ul style="list-style-type: none"> • Bioprocess development
Description of the Corporate innovation Challenge
<p>The use of bioprocess data from different process development steps and multiple data sources (historical, online, and analytical data) is often suboptimal.</p> <p>The challenge is to provide an integrated data system covering the complete chain from data collection and storage in a data system and software tools in data analytics innovation platform for analysis and dashboarding for the bioprocess development that enables to connect data from multiple SCADA systems, analytical offline measurement data system such as Chromeleon and Electronic Lab Notebook such as Biovia, manage FAIR (Findable, Accessible, Interoperable, and Reusable) data, perform data analysis and produce relevant dashboarding for KPIs graphs, quick comparison of multiple bioprocesses, by filtering on process characteristics, near-real time monitoring, and data analysis for troubleshooting and process optimization for efficiency process research and development.</p> <p>This FAIR data system is required for data, knowledge and tech sharing for key R&D activities including innovative process and product development, increased productivity, establishing a collaborative R&D or research project, smooth integrating lab, pilot, and manufacturing activity.</p>
Expected results

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- Increased innovation efficiency by 20%
- Reduction effort in working with data by 2- to 5-fold
- Improve effectiveness in execution and decision making and process/product optimization
- Ensure compliance and fit-for-purpose quality: Data organization and management for data description to ensure data curation, preservation, and sustainability
- Improve communication and collaboration

Types of Collaboration

1. Data system and digital tool development for R&D and production

Participation confirmation

Corbion will participate in the BioeconomyVentures programme and may withdraw from the program at its own discretion. During Corbion's participation BioeconomyVentures has the right to publicly disclose the company's name, challenge information, logo (in compliance with Corbion's instructions) and website for the purpose of dissemination and attracting new innovators to the programme. If Corbion withdraws from the programme, BioeconomyVentures will immediately delete Corbion's information from the programme and website.

Company Information

Company Name: Corbion

Challenge owner name and last name: Thanh Tran

Challenge owner email: Thanh.Tran@corbion.com

Company information:

Corbion is the global market leader in lactic acid, lactic acid derivatives, and a leading company in emulsifiers, functional enzyme blends, minerals, vitamins, and algae ingredients. In 2021, Corbion generated annual sales of € 1070 million and had a workforce of 2,493 FTE. Corbion is listed on Euronext Amsterdam.

Corbion has a mission to develop lactic acid for food, feed, pharma and bio-chemical applications including those in bioplastics (e.g. lactic acid applied in PLA by the Total-Corbion JV).

