

**MADE
SMARTER**
INNOVATION

SMART
MANUFACTURING
DATA HUB

Unlocking the Value of Shared Data in Manufacturing

Introduction to the Smart Manufacturing Data Hub

SMDH PARTNERS

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SMART
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DATA HUB

Industry
Bodies

+

Research,
Development
& Innovation

+

Technology
Partners

+

Commercial
Solution
Providers



What is the Smart Manufacturing Data Hub?

SMDH will support and enable small and medium-sized manufacturers, like you, to become more competitive by harnessing the power of data from your factory.

Key objectives:

- ✓ Increase Productivity
- ✓ Raise the adoption of digital technology
- ✓ Use your data smarter
- ✓ Get real value from data available



Moving companies away from non-data gathering manual systems

AI & ML informed production manufacturing systems

Manufacturers face a challenge to keep pace with the dramatic speed of global technological change: unlocking the **enormous benefits** of digital technologies, while **limiting the risks** they present both now and in the future.

Current market conditions further intensify the need for rapid digitalisation in the sector...

More output from less people



Supply chain disruptions



Skills shortage



Global competition



Move towards net zero



You don't have to leave the four walls of your factory...



SMDH de-risks digitalisation and drives productivity in the manufacturing sector, using **innovation and **collaboration** to unlock the value of shared data**

Company Categories:

Every SME understands the benefits of data and the value it can provide. However, each business is at a different stage on their data journey. Different challenges face these companies which delays their advancement.

- 1) No data or no idea how to use data effectively – unsure where to start on a digital journey (Overwhelming thought)
- 1) Some data which is not been used properly. Not accessing value from data available – lacking time/expertise
- 1) Lots of data with some person in the company taking responsibility – driven by reams of excel sheets which is time-consuming to analyse



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Support for Companies

Identify non-optimal energy usage –Energy Insight dashboard.

Made specifically for Manufacturers

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Energy bills are broken down to identify potentially wasteful practices

Your phantom load
This is the total amount of unexpected energy used outside of working hours
28%

Total Load (kWh)

12,501

Total Cost (GBP)

3,088

Cost (GBP)

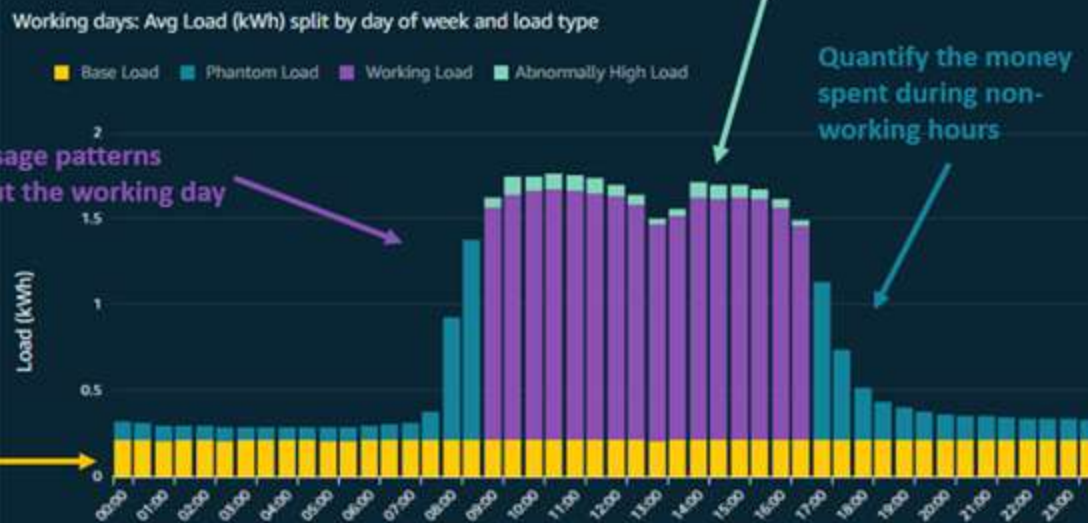
Cost (GBP)	Total
Base Cost	723
Phantom Cost	703
Working Cost	1,588
Abnormally High Cost	75

Identify abnormally high consumption

Quantify the money spent during non-working hours

Identify usage patterns throughout the working day

Quantify the constant energy used in the background



Phantom Load, simply put, is your 'unproductive' energy use.

