

Alfreton Park Community SEND School

Alfreton, Derbyshire



Winner AJ Awards 2023
School Project



Winner of Civic Trust Special
Award for Education



Winner of Civic Trust Awards 2024



Winner of the RIBA East Midlands
Awards 2024



Winner of the RIBA East Midlands Project
Architect of the Year Awards 2024



Winner of the RIBA East Midlands
Building of the Year Awards 2024



Winner of the RIBA East Midlands
Client of the Year Awards 2024



Winner of the RIBA National Awards 2024



Inspiring Learning Spaces at the Education Estates Awards 2024
Project of the Year - Inclusive Design at the Education Estates Awards 2024
Project of the Year - Schools at the Education Estates Awards 2024



Delivering Social Value Award at the
Building Awards 2024



Nominated for
the ArchDaily
Building of the Year 2024



Graphisoft UK Awards
Runner up in the Public Sector Project of the Year



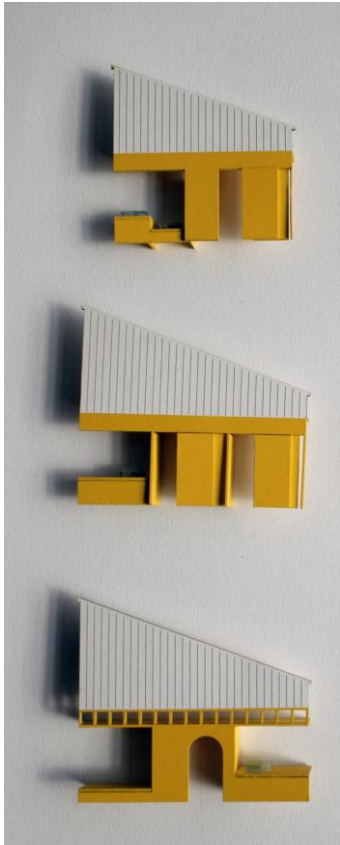
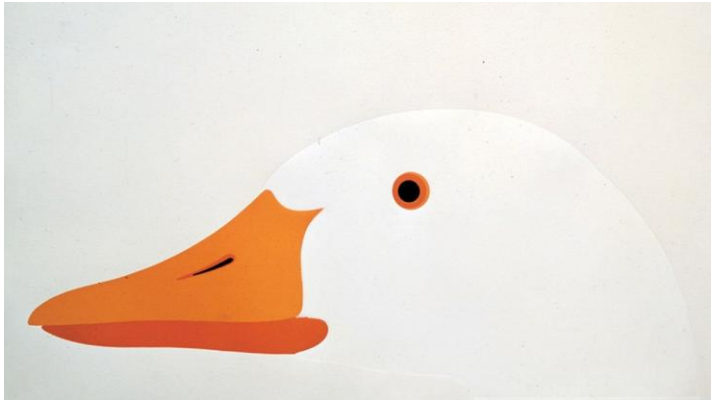
‘No house should ever be on a hill or on anything. It should be of the hill. Belonging to it. Hill and house should live together each the happier for the other.’

