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Automation and Labour

Automated Architecture (AUAR) | AUAR Labs

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David Doria

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The Bartlett School of Architecture

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Knowle West Media Centre | KWMC The Factory

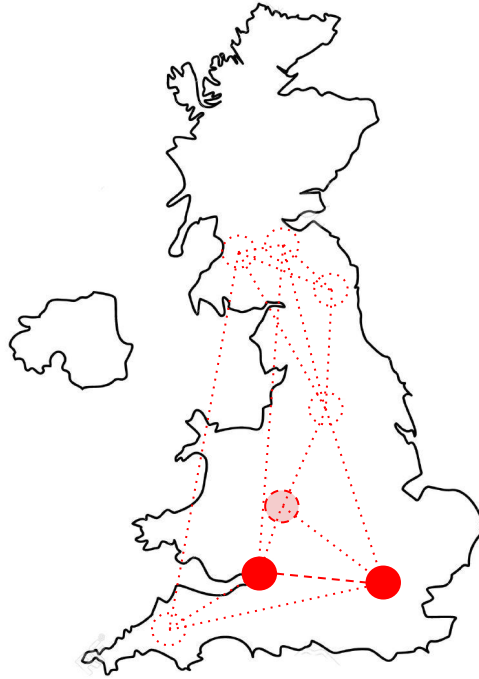
Melissa Mean

Hannah Clarke

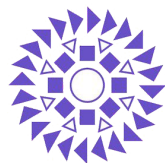
Chris Ingram



European
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Living Labs



2020



**SOUTH WEST
CREATIVE
TECHNOLOGY
NETWORK**



**Innovate
UK**



**Economic
and Social
Research Council**

**TRANSFORMING
CONSTRUCTION
NETWORK PLUS**



**Engineering and
Physical Sciences
Research Council**



auar

Technology

Hard/software

Design

Architecture
Products
Platforms

Research

White Papers
Articles, books

Areas of Work

Automation

Social Justice

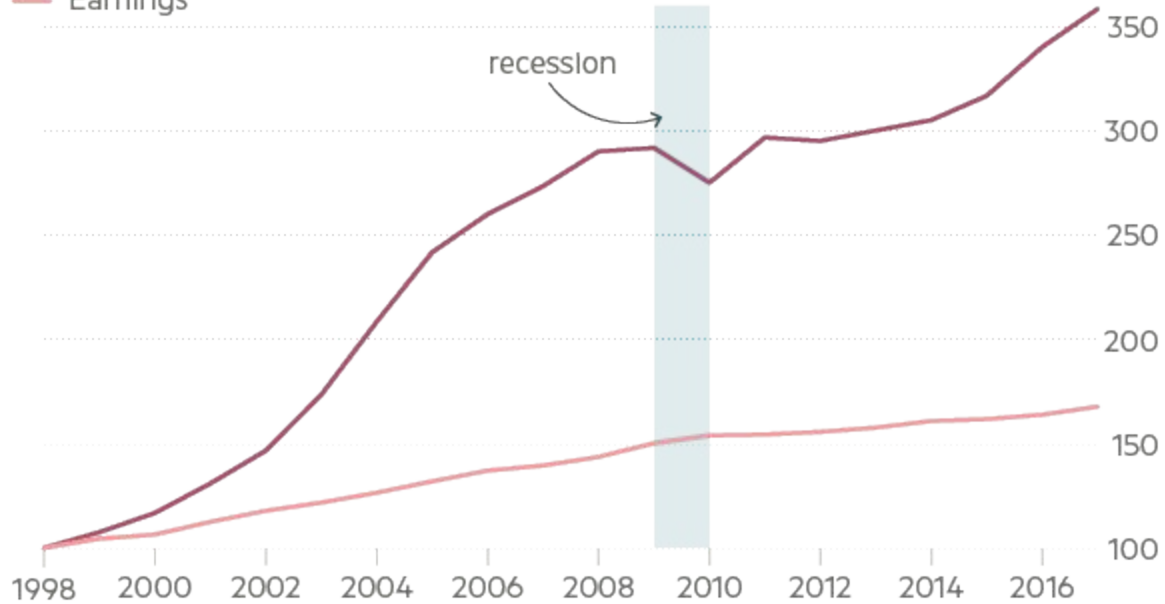
- Housing
- Platforms
- Future of Work
- Localised Manufacturing
- Circular Economy

Earnings lag behind house price rises

Median price paid for property and annual earnings, England and Wales, rebased

— House Prices

— Earnings



Source: ONS Graphic: Nicholas Megaw/FT

FT

The world needs to build 2 billion new homes over the next 80 years



Millions of new homes need to be built in order to keep up with the world's rising population.