This could come from ...



- Energy used by "always-on" equipment
- Energy used by equipment when idling (or when someone forgot to turn it off)

Our energy Insight dashboard provides a measure of your base load consumption which is the constant, background energy usage, and any extra energy usage on top of this outside of your working hours.

<https://smdh.uk/manufacturing-energy-insights>

Optimize Your Operations with IoT Solutions

- Power Monitoring: Track equipment usage.
- Temperature Monitoring: Ensure optimal conditions.
- Air Quality Monitoring: Maintain safety standards.
- Downtime Capture: Minimize production halts.
- Job Tracking: Streamline production flow.
- SMDH MultiSense: Comprehensive data integration.



Understanding the value of your data

- Bespoke data project
- Data Analysis
- Dashboards created to visualise your data

Example projects –

- Sales Data Analysis
- Scrap Metal
- Downtime



The graphic features a teal background with a white box in the top left containing the Macrete logo and tagline. A large yellow arrow points from the title area to a yellow box containing the main topic. To the right of this box is a circular graphic with concentric lines. The overall design is clean and professional, using a color palette of teal, yellow, and white.

MACRETE
PRECAST FOR INFRASTRUCTURE

CASE STUDY
With Richard Hogg

**IOT INTELLIGENT WIRELESS
MONITORING OF PRECAST
CONCRETE EQUIPMENT**

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The Digital Innovation Fund assists UK SMEs by offering accessible solutions, processes, and services to boost efficiency and productivity without disrupting business operations or incurring high costs.

- Total Control Pro Ltd – AI-Ready Manufacturing Technology Solution
- DevTank – IOT Sensors and test equipment