Frank Lloyd Wright,
discussing Taliesin House



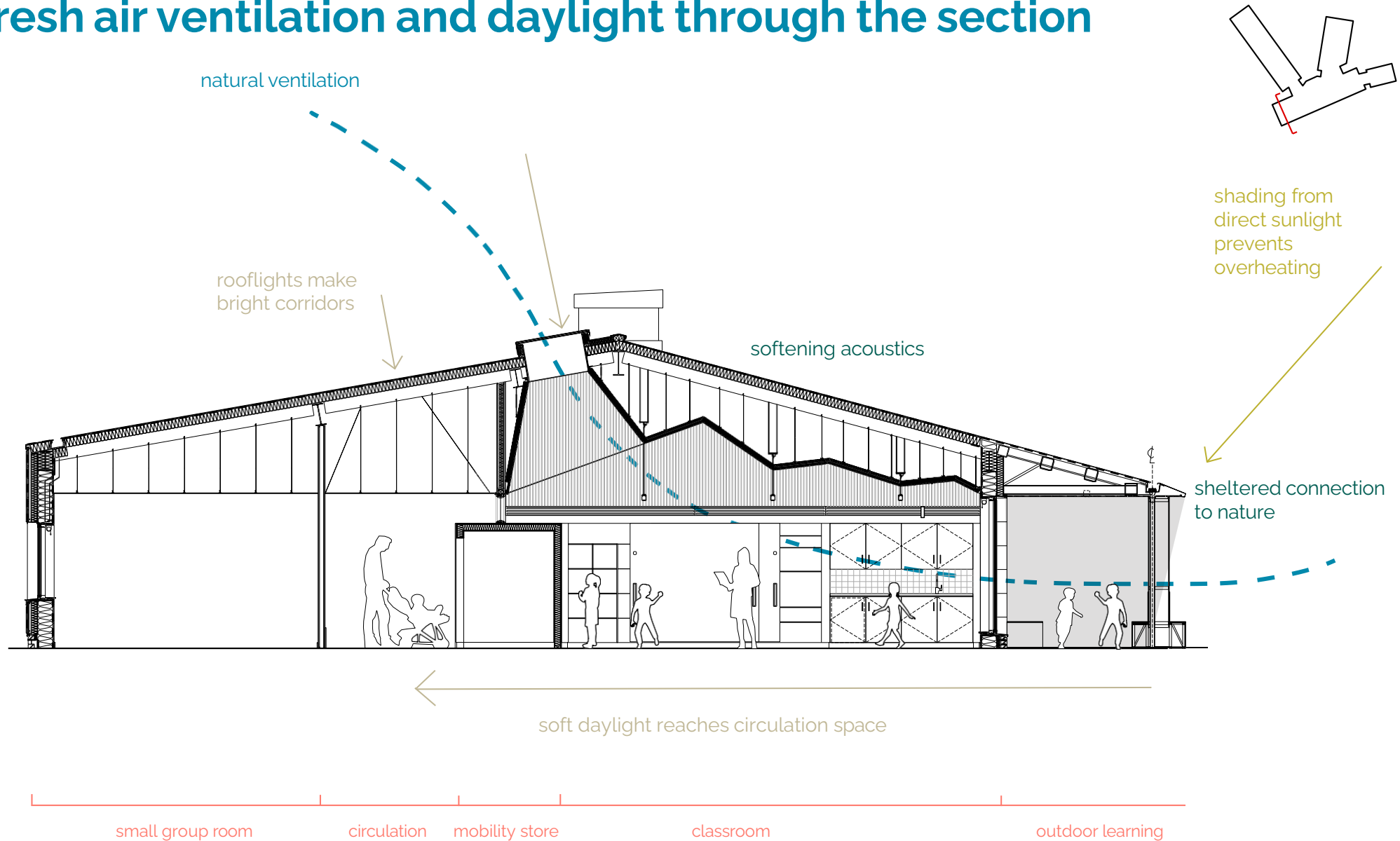








Fresh air ventilation and daylight through the section







Film interview of Headteacher Josie O'Donnell and Student Ryan Jones



Central Foundation Boys' School

Education Estates Conference 2025

Hawkins\Brown



hawkinsbrown.com

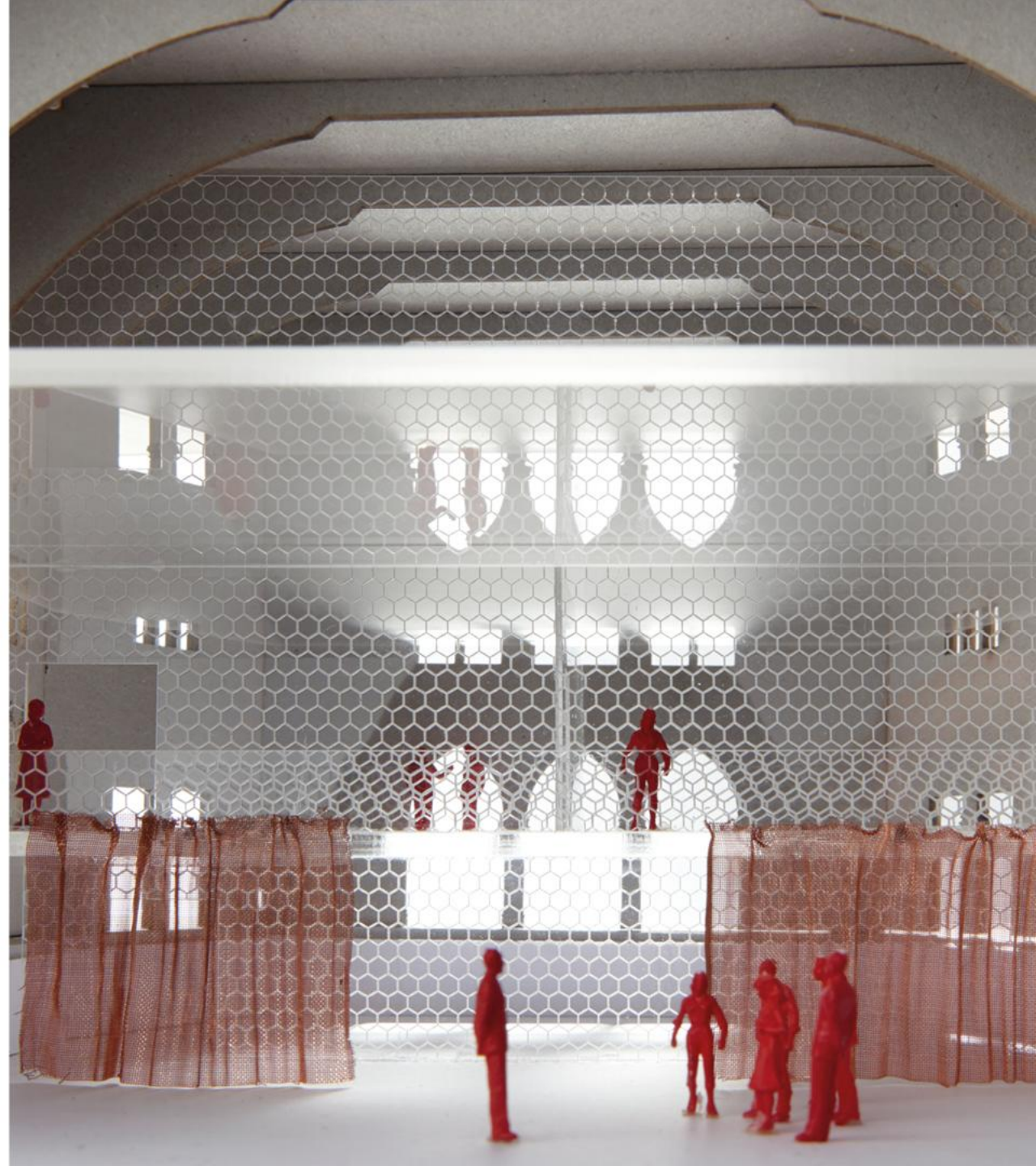
Introduction

Wider Experience

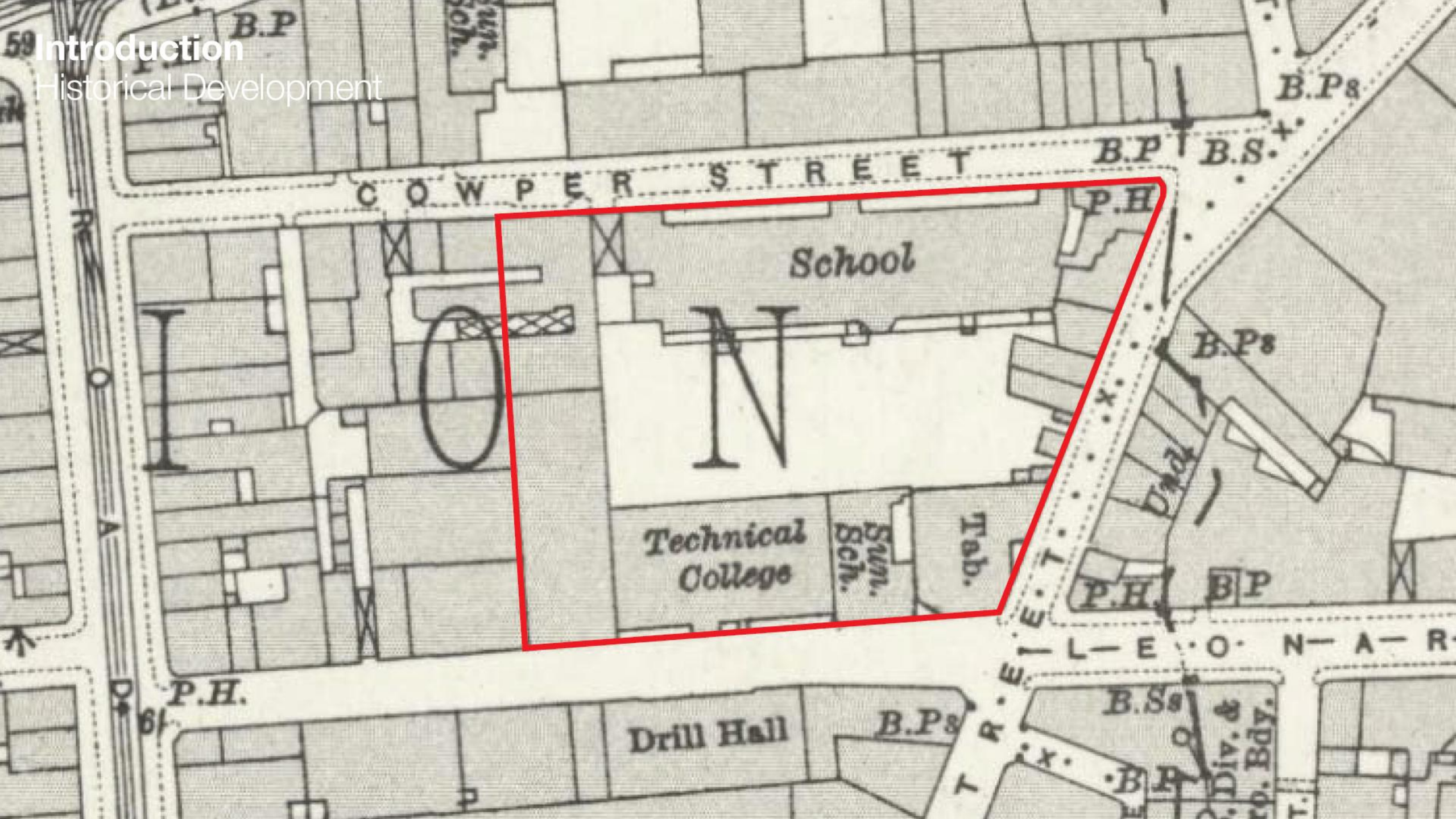


Project Vision

- ▶ Build a bigger and better school for future generations on the site
- ▶ Breathe new life into old buildings
- ▶ Provide new specialist facilities to address the School's needs
- ▶ Improve accessibility across the whole site
- ▶ Address a shortfall in funding for the project



