



CASE STUDY

Estates and Facilities

Operational and environmental improvements

Superfy supported DCU Alpha with their campus sustainability objectives and provided a potential cost saving of over 45%



A commercial innovation campus

DCU ALPHA, based in Dublin, Ireland is a commercial innovation campus that promotes the growth of research-intensive businesses that are creating the technologies and services of tomorrow. The 200,000 sq. ft campus hosts over 40 companies and over 500 employees across multiple buildings.

If you track it you can measure it

As DCU Alpha began looking at the creation of a more sustainable campus, one area of focus was the monitoring and reduction of operational costs around their waste and recycling schemes.

However, their ability to understand the total waste they generate was very limited. Even more challenging is the inability for them to track the individual waste for each of the 40+ companies on the campus.

To begin this process, they needed support to gather more accurate information on the amount of waste being generated and by the different waste streams.

Over
45%
SAVING
POTENTIAL










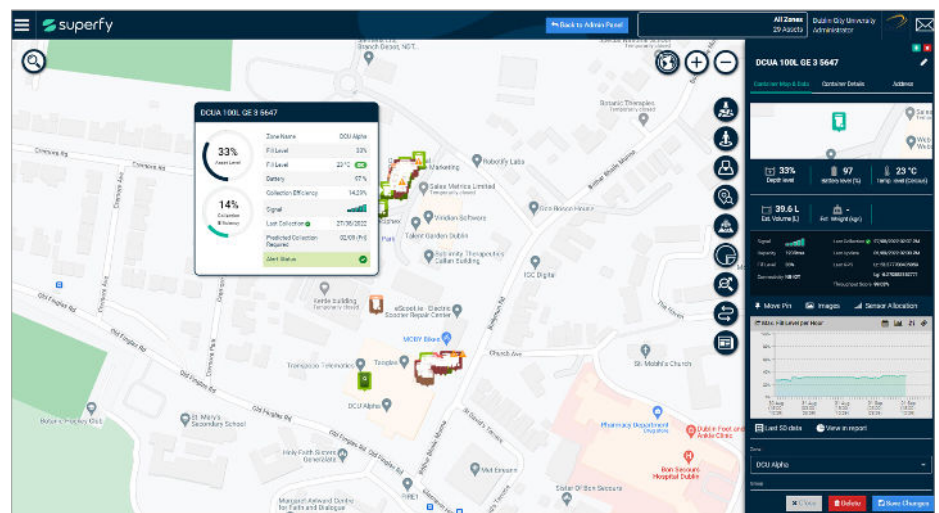
In phase one of the project, a total of 29 bins, ranging from 100 litre, up to 1,100 litre were fitted with Superfy fill level sensors to provide real time and accurate fill levels for each bin.



Capturing and analysing the data

Superfy was taken on to monitor the waste usage of all 40+ companies for the five main streams of waste on the campus:

-  General waste – made up of general non-recyclable waste
-  Dry recyclables – made up of paper, cardboard and plastics
-  Compost – made up of food and garden waste
-  Batteries
-  Glass





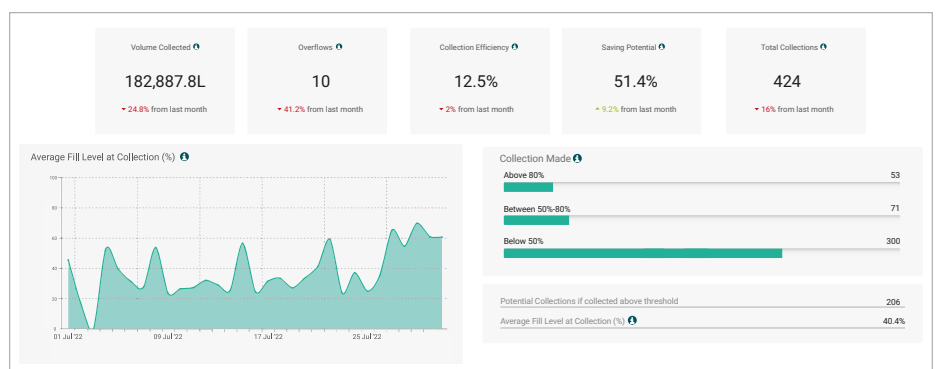
“Phase two of the project will involve monitoring of internal waste collection to more accurately analyse the potential savings from the facility maintenance by only servicing bins when needed.”



In phase one of the project, a total of 29 bins, ranging from 100 litre, up to 1,100 litre were fitted with Superfy fill level sensors to provide real time and accurate fill levels for each bin. The sensors provide regular updates to the Superfy platform allowing DCU Alpha to monitor and review the waste generation trends on a hourly basis. As bins have been collected, the fill level of each bin is automatically recorded, to highlight the overall collection efficiency. This figure enables the calculation of the potential cost savings for DCU Alpha, based on either reducing their bin capacity and/or modifying their collection schedule.

The initial results highlighted a saving potential of over 45%* which only applies to the costs incurred by DCU Alpha.

Further operational savings can be gained by the waste collector, if a more efficient collection service was applied and by the facility maintenance company, if internal bins were only emptied when needed to.



* Based on a collection efficiency of 100%



“The real time and accurate analytics provided by the Superfy platform will be a crucial tool to enable us to measure our improvements, both for the environment and our operational costs.”

Aidan Kearns
Facilities Manager,
DCU Alpha

Commenting on the project, Aidan Kearns, Facilities Manager for DCU Alpha said “We are delighted to be supported by Superfy’s sustainability, waste and recycling platform. As an organisation supporting many innovative and leading edge companies, it important that DCU Alpha match the ethos and ambitions of these companies with an equally innovative and sustainable campus. Superfy is helping us understand how we can improve our sustainability initiatives, in particular around waste and recycling. The potential savings already identified have been significant and as we move to a more sustainable campus, the real time and accurate analytics provided by the Superfy platform will be a crucial tool to enable us to measure our improvements, both for the environment and our operational costs.”

Planning for a more sustainable campus

Phase two of the project will involve the monitoring of internal waste collection to more accurately analyse the potential savings in the facility maintenance by only servicing bins when needed. In addition, the more granular waste collection monitoring for each company will provide accurate reporting on progress for any new waste reduction initiatives.

In taking on this initiative, DCU Alpha wants to lead the way in sustainability and encourage the companies it supports to follow suit – a truly innovative campus, planning for the future.



Superfy G2 fill level sensor



Aidan Kearns, Facilities Manager, DCU Alpha with a bin showing the Superfy G2 fill level sensor installation inside the lid.

