



# CitA | **TECHLIVE** 2022

Challenge, Change, Learn

## Welcome to TechLive 2022

by CitA, Ireland's premier  
multidisciplinary construction  
network.

# Stephen Foley

Head of Bid Department  
Collen Construction

Title

Digitisation of Bid Risk  
Management in the Irish  
Construction Industry



Lunchtime Webinars

15th - 16th June

In-Person, the Gibson Hotel, Dublin

17th June

**CITA** | **TECHLIVE**  
2022 Challenge, Change, Learn





1. Introduction
2. Current Risks
3. Benefits of Digitisation
4. Specific Risk Digitisation-Ground
5. Approach to Digitisation of Risk
6. Digital Risk Management Wish List
7. Summary
8. AOB



## 1. Introduction

### Risk Management In the Irish Construction Industry

- Safety
- Operational
- Commercial
- Supply Chain & Labour
- Data Complexity
- Contracts & Legal
- Design
- Liability
- Stakeholders
- Statutory





## 2. Current Risks- What's worrying us?





### 3. Benefits of Risk Digitization





## 4. Specific Risk Digital Tools –Ground Risk

Site Investigation Reports & Dwgs

Dewatering Strategy

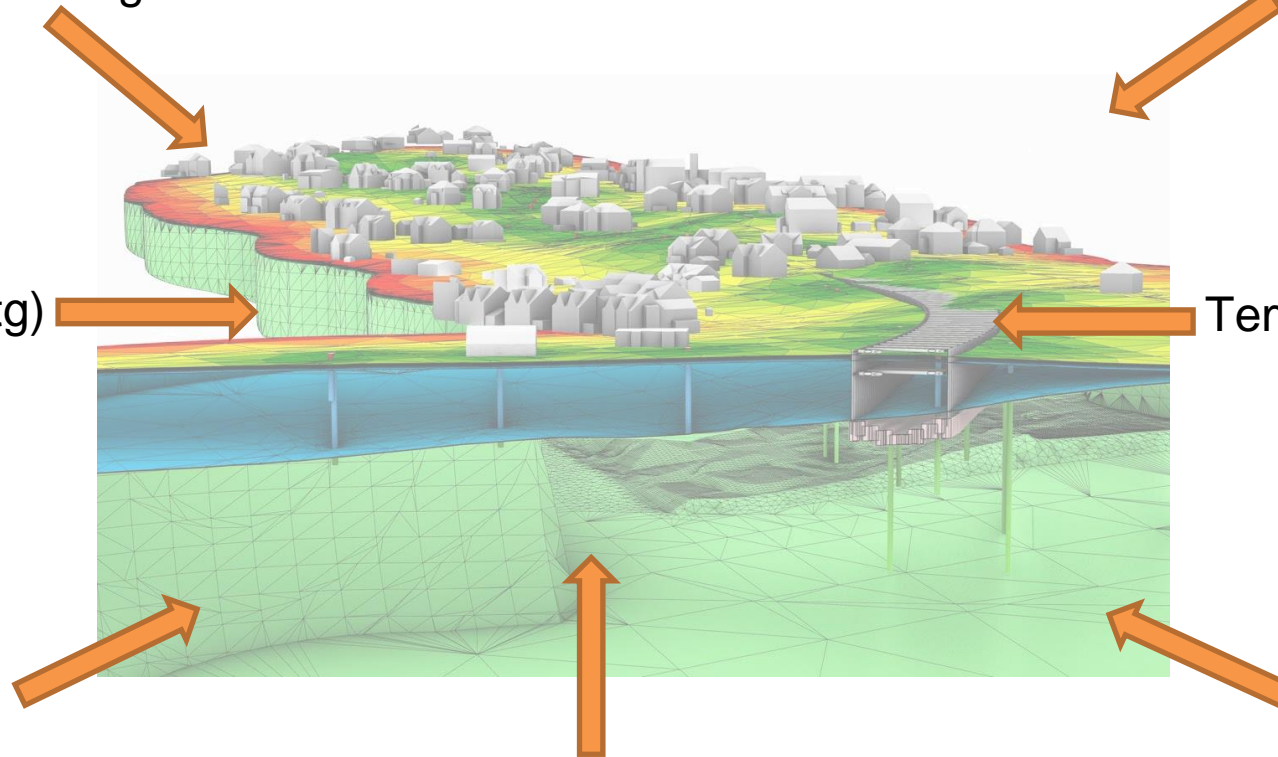
BIM Models (Design & Extg)

