



**HAL**  
open science

## A European Research Infrastructure for Biotechnology

Michael O'Donohue

► **To cite this version:**

Michael O'Donohue. A European Research Infrastructure for Biotechnology. 8th Conference on Physiology of Yeasts and Filamentous Fungi, University College Cork, Jun 2023, Cork, Ireland. hal-04135491

**HAL Id: hal-04135491**

**<https://hal.inrae.fr/hal-04135491v1>**

Submitted on 21 Jun 2023

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



# IBISBA

## A European Research Infrastructure for Biotechnology

Michael O'DONOHUE, Research Director and Division Leader, INRAE, FRANCE



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 730976 and 871118

[www.ibisba.eu](http://www.ibisba.eu)  
[info@ibisba.eu](mailto:info@ibisba.eu)



# IBISBA in a Nutshell

We envision a world where Europe's **industrial biotechnology** sector drives the global **circular bioeconomy** transition





# Our Vision is Grounded in Facts

- More than **50 countries** have adopted bioeconomy strategies
- The circular bioeconomy is an integral part of Europe's **Green Deal**
- **Industrial Biotechnology** is to the circular bioeconomy what industrial chemistry has been to the petroeconomy
- **Biomanufacturing** holds the potential to revolutionise the way we produce and consume



# Our Mission

IBISBA is a **pan-European** research infrastructure dedicated to **engineering biology** and the industrialization of biotechnology. We provide **access** to researchers from **academia** and **industry** across the globe to **integrated services** that support end-to-end, **fit-for-purpose bioprocesses**.

By **federating** research organisations, we promote **standardisation** and **good data practice** that create the basis for service reproducibility and **interoperability**, thus **accelerating** the production and of scientific knowledge and its **translation** into innovation.



# IBISBA – Why do We Need It?

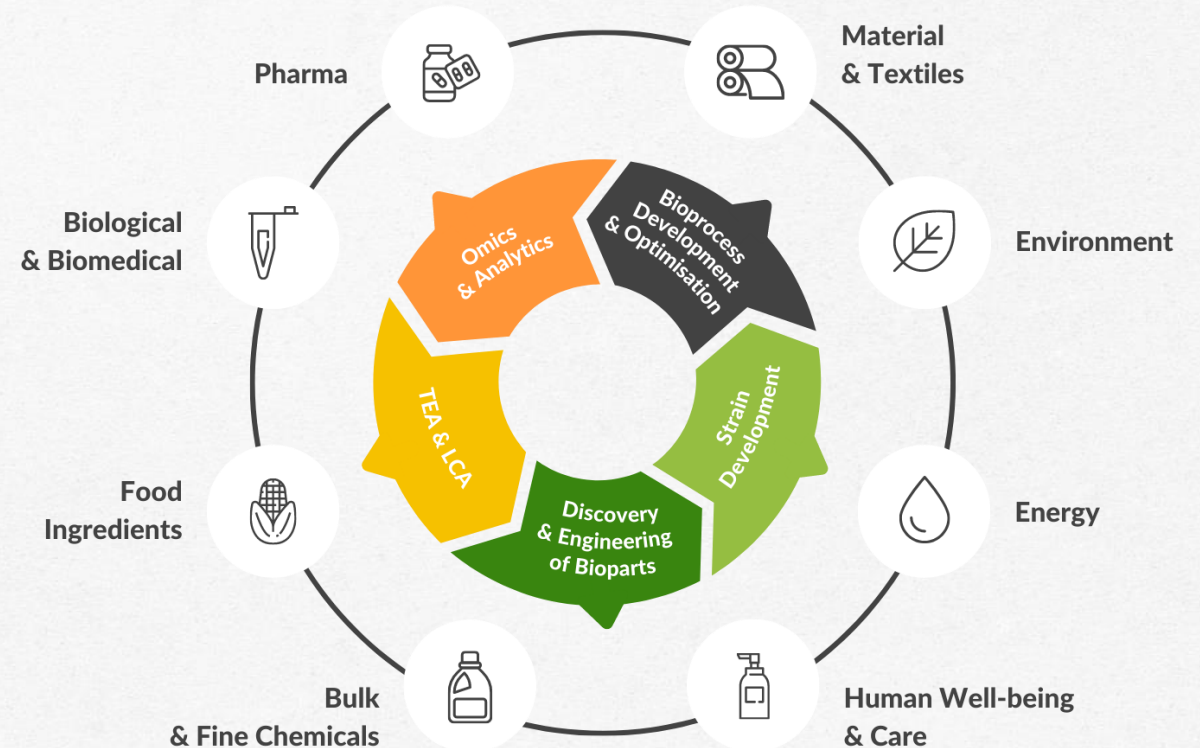
Industrial biotechnology is a key tool in the switch from a petrochemical to a **circular bioeconomy**

**BUT**

Development of industrial biotechnology is still to slow

Despite the **COVID crisis**, the **war in Ukraine** etc., oil, coal and gas are still industrial gold standards.

