

Amodal configured BCDE Portfolio to meet the needs of all contributors to the project.



## British Land unifies data for a GBP 4 billion mixed-use development

Bentley's BCDE  
Common Data  
Environment  
Ensures All  
Project Data is  
Accessible with  
Three Mouse  
Clicks

### Developing a new urban center in London

British Land is one of Europe's largest real estate investment companies, with a focus on delivering the best, most sustainable places for its customers and communities. At Canada Water, British Land has partnered with Southwark Council to create a new, GBP 4 billion town center for London. They have achieved a highly flexible planning consent that includes up to 3,000 new homes (including 35% affordable housing), circa 2 million square feet of workspace, and circa 1 million square feet of retail, leisure, entertainment, and community space.

Canada Water is expected to take 10 years to complete, and British Land wanted to collect another 15 years of operations data after completion. However, due to the size of the development, it generated a huge amount of data from the start. British Land needed a way to manage all documentation and ensure critical information would not become lost. Therefore, they contracted information management service provider Amodal to gather and organize project data, ensuring intuitive and future-proofed access across the building lifecycle.

## Improving decision-making with improved data access

To manage the data generated by such a massive project and help form a lasting, sustainable legacy, Amodal sought to enable digital workflows through improved data access. Working on behalf of British Land, they wanted all key information generated by the multiple components of Canada Water to be easily accessible, including design documents, risk registers, expense plans, and monthly reports. The goal was to have everything available to all users within three clicks of a mouse. Additionally, they wanted to establish audit trails that would ensure accountability, quality building design, and readily available information to stakeholders. Easy access to digital data would assist with decision-making and sustainability.

However, simply going digital would not be enough to manage the complex development. If digital documentation was stored in multiple, isolated silos, developers and stakeholders could potentially waste valuable time seeking out the location of specific information. As a result, the project could fall behind schedule and both risks and costs could increase. To succeed, Amodal's digitalization would need to incorporate all data into a single location.

### Establishing a common data environment

After examining various potential solutions, Amodal determined that Bentley's BCDE Portfolio could establish a common data environment that could support British Land's immediate needs and their digital vision for the future. Amodal used the application to develop a connected data environment (CDE) for the Canada Water project that could incorporate all documents, construction drawings, and related data, and provide total asset information management control. Since British Land was already using a different common data environment for the preliminary stages of the project, Amodal ran migration exercises and determined that they could easily transfer the data into BCDE Portfolio.

To ensure that BCDE Portfolio met the needs of everyone working on the project, Amodal set up workshops with all key stakeholders, from project managers to engineers, to ensure the implementation and rollout of the CDE met the needs of everyone involved. After gathering these wish lists, they proposed that a role-based interface be developed to ensure it was future-proof and user-friendly for the many teams using it across full building lifecycle. Contributors throughout the project began using BCDE Portfolio during the design phase to manage new developments, mandate deliverables from the project delivery supply chain, and keep capital delivery partners accountable for their work.

## Project Summary

### Organization

British Land

### Solution

Establishing a Common Data Environment

### Location

London, United Kingdom

### Project Objectives

- To improve data management for development of a massive mixed-use project.
- To enhance collaboration, government approvals, and sustainability.

### Products Used

BCDE Portfolio

### Fast Facts

- The GBP 4 billion Canada Water project includes up to 3,000 new homes, circa 2 million square feet of workspace, and circa 1 million square feet of retail, leisure, entertainment, and community space.
- Project developers wanted to establish a digital legacy for the project and incorporate data gathered over the next 30 years.
- Amodal, an information management service provider, used BCDE Portfolio to create a common data environment and eliminate data silos.

### ROI

- Amodal configured BCDE Portfolio to meet the needs of all contributors to the project.
- Data transparency has improved obtaining approval from government agencies, helping safely and securely share information with third parties such as public utilities.
- Eliminating the need to email contributors copies of project information reduces carbon dioxide emissions by an estimated 153 kilograms per person.

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Image courtesy of British Land

*As well as proactively managing new developments, BCDE Portfolio helps us mandate deliverables from the project delivery supply chain and hold capital delivery partners to account for the delivered asset and associated information for downstream management.*

**- Tom Whiting,**  
Managing Director, Amodal

### Improving oversight and reducing energy usage

Though British Land's CDE has just begun what is expected to be a 30-year lifespan including Canada Water's operations after completion, it is already delivering benefits to the project. British Land team members can now easily access information and surveys that were gathered years ago, when the project was in its early conceptual phases. Previously, this information was stored in old email chains or free cloud storage systems such as Dropbox, which were time-consuming to search

through. Amodal's common data environment also makes the sharing of information between multiple project components more efficient and has improved oversight via reporting that encompasses the entire master plan.

The transparency provided by the common data environment has proven key to obtaining approval from government agencies, helping them safely and securely share information with third parties, such as public utilities. Since the CDE is aligned with BIM standards and enforces information standards including document naming conventions, British Land ensures consistency of information throughout, reducing delays and mitigating risks. Additionally, the common data environment helps British Land meet their goal of sustainable development. By preventing the need for sending and storing multiple versions of the same file, they reduce their data center use, and in turn lower electricity use. Amodal estimated the carbon savings from not having to email contributors copies of all information about a project component could reach 153kilograms per person.

EPC<sup>World</sup>

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