Image: REUTERS/Mark Blinich

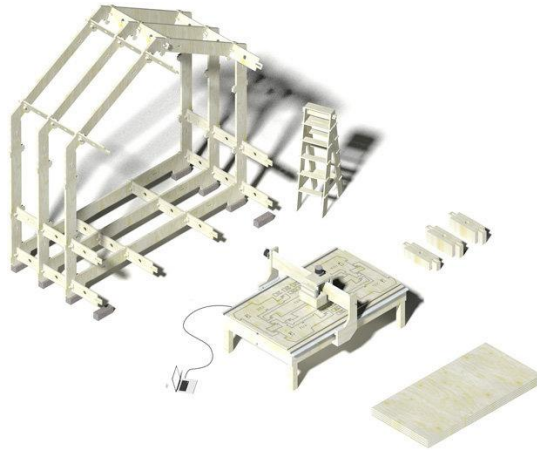
This article is published in collaboration with

The Conversation

By the end of this century, the world's population will have increased by half – that's another 3.6 billion people. According to the UN, the global population is set to reach over 11.2 billion by the year 2100, up from the current population which was estimated at the end of 2017 to be 7.6 billion. And that is considered to be "medium growth".







**CITIZEN'S
BASIC
INCOME
TRUST**



FAB LAB

Cities

The radical model fighting the housing crisis: property prices based on income

Oliver Wainwright

@oliverwainwright

Mon 16 Jan 2017 07:15 GMT



643 591



▲ Citizens UK campaign outside the St Clement's hospital site in Mile End, calling for it to be London's first community land trust, in 2009. The East London CLT will welcome new residents onto the redeveloped site this month. Photograph: Citizens UK

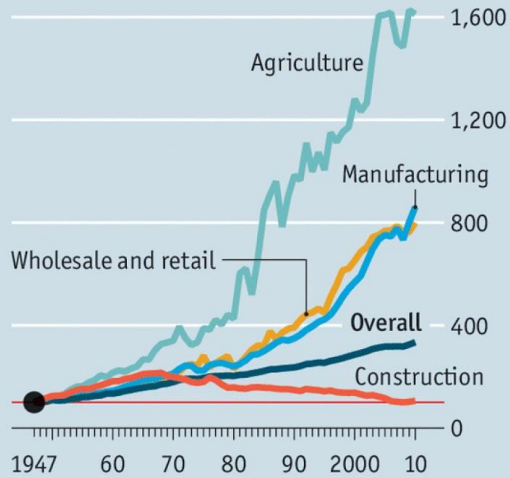
Community land trusts battle gentrification by linking house prices to local wages rather than the market rate. But can this growing movement for 'permanently affordable' homes really ease Britain's housing crisis?

Advertisement



Unlearning by doing

United States, gross value-added*
Per hour worked, 1947=100

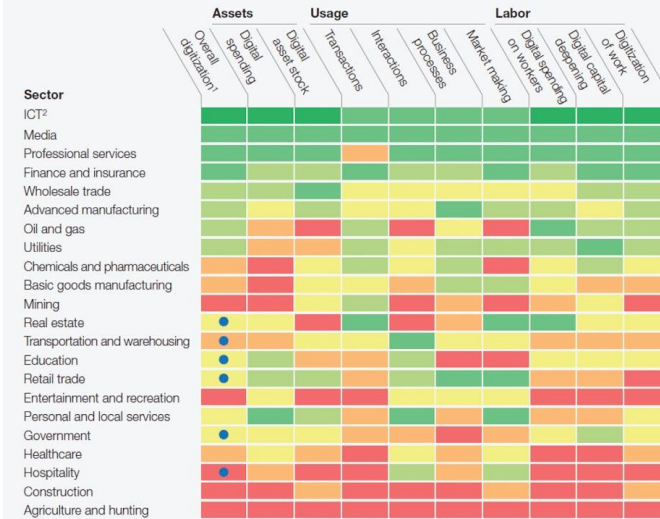


Source: McKinsey Global Institute *At constant prices

Economist.com

McKinsey Global Institute industry digitization index;
2015 or latest available data

Relatively low digitization
Relatively high digitization
● Digital leaders within relatively undigitized sectors

