

### The Grafton Centre Members Briefing

22388 - 8037 - 00 | May 2023

Pioneer

Macgregor Smith

### AG ANGELO GORDON

Who is the Driving Force Behind the Vision 1.0

# Pioneer

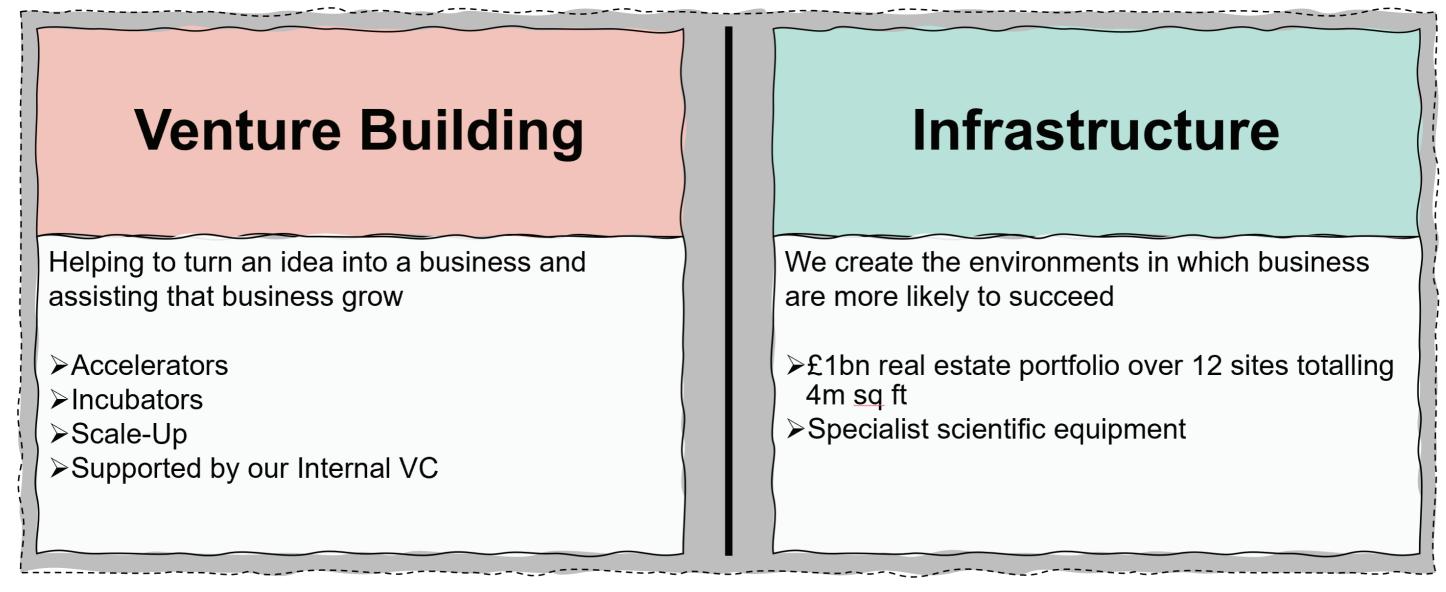
# Specialist Life Sciences Infrastructure & Venture Building Company

Focused on creating ecosystems that help companies accelerate cures for Human & Planetary Health





