



# BIM in Public Works Contract for Minor Building and Engineering Works Designed by The Employer

CitA Regional Event – Webinar – 02<sup>nd</sup> April 2020

ABOUT CONACK CONSTRUCTION LTD

PROJECT INFORMATION:

CLIENT

PROJECT DESCRIPTION

PROJECT TEAM

CONTRACT CONDITIONS - STANDARD CONTENTS

BIM MANAGEMENT & CO-OPERATION

OBSERVATIONS

Q&A

## ABOUT CONACK:

Founded by Tom O'Connor & Kieran Cusack, CONACK Construction Ltd is a leading building and civil engineering contractor with a long established reputation for delivering quality projects throughout Ireland.

## OFFICE:

Head Office Limerick

Regional Office: Cork and Dublin

**ISO 9001:2015**

Quality Management System

**ISO 14001:2018**Environmental Management Stage 1 Completed  
With Certification Europe 02/2020**ISO 45001:2018**Occupational & Health Safety Management Stage 1  
Completed With Certification Europe 02/2020**BIM ISO 19650**

Stage 1 Confirmed



## SECTORS:

Healthcare, Commercial, Industrial, Educational, Residential and Civil Engineering Sectors.

## VISION:

At CONACK, we work very closely with our clients and their design teams to ensure customer satisfaction is achieved.

### CLIENTS:



CLIENT:



*“Teagasc – the Agriculture and Food Development Authority – is the national body providing integrated research, advisory and training services to the agriculture and food industry and rural communities.” (Teagasc 2017)*



# PROJECT INFORMATION Cont.

## PROJECT NAME & LOCATION:

Food Innovation Hub, Teagasc Moorepark Campus, Fermoy, Co. Cork

## PROJECT DESCRIPTION:

*“A 3,000m<sup>2</sup> development in the form of a new three-storey, Food Innovation Hub and expansion of Teagasc Moorepark, Fermoy, Co. Cork.*

*The facility will provide office accommodation, business incubation suites, application suites, laboratories, and cafeteria.*

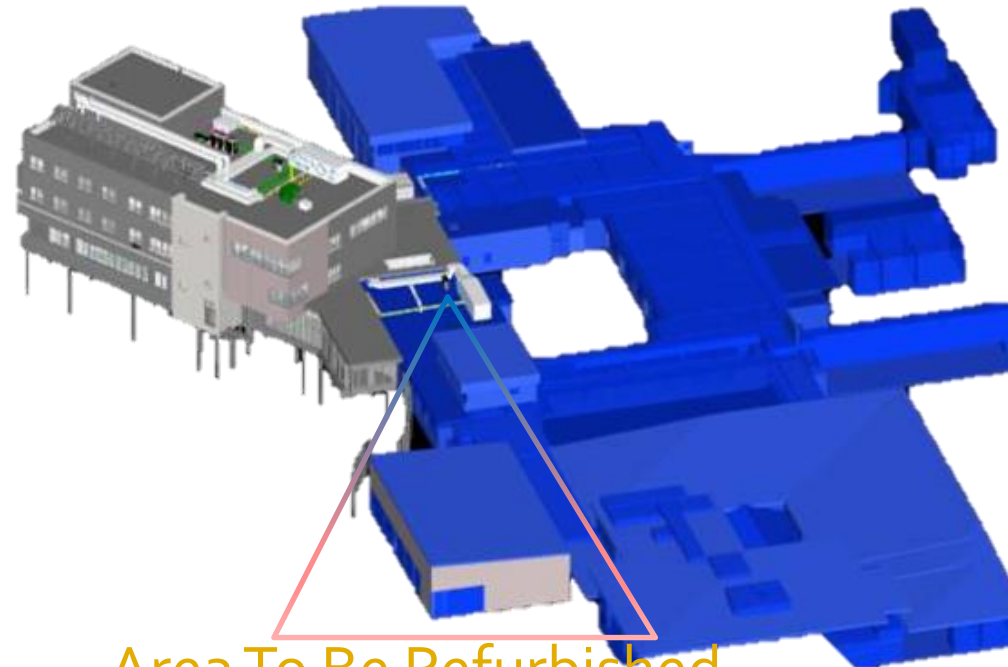
*The new development will accommodate industry and clients in R&D programmes, within dedicated office and laboratory units - integrating same, and utilising the current facilities, into the world class Teagasc Research Moorepark Centre - and facilitating development & education between industry & research, to advance new research & product innovation, economic growth, and job creation.”*