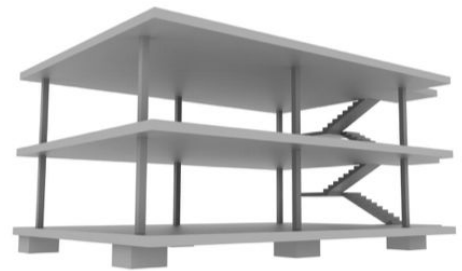
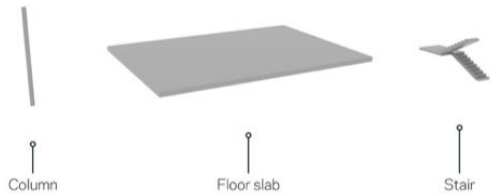


¹Based on a set of metrics to assess digitization of assets (8 metrics), usage (11 metrics), and labor (8 metrics).

²Information and communications technology.

Source: AppBrain; Bluewolf; Computer Economics; eMarketer; Gartner; IDC Research; LiveChat; US Bureau of Economic Analysis; US Bureau of Labor Statistics; US Census Bureau; McKinsey Global Institute analysis







This constructs an architectural syntax that acts as a universal framework that can support diversity in material systems and context, which we have demonstrated in our work in RC4 at the Bartlett for many years now.