Introduction
Historical Development

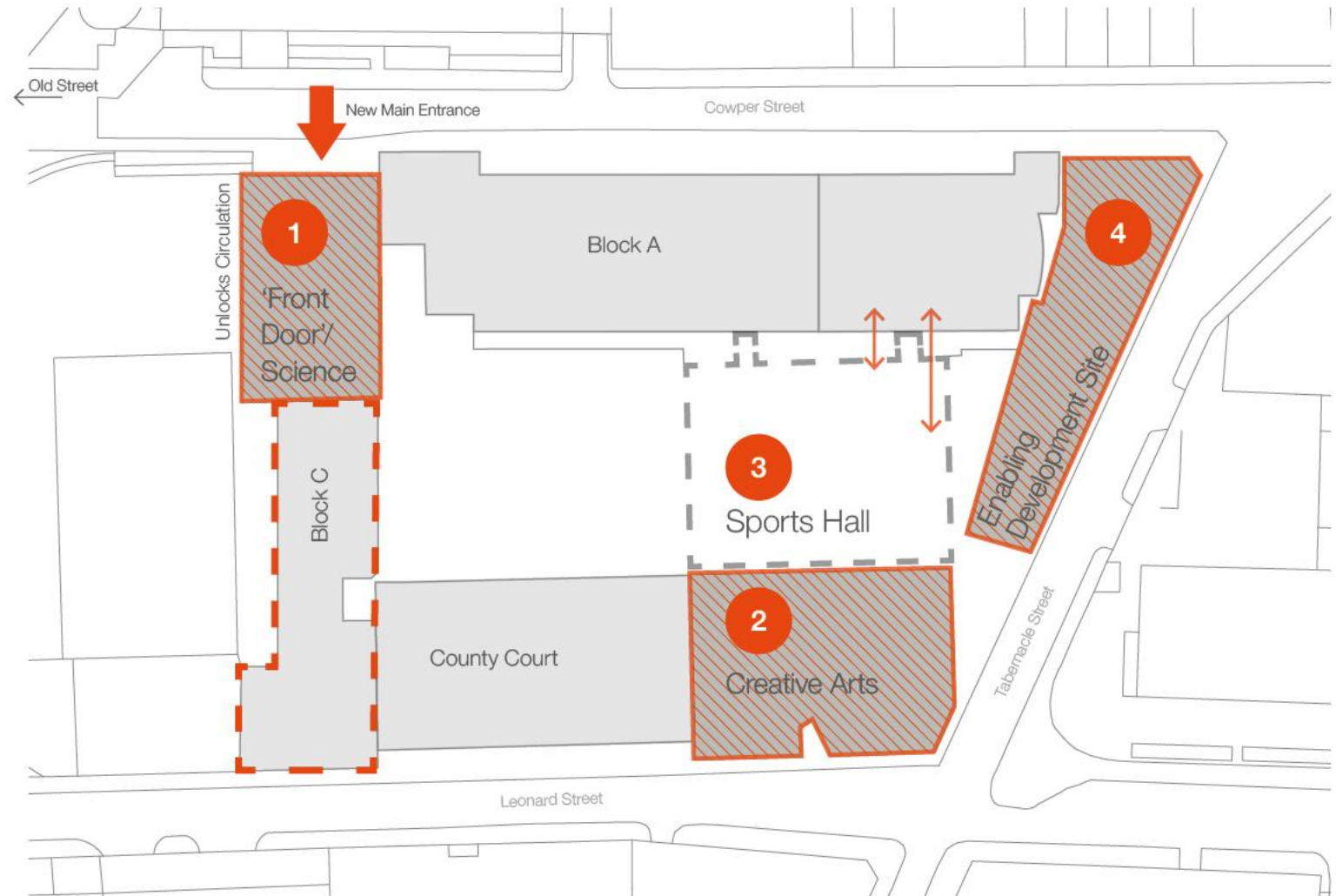




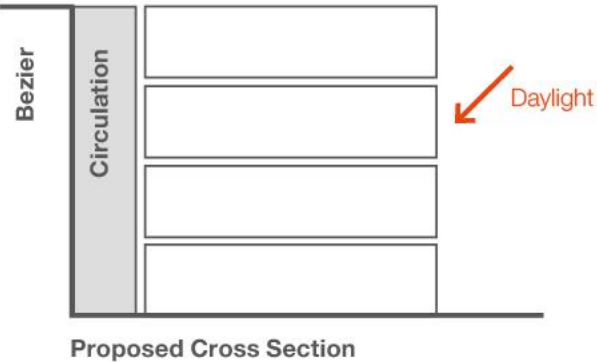
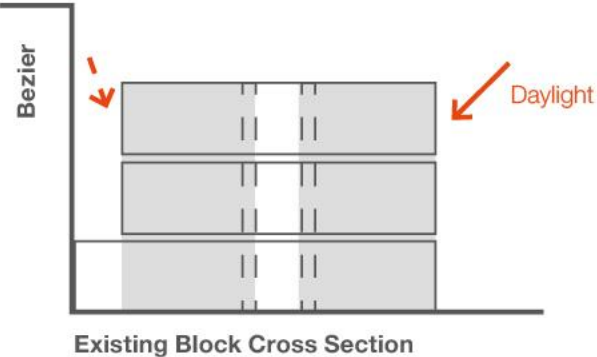
Masterplan

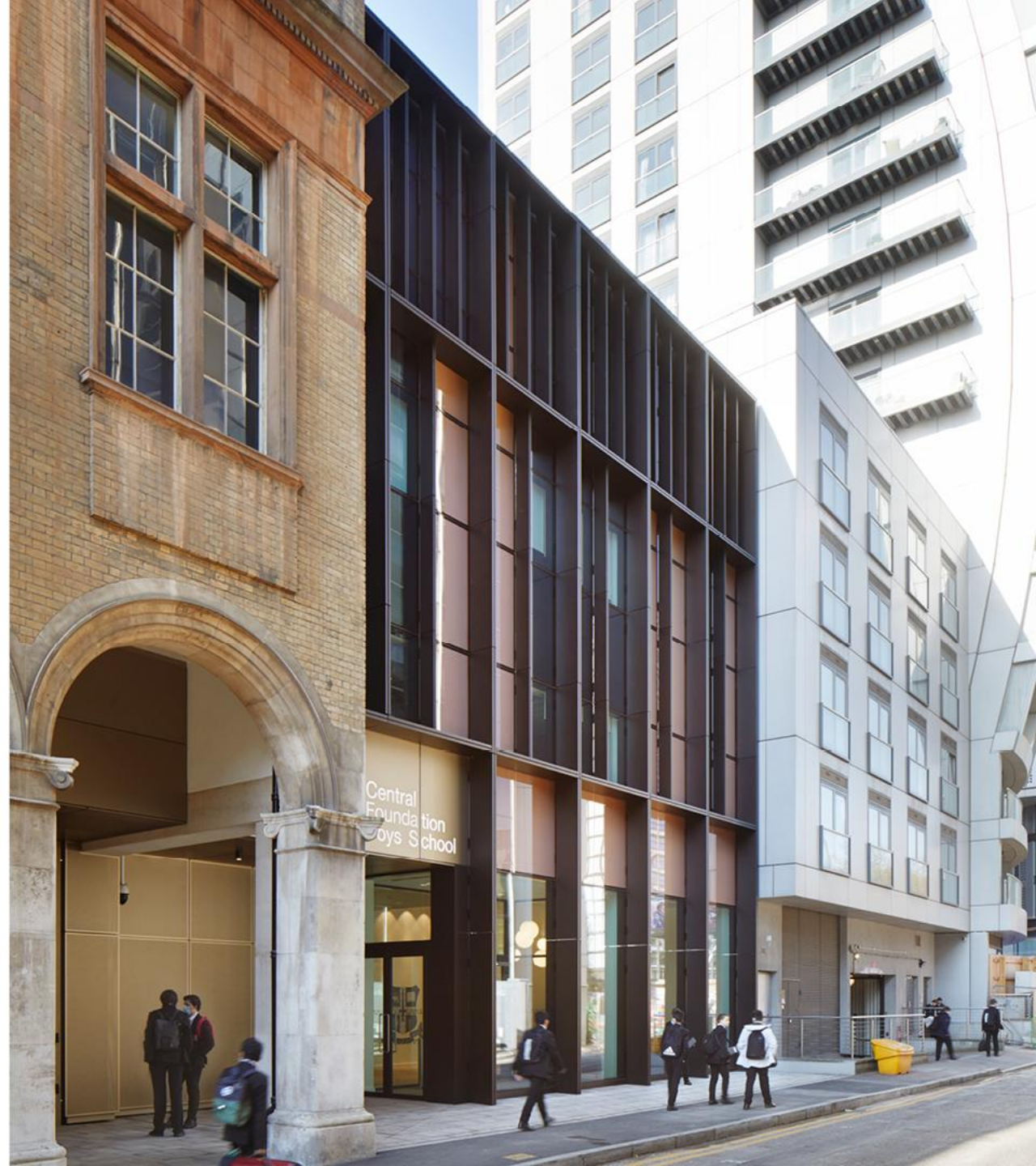
Overview

- 1 New Science Block**
Purpose-built heavily serviced spaces for science. Ground floor provides new 'front door'.
- 2 Creative Arts Block**
The existing Tabernacle makes fantastic space for Creative Arts.
- 3 Sports Hall in Courtyard**
Substantially sunken, with ancillary spaces provided in the basement of Block A.
- 4 Enabling Development Site**
Cross funding development comprising of eight storeys of commercial accommodation.