www.smdh.uk/digital-innovation-fund-awardees

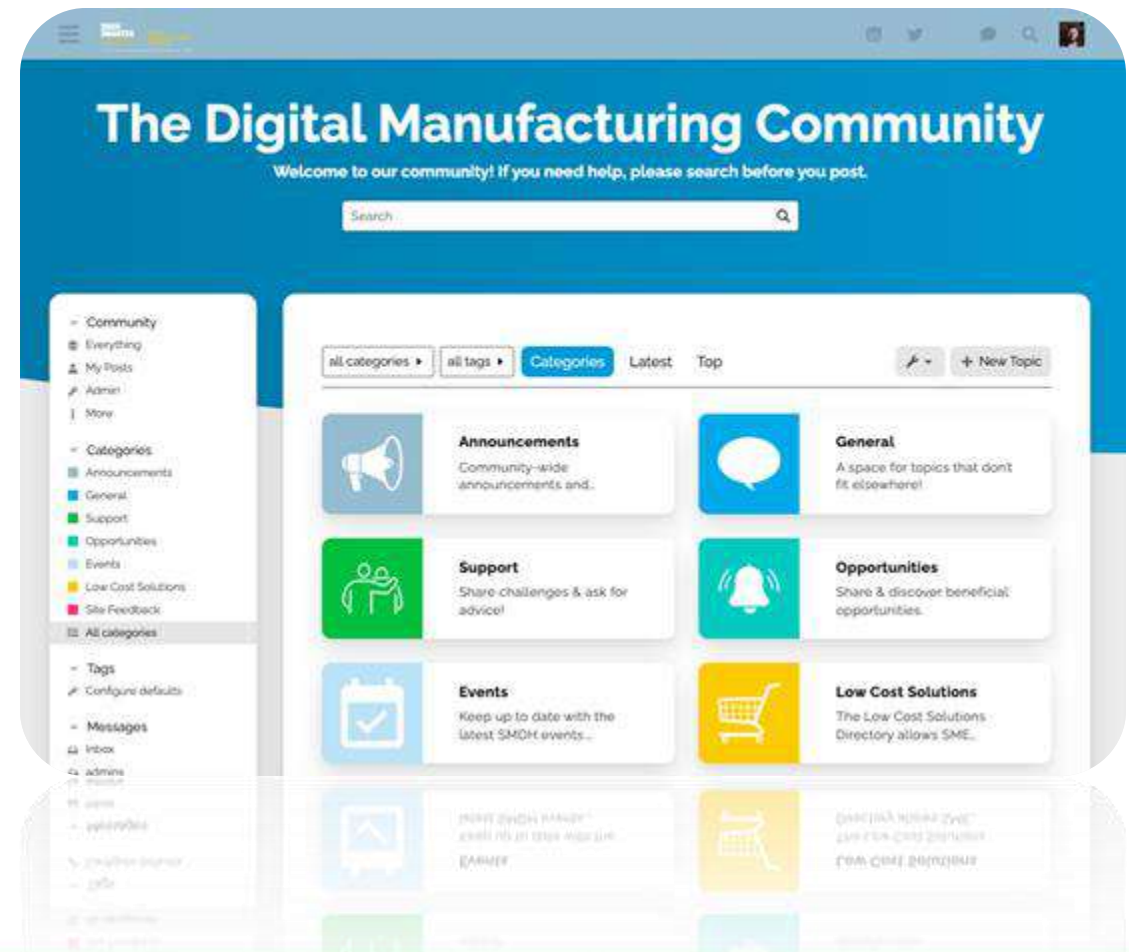


The SMDH Digital Manufacturing Community

An interactive online hub, bringing together the SME Manufacturing eco-system.

- Access an **extensive network of peers** & suppliers.
- Learn best practice from **experts, advisors & mentors**
- Share challenges, get **support & guidance**
- Discover **events & opportunities**
- Keep up to date with the **latest innovations & trends**.

<https://smdh.uk/smdh-community>



SMDH Academy

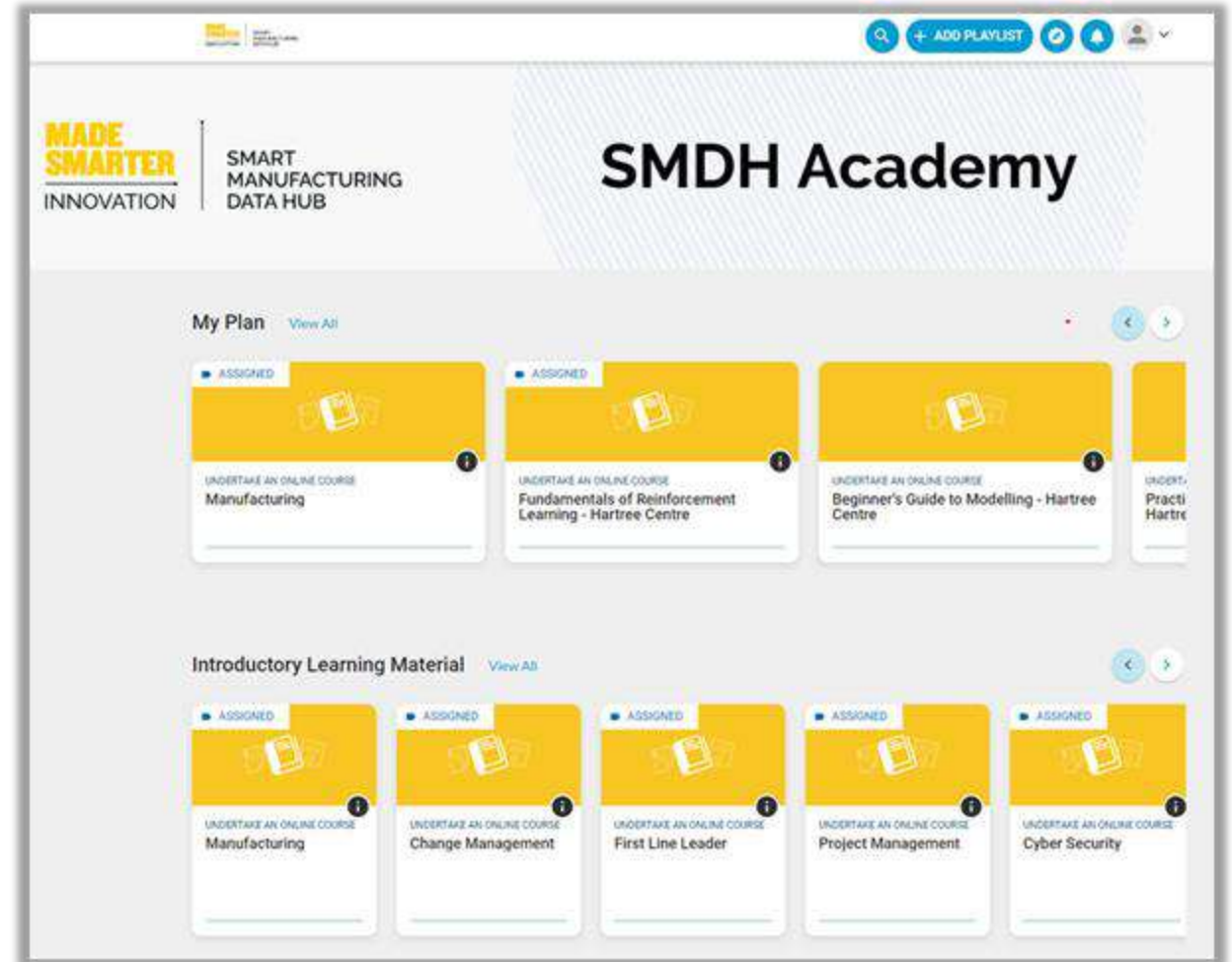
A learning experience platform that provides **data and digital training** to enable SME's and their workforce to **learn and upskill** by providing them with a wide range of **training content**.