## PROJECT DESCRIPTION Cont.:

*"This investment follows a recent expansion by Teagasc and the dairy industry, in the recently completed Moorepark Technology Ltd. (MTL) Food Research & Development Pilot Plant Facility on the campus - also designed and delivered by C.J. Falconer & Associates Architects."*  
(CJFA 2020)

Proposed Building



In Blue The Existing Building

Area To Be Refurbished

## CONTRACT / DELIVERY TYPE

“Public Works Contract for Minor Building and Civil Engineering Works Designed by The Employer”.

## PROJECT STAGES

Planning

Tender

Construction

As Built

## APPROXIMATE SITE AREA

3.61 (Hectares)

# PROJECT INFORMATION Cont.

## DESIGN TEAM:

C.J. Falconer & Associates Architects (Architects, Project Managers)

Malone O'Regan Consulting Engineers (Civil & Structural Engineers)

Douglas Carroll Consulting Engineers (Mechanical & Electrical Engineers)

MacMinn O'Reilly Mahon (Quantity Surveyors)

## MAIN CONTRACTOR:

CONACK Construction Ltd

## M&E SUBCONTRACTOR:

T Bourke

## CGIs Generated from BIM Model



Courtesy of C.J. Falconer & Associates Architects



## CGIs Generated from BIM Model



Courtesy of C.J. Falconer & Associates Architects

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Courtesy of C.J. Falconer & Associates Architects



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Courtesy of C.J. Falconer & Associates Architects

# PROJECT INFORMATION Cont.

## CONTRACT CONDITIONS: STANDARD CONTENTS



PUBLIC WORKS CONTRACT FOR MINOR WORKS

### **CONDITIONS Contents**

1. *THE CONTRACT*
2. *THE LAW*
3. *LOSS, DAMAGE AND INJURY*
4. *MANAGEMENT*
5. *CONTRACTOR'S PERSONNEL*
6. *PROPERTY*
7. *THE SITE*
8. *QUALITY, TESTING AND DEFECTS*
9. *TIME AND COMPLETION*
10. *CLAIMS AND ADJUSTMENTS*
11. *PAYMENT*
12. *TERMINATION*
13. *DISPUTES*
- PV1. PRICE VARIATIONS*

Office of Government Procurement (2019). *Public Works Contract for MINOR BUILDING and CIVIL ENGINEERING WORKS designed by THE EMPLOYER*. Dublin 2: Office of Government Procurement . PW-CF5 v.2.4 5 June 2019, Front Page.

# PROJECT INFORMATION Cont.

## CONDITIONS: MANAGEMENT => CO-OPERATION

### PUBLIC WORKS CONTRACT FOR MINOR WORKS

#### 4 MANAGEMENT

##### 4.1 Co-operation

- 4.1.1 The Employer [subject to restraints as a public authority] and the Contractor shall support reciprocal co-operation for the Contract purposes, including co-operation with and between Contractor's Personnel and Employer's Personnel.
- 4.1.2 Such support may be relevant particularly to any of the following:
- (1) negotiation of agreements provided for in the Contract
  - (2) use of most effective and compatible electronic and other methods of communicating and recording
  - (3) efficient order and timing of information provided for in the Contract
  - (4) minimising the effects of suspension
  - (5) efforts by the Contractor to minimise delay and Compensation Events and their effects
  - (6) Contractor's flexible management
- 4.1.3 Either Party, or the Employer's Representative, may request clarifications, consultations, workshops, exchange of information and expertise, or investigations, although not provided for elsewhere in the Contract. The request shall specify purposes and, as relevant, proposed participants, arrangements, methods and any proposals for recording or agreeing results.
- 4.1.4 The Parties may agree to consult or communicate, without prejudice. In any case, offering or giving co-operation does not imply any admission of any responsibility or alter either Party's rights or duties unless otherwise agreed in writing.