Existing Block B





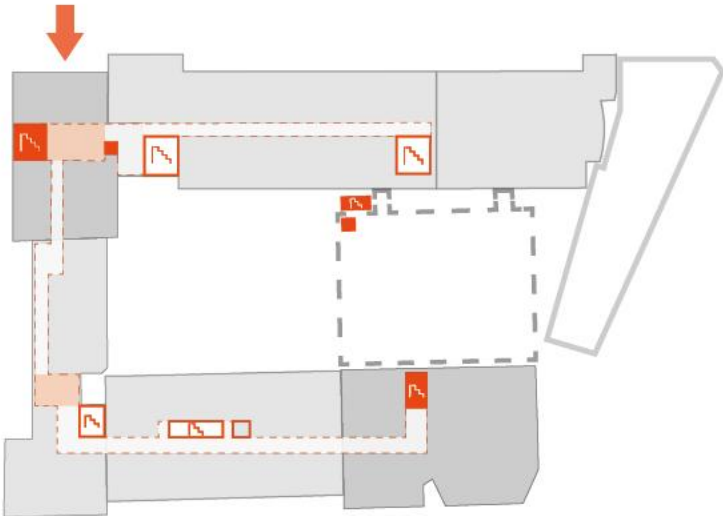
Existing Block C

17

level changes across the building

PSBP2

Amongst school buildings 'in the very worst condition'





