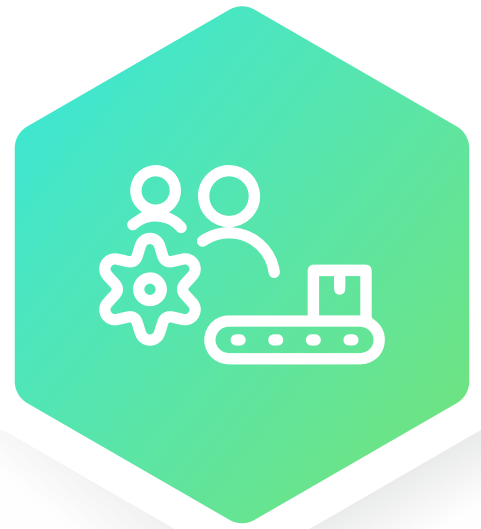


Lighthouse Partnership in Disruptive & Sustainable Technologies





A National Ecosystem Collaboration to Drive Manufacturing Transformation

The **Lighthouse Partnership in Disruptive & Sustainable Technologies** was established by industry in 2020 with an objective to accelerate manufacturing transformation through ecosystem collaboration.

The current global manufacturing transformation cycle - Industry 5.0, seeks to transform current manufacturing through the adoption of digital, disruptive and sustainable technologies enabled by an appropriately skilled workforce.

Since Ireland hosts a disproportionately high density of manufacturing entities spanning multiple sectors in a small geographic footprint, the network seeks to leverage the collective wisdom of this sector and adjacent sectors in emerging, digital and sustainable technologies via a community based approach to accelerate transformation efforts nationally.

The benefits of transformation include:

-  Potential to improve process efficiency
-  Reduce costs, reduce batch failures
-  Reduce production cycle time
-  Better integration with third parties
-  Supply chain risk mitigation
-  Transform site skills, competencies & capacity

Work Completed To Date

As an Industry led consortium, with support from **IDA Ireland, Enterprise Ireland** and **IBEC** the following activities have either been completed or planned.



Roadmap

Awareness, information sharing.

Future skills needs assessment.

Engagement with skills providers on the generation of relevant courses.

Defining opportunities in Industry 5.0 (3 year horizon).



Activities

Identification of projects and use cases.

Virtual workspace opportunity.

Physical workspace opportunity i.e., **Advanced Manufacturing Centre (AMC)**.

Identification of partners to accelerate transformation i.e., **research centres, enterprise.**



Consortium

Initial Focus:

Traditional pharmaceutical manufacturing now scaling to all manufacturing and enabling sectors.

Objective:

Driving transformation through partnerships.



Working as a group to identify key funding opportunities/ requirements with Industry support from **IDA Ireland, Enterprise Ireland, Sustainable Energy Authority of Ireland (SEAI), IBEC, and Science Foundation Ireland (SFI)**.

To aid understanding of **Industry 5.0** (current capacity & future direction), a **digital maturity & sustainability assessment** was facilitated by **Innopharma Technology** with 8 clients & is now available as a service on request.

Partnership Roadmap

Program Objectives

Define roadmap, milestones, deliverables and scope of work for period 2020-2022. Starting with Pharma sector initially, and rolling out to other manufacturing sectors (post 2022).

Project Identification

Industry 5.0 sectoral maturity defined - projects at site level and collaborative projects at sectoral level identified.

Build Ecosystem (Current Status)

Initiation of cross-cutting collaborative projects via the Advanced Manufacturing Centre (AMC) and partners. Roll out of one forum across all manufacturing and enabling sectors (Technology, Sustainability, Engineering etc.).

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Maturity Assessment of Clients for Industry 5.0

Industry 5.0 maturity assessment-deep dive with 8 clients to define current capacity and future priorities over the next 3 years - Via **Innopharma Technologies Ltd. Services.**

Growing Partnerships

Disruptive Technologies Partnering Portal (DTPP) built to profile enterprise capacity in digital, disruptive and sustainable technologies, to encourage partnerships and profile national expertise. Funding supports evaluated visit: <https://dtpp.ie>.

Current Ecosystem Partners

The initial consortium focused on the traditional pharmaceutical sector with representation from many top multinationals (MNCs) in addition to small medium enterprises (SMEs) in emerging technologies and large technology companies:



Further Information contact

We would like to expand network participation to other members & sectors.

If interested, please contact **Chantelle Kiernan** at Chantelle.kiernan@ida.ie and/or **Domhnall Carroll**, MD AMC at domhnall.carroll@amcireland.com for more information.



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