Among the **drivers for change** figures low cost bioprocessing.



# IBISBA – Why do We Need It?

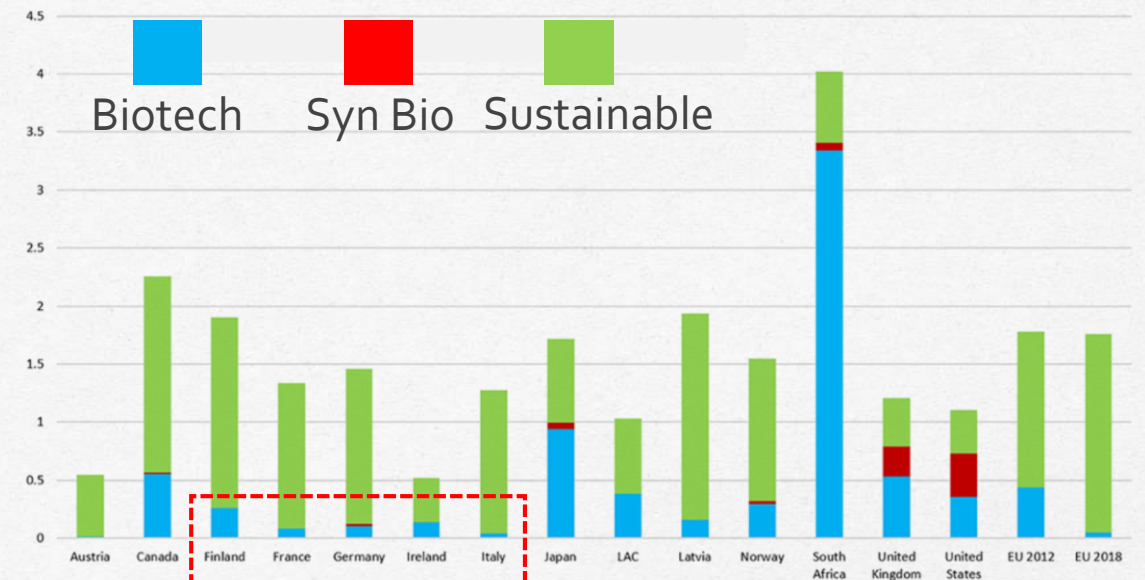
Biotechnology as an advanced tool for biomanufacturing is undergoing strong development **outside of the European Union**

Simultaneously, there is a danger that **biotechnology** is losing ground **in the European Union**



BioMADE Receives \$450M Budget Increase from The Department of Defense, March 2023