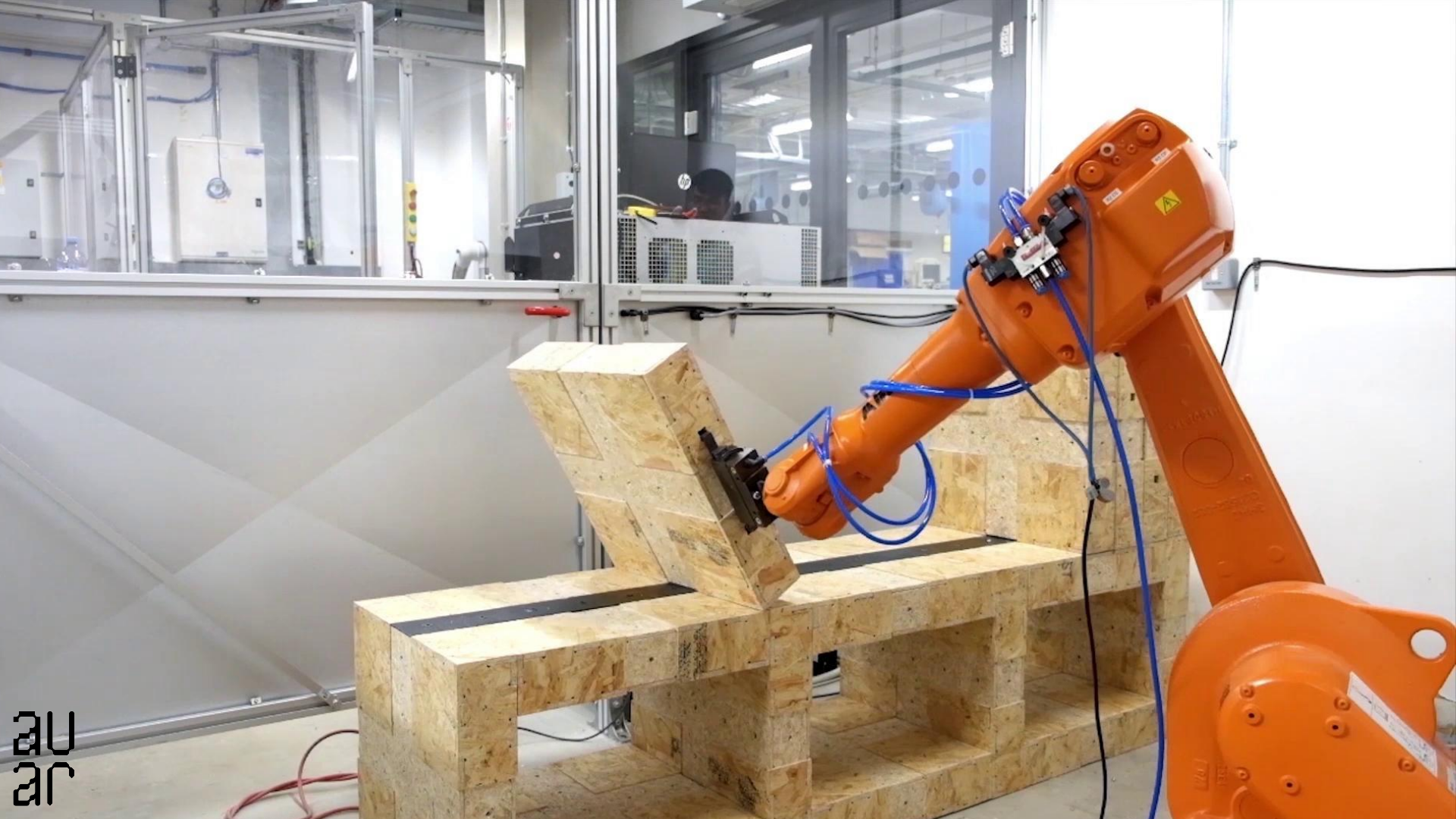


RC4

www.labs.automatedarchitecture.io

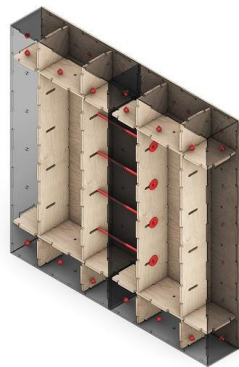
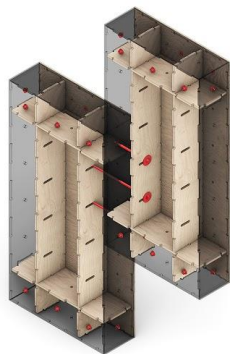
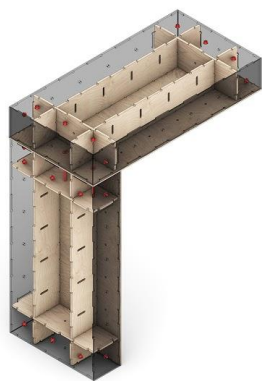
Manuel Jimenez + Gilles Retsin + Kevin Saey
Sonia Magdziarz + Mollie Claypool

