

1. The Partnership

Digital applications in construction to support project co-ordination:  
A case study of implementing a roof top plant replacement



A truly co-designed and co-delivered offer to upskill and reskill within modern methods of construction



- KITEMARK BS EN ISO 19650 FOR BIM DELIVERY
- GOVERNMENT MANDATED BIM LEVEL 2 IN APRIL 2016 AS PART 'DIGITAL BUILT BRITAIN'
- TARGET FOR BIM LEVEL 3 BY 2025



- BIM COST CIRCA 2.5% OF CONSTRUCTION COST
- BIM SAVINGS ESTIMATED 15-20% OF CONSTRUCTION COST



**BIM = BULDING INFORMATION MODELLING | ○ VIRTUAL CONSTRUCTION ○ TWIN MODELLING ○ DIGITAL ENGINEERING**

ESTABLISHED  
**2015**

**34**  
EMPLOYEES

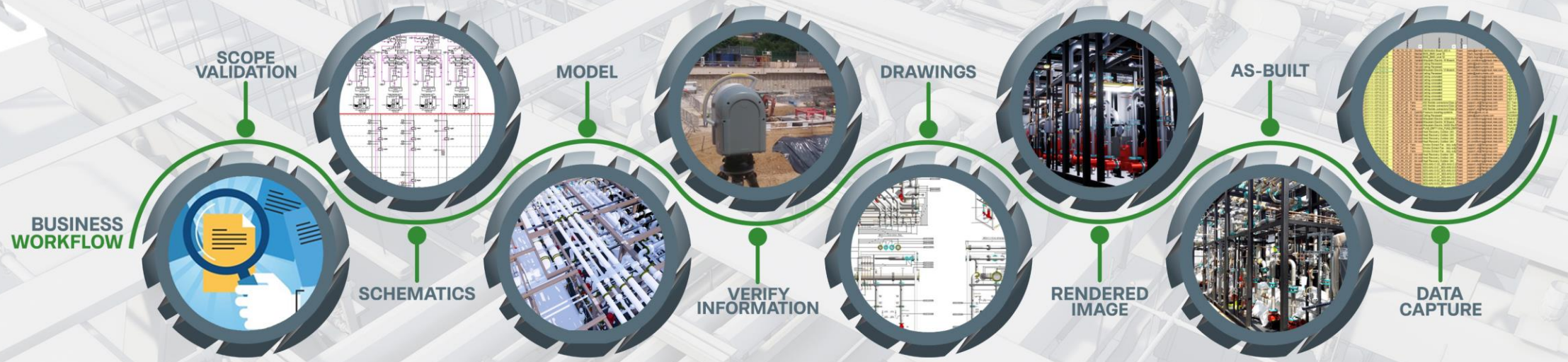
**3**  
OFFICES

- MANCHESTER (HEAD)
- GLASGOW
- HUNGARY

SUPPORTING  
**£120,000,000**  
OF PROJECTS  
PER ANNUM

**NATIONWIDE  
PROJECTS**

**BIMTech**  
ENGINEERING  
TRAINING PROGRAM



**52 LIME STREET**



**HINKLEY POWER**



**FUTURE PRISONS**



**F1 TEST FACILITY**



## 2. The Offer

# Digital applications in construction to support project co-ordination: A case study of implementing a roof top plant replacement

**UCEN**  
MANCHESTER  
FIND YOUR FUTURE



**BIMTech**  
ENGINEERING

**PIGSCANFLY**

**UCEN**  
MANCHESTER  
FIND YOUR FUTURE



The  
Manchester  
College  
be amazing

### Virtual Delivery:

- BIM purpose and benefits
- BIMTech Case Study
- BIM and ISO 19650
- Project Lifecycle and Data Handling

### On Site and Practical Delivery:

- Drone Regulation and Theory
- Drone Flight Practical
- Introduction to scanning (case study)

### On Site Theory and Digital Workshop:

- BIM software for designers
- Software and data handling
- Revit Modelling

### 3. The Students

## STUDENTS FOR COHORT 1: UPSKILLING AND RESKILLING



**Cohort 1: 15<sup>th</sup> Feb – 8<sup>th</sup> March 2023**

18 enrolments: UCEN and TMC staff, T-Level students and BIMTech employees

Cohort 2: April-May 2023 (T-Level students) ; Cohort 3: June-July 2023 (UCEN Manchester students)