



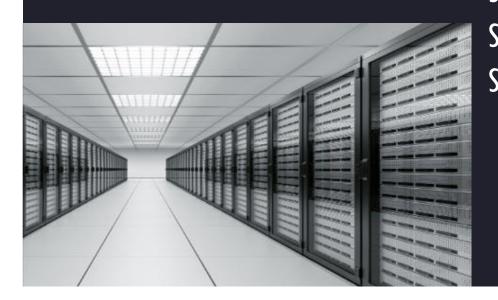






#### Strategic BIM Management

#### Content





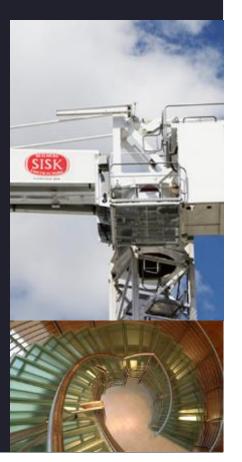
Section 2: Our Vision & Objectives

Section 3: Strategic Plan

Section 4: Strategic Project Delivery

Section 5: Q&A













## **Company Introduction**

- Established in 1859
- Market leading contractor in Ireland for over 50years & One
   of the largest Construction Groups in the UK
- 5th generation family business
- Strong culture of safety and delivery on quality
- Annual £1bn turnover
- BRE BIM Level 2 Business System certified











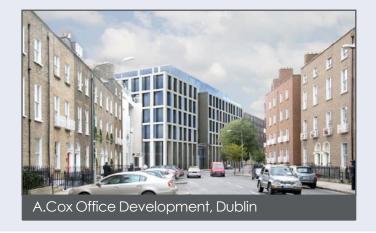
## **Experience of BIM**

















# Our Vision

To be the Best at Creating Value for our Customers, Shareholders and Our People









Royal Academy of Arts











**ARTHUR COX** 









































### **BIM Vision for our Business**

- BIM is embedded into our standard delivery process.
- We recognise that there are additional roles and responsibilities when delivering a BIM project.
- We have phased upskilling to facilitate the adoption of these roles & responsibilities by our staff.
- Ultimate aim is to have all staff BIM capable







## Our Plan Objectives

- Clarify how a BIM process will be used on each projects
- Align project BIM requirements to the business goals
- Utilise relevant cutting edge technology as part of our project delivery
- To recognise the opportunities a BIM process can bring to project delivery













# Strategic AWARENESS Plan

We provide our Customers, Shareholders and Our People BIM Education & Awareness

**PROMOTE** 

We promote the use of BIM both internally and externally

**DEVELOP** 

We develop our business, through our people and project experience





## Strategic COLLOBRATION

We work with Clients, Design Teams,
Sub-contractor and Suppliers in a
collaborative environment

INNOVATION

We utilise relevant cutting edge technology as part of our project delivery

**EXCELLENCE** 

Be the very best at what we do.

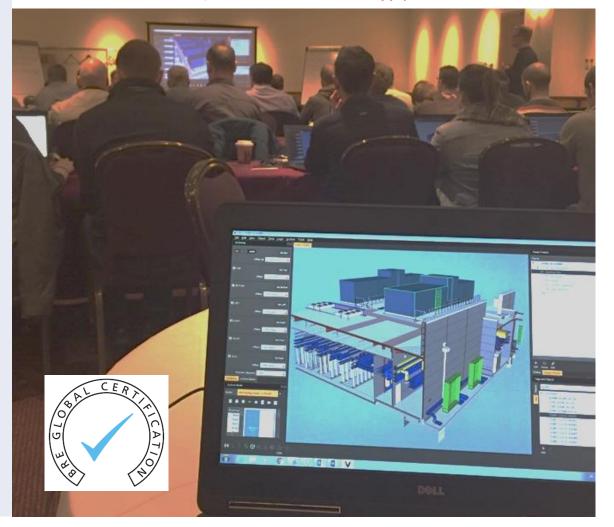




## **AWARENESS**

- BIM Assessment across our business and our supply chain
- Provide BIM Education & Awareness through online learning, in house course's and external support
- Track and develop our Training programme
- Develop case studies for our business and public awareness

Over 600 Staff provided with online BIM Awareness training and training delivered across our supply chain







## **PROMOTE**

- Promote the use of BIM both internally and externally
- Actively involved in industry organisations
- Develop guidance documents and website's
- Present at third level education across IRE & UK
- Share our BIM experience across industry







## **DEVELOP**

- Engage with leaders across different sectors
- Open mind to advice and industry experience
- Work with industry leaders and experts
- Develop guidance documents and procedures
- Develop skills in house and capture lessons
   learnt













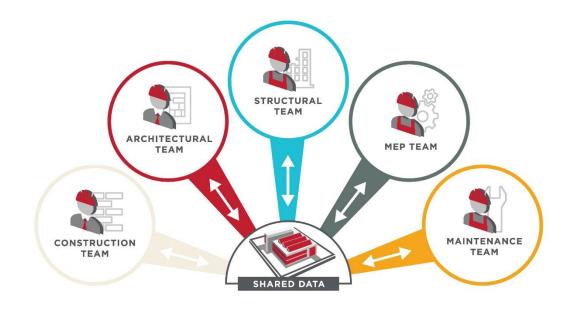






## COLLABRATION

- Work with Clients, Design Teams, Sub-contractor and Suppliers in a collaborative environment
- One single source of project information
- Online collaborative environment for coordination
- Agree project deliverable and dates
- Clear message across project team







## INNOVATION

- Utilise relevant cutting edge technology as part of our project delivery
- Listen to feed back from our projects
- Research the best solutions available to deliver our project's
- Deliver Innovation to maximise our time and minimise rework