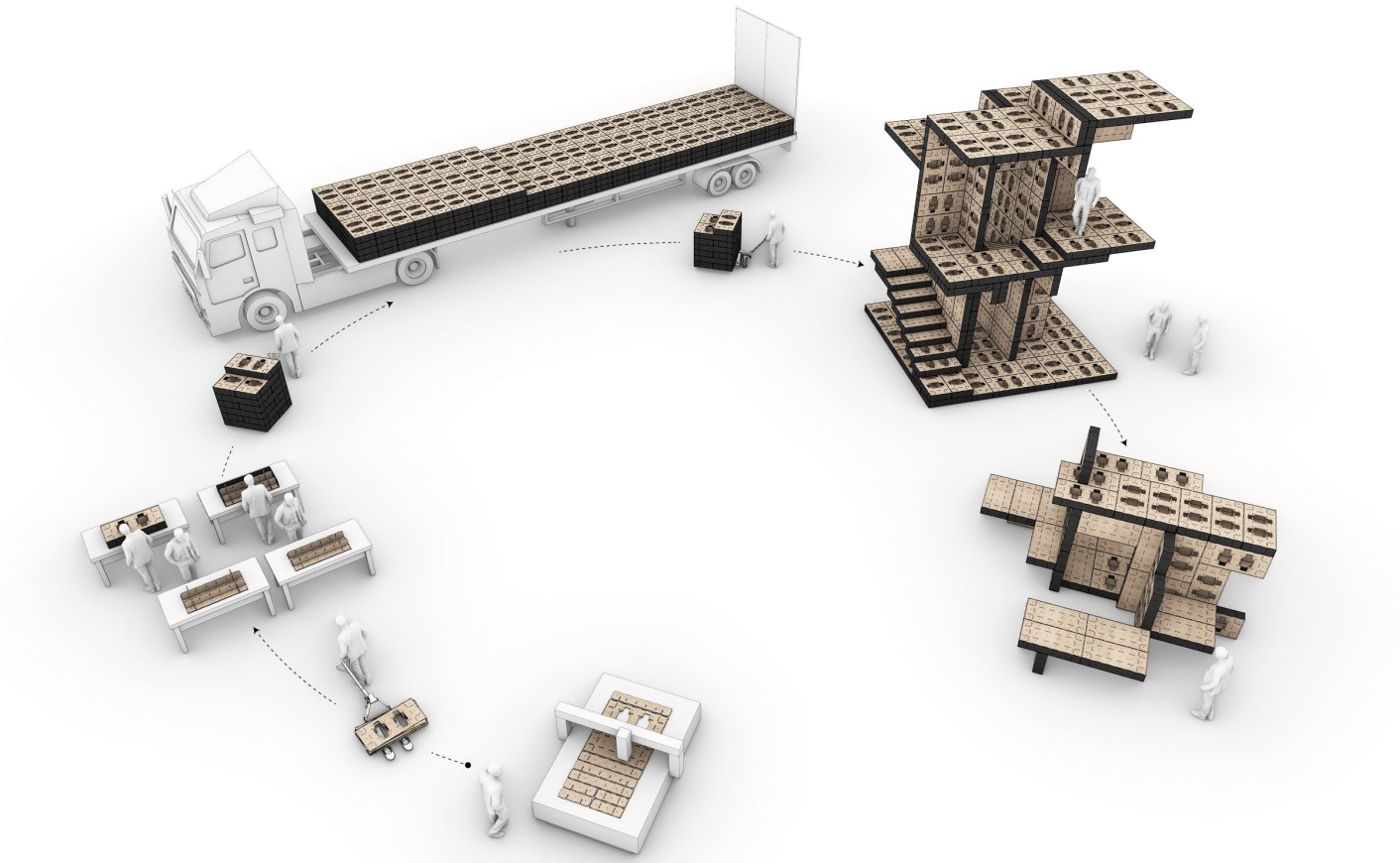


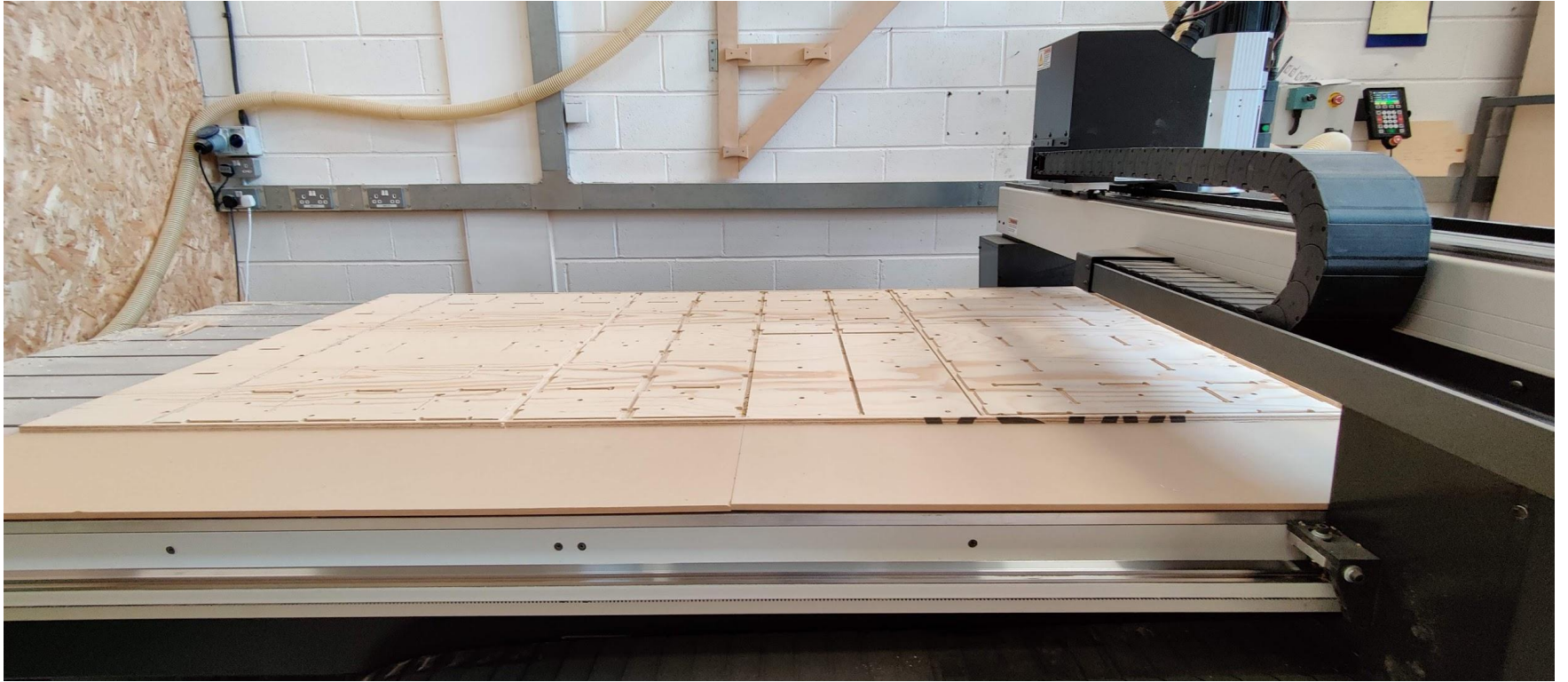


2U
2R



