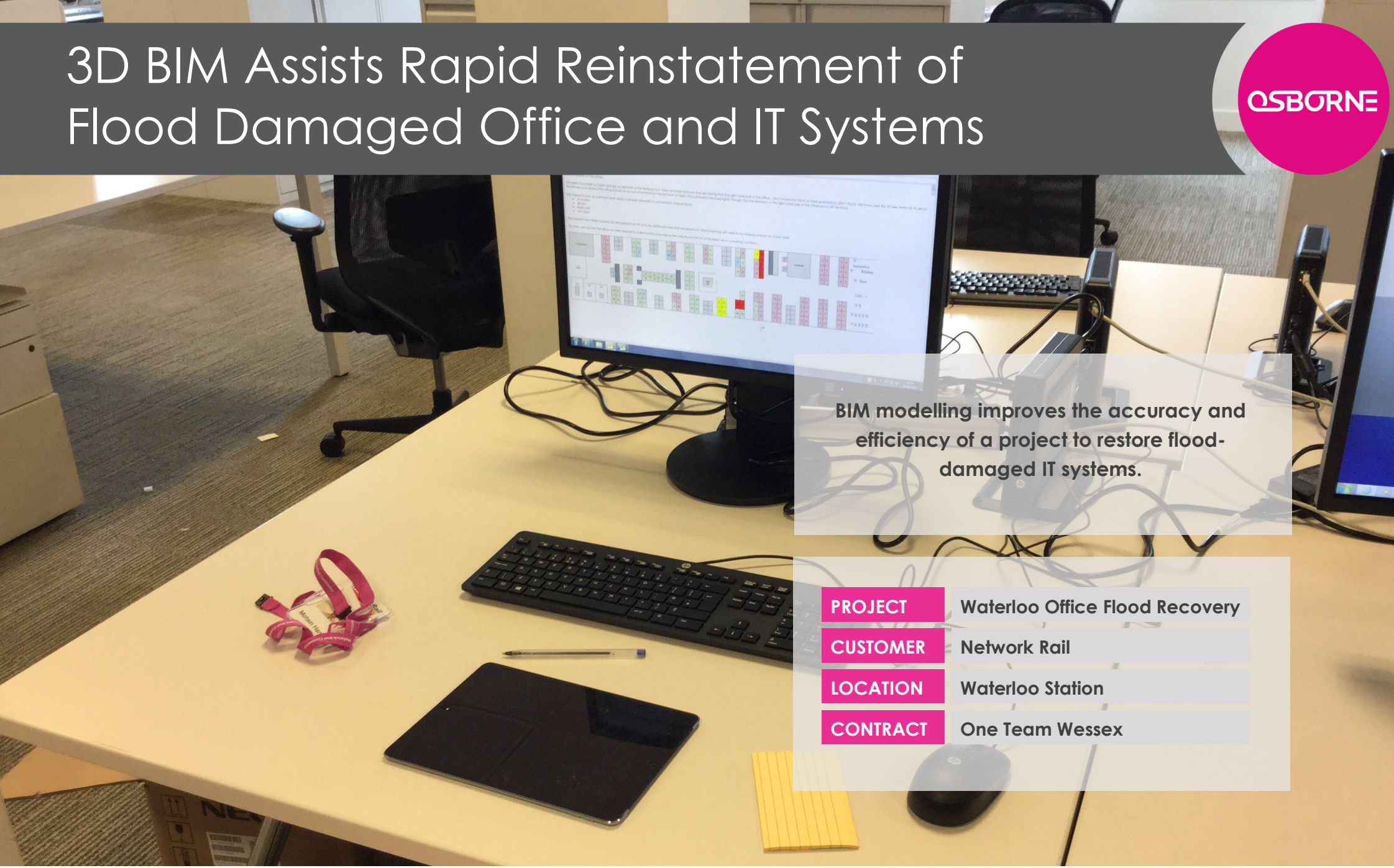
3D BIM Assists Rapid Reinstatement of Flood Damaged Office and IT Systems



BIM modelling improves the accuracy and efficiency of a project to restore flood-damaged IT systems.

PROJECT	Waterloo Office Flood Recovery
CUSTOMER	Network Rail
LOCATION	Waterloo Station
CONTRACT	One Team Wessex

Issue

The Waterloo General Offices belonging to Network Rail and used by One Team Wessex (a collaborative team between Network Rail, Geoffrey Osborne Ltd and Arcadies) suffered severe flood damage. Water leaked from the ceiling and damaged the majority of the IT Equipment.

The facility had to be reinstated as quickly as possible to support project activities.

Solution

A 3D BIM model had previously been created for this office in order to capture the data output of an office move. The same model was used to hold the information captured from the reconstruction and IT set up of the office after the flood.

The model was created in Google-Sketch up. Each desk was colour coded to indicate who it belonged to and what type of equipment it required.

Two iPads were provided for the users on site. QA checklists were set up and attached to each desk element within the model to ensure the correct IT set up.

The model was used to visualise the office. This helped coordinate work with the other companies ensuring the correct arrangement of the desks was achieved.

As works were being carried out and our IT equipment was being set up, each checklist was filled out. Photos and issues were used to record any problems that needed solving at a later date by external companies, for example lack of power or monitors not being installed.

Outcome

The flooding occurred on June 23, 2016. On July 11 the office was repaired and ready for the setup of desks and IT equipment. A complete 3D model with all the data attached was saved at the end of the project. This model will be retained to add more information should the office need any more work in the future.