On-site BIM Hub







Aerial Drone Footage





## INNOVATION

**Irelands First** VR interactive 4D Construction Sequence



#### Come visit our stand and Check it out







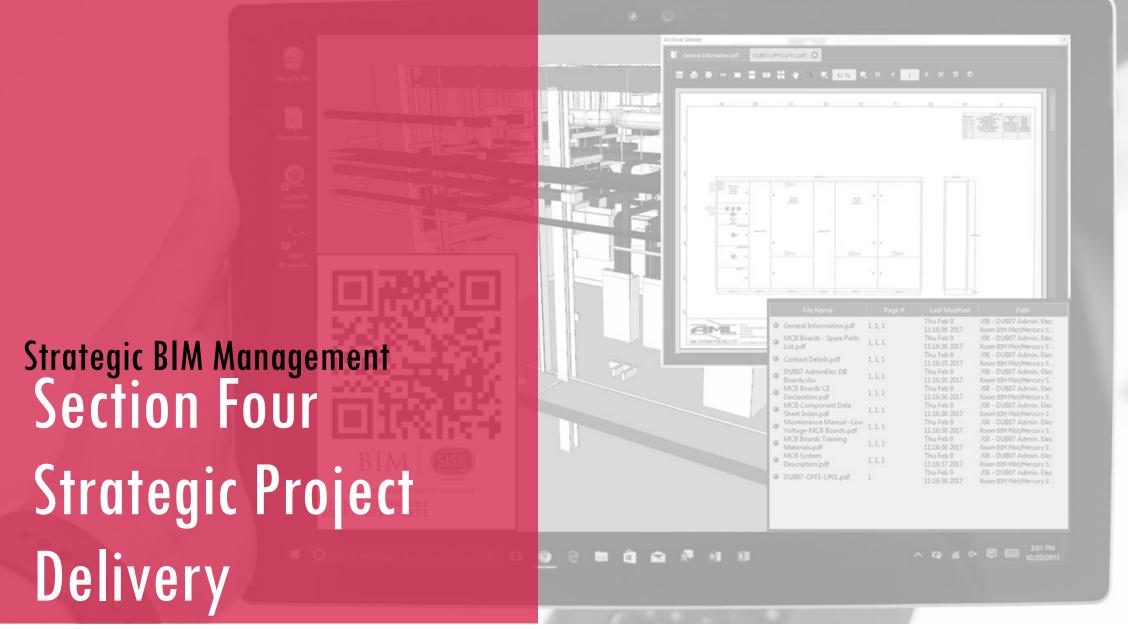
## **EXCELLENCE**

- Achieve & maintain BRE global BIM Level 2 business systems certification
- Consistency and Quality across our business
- Outstanding project delivery
- Repeat business with our clients
- Be the very best at what we do













## Strategic Project Delivery

## **BIM Strategy**

- Initial BIM Workshop with Client
- "Begin with the End in mind"
- Employer information Requirement's (EIR)
- Asset information Requirements (AIR)

#### **BIM Resources**

- Initial BIM Workshop with Project Team
- BIM Assessment across project Team
- BIM Execution Plan (BEP)
- Responsibility Matrix

#### **BIM Process**

- Set up Common Data Environment (CDE)
- Test and agree Software proposed
- Agree BIM process and workflows
- Develop a sample of a complete package for project delivery





Strategic BIM Management > Section Four

### **CERC, UHL BIM Requirements**

- Design and Construction information to BIM Level 2
- Reduce on site changes, Early identification of issues
- Improve construction team's project understanding
- Improve site coordination
- Improve project planning and work sequencing
- Provide 'Data Rich' as built model
- Project Information Manager/ BIM Coordinator
- Construction Stage BIM Execution Plan (BEP)
- Common Data Environment







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#### CERC, UHL BIM Deliverables

- BIM Level 2 Project delivered
- 50% Reduction in changes on site compared to projects of similar scale & complexity "Coady Architects"
- 'Data Rich' as built (AIM) Asset information model provided using Zutec

"BIM is the way forward for managing construction projects. It contributes to managing programme, cost and quality and I would therefore recommend that it is used on future HSE construction projects."

Zita Pearce, Project Manager, HSE







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## Multinational Data centre campus, Grange castle, Dublin

#### **Project Objectives**

- 3-D Excellence
  - Design
  - Construction
  - As Builts
- 4-D Safety, Logistics & Schedule

#### International pilot BIM project for our client

Whole Life Cycle Asset Management







### **Project BIM Value**

- Collaboration Early Problem Solving
- Visualization Improved Design & Constructability
   Reviews
- Coordination of Elements CSA / MEP Interfaces
- Clash Detection Eliminating Clashes Early
- RFIs Reduced Numbers
- Safety, Quality & Schedule Wins 4-D Visualizations
- Waste Reduction Supports Lean Construction







## **Project BIM Value**

48 % Decrease in Overall RFI'S

"We are very satisfied with the successfully delivery of BIM on this Pilot Project scheme to date. We are seeing real benefits to delivery of the Construction Project with reduced queries due to better collaboration all round. This collaborative working environment is a process we will utilise in future Construction Projects."

Data Centre Construction and Delivery Multinational Cloud Infrastructure and Operations







#### Section Four

## **Director for BIM**



South, West & North Frank Quirk BE, MIEI Managing Director

"when the BIM strategy is part of our contract - we will satisfy and deliver the requirements."

"When the strategy is not prescribed; we will utilise BIM to provide us with a set of tools to enhance how we conduct our business".











