

**End of project report**



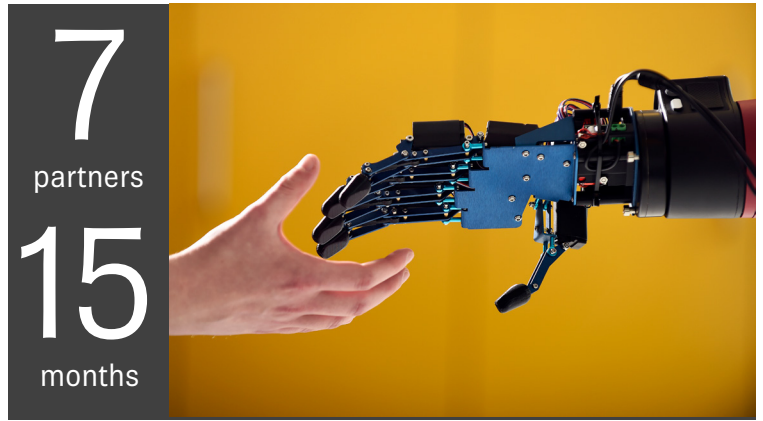






# A collaboration

of leading industry  
and academic  
bodies to change  
construction



Funded the project: a  
£500k investment in 2019

CONSTRUCTION  
SCOTLAND  
INNOVATION  
CENTRE

Managed project, built the  
web platform, marketed the  
project & delivered training  
events

Edinburgh Napier  
UNIVERSITY

Created course materials,  
digital content & managed  
Summer Design Challenge



CITY OF GLASGOW  
COLLEGE

Levelled material against  
qualification framework,  
build the digital platform &  
delivered training events

MOBIE  
Ministry of Building  
Innovation and Education

Delivered 'Train the Trainer'  
events in England



Canolfan Arloesi Adeiladwaith Cymru  
Construction Wales Innovation Centre

Delivered 'Train the  
Trainer' events in Wales

classofyourown®

Delivered 'Train the  
Trainer' events to schools



Across England,  
Scotland & Wales



# OPPORTUNITY

## **To upskill & industrialise the construction industry**

In 2017, CITB published a report 'Faster, Smarter, More Efficient' that highlighted how offsite could revolutionise the industry.

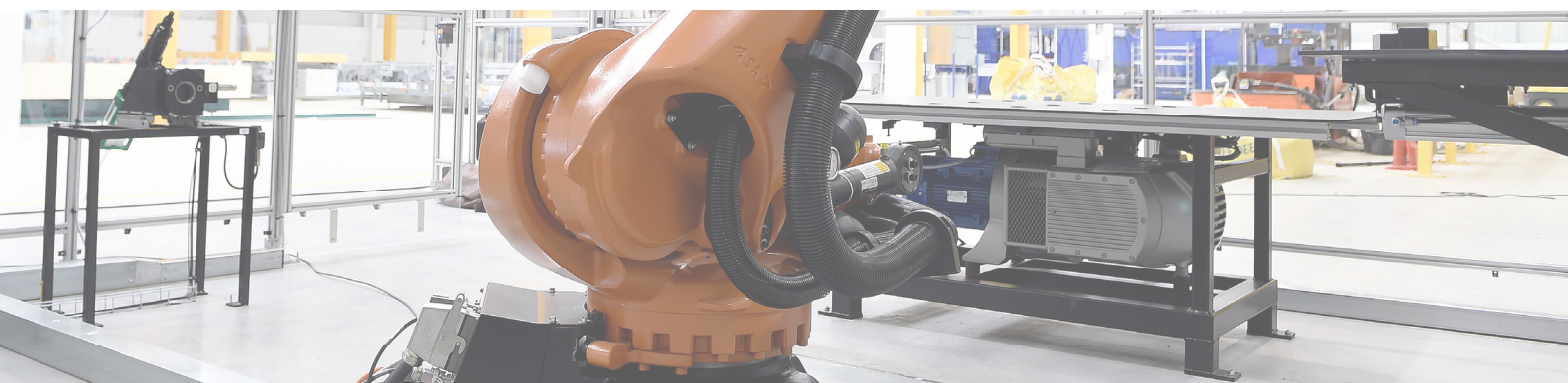
As part of this research, CITB asked construction companies expecting to use offsite manufacturing if they needed improved offsite skillsets over the next 3-5 years.