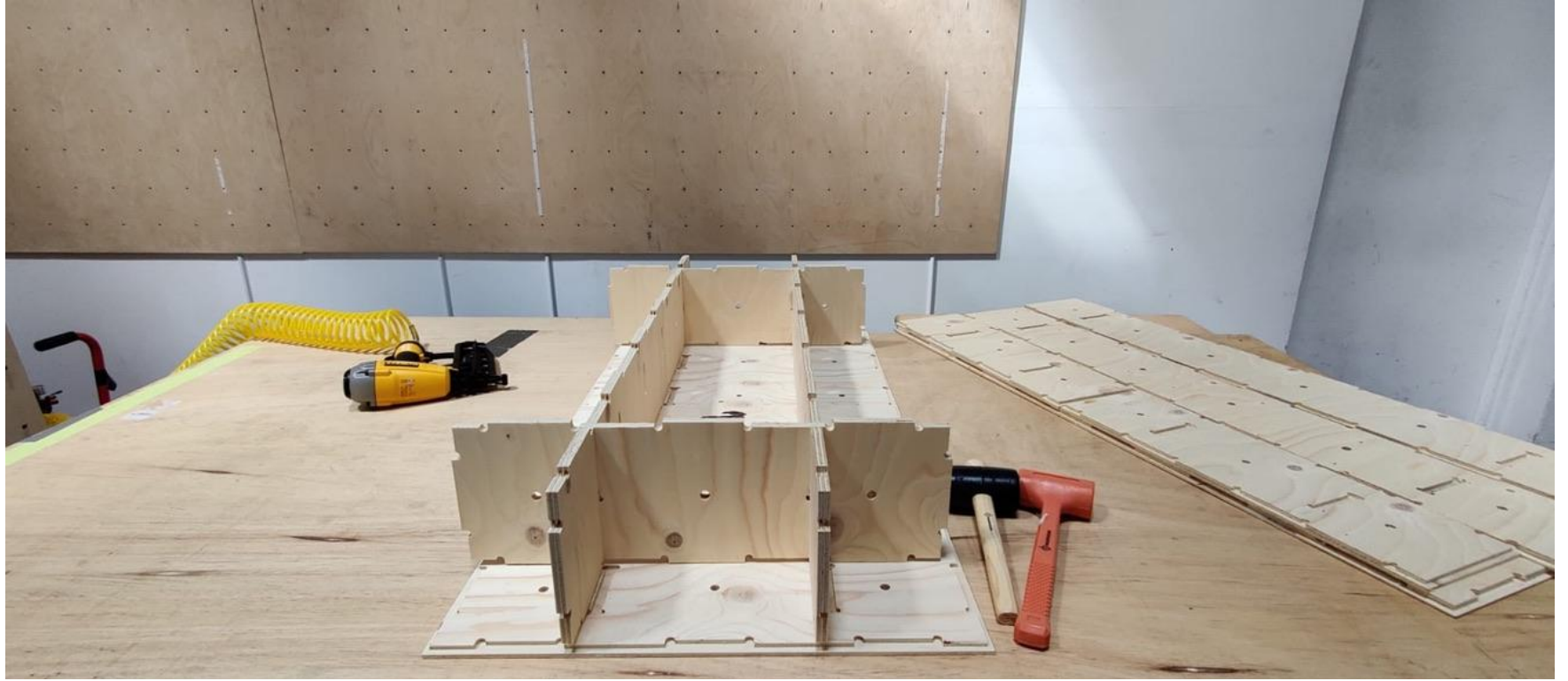






2U
2P

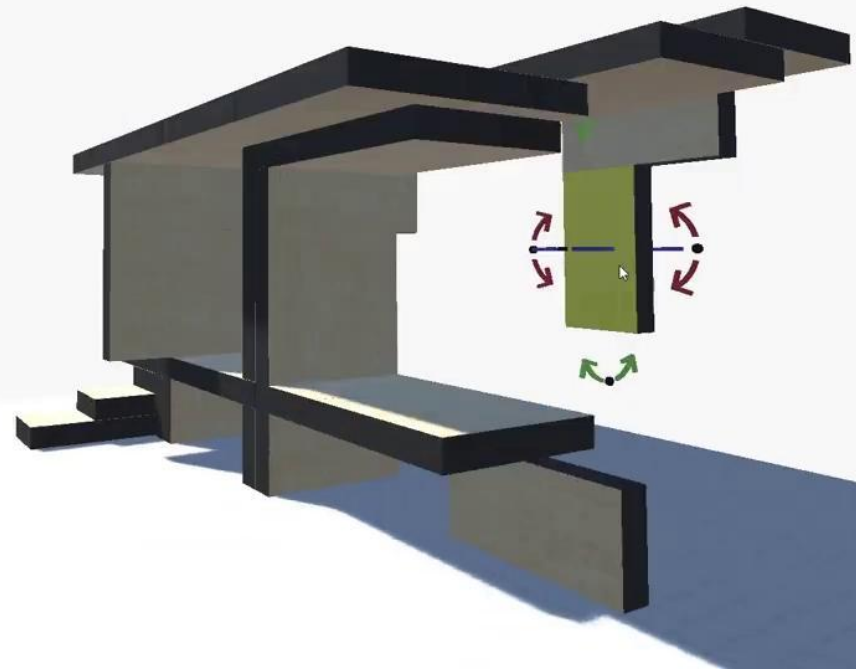