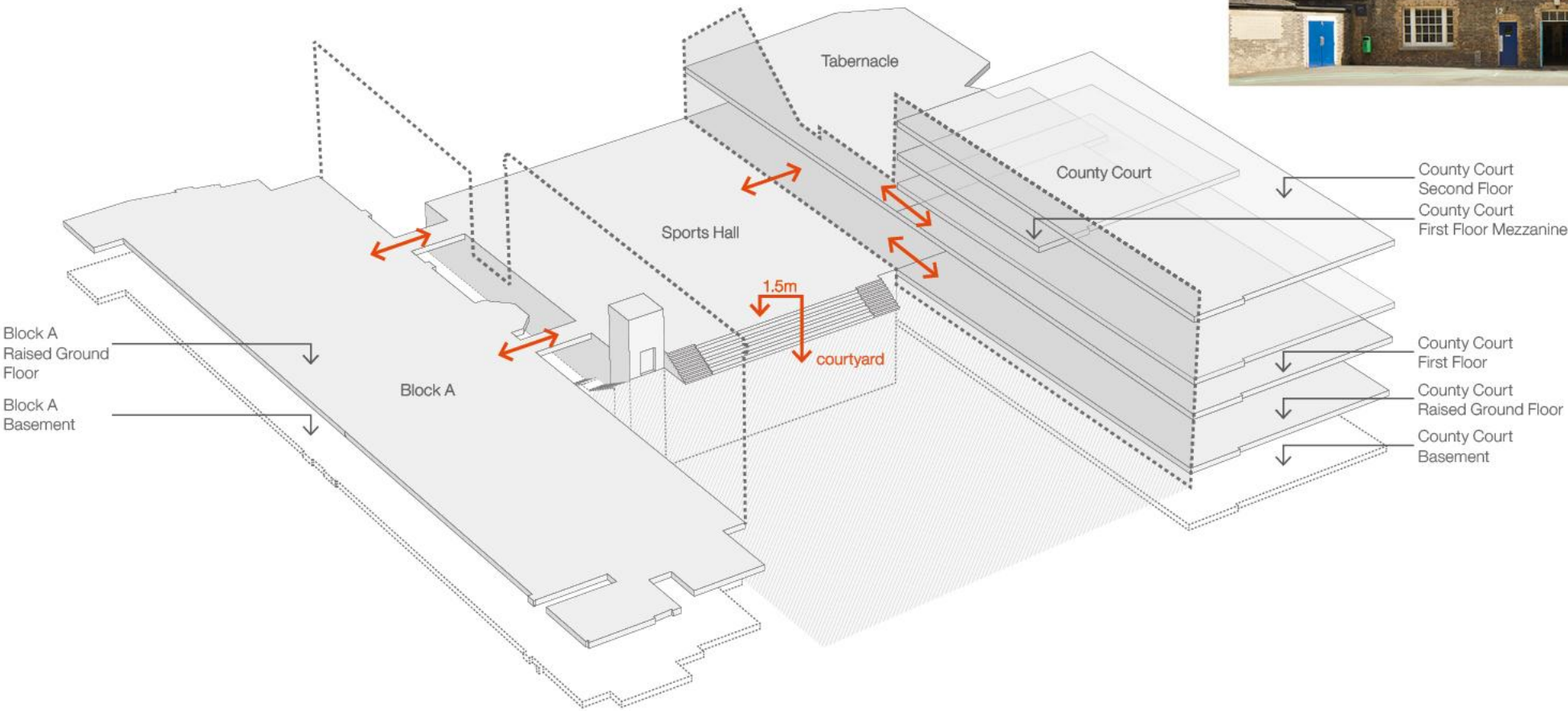
Existing Tabernacle



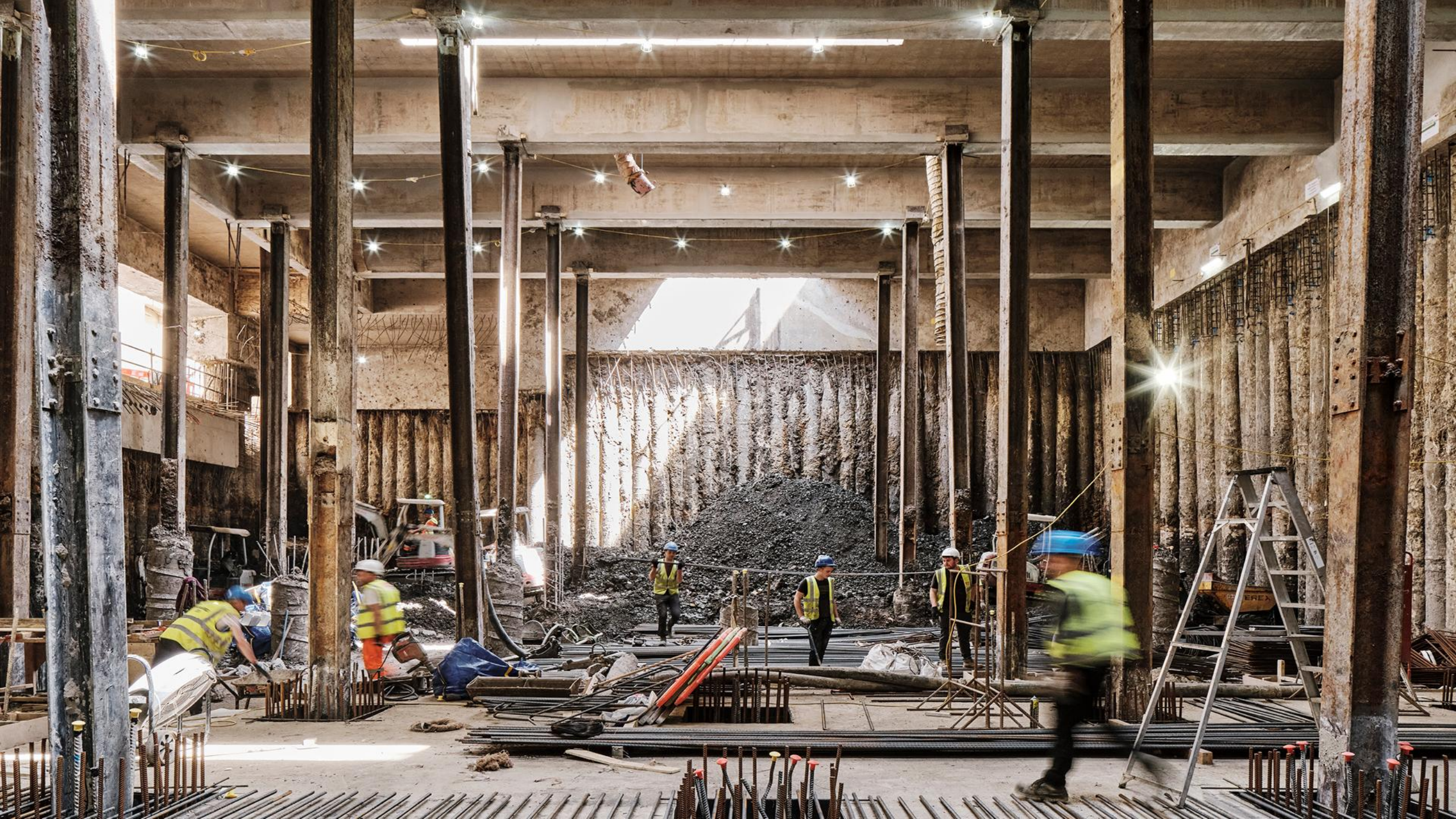


Accessibility

Sports Hall and Courtyard











Enabling Development

Cross Funding



Long-term Partnership Engagement



Long-term Partnership

Inclusivity Research



Taste



Function



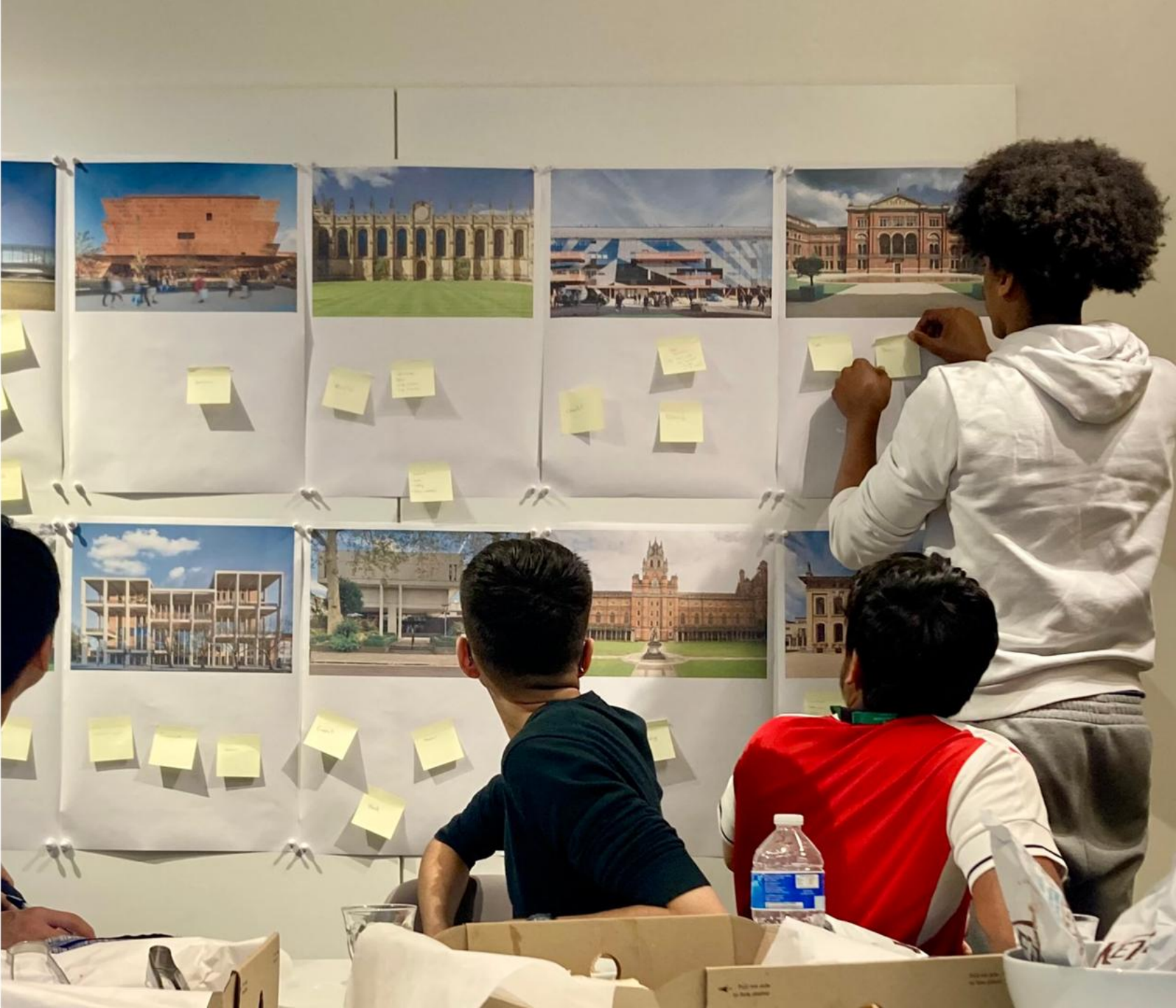
Comfort



Survey



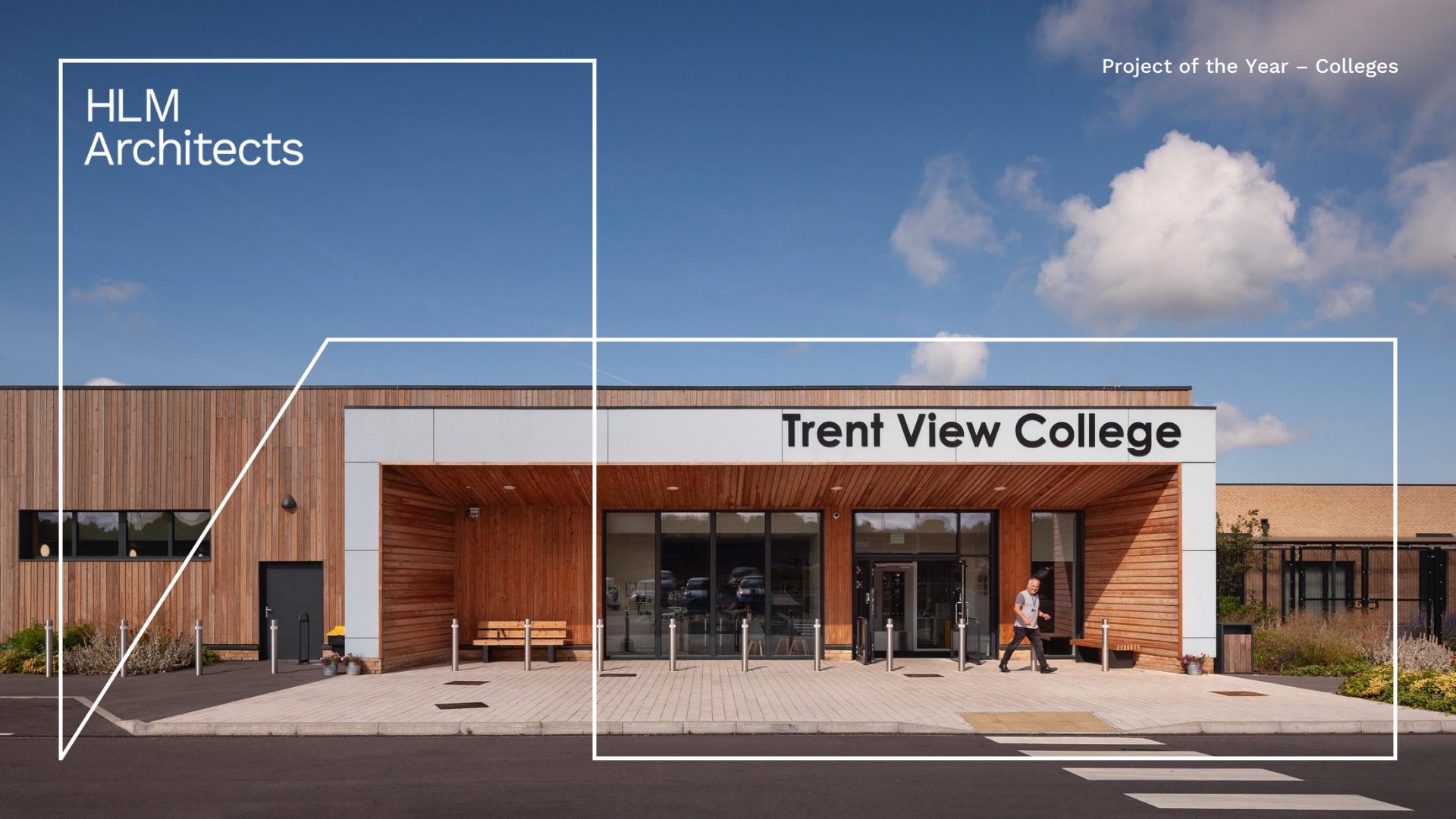
Focus Groups



HLM
Architects

Project of the Year – Colleges

Trent View College

A photograph of the exterior of Trent View College. The building features a modern design with a combination of light-colored wood cladding and white panels. A large glass entrance is visible, reflecting the sky and surrounding environment. A man is walking on the paved area in front of the entrance. The sky is blue with scattered white clouds. A white line graphic is overlaid on the left side of the image, forming a large 'L' shape that frames the text 'HLM Architects' and extends across the top of the building.

Wellspring Academy Trust's vision

Location: Scunthorpe, UK

Client: DFE

Completed: 2022

Area: 3,000 m²

Value: £11.3m







The brief

1. 60 place school for post-16 students people with PMLD, SLD and ASC
2. Students from challenging and underserved backgrounds.
3. Robust building designed to accommodate physical and dysregulated students.