38% said that they needed offsite upskilling.

However challenges faced offsite upskilling, including lack of awareness, skills deficiencies, and gaps in training. This made it necessary to increase the general standard of knowledge about offsite manufacturing but also to improve the quality and pervasiveness of teaching it.

CITB invested £1.2m in 2019 into 2 offsite upskilling projects: one of these was Offsite Ready. Offsite Ready proposed to train academics and educators teaching construction-related subjects in universities, colleges, schools and private institutions – a nation-wide initiative to 'Train the trainer.'

**Teaching educators how to properly prepare, ready and upskill construction's future workforce.**







## Training UK educators in offsite manufacturing

Offsite Ready delivered innovative training to develop skills and knowledge on offsite manufacturing.

First partners collaborated to create a standardised body of knowledge on offsite and identify the new materials, skills and competencies needed in education and industry. Mark Milne from CSIC created a competency framework on offsite manufacturing, which Edinburgh Napier then used to create the content. 19 academics helped develop these materials along with an expert industry panel, visiting actual live offsite developments as part of their research.

From this, the project aimed to deliver a matrix of offsite training: a website, an online course, a student summer project challenge, in-depth training resources, a teaching support system and live training events – initially intended to be face-to-face.

However, due to the UK lockdown, Offsite Ready and CITB held meetings to discuss the project's future. Offsite Ready proposed continuing the training online. CITB agreed.

The project launched nationally on April 23rd with a 90 minute webinar.

**Offsite Ready went on to teach educators in schools, colleges, & universities across the country.**





# — The Materials —

## The Materials

### An industry collaboration

Made by academics & industry for academics



**CSIC**

CSIC created the framework for the material



**Edinburgh Napier**

Academics developed the course material & all digital content



**City of Glasgow College**

Academics ensured material matched a qualification framework

## The Online Resources

### Free & accessible digital expert materials

The project created digital resources for [offsiteready.com](https://offsiteready.com) and an [online course](#). Offsite Ready made these materials free to give modern, flexible training to any educator, including infographics, 381+ pages of written material, videos from the authors, workshop and talking head videography, slides and animations: an unprecedented depth of content.

## Modules in Course

The course contained 7 modules on key areas of offsite.

1. Offsite fundamentals
2. Digital design
3. Estimating / commercial
4. Logistics
5. Offsite manufacture
6. Onsite placement & assembly
7. Management & integration

"Faster, Smarter, More Efficient" applied to digital learning.



**1** Online course

**7** Modules

**9** Technical Booklets

**6** Animations

**1** Website

**12** Slide decks

**11** Infographics

**14** Videos



# — The Training —

## The Online Webinars

Delivering live & direct specialised training

After the initial launch, 5 of the partners delivered live training sessions throughout Scotland, England and Wales from April to September 2020. These targeted specific colleges, universities and institutions, bringing them high-quality training. Class of Your Own focused on teaching 42 teachers from 33 schools, developing modules and certifying the trainees.

