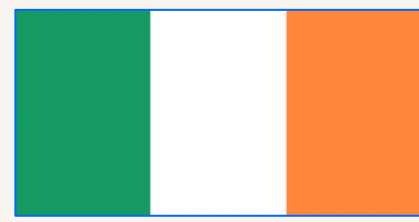


EDIH

European Digital Innovation Hubs Network

Driving the EU's digital transformation



Ireland

4

Members

2/4 *EDIHs



2/4 **SoEs



21

Sectors

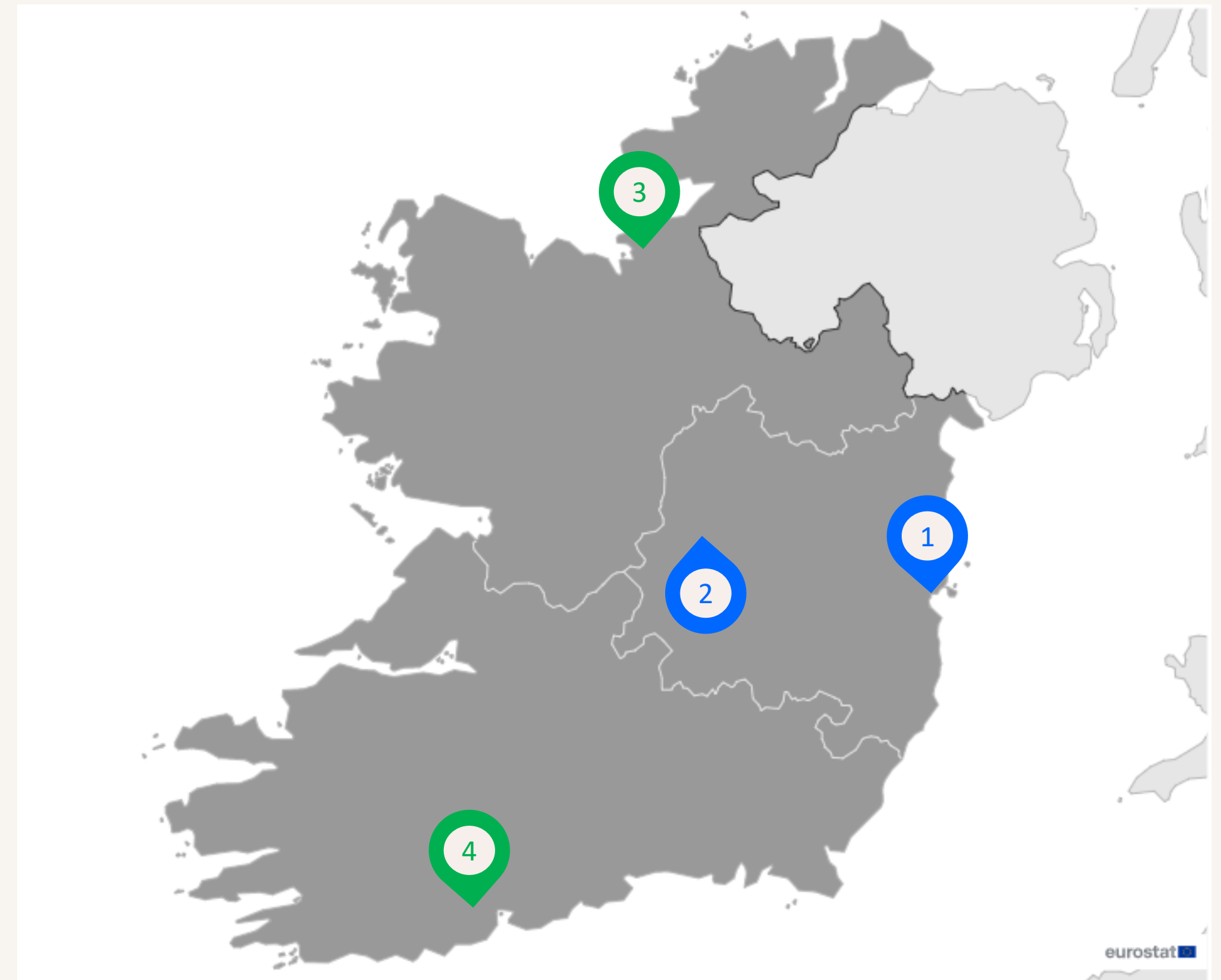
EDIHs in Ireland

Exhibit expertise in diverse sectors including food and beverages, telecommunications, and manufacturing, demonstrate a comprehensive approach to digital innovation.