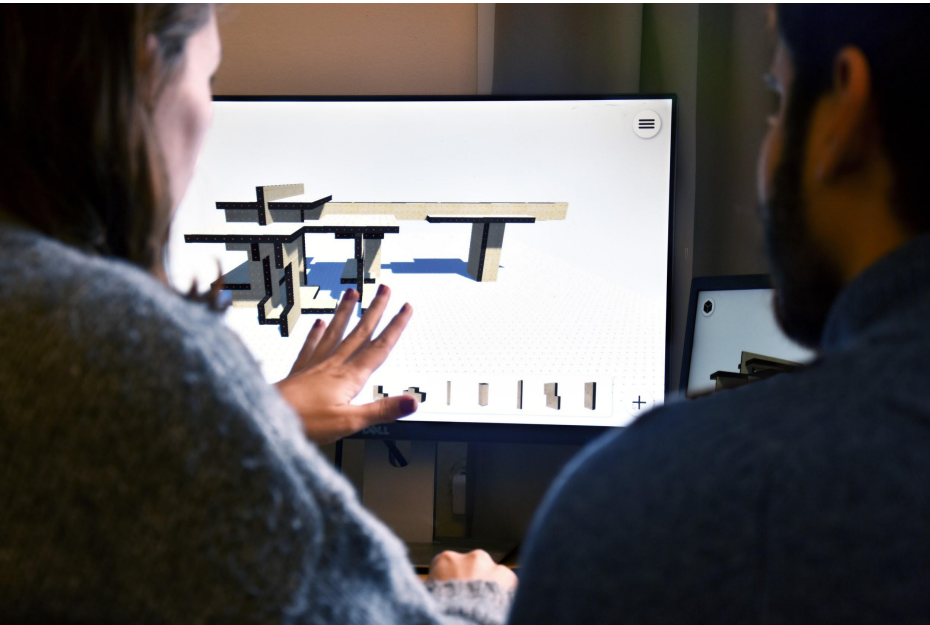
2020

platforms

[the cooperative model 😊]



