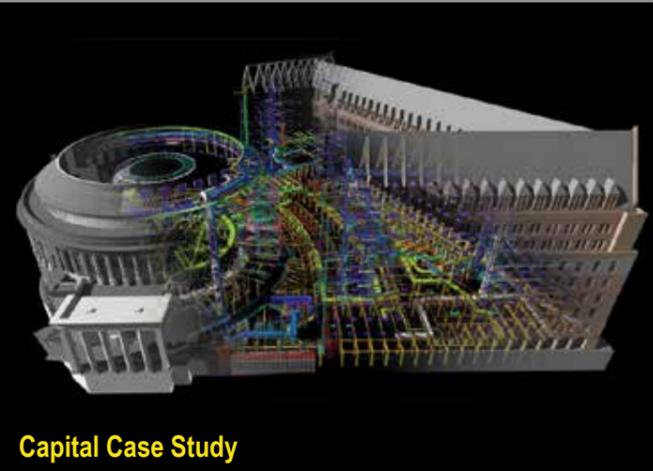


BIM CASE STUDY



Capital Case Study

THE GLAZED LINK (Manchester Town Hall Complex)

Summary:

With its steel and glass technology, Waagner-Biro is at the heart of bold architectural visions, impressive contemporary architecture and the creation of widely acclaimed landmarks.

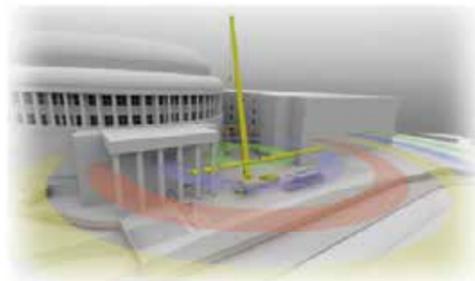
The Glazed link embraces this philosophy and the design has been developed using BIM technologies and has promoted positive engagement with MCC, has aligned the design, quantities and commercial model enabling collaborative involvement of conservation and heritage designers.

Waagner-Biro are also using BIM to manufacture key elements of the design and they are using BIM for the programming and sequencing of the on-site works including crane position, unloading material, crane usage, temporary structure, access, planning and ultimately cleaning repairs & maintenance.

Aims & Objectives:

The Glazed Link BIM was vital to give the full team appreciation of a very;

- An Innovative design
- Coordination during development concept and construction phases
- Phasing / Sequencing & logistics organised using BIM
- Design, quantities & commercial model all developed using BIM
- Direct to manufacture on key elements
- Used to give the operational team an understanding of a unique design / structure
- Vital to give the full team understanding of complex building



Project Overview

Project Value

£4m

Contractor

Laing O'Rourke
Waagner-Biro

Client

Manchester City Council

Architect

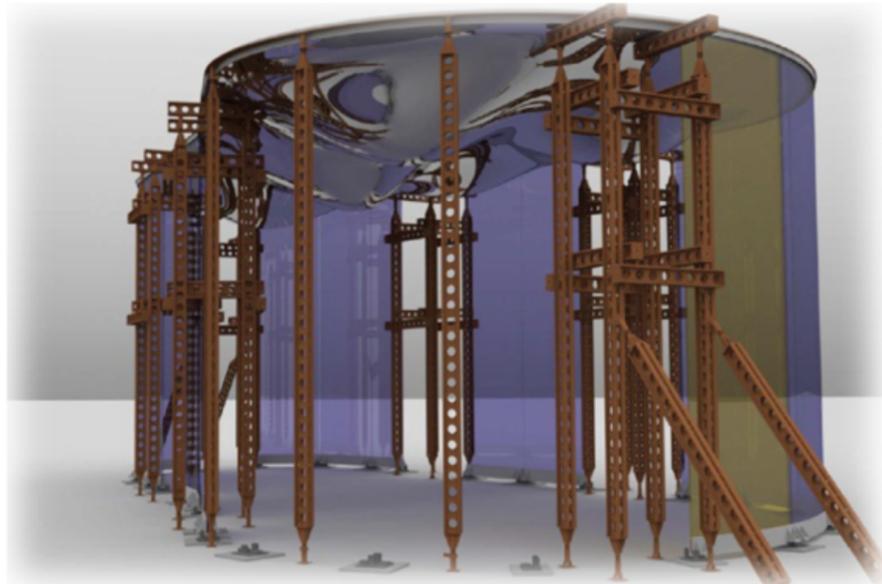
Ian Simpson Architecture

Start

April 2014

Completion

2014



Benefits & Value:

BIM has enabled MCC develop a very impressive contemporary design which will add considerable value and quality to the City Centre of Manchester.

Using BIM has enabled the design development and commercial model to be completely aligned and developed 'as one'.

60% reduction in estimation times

Impact assessment on change is fully coordinated regarding quality and time implications.

Robust cost impacts are predicted during the problem solving phase.

Waagner-Biro are proposing to use BIM for the programming and sequencing of works on site.

Quote: S. Williamson, Manchester City Council Commercial Manager

"Cost estimating and cost control is yet another aspect of the building process which has benefit from Building Information Modelling (BIM). By using BIM instead of a more traditional approach to estimating and cost control, measurements have been generated directly from the underlying model, therefore the information is always consistent with the design. When a change is made in the design the change has an automatic ripple to all related construction documentation and schedules, as well as the take offs, counts and measurements that are used by the estimator."