Temporary works Design

Underground Scans

Utilities data

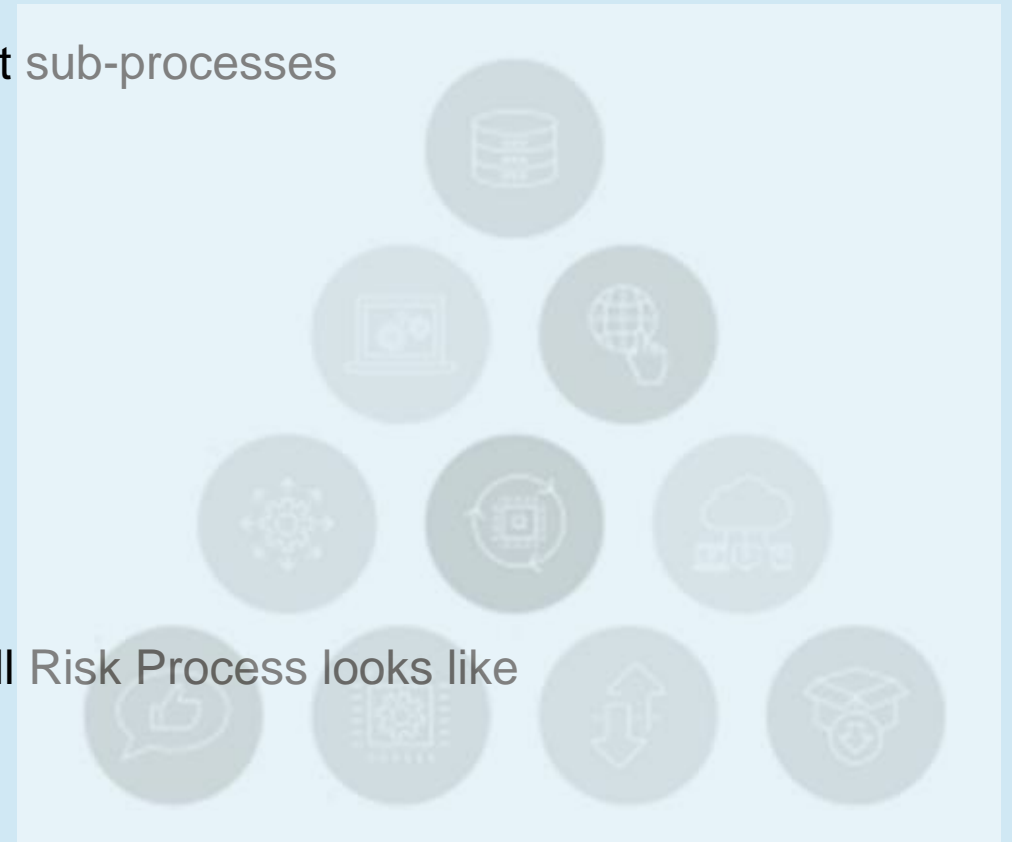
Water Table





## 5. Approach to Digitization of Risk Management

- The risk management process is made up of many different sub-processes
- Start by analysing each in the form of a Gap Analysis
  - Review where the process currently stands
  - Consider the ideal state
  - Note the gaps between each
  - Analyse the digital means to fill the gaps
  - Review the impact (resources/ training/ tools/ costs)
- Categorise the sub-processes and map out what the overall Risk Process looks like
- Consider the data outputs from each
- Develop Risk KPI's
- Draft a Risk Dashboard







## 6. Digital Risk Management Wish List (From a Preconstruction Perspective)

- Defined Data inputs
- Data Analytics tools
- Library of Specific risk and mitigations
- Requirements management
- Defined Risk Categories/ Tolerance/ residual risk
- Mitigation monitoring
- Risk Assessment Toolbox
- Mid and High-Level Decision Making stage gates
- Live Project Risk Data input
- Dash Boards Reporting
- On Demand Risk Report Generation





## 7. Summary

- Risk Management can vary greatly from business to business (Construction)
- A digital solution has to meet the needs of each business
- When an Industry-specific tool is introduced it needs to be customisable
- A risk management platform will need to be able to accommodate multiple data inputs
- The objective of any such tool should be to systemise and improve the risk process
- The tool needs to have a collaborative functionality and an overall owner
- The tool needs to facilitate decision-making whilst reducing the associated complexity



## Platinum Sponsors

**ARUP**



**SOLIBRI**  
A NEMETSCHKE COMPANY

## Gold Sponsors





**Thank you for  
your participation**