- *Employer's Information Requirements (EIR)*
- *BIM Execution Plan (BEP)*
- *Responsibility Matrix*
  - *Level of Detail (LoD) + Level of Information (LoI) = Level of Model Definition (LoMD)*
- *Task Information Delivery Plan (TIDP)*
- *Master Information Delivery Plan (MIDP)*
- *Clash Retention*
- *Common Data Environment*

## Digital Roadmap 2021 Construction Sector

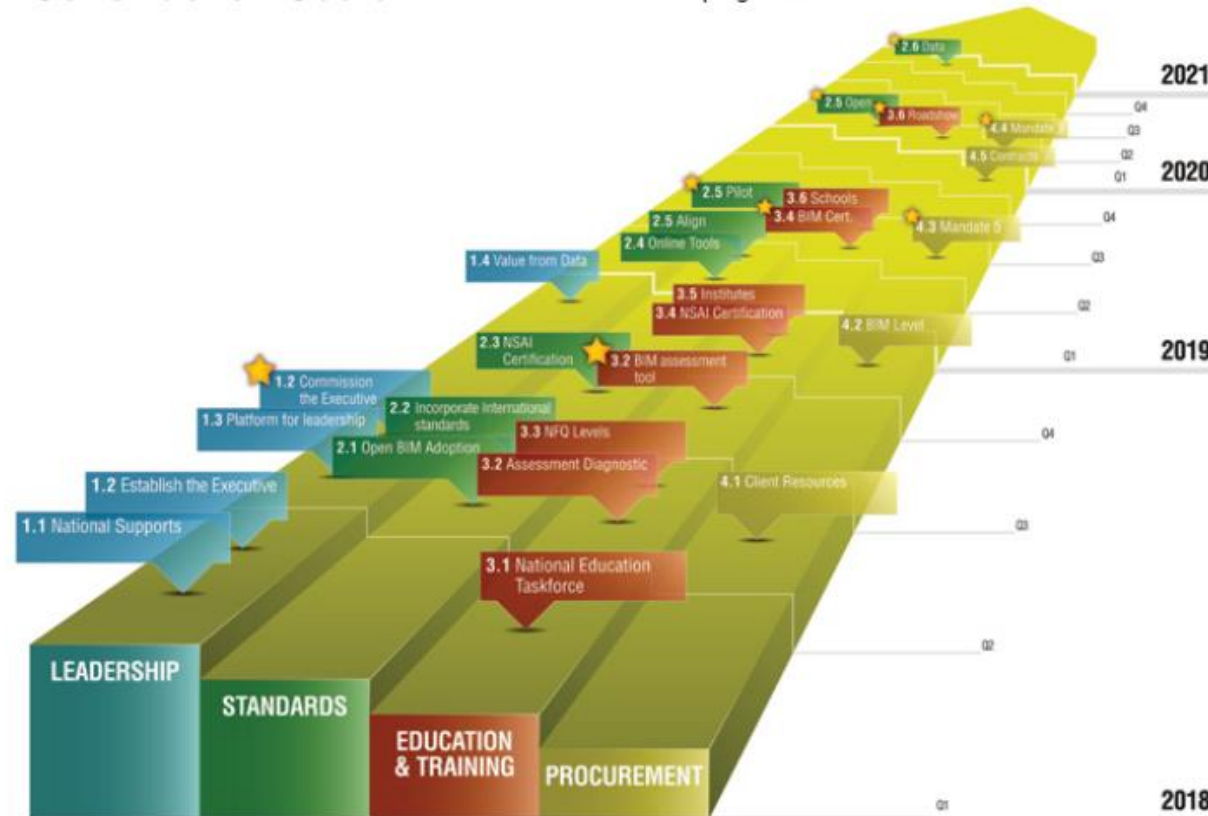


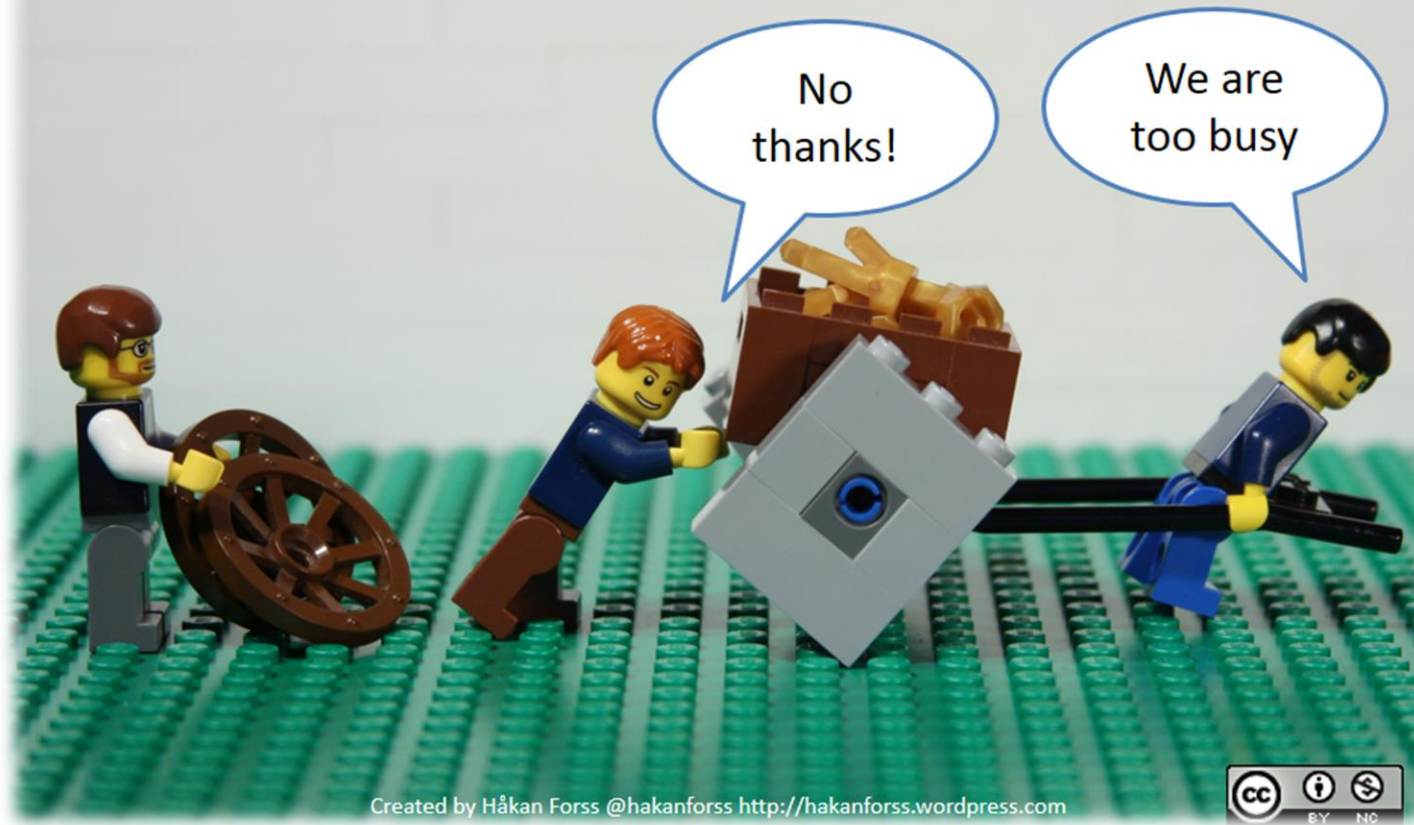
FIGURE 1. NBC ROADMAP TO 2021



*“Technology is anything that wasn’t around when you were born.”*

(Alan Curtis Kay, Computer Scientist)

Are you too busy to improve?





*Questions can be answered after all the presentations if required*