## The Partners

**An industry collaboration**

Partners collaborated to deliver live training across the UK



**26** Training Events

**5** Organisations

**3** Countries

8%

School Teachers

59%

College Lecturers

16%

University Lecturers

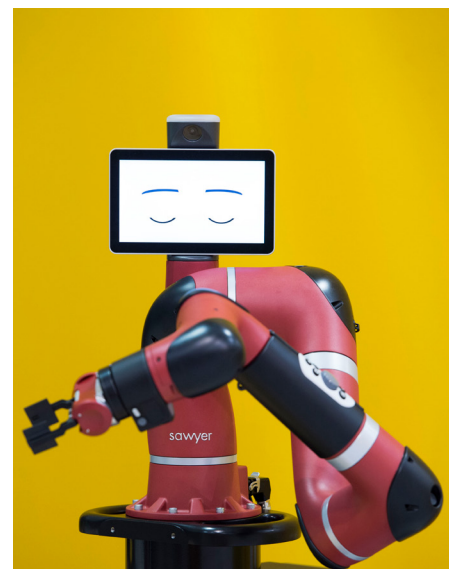
14%

Offsite Employers

3%

Private Trainers

Start of project training breakdown





# — Design Challenge —

## The Student Programme

### Piloting Offsite Ready's learning materials

The project took 18 current students in the built environment from further and higher education. It put them through a challenge as a pilot of the Offsite Ready learning materials and as a case study on teaching offsite in a creative studio. The project created a design brief for students to engage with offsite, develop meta skills and get guidance from expert members of the industry.

### The Brief –

The students' brief: to design an inclusive, productive and ecological visitor hub in Beecraigs Country Park using offsite. [The brief](#) is available for teachers to freely use and apply to their own classroom in Offsite Ready's [teaching support system](#).

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teams

£600

1st place

11

mentors

11

weeks

£300

2nd place

16

judges

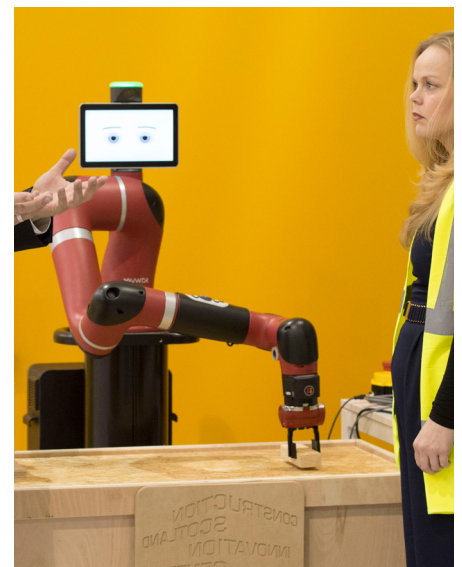
## The Contributors

An expert collaboration of mentors and judges



## The students' final designs

Both designs impressed the industry panel and there are discussions about using them as a reference & basis for an actual visitor hub in the next 2-3 years.





# People

## [Making Offsite Ready]

The creation of the Offsite Ready learning materials included the collaboration of 40 individuals.

Klasdair Reid Arnaud De Saint-Sernin  
Livingstone Dr Eoin Plant O'Toole Dr  
Leitch Dr Mila Duncheva Lenka  
Patrick Langdon Prof Robert  
Victor Henquel Wojtek Plowas  
Andrew Lennie Callum  
Nicolson Calum Stuart  
O'Donnell Zarja Krevelj  
Glasgow College Juan A  
Salford Lindsay Richards,  
David Industry Amy Price,  
Ann Bentley, Rider  
Construction Leadership  
West Lothian Council  
Homes Eirwen Hopwood,  
Emma Cooper, SWECO  
Lisa Avins, ilke Homes Matt  
McLean, SWECO Roman Barran,  
Doak, Stora Enso Mark Milne, CSIC



Carola Calcagno Dave Jarrold Dr Andrew  
Julio Bros Williamson Dr Kenneth  
Kovacova Louise Rogers Prof  
Hairstans Prof Sam Allwinkle  
Agata Gaspari Aida Pashko  
MacGillivray Callum  
Emily Rankin Liam Joseph  
Caitriona Jordan, City of  
Ferriz-Papi, University of  
University of Wales Saint  
Radar Communications  
Levett Bucknall and  
Council Beverly Stirling,  
Dwiriana Setiati, ilke  
West Lothian Council  
Jamie Hillier, AKERLOF  
Stevenson, SNRG Rebecca  
Canary Wharf Contractors Rory  
Dr Mila Duncheva Caitriona Jordan