First SEND school with a hydrotherapy pool designed to Passivhaus standards



A nurturing learning landscape



Entrance

External Dining

Main Hall

Car workshop

Classrooms

Canopies to building edge

Sprinkler Tanks

Sheltered Cycle Store

External classrooms with inclusive seating

Walk-through Poly-tunnel

Habitat area

Muga

John Leggott College Car Park

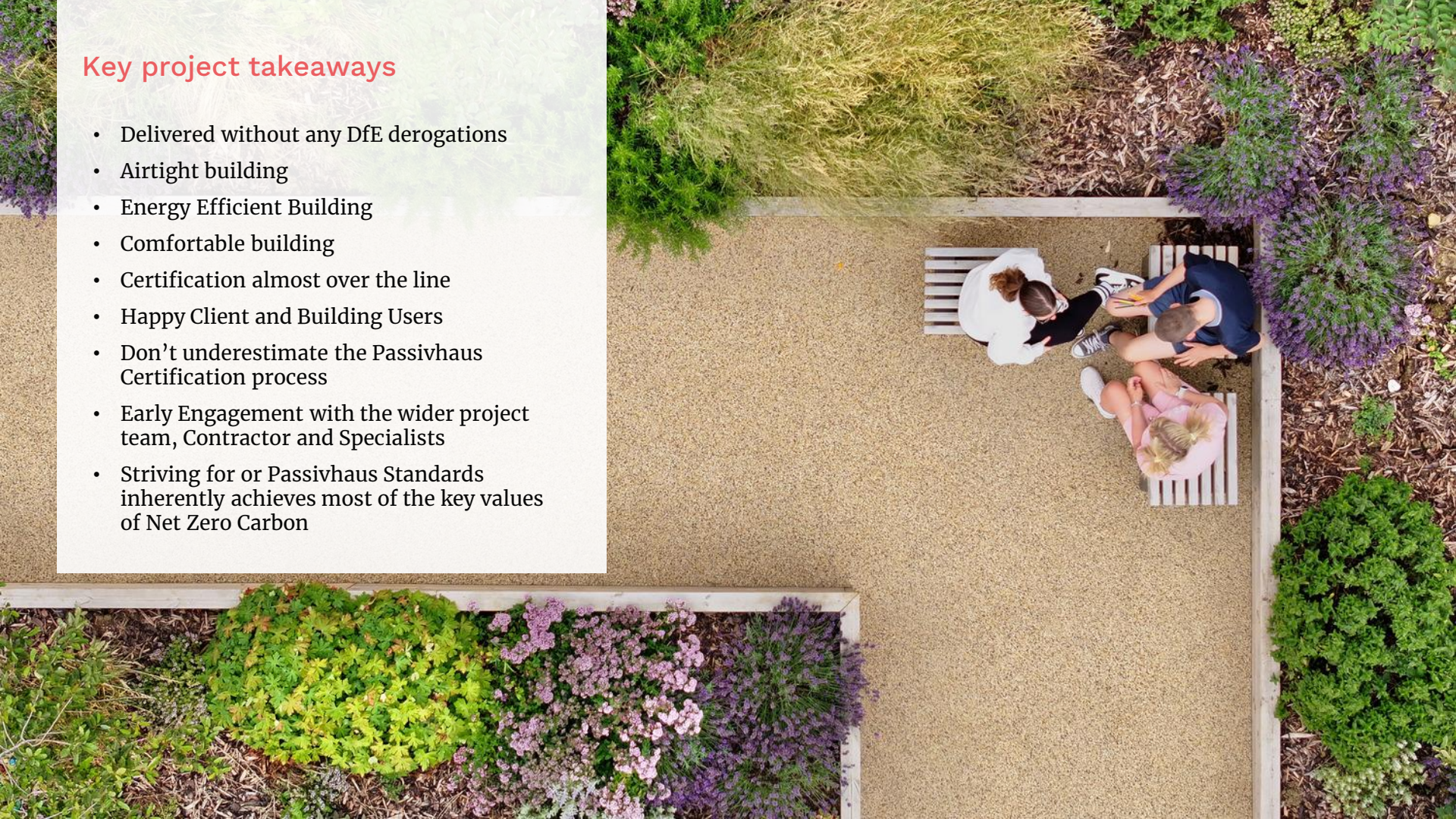
Teaching and Sensory Experience

Enriching outdoor learning through early involvement and reaching BNG targets.



Key project takeaways

- Delivered without any DfE derogations
- Airtight building
- Energy Efficient Building
- Comfortable building
- Certification almost over the line
- Happy Client and Building Users
- Don't underestimate the Passivhaus Certification process
- Early Engagement with the wider project team, Contractor and Specialists
- Striving for or Passivhaus Standards inherently achieves most of the key values of Net Zero Carbon



“We have this amazing new building and talented team in place to provide a nurturing space where our students can acquire vital life skills, engage in meaningful work and develop their routes toward independence. It will be life changing for the students attending.”.

Sarah Parker, Principal at Trent View College

“The innovation and ambition behind this project has set the standard for what SEND schools can, and should, be. I look forward to watching the impact of Trent View College on its students and the Scunthorpe community over the coming months and years..”

Mark Wilson, CEO at Wellspring Academy Trust



Thank you

HLM
Architects

National Manufacturing Institute Scotland (NMIS)



HLM
Architects

Project of the Year – Universities



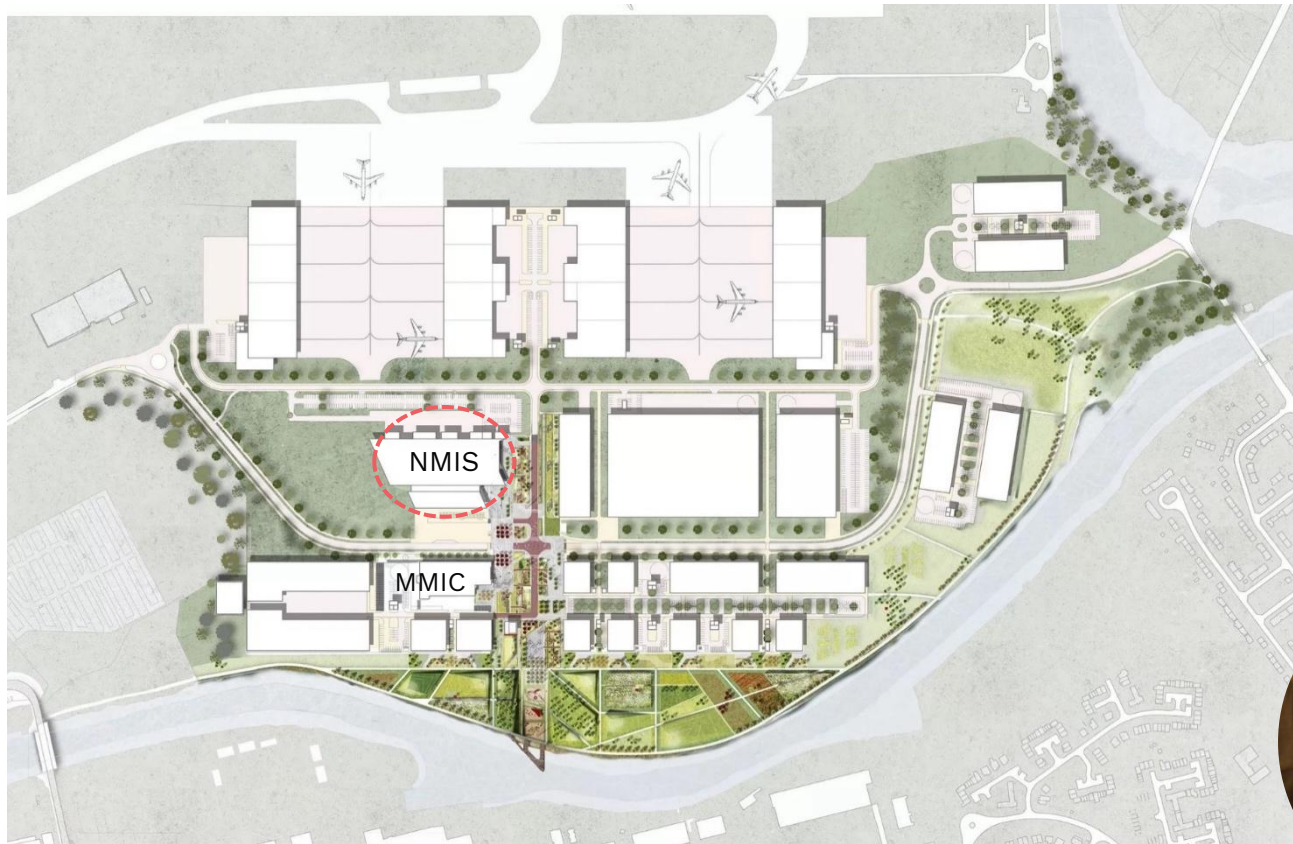
“The National Manufacturing Institute Scotland is an industry-led international centre of manufacturing expertise where research, industry and the public sector work together to transform skills, productivity and innovation to attract investment and make Scotland a global leader in advanced manufacturing.”

