



## BIM Case Studies

We are a global provider of FM and building information modelling (BIM) software and services, including laser scanning, 3D modelling and CAFM integration. Below are outlines of how we have helped just a small selection of our clients in creating 3D models of existing buildings to increase the quality of information across their whole building lifecycle.

### Uppsala Kommuns Fastighets AB

SWG was commissioned to by the Uppsala Municipality to 3D scan the Gottsunda Shopping Centre. The solution provides Uppsala Kommuns Fastighets AB searchable, readable, scalable and measurable data in the form of 3D models and drawings. With all 3D laser scanning done with the Leica RTC 360 - currently the world's fastest 3D laser scanner - the project costs are kept down as the scanning is both accurate and very efficient. In order not to interfere with the operation of the mall's leased premises, model and drawing documents for these premises are generated via 3D modelling from existing drawings.

"SWG products and services are well developed and we believe that they are the right partners in this work. SWG's scanning of the Centre will, among other things, help us to build a digital twin, which is one of several steps we take to develop the properties", says Manne Johansson, technical manager at Uppsala Municipality's Real Estate Company.



## Benefits of BIM

- Increase the quality of information across the building lifecycle for design, build and operational stages
- Securely plan, manage and co-ordinate BIM data from any web browser
- Gain 3D BIM models of existing buildings through 3D laser scanning services
- View and update models without specialist IT or CAD knowledge
- Access information on assets for easy maintenance and FM planning
- Faster and more responsive FM services due to more accurate, detailed and accessible data

## Ports of Stockholm

In order to develop supporting documents that can be used in an improved and more cost-effective operation and management, Ports of Stockholm asked SWG to laser scan buildings and cargo docks as well as creating 3D models. Modelled components included interior walls, doors, windows, fixed furnishings, stairs, the docks and more. The assignment also included ensuring that the Port's buildings have correct and available decision-making documents for redevelopment and future renovations.



## NCC & Botkyrkabyggen

When housing construction under the 'Million Programme' was completed in the 1960s, there were major shortcomings in the management of documentation and information for operations and management. In connection with the fact that it is now relevant to implement renovation reconstruction and extension projects for these homes, previous mistakes should not be repeated.

Together with Botkyrkabyggen, NCC has a major renovation project underway where they will work with SWG to create an uninterrupted flow of information throughout the building's lifecycle to ensure that the information needed at every stage from design, production to operation and management becomes available and contributes to a more cost effective design building and management process.



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