2U
2P













KNOWLE WEST MEDIA CENTRE





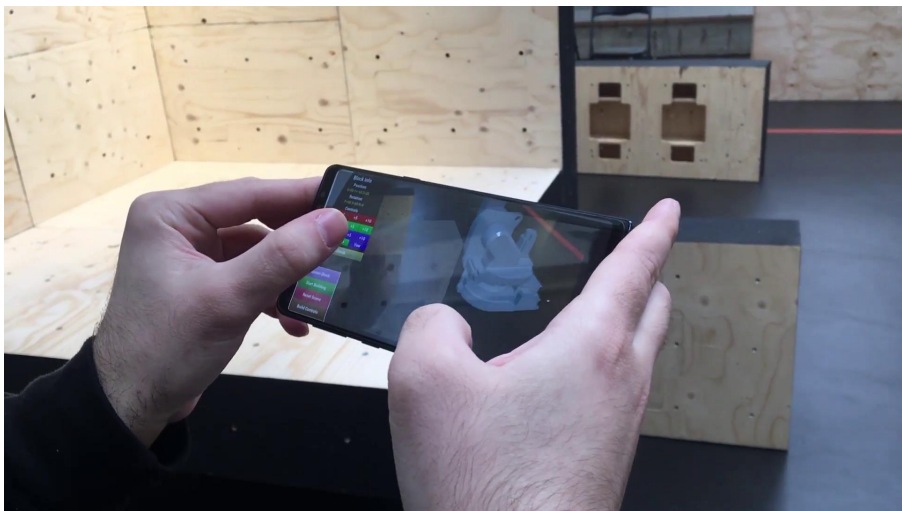






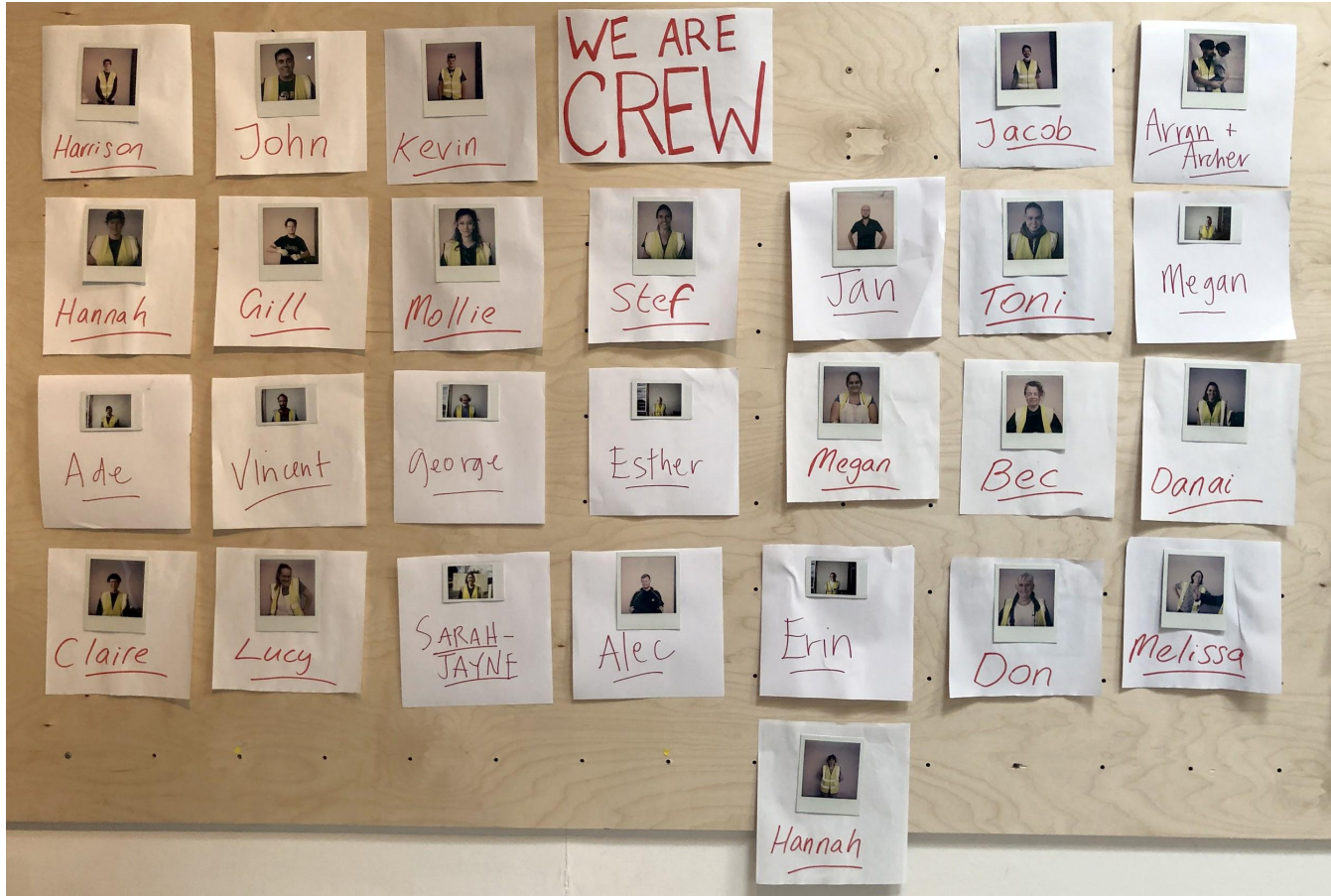






2U
2P





WE ARE
CREW

Harrison

John

Kevin

Jacob

Arran + Archer

Hannah

Gill

Mollie

Stef

Jan

Toni

Megan

Ade

Vincent

George

Esther

Megan

Bec

Danai

Claire

Lucy

SARAH-JAYNE

Alec

Erin

Don

Melissa

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