Scottish Government





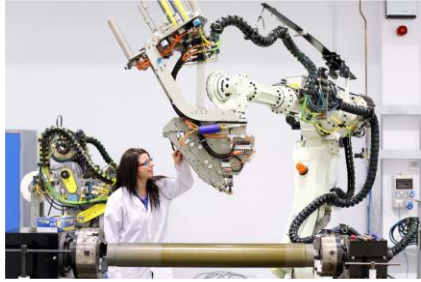
Advanced Manufacturing Innovation District Scotland (AMIDS)



3 components to
the project:



Four interconnected zones:



1. Digital Factory 2050

“Digital Factory 2050 will be a beacon for the regeneration of manufacturing.”



2. Innovation Collaboratory

“The innovation collaboratory will be a HUB for innovation in design and manufacture – an incubator for new tech-based.”



3. Manufacturing Skills Academy

“The manufacturing Skills Academy will support SAMRA – a Scotland-wide collaboration in skills and talent development for advanced manufacturing technologies.”

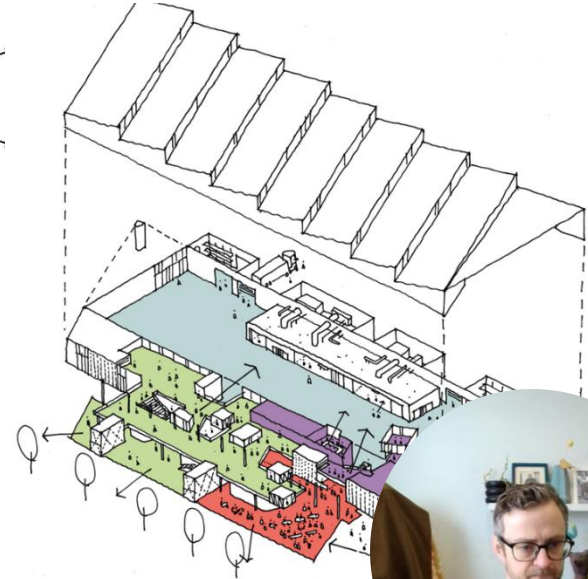
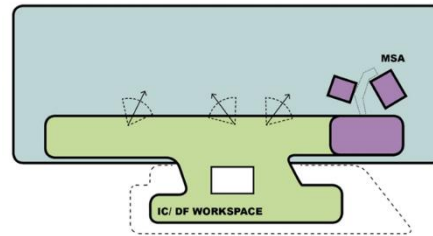
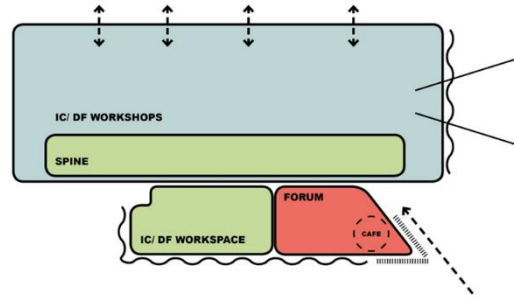
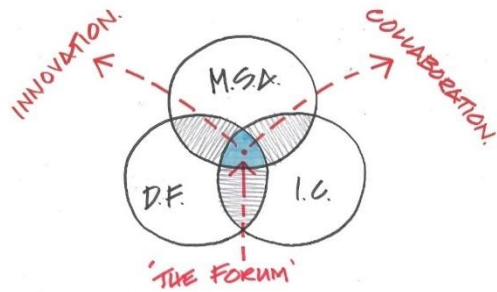
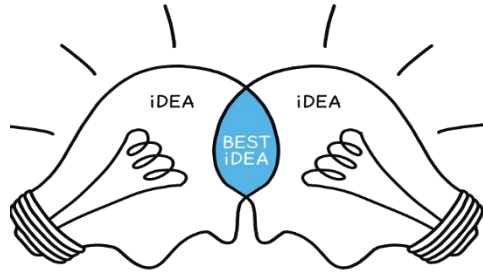


The Forum

“The forum area is the gateway for tenants and the wider innovation community to...”



This facility is about creating an open and collaborative environment where knowledge and creativity can be shared



Creating a “Sense of Place”

A Research Campus with a unique character and identity – experimentation and innovation on show within a landscaped setting adjacent to a major international airport.





86.9% BREEAM Outstanding Rating

EPC A+ -5.86kgCO₂/m²/a

1.56 Low form factor

1500m² Green roof, SUDS/rain gardens

50m² Internal green wall, tree planting

<55 kWh/m²/a

RIBA 2030 and LETI Net Zero Operational Energy Metrics

Including PV offset, target for office/ non-domestic buildings regulated and non-regulated energy based on TM54 and client installed equipment.

431,531 kWh/a

Gross Regulated Energy

1,388,796 kWh/a

Gross Operational Energy

Including client installed equipment, based on TM54 assessment

103 kWh/m² EUI (no PV offset) based on TM54 assessment

64 kWh/m² EUI (current PV offset) based on TM54 assessment

41 kWh/m² EUI (with full PV offset) based on TM54 assessment



391,335 kg CO₂/a

CO₂ Reduction

837,829 kWh/a

Full PV Yield (once all designed PV commissioned)

Based on 4,845m²/ 2,603 panels (JA Solar JAM60S20-380/MR)

14 kWh/m²/a Heating/cooling demand

1,600 (521kW) Rooftop PV with a further 340kW designed and funded

57% Pre-manufactured value (in line with RIBA methodology)

700T+ Carbon reduction through use of glulam and CLT

843 kgCO₂/m² 'Up front' embodied carbon (A1-A5)

1,048 kgCO₂/m² Embodied Carbon/ Whole Life Carbon

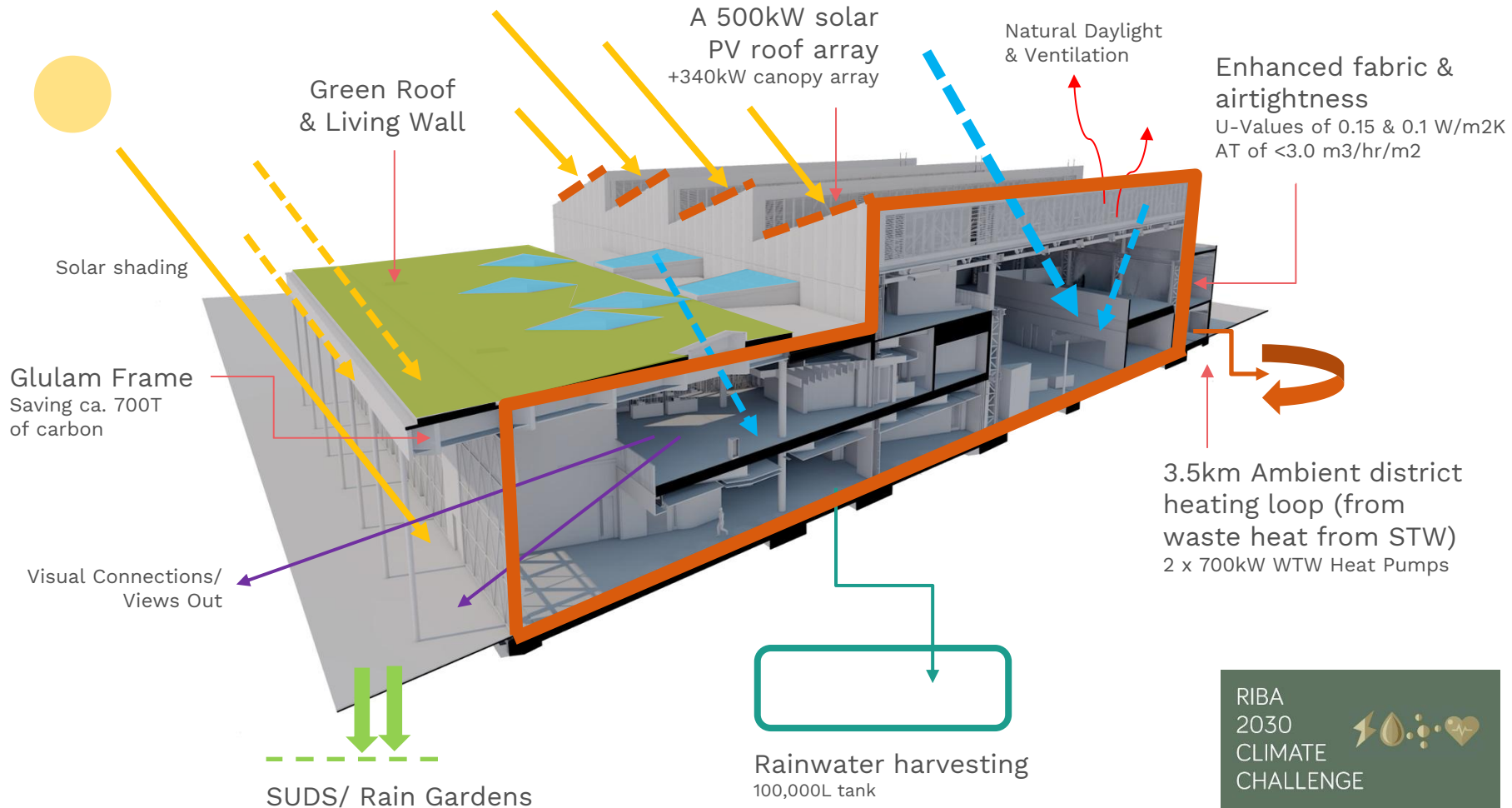
Based on A1-A5, B1-B5 and C1-C4 / stage 4 design calculation

