











AR & VR in Construction Content



Section 2: VRAI

Section 3: Microsoft

Section 4: Sisk

Section 5: DAQRI

Section 6: Q&A





















BIM Regions

Purpose of BIM regions...

The BIM Regions are a collaboration of specialist interest groups who will champion BIM in their respective specialist areas. Their purpose is to raise awareness of BIM, promoting a shared understanding of the value proposition and issues affecting the implementation of BIM in their respective areas of interests.

The BIM Regions will seek to develop consistency of messaging in a clear and concise manner to support both new and existing professionals in their respective BIM journeys.











Section One

BIM Regions Website

https://www.bimregions.ie/







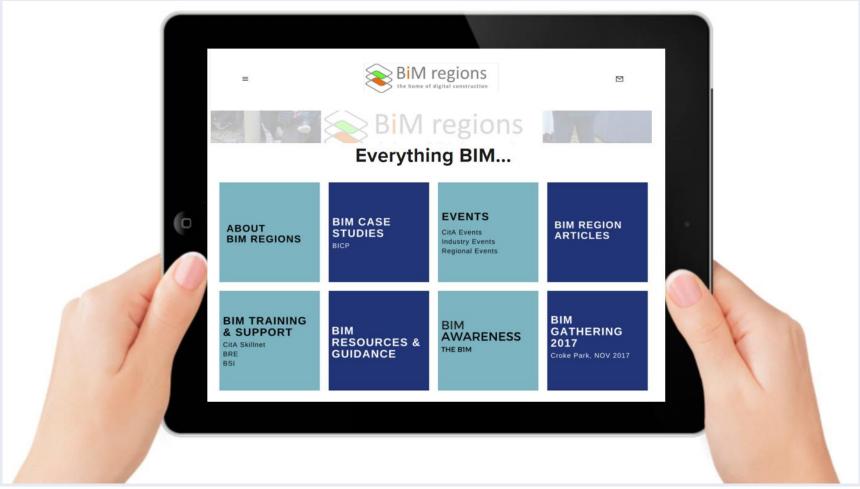






BIM Regions Website

https://www.bimregions.ie/



























AR & VR in Construction
Section Four
Sisk 4D VR
The Curragh Racecourse



Established 1859













Our Vision

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











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



On-site BIM Hub







Aerial Drone Footage



rework





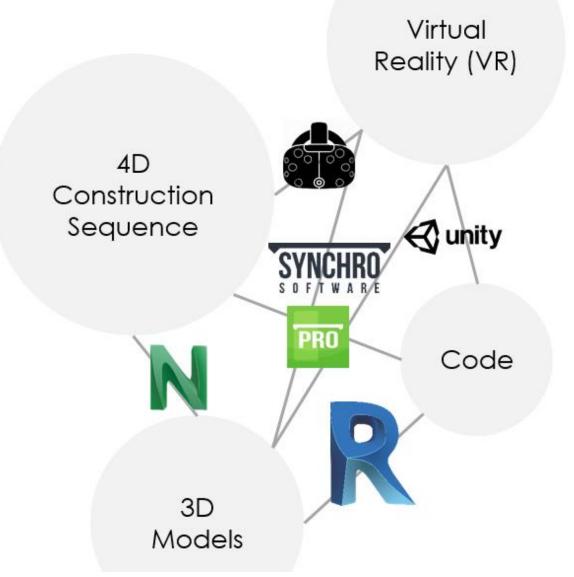




Section Four

4D VR BIM

The Oculus Rift Headset allows us to view 4D
 Construction sequence "Synchro model" of The
 Curragh Racecourse re-development in a first
 person, virtual reality environment in which you
 can walk the site and see the construction
 sequence right before your eyes.













4D VR on The Curragh Racecourse

- Irelands First Interactive 4D VR (Virtual Reality) Construction Sequence has been established on the Curragh Racecourse.
- "It allows you to attend site, virtually, at any point in the future"

INNOVATION

Lastern BIM Region

Irelands First VR interactive 4D Construction Sequence

















INNOVATION

Irelands First Interactive 4D VR (Virtual Reality) Construction Sequence



4D VR using the HTC Vive & Oculus Rift













4D VR & S5 Risk Focus Areas

- Sisk are also linking the 4D VR experience to the S5 Risk Focus Areas for the identification of risks through the first person VR environment during the construction stage of a project.
- The S5 items are placed in the 4D VR model environment.
- A traffic light system is used to identify the risk. A circle beside the S5 goes:
 - Red when a real risk arises,
 - Amber when a low risk is possible and
 - Green when there is no risk.



Excavations &

Temporary Works



Segregation



Working at Height



Live **Energies**



Lifting Operations Falling Materials











INNOVATION



4D VIRTUAL REALITY



Irelands First

Interactive 4D VR (Virtual Reality) Construction Sequence.

























