# Sustainability Case Studies

Q2 2024

13 CLIMATE

**3** GOOD HEALTH AND WELL-BEING

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# Kettering NHS

Proactive maintenance strategy saves time and money

SWG, part of the Design Management division, has supported Kettering General Hospital NHS Foundation Trust (Kettering NHS) with digital solutions for facility management.

The NHS has extensive requirements in terms of functionality of for example lighting, air conditioning and radiators. Kettering NHS is an older healthcare facility and requires effective information systems and maintenance procedures to comply with the strict regulations set by the NHS.

> ADDNODE GROUP

#### ) NEED

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Kettering NHS needed effective digital information systems and maintenance procedures to comply with the strict requirements set by the NHS.

#### SOLUTION

SWG supported Kettering NHS with the products QFM and QFM Space to collect and digitalize information of drawings, equipment, and transportation data. This helped to reduce the amount of time for maintenance of the facilities and helps Kettering NHS to comply with the strict regulations.

#### SUSTAINABLE BENEFITS

Aside from improved compliance, this solution also prevents delays in clinic services and enables a more proactive maintenance strategy. This results in savings of approximately GBP 4,000 per week by reducing emergency maintenance. DIVISION Design Management 3 GOOD HEALTH AND WELL-BEING

SWG is an Addnode Group company that creates digital solutions for Facility Management, Property Management and Asset Management. They assist their customers with valuable building data, 3D building models and digital drawings.

Kettering General Hospital NHS Foundation Trust is an older hospital facility in the UK. All hospitals within the NHS are under strict regulations and needs to be compliant to ensure optimal patient care.

# CASE STUDY **Energy Systems Catapult**

# More efficient simulation reduces carbon emissions from buildings

Technia, part of the Product Lifecycle Management division, has supported Energy Systems Catapult (Catapult) in developing a more efficient simulation tool for its product Home Energy Dynamics.

Catapult's system Home Energy Dynamics is used to simulate energy usage in buildings and assess the performance of low-carbon heating systems. The simulation is highly accurate but takes a very long time, so there was a strong need for increasing the speed of the simulations.

## NEED

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Catapult needed to increase the simulation speed of their product Home Energy Dynamics to be able to provide more simulations faster to their customers.

#### SOLUTION $\bigcirc$

Technia assisted Catapult by creating a comprehensive test library for a building's various energy systems, such as heating, ventilation and air conditioning which reduced the simulation time by 50 %. To further increase the speed of the simulations, the system was supplemented by TECHNIA's tool Claytex Multirun, which enabled up to ten simulations to be run in parallel instead of one at a time.

### SUSTAINABLE BENEFITS

Thanks to these improvements, Catapult can now offer evaluation, selection and implementation of technologies to reduce carbon emissions from a building's heating and cooling systems.

**Product Lifecycle Management** 

DIVISION



Technia is an Addnode Group company, a global provider of solutions for digitalizing product lifecycles - from idea, design, simulation and manufacturing to sale, aftermarket, and repurposing. For Technias customers, the benefits are shorter lead times, greater innovation, and increased efficiency and traceability, making product creation sustainable.

Catapult was founded from Innovate UK and is a team of technical consultants who supports companies which products contribute to the climate transition in various sectors.

# CASE STUDY Näringslivets producentansvar (NPA)

# Platform for circular and recyclable packaging

Decerno, part of the Process Management division, has developed a new business and logistics platform on behalf of the producer responsibility organization Näringslivets Producentansvar (NPA)

In 2024, new producer responsibility legislation was introduced in Sweden with the aim of increasing recycling. NPA was established between five trade associations and an approved producer responsibility organization and needed a new business and logistics platform to help its members become more sustainable.

> ADDNODE GROUP

#### NEED ()

NPA needed a new business and logistics platform to help its member packaging producers transition to circular packaging, comply with the legislation and meet Sweden's recycling targets.

# SOLUTION

Decerno supported NPA with a business platform for logistics planning, tracking and reporting, with built-in fees, reimbursements and case management. The system is designed to handle the thousands of shipments and large volumes of material that this extensive operation requires.

#### SUSTAINABLE BENEFITS 8

The new business platform enables consumers, businesses and municipalities to achieve higher recycling rates. NPA also works with manufacturers and recycling facilities to design packaging based on data that contributes to circular packaging design.

DIVISION Process Management



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Decerno is an Addnode Group company in division Process Management, with 40 years of experience in making tailored IT systems for their clients. Decerno works across most sectors and has a strong commitment to working with sustainability-related projects.

NPA is a newly founded company and producer responsibility organization that helps packaging producers to become more sustainable and works to increase recycling and circularity throughout the value chain.