100,000 L

Rainwater Harvesting

Low water usage, low flow fittings

**Net Zero
Regulated
Energy**



Key Facts

Standardisation

Grids | Digital factory modules | cladding modules

Repetition

Building form | Structural frame | modular elements

Modularisation

Meeting rooms | teaching pods

Offsite Fabrication

Meeting rooms | Project pods | MSA teaching pods |
Glulam diagrid | CLT Roof | M&E Services

Designing to Material Dimensions

Cladding panels | Glazed panels



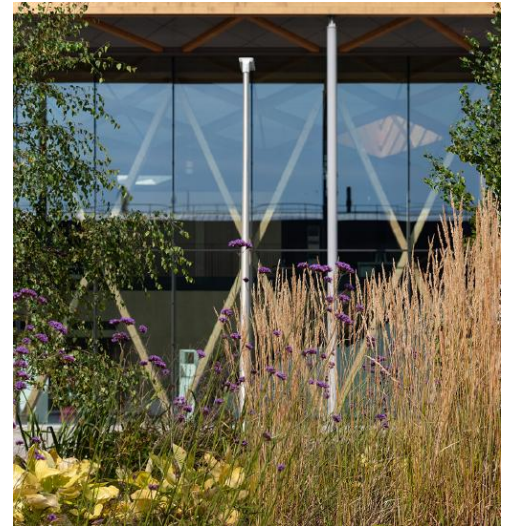
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MMC Categories Used

1. Pre-manufacturing - 3D Primary Structural
2. Pre-manufacturing - 2D Primary Structural
3. Pre-manufacturing components - non-systemised primary structure
4. -
5. Pre-manufacturing - non-structural assemblies/sub- assemblies
6. Traditional building product-led site labour reduction/ productivity improvements
7. Site process-led labour reduction/productivity/ assurance improvements

Sustainability Outcomes:

- University's First Carbon Neutral/ Net Zero (Regulated) Energy Building
- BREEAM Outstanding
- RIBA Sustainable Outcomes



Outcomes:

- Exceeded expectations
- Helped deliver more than **150** research & development projects for **142** different customers and partners
- Upskilled & reskilled more than **1,300 people**
- **80 graduate trainees** in Scottish manufacturing
- Supported more than **100 internships**

“This flagship facility – which has sustainability at its heart – is a unique part of Scotland’s manufacturing innovation ecosystem. It will play a leading role in developing advanced manufacturing, industry 4.0 capability and cross-sectoral research and innovation activity in Scotland, the UK and beyond.”

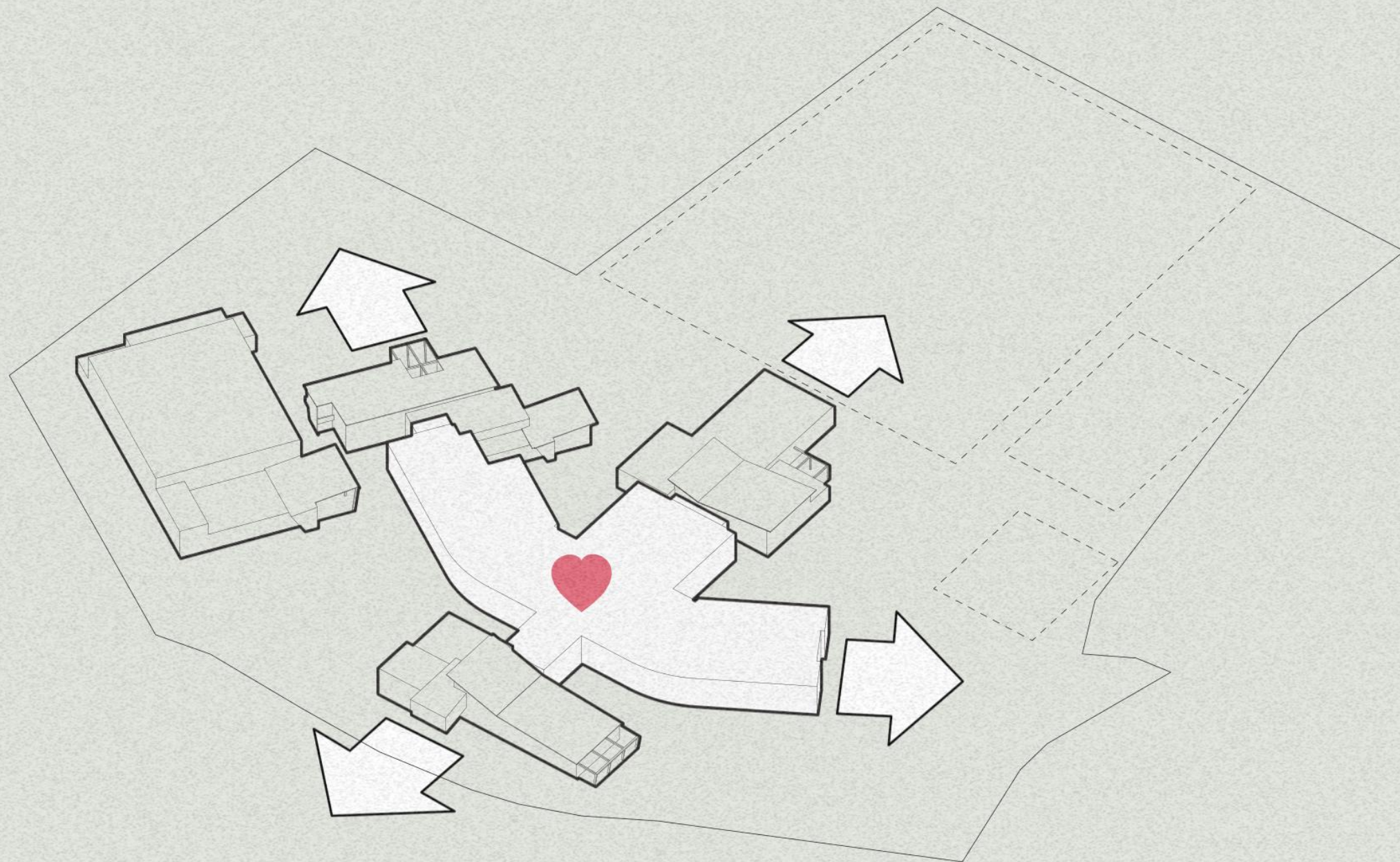
Professor Sir Jim McDonald,
Principal & Vice-Chancellor of the University
of Strathclyde, & Chair of NMIS Board













Remind us
of who we are
and where we
came from.



TGHS



"...envisioned to
combine classic
Caribbean with a
modern flair."



Teejhan Hansraj
Danielle Waugh
Jazmin Robinson
Juarez Richards
Abigail Rose



Instead of having
a plain old tree
we could have a
palm tree in the
middle



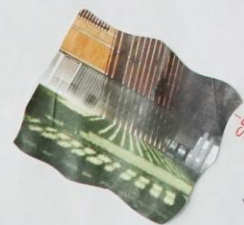
garden



Inspiration
for a
covered
area



old Caymanian
homes



space to
feel free



Interact
with
others



Seating area
inspiration



outdoor social
and play areas

CAYMANIAN FEEL!







GUEST				HOME			
74	0.0	PERIOD 4		72			
TEAM FOULS	TIME OUTS	PLAYER	FOUL	TIME OUTS	TEAM FOULS		
5	0	10	2	1	5		

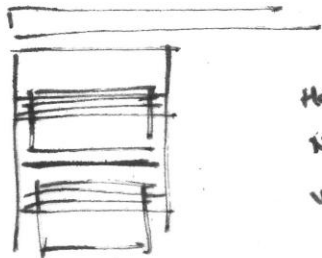












HORIZONTAL
vs
VERTICAL
view then + values.



OBTAIN view.
'CHECKS'