SMDH Academy will include:

Content has been designed in a **'microlearning'** format.

- You decide what to learn
- You decide when to learn
- You can complete your training at a time and place that suits your busy schedule

www.smdh.uk/smdh-academy



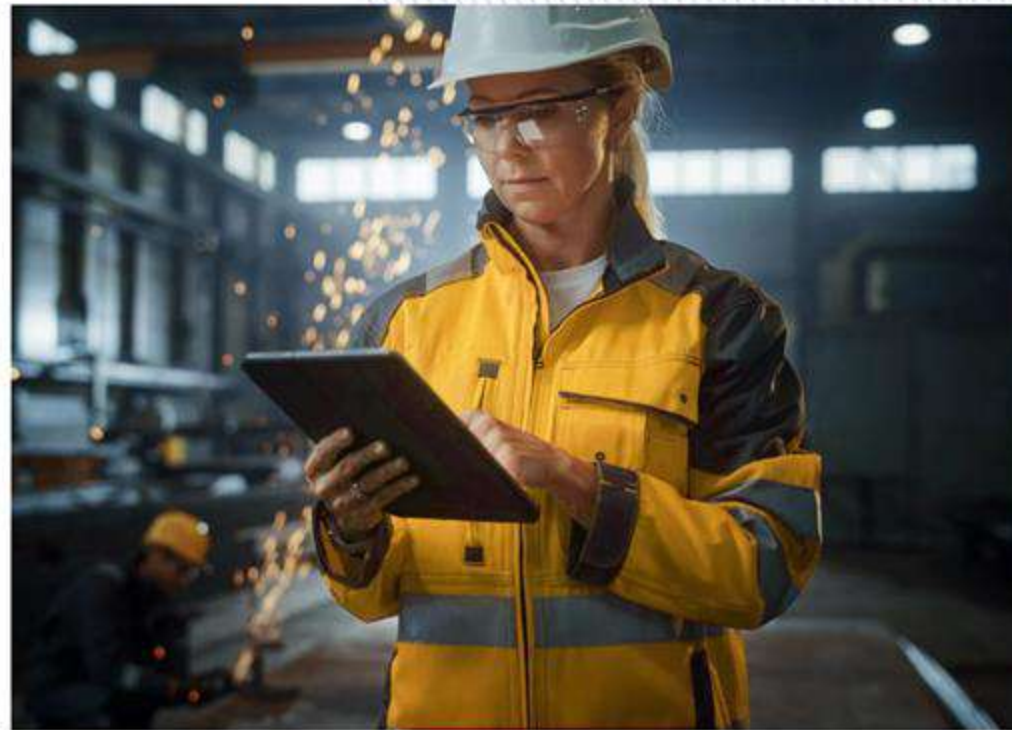
MANUFACTURING SMARTER

The Smart Manufacturing Data Hub (SMDH) supports small and medium-sized manufacturers to become more competitive by harnessing the power of data.

Digital solutions, expert guidance and funding are available to companies through the hub, allowing them to explore and evaluate their processes, make operational savings, de-risk investments and become more digital savvy.

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