Occurrences of terms in national bioeconomy strategies



Bell et al. (2021) doi:10.1049/enb2.12008

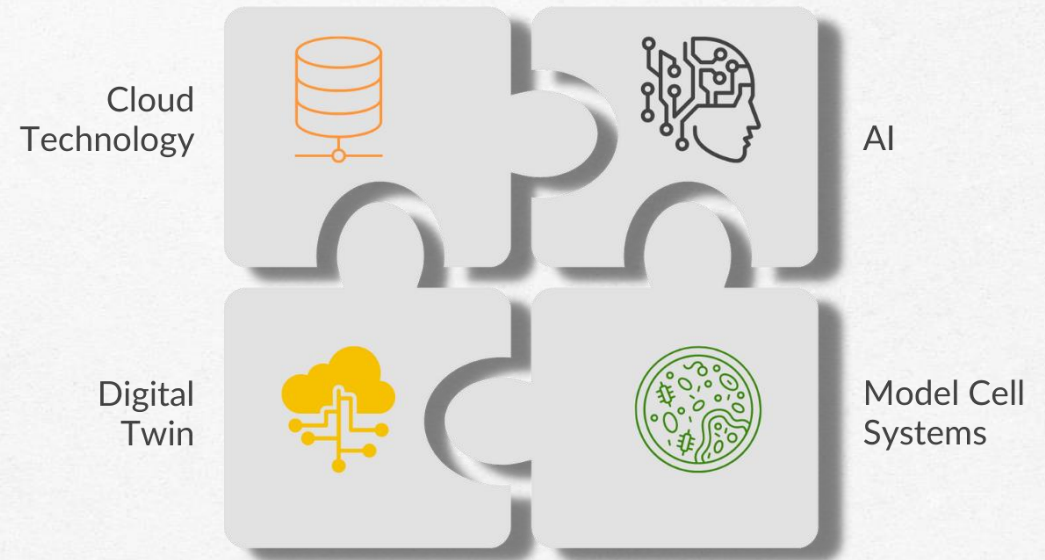


# IBISBA – Why do We Need It?

Biotechnology is on the verge of **making a difference** in manufacturing

**AI** will have **big impact** in the near future, but for this to happen digitalization is necessary

Europe has the ability to be competitive if it capitalizes on its assets – **no single Member State is equipped to go it alone**





# IBISBA in Europe

## National Localisations

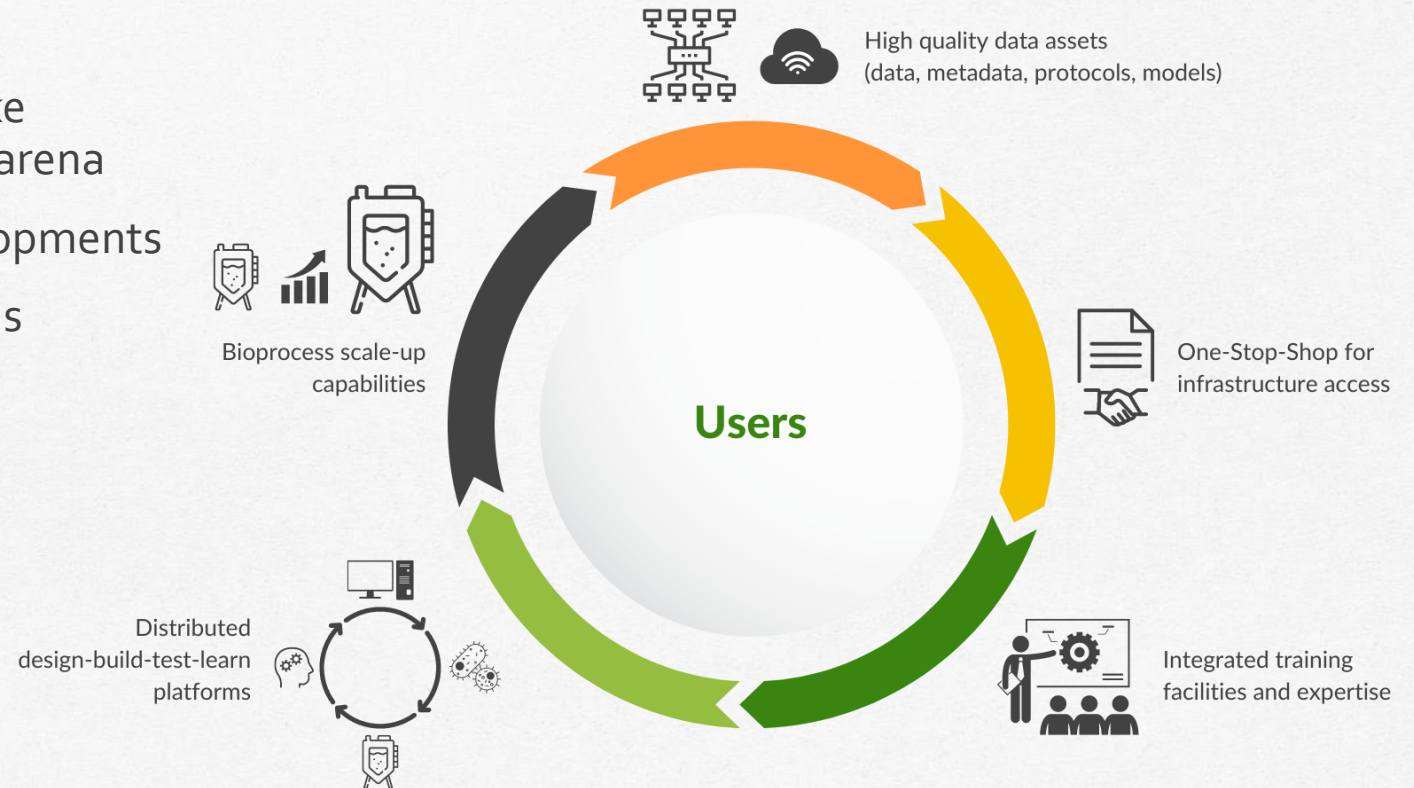
IBISBA federates Europe's leading public-operated research facilities into a coordinated business environment to deliver low carbon and low environmental footprint biotechnologies.

