Benefits of 4D in Major Projects

Proicere User Case Studies

Introduction by Simon Cuciurean, Bentley Systems











Global Top 100 Software Company

FOCUSED ON INFRASTRUCTURE ENGINEERING



39 years in operation



>5,200 colleagues in 40 countries



>1,400 colleagues with doctoral and master's degrees



87% colleagues recommend as a place to work



~\$1.1B



> 194
countries where BSY
solutions are in use



\$664M in R&D in past 3 years



290 patents granted or pending



72%Bentley Infrastructure Top 500 Owners



93% ENR Top 250 Engineering Firms



initial public offering September 2020



advancing sustainable infrastructure



Comprehensive, Innovative, Open

INFRASTRUCTURE ENGINEERING SOFTWARE

- Asset lifecycle information management
- Asset performance
- Asset reliability



ASSET RELIABILITY SOFTWARE AND SERVICES **#1 North America**

#1 Software

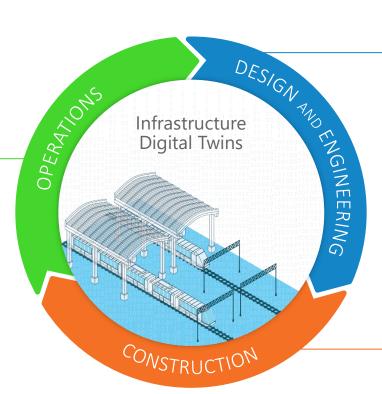
#1 Electric Power T&D

#1 Oil & Gas

#1 Transportation & Logistics

#1 Water/Wastewater

#1 Cloud



- Civil engineering
- Structural engineering
- Geotechnical engineering

ARC Advisory Group

ENGINEERING DESIGN SOFTWARE AND BIM #1 Electric T&D. Comms

#1 Mining

#1 Water/Wastewater Networks

#1 Collaborative BIM

- ▶ 4D construction sequencing
- Cost and perform
- Field and control

CONSTRUCTION COMPUTING

CONSTRUCTION EXECUTIVE

CONSTRUCTECH

Company of the Year 2021

Top Construction Technology Firms of 2022

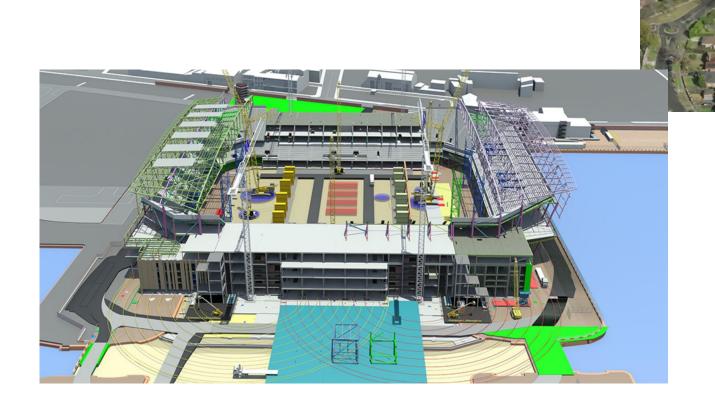
2023 Top Products Awards











Pre-Bid Pre-Construction Planning

Construction Execution

5

Closeout

SYNCHROConstruction

Web | Mobile | Cloud

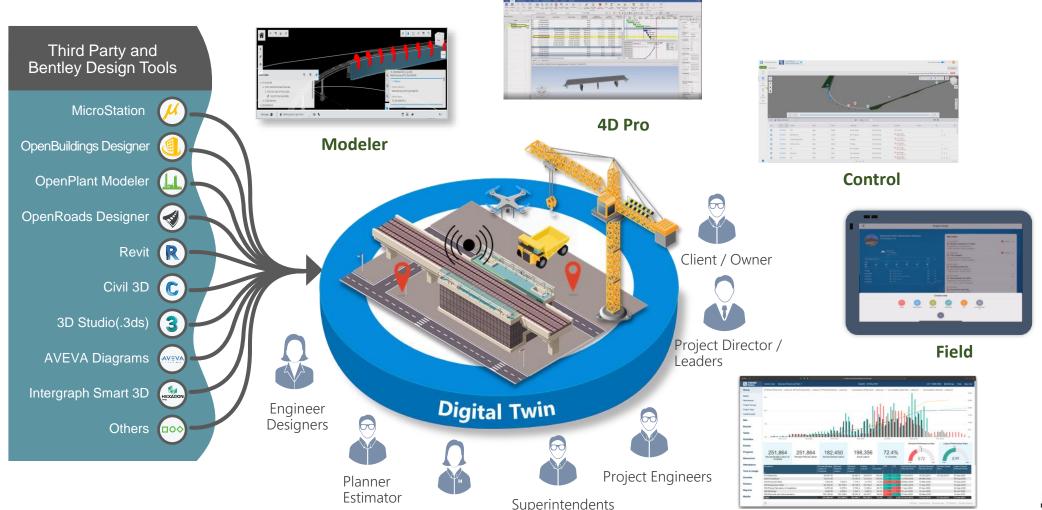
Perform



Executive = Planning & Virtual Construction

Project Management & Collaboration

Project Cost Management Field Op erations



Construction

Managers





Karl Dooner - CEO at Proicere Ltd

30 years in major projects and programmes across many sectors

Much of the last 20 years in the Nuclear sector

Founded Proicere in 2019





Construction and Infrastructure Projects:

According to the Oxford Global Projects Database, large construction and infrastructure projects experience on average a 33% delay relative to their original timelines. And 9 out of 10 large-scale construction projects go over budget on average around 28%.

In a separate study on megaprojects (projects that cost more than £1 billion), 65% faced a cost overrun, and the average overrun was between 50% to 200%.

33% delay relative to original timelines

of megaprojects faced a cost over run

between 50% and 200%







Case Studies





Case Study 1 & 2





schedule related cost savings on this project











Using **Gaming Software**

to virtually rehearse high risk areas of delivery











Having a

Timeline

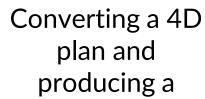
makes the project schedule to be easily identified by even nonplanners











Virtual Reality

output is beneficial in numerous areas.











Using Gaming Software to

Virtually Rehearse

Emergency **Procedures**







Visit the Bentley Systems Stand No. 5

