SmartViz

Digital Twin to Boost
Building Performance and User Experience

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The Challenge with Buildings and Estates

Property owners and operators often struggle with huge **energy** waste, inefficient **space** use, and poor environment leading to health, wellbeing and **productivity** issues.

The answer, SmartViz, is a first-of-a-kind digital twin platform that empowers building owners with intuitive dynamic 3D visualisation, a unique 'day in life' simulation, and realtime scenario planning.

This empowers building owner and operators with visual insights to boost the performance of the buildings and places, and the people who use them.
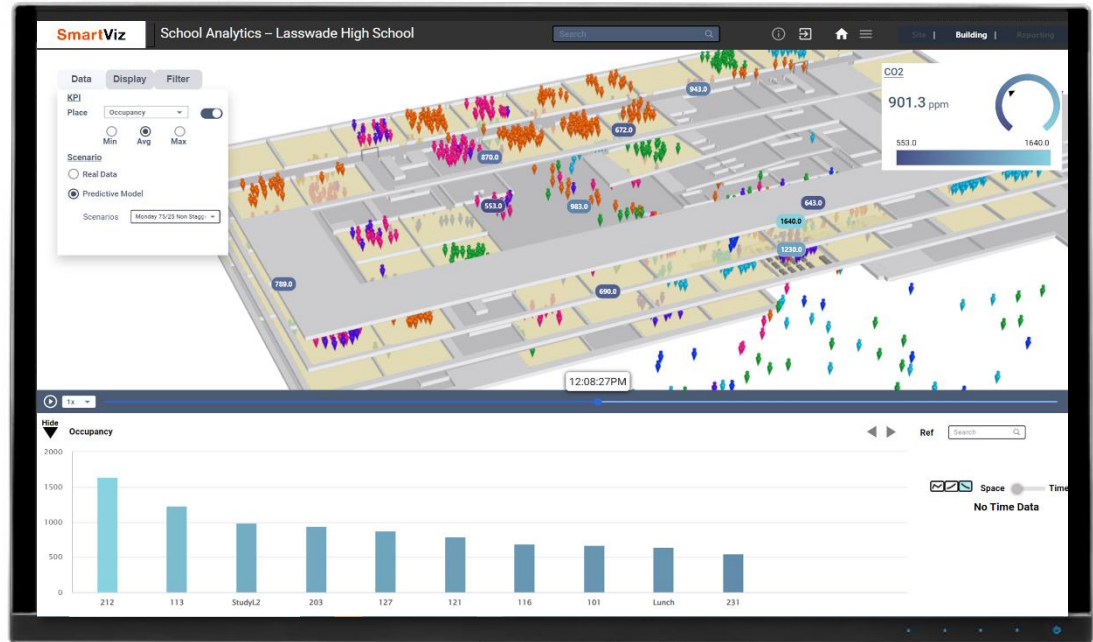
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Turn Your Data into Outcomes

SmartViz is a powerful digital twin platform that boosts the performance of your building – and the user experience.

Using realtime data analytics, predictive 'day in the life' simulation and scenario planning SmartViz can help you optimise your space. So you can build a more productive and energy-efficient building for all.
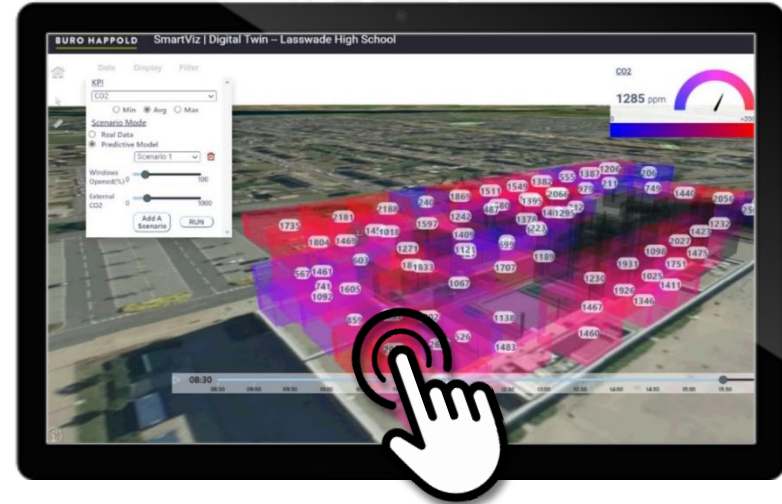
- Maximize space efficiency