### Creation of Materials

Led by:

Edinburgh Napier  
UNIVERSITY



**19 academics**



**12 industry leaders**



**9 students**

### Diversity

**Construction industry only has 12% full-time female staff.  
The Offsite Ready content creation team had 18 women,  
which represents 45% of the whole team.**



# Deliverables

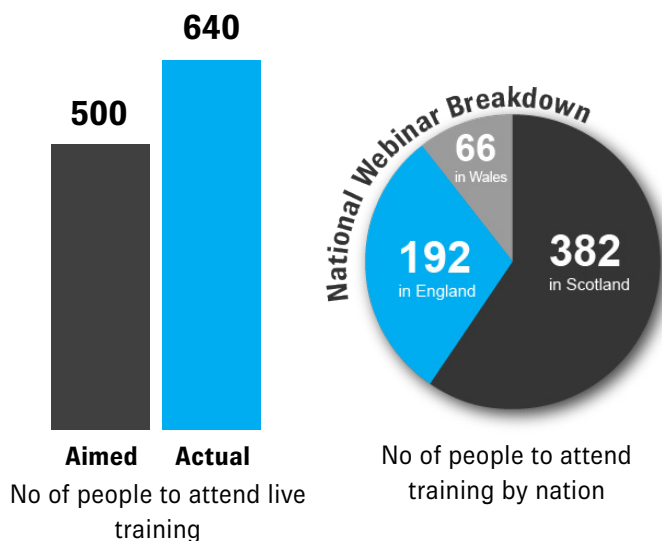


## [Analysing Offsite Ready]



The Offsite Ready project completed and exceeded on its deliverables.

### Training Statistics



Exceeded training numbers by 28%



4.57

average star rating

940+  
course  
students

6000\*  
webpage  
views

1500+  
trained  
overall

92  
countries  
engaged

27  
5 star  
ratings

52+  
pieces of  
content

\*in the first two months after launch

true as of Oct 2020

### Overall achievements

164 joined April's opening event, which marked the start of a further 25 live training sessions that taught 640 educators nation-wide.

The framework that the course materials were based upon has become a highly sought after resource that many organisations could use.

The 1500+ educators trained through webinar training events and the online course could, in turn, teach ten of thousands of people in construction's future – an investment that will pay off over the future years and decades.

### Partner achievements

- COYO ran workshops & training for schools in England in 2019-20. They issued 31 CPD certificates in June 2020. 100% confirmed modules were a good training resource, 67.4% confirmed future use, and the modules received an average 4.5/5.
- MOBIE are mapping the Offsite Ready training resources to the Pearson B-Tec qualification for it to be part of this qualification.
- CSIC & City of Glasgow College were nominated for the College Development Network Award's Digital Learning Award for the Offsite Ready digital platform.



# Outcomes

## /Challenges



- The Coronavirus pandemic meant the project had to be redirected. Due to it being a training programme, online webinars allowed the project to still be delivered; however, this required the adaptability, resilience and ingenuity of the project partners, stakeholders, and people involved

## /Milestones



- First of its kind large-scale training programmes in offsite manufacturing
- Certified many academics in offsite for the first time
- One of the only offsite courses designed for educators freely available in the world