They play a pivotal role in advancing technological solutions, contributing to the transformation of sectors such as travel and tourism, smart cities, and life sciences.

Additionally, they focus strategically on education, financial services, and healthcare, fostering innovation and driving advancements in technology.

📍 EDIH 📍 SoE



■ *European Digital Innovation Hubs

■ **Seal of Excellence (SoE)

*Funded under Digital Europe Programme

Network overview: 4 members – 2 EDIHs



CeADAR

Factory
XChange

FxC

Network overview: 4 members – 2 SoEs



Data2Sustain



ENTIRE



17 Technologies

Lead technological innovation, employing artificial intelligence and decision support, big data, and high-performance computing to drive data analytics and simulation techniques across various industries.

Play a lead role in advancing smart solutions, particularly in manufacturing, logistics, and human-computer interaction, leveraging technologies such as high-performance computing, IoT, and robotics.

Place strategic emphasis on cybersecurity, virtual reality, and additive manufacturing.



Services

Excel in smart specialisation strategies, providing targeted support for innovation in key sectors.

Play a crucial role in advancing circular economy initiatives, prototyping, and innovation management.

Prioritise regional development, SME support, and technology transfer, to foster innovation ecosystems.

Success stories

Condition-based monitoring of injection moulding machines using real-time machine data

EDIH

Factory
XChange

CUSTOMER

- Total Plastic Solutions
- [Website](#)
- Small-sized enterprise (10-49 employees).

TPS

TOTAL PLASTIC SOLUTIONS
Engineered Polymers



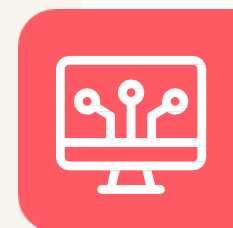
Service type

Support to find investment



Technologies

Digital twins



Sectors

Manufacturing and processing



Challenges

TPS faced delays in production reporting, difficulties tracking maintenance needs, and an inability to capture real-time machine data or accurately measure energy and CO2 emissions. These issues impacted production efficiency, cost management, and sustainability efforts.



Solutions

- **Real-time monitoring system:** developed to capture live machine data, enabling predictive maintenance and tracking energy use and CO2 emissions.
- **Edge device:** installed to monitor machine status, energy consumption, and tool usage in real time.
- **Dashboard with alerts:** created to display KPIs and send notifications when thresholds are exceeded.

Success stories

Condition-based monitoring of injection moulding machines using real-time machine data



Thanks to EDIH
FxC the SME
achieved:

- **real-time monitoring:**

TPS developed a system that continuously monitors machine components and energy use, enabling predictive maintenance and reducing downtime;

- **energy efficiency and sustainability:**

TPS identified inefficiencies through captured real-time data, such as unnecessary energy consumption by hydraulic machines.



Results and benefits

Reduced downtime and repair costs

TPS's condition-based monitoring system identified and addressed equipment issues before failures occurred, reducing unscheduled downtime and repair costs, while also minimising raw material waste.

Increased profit margins

With better cost calculations through real-time data on energy and tool usage, TPS improved pricing accuracy for customers, leading to higher profit margins.

Sustainability improvements

The monitoring system's ability to track energy use per part helped TPS optimise machine efficiency, reduce energy consumption, and cut the carbon footprint of production, aligning with both business and sustainability goals.

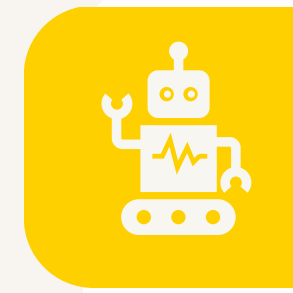
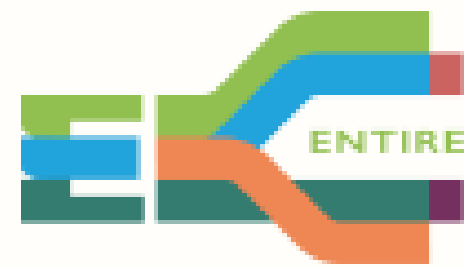


Lessons learnt

- ✓ **Set clear goals:** define project goals thoroughly from the beginning to improve execution and tracking.
- ✓ **Control scope creep:** focus on the project's core objectives and manage additional ideas to avoid delays.