- Improve climate resilience

- Enhance productivity & wellbeing

- Save operational costs

- Create a single source of truth from diverse data to drive business decisions
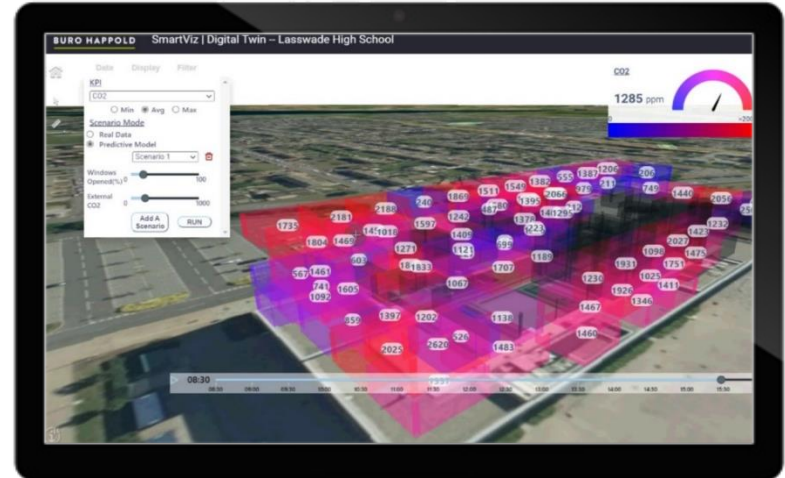
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How it works

A one-stop solution to monitor, analyse, simulate, scenario plan & optimise buildings:

- Dynamic, intuitive 3D visualizations

- Unique day-in-life modelling

- Realtime scenario planning

- IoT sensors, BMS and weather data integration

- KPI-driven data aggregation and analytics

- Scalable from a floor to whole campus / portfolio

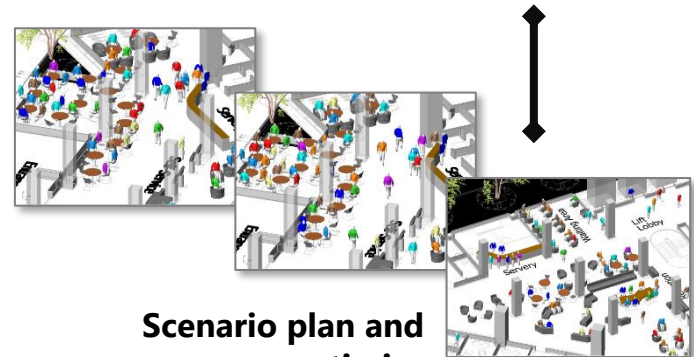- Powered by 20 years experience in building optimisation

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Monitor KPIs and insights

Predictive modelling

Scenario plan and optimise

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Key features and benefits

Insights to increase **space utilisation**
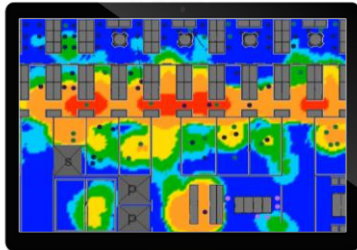

Reduce **energy** consumption

PLUS live alerts and updates

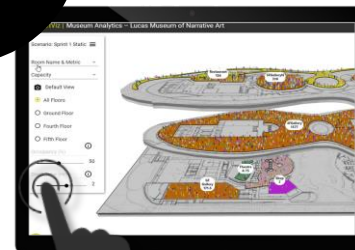Save **cost** across portfolios

Visualise each campus, building, floor and room

Simulate 'day in life' to enhance **productivity**

Save space and create effective **hybrid workplace** solutions

Test '**what if**' scenarios

Single source of **truth** from all datasets

Client Portfolio

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Testimonial – Vodafone

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SmartViz is helping Vodafone save **multi-million dollars** per annum. Additionally it has reduced over **30% of meeting spaces** and highlighted opportunities for significant improvement of productivity.

