



# Success stories from the European Digital Innovation Hubs (EDIH) Network

Digitally transforming businesses just like yours!

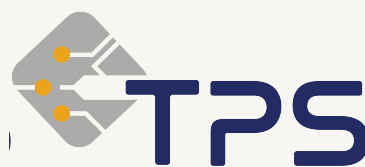
## Condition-based monitoring of injection moulding machines using real-time machine data

EDIH involved

Customer



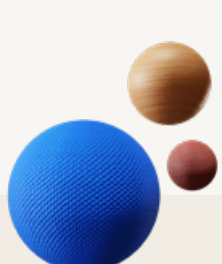
FactoryxChange (FxC)



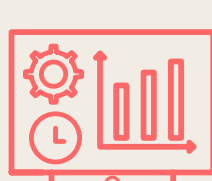
Total Plastic Solution (TPS)

Ireland

> <https://totalplasticsolution.ie/>  
> SME specialised in injection moulding and precision engineering



### Challenges



Capture real-time machine data to improve efficiency, enable predictive maintenance and reduce environmental impact

### Services



Support to find investment

### Technologies



Digital twins

Leveraging the expertise of the EDIH Network, TPS successfully:



Collaborated with the **Irish Digital Engineering and Advanced Manufacturing (IDEAM)** Institute to develop a technical solution.



**Secured European funding** for implementing the project.



Developed a **condition-based monitoring system** that captures live machine data and enables predictive maintenance.

### Benefits

#### Increased energy efficiency

Real-time data enabled the calculation of energy consumption per part across different machines. Identifying the most efficient machines not only **reduced energy use and costs** but also **minimised the carbon footprint**.

#### Greater customer satisfaction

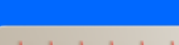
The insights empowered optimised production and improved on-time delivery rates, leading to **greater customer satisfaction**.

#### Improved profit margins

Information on wearable parts and tool usage was collected to improve cost calculations and **quote customers more accurately**, increasing profitability.

#### Smarter maintenance

The system's capacity to track energy usage and machine status allowed faster identification of production outages, leading to **predictive maintenance, reduced repair costs, minimised downtime and less raw material waste**.



# 20%

potential cost reduction using more efficient machines

With equipment running more effectively and efficiently, TPS **increased productivity and revenue**.

The new system has been commercialised to three other manufacturers, generating additional revenue for the company, while **transferring know-how and technological advances to the wider manufacturing community in Ireland**.



Discover how the EDIH Network can accelerate your business's digital and sustainable transformation.

Visit the [website](#) & become our next **success story!**