Good practices

Process to scale EDIH service delivery and an example of a client pathway



Technologies

Artificial intelligence and decision support, cybersecurity, internet of things (IoT), software architectures, internet services and applications, and virtual reality



Challenges

The ENTIRE EDIH, based in southern Ireland, possesses extensive expertise in AI, cybersecurity, IoT, and digital transformation to support SMEs and PSOs. However, while the EDIH model has proven highly effective in connecting organisations with digital experts, its rapid success has created challenges in scaling service delivery efficiently. With multiple stakeholders involved, maintaining accurate administration, reporting, and structured service expansion has become essential to ensure smooth operations.



Solutions

- **Needs defined stakeholder roles and responsibilities:** established a structured service delivery framework, outlining clear responsibilities for the service provider, consortium lead, national funder, EDIH Network, and clients to ensure seamless coordination and reporting.
- **Tiered approach for service delivery:** introduced a multi-tier service model, integrating the Digital Maturity Assessment (DMA) in Tier 1, allowing clients to assess digital gaps before advancing to more in-depth support services.
- **Systematic tracking and reporting:** implemented structured progress tracking, generating short reports at each service tier, capturing DMA scores, service outcomes, and next steps to optimise future engagements.

Good practices

Process to scale EDIH service delivery and an example of a client pathway



Results and benefits

Successful client case: Place Engage Ltd

The EDIH supported Place Engage Ltd. from discovery and assessment to technology analysis, enabling them to secure an Innovation Voucher and develop a roadmap for platform development.

Expanded service portfolio and rapid scaling

The EDIH successfully designed a comprehensive portfolio of over 40 tailored services, allowing them to scale service delivery quickly and efficiently.

High demand and client engagement

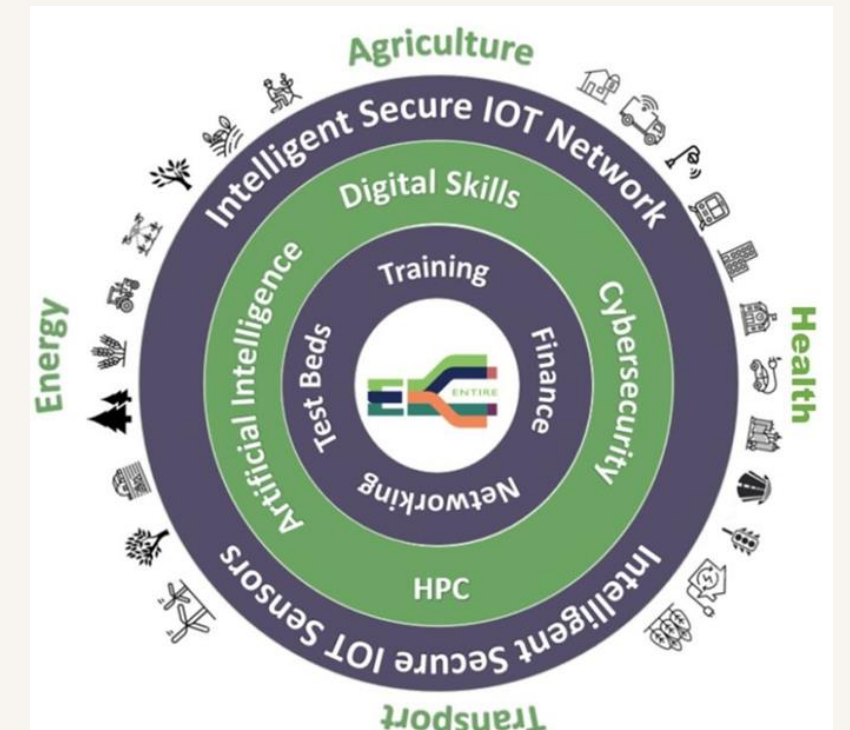
Within the first months, ENTIRE EDIH conducted 51 Digital Maturity Assessments (DMAs) and delivered 61 services, demonstrating strong demand and effective outreach.

Within the first months, 51 DMAs and 61 services were delivered, demonstrating the EDIH's rapid scaling and strong client engagement.



Lessons learnt

- ✓ **Introduce clients properly to EDIH:** clearly explain the EDIH model, the DMA's purpose, and available funding to ensure clients fully understand and engage with the support system.
- ✓ **Establish structured processes before scaling:** define and document a structured, end-to-end process to ensure high-quality service delivery.
- ✓ **Ensure cross-functional team involvement:** engage finance, marketing, and other key departments.



Images from the service delivery and client pathway