The analytics and insights provided by Buro Happold's platform has helped us not only streamline the data across our global portfolio of assets, it has also helped us expand our use of IoT sensors and data in boosting space utilisation and employee productivity.

Richard Muraszko
Group Property Strategy Manager, Vodafone

Insights:

30% meeting spaces can be saved. Better utilization by sizing rooms to suit demands.

Decisions:

1/3 people time exceeds desired CO2 limit. Higher productivity achievable through better environmental control.

Outcomes:

$40m
Savings

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Testimonial – University of Southampton
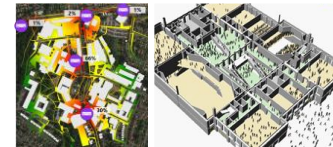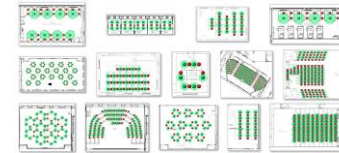

UNIVERSITY OF Southampton

// **SmartViz** Campus Analytics helped us manage one of the biggest challenges of the era – enabling us to optimise everything from teaching strategy to **timetabling**, room **booking** and cleaning, **transportation**, and **logistics**. The visual, interactive scenario planning by SmartViz helped us manage complex, conflicting priorities and reopen the campus successfully.

In the post-Covid world this pioneering platform should pave the way for all universities to optimise their estates and tackle the serious challenges with performance in terms of **space**, **energy** and **people**.

Kevin Monaghan
Executive Director of Estates and Facilities
University of Southampton

Insights:

350+ spaces for **13,200** seats reduced to 15% utilization for social distancing. Opportunity to optimize and boost efficiency.

Decisions:

Realtime interactive model helped **optimize** capacities, timetable, booking, signage to maximize student contact hours as well as health & wellbeing.

Outcomes:

22k+
students safely returned

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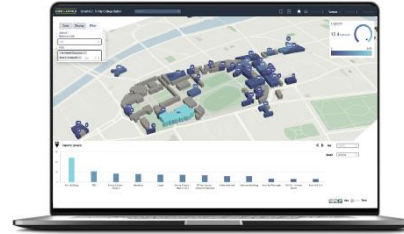# Testimonial – Trinity College Dublin

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SmartViz enable the Phased Reopening of the University in adherence to the Irish Government Guidelines on Covid 19 Virus Pandemic.

The study provided the University with a combination of person capacity within all teaching spaces, occupancy limits within the campuses, suggested signage and one-way systems required to facilitate the re-opening of the University to **students**, **researchers** and **staff**.

Mike Clark
Director of Campus Infrastructure
Trinity College Dublin

Lorraine Fay
Space Planning Manager
Trinity College Dublin

TRINITY COLLEGE DUBLIN

Insights:

300+ spaces for **12,400** seats reduced to 15% utilization for social distancing. Opportunity to optimize and boost efficiency.

Decisions:

Realtime interactive model helped **optimize** capacities, timetable, booking, signage to maximize student contact hours as well as health & wellbeing.

Outcomes:

16k+
students safely returned

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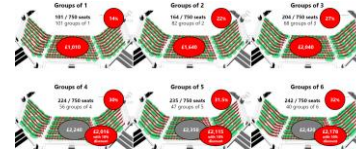# Testimonial – Barbican Centre

> **SmartViz** Cultural Venue Analytics provided the analytics, insights and predictive modelling which has given us peace of mind, and a scientific approach and verification to our planning, saving us time and giving our plans additional credibility and resilience."

Jonathon Poyner
Director of Operations and Buildings

"It was absolutely fantastic to be a part of the re-opening. I also deeply appreciate the work to ensure that both your staff and visitors are safe. Truly overwhelmed by the seamless nature of the operation, adaptations and changes that you have had to make to the space."

William Russell
The Rt Hon The Lord Mayor Alderman

Insights:

Capacity of this iconic venue reduced to 15% utilization for social distancing. Opportunity to optimize and boost efficiency.

Decisions:

Phased reopening with **optimized** capacities, timed ticketing, signage, etc to maximize throughputs as well as visitor health & wellbeing.

Outcomes:

50%
increase in ticket sales

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For further information

Further details from **SmartViz** website and **Azure Marketplace**.
Contact us below for a demo and quote.

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www.smart-viz.com