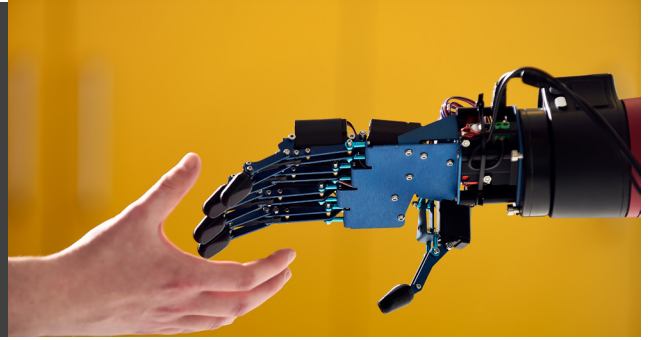
## /Lessons Learned



- There is a desire, demand and need to learn about offsite manufacturing
- Digital upskilling methods are powerful, pervasive & effective, especially in a post COVID world
- Quality large scale programmes and initiatives to educate national audiences and fill industry skill gaps is not only necessary but possible

# People who took the course Case Study

1



"A user friendly inventory of resources to support not only their own personal development, but that of their learners."

## What were the benefits of the training?

"From an educational perspective, it was completely appropriate, particularly in a post COVID education sector. The way Caitriona facilitated the learning was very effective in terms of how the learning was conducted with the resources and exercises required of the attendees. It served as reminder to myself and my colleagues about how the sector should be delivering training."



## How do you intend to use the resources?

"The training stimulated discussions for us as a team in terms of how the resources can support the delivery of our current and future programmes."

## Marc Fleming -

Took Offsite Ready's Digital Design and Estimating training

"I am an Academic and Quality Manager at Fife College who oversees a range of curriculum offerings from SCQF Level 4 to SCQF Level 9 across the Construction Craft and Built Environment Technician qualification groups, including Modern Apprentices for all the Construction Trades and Technician areas."

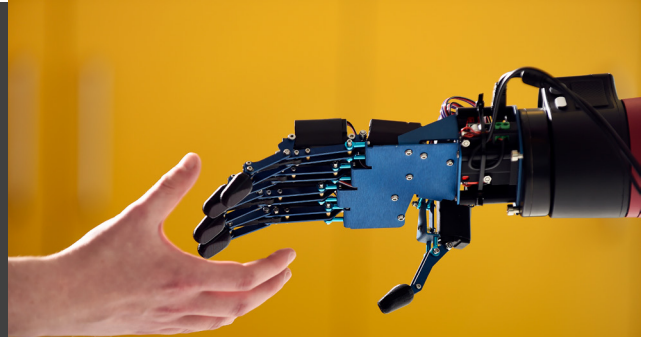
## How can we improve?

"The training was excellent especially given how delivery was restricted owing to covid. A series of "teach meets" in the same format would be useful as a rolling programme for lecturers."



## People who took the course Testimonials

2



Getting feedback on the training was vital to the project's success and future training quality. Some of the highlights:

**"Some of this needs to be adopted as an overall 'standard' by all."**

- Wyn Pritchard, Director of Construction Skills and Business Strategy at NPTC Group

**"...extremely comprehensive."**

- Joe Dyde, Business Manager, Build Offsite

"The course was good and well presented. The quiz at the end kept me right in helping me prove my knowledge. This course will help me to be able to speak to trainees I work with from a more knowledgeable viewpoint on offsite and modular construction."

- Edward Jeffery, review on the online course

**"The Offsite Ready learning content would make a fantastic Masters programme that our colleagues could really benefit from."**

- Paula Louise McKeown, CPD coordinator, CIAT Scotland Eas

# Next Steps

Offsite Ready has opened up new possibilities in large scale upskilling.

"Collaboration and a willingness to adapt has been the key to successfully delivering this programme," - Kaye Keenan, Project Manager, Offsite Ready

The project will continue with online training. All of Offsite Ready's modules will be available to access on the new CSIC future skills training platform. CSIC also want to explore the possibilities of future digital learning programmes and continue working to establish the UK as the international centre of offsite.



A special thanks to all of the project partners involved and CITB who made the project possible.



#offsiteready



hello@cs-ic.org  
www.CS-IC.org  
0141 212 5250

Funded by





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