IBISBA provides the governance and the stable business environment necessary to think BIG.



# Being part of IBISBA means that your facility...

- **joins** a major initiative designed to make Europe more competitive in the global arena
- **reaches out** to cutting edge S&T developments
- **benefits** from shared tools and methods
- **profits** from increased visibility
- **offers** much more to its local Users





# IBISBA in action

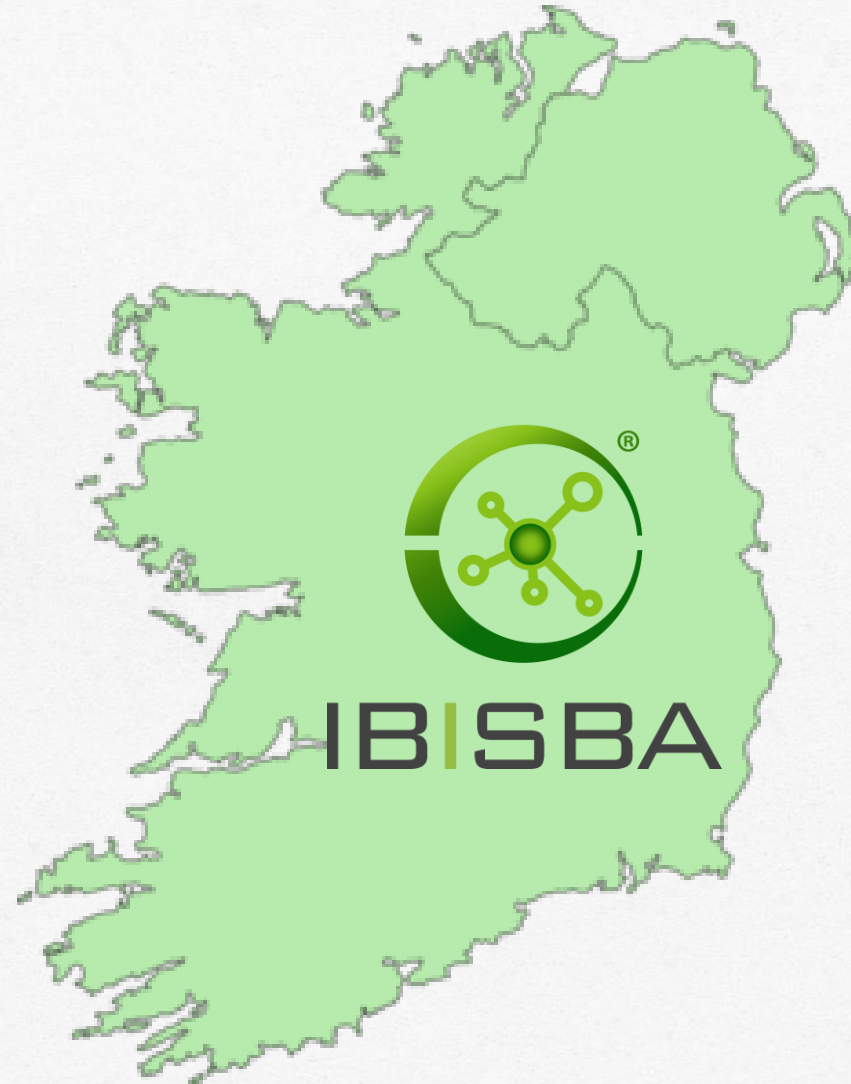


**canSERV**

providing cutting edge  
cancer research services  
across europe

- Providing the basis for reliable, intelligent biomanufacturing
- Developing environmental biotechnology for sustainable agriculture
- Contributing to data treatment in biomedical research

# Awaiting IBISBA-IE





# Don't hesitate to contact us about joining IBISBA





# Disclaimer | European Commission

This presentation reflects only the author's view and the European Commission is not responsible for any use that may be made of the information it contains.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 730976 and 871118

[www.ibisba.eu](http://www.ibisba.eu)  
[info@ibisba.eu](mailto:info@ibisba.eu)