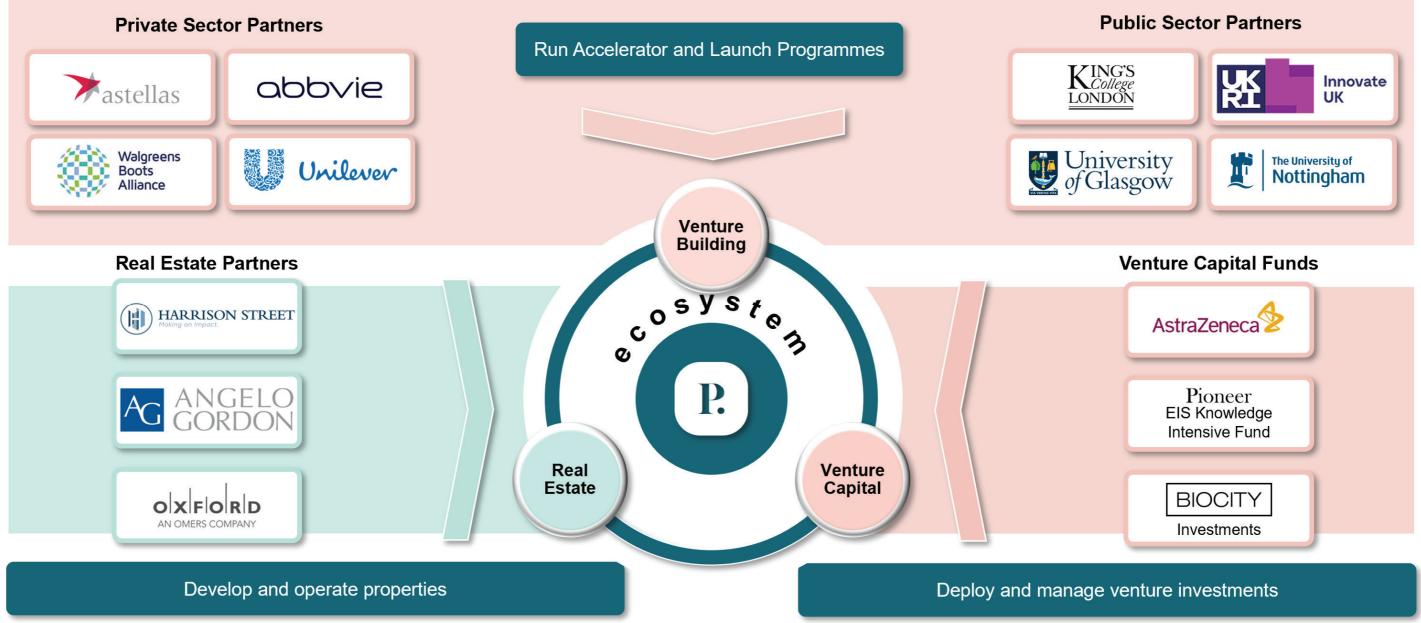
#### 1.1 Our Company



'Europe's only vertically integrated science and tech specialist'

# Pioneer

#### 1.2 Pioneer Group's Unique Approach



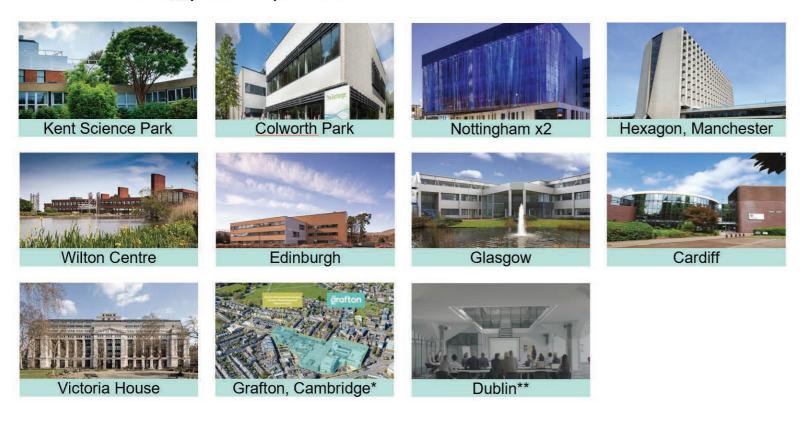
### Corstorphine & Wright

# Pioneer

### 1.3 UK National Coverage

Pioneer Group is one of the UK's largest innovation ecosystem for the science and technology industries and now also operates in Ireland.

- c. £1bn portfolio
- 12 integrated locations totalling 4m sq ft
- Further 4m sq ft of expansion



\* Subject to conversion

\*\* Incubator only



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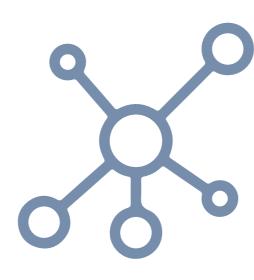
## Pioneer

#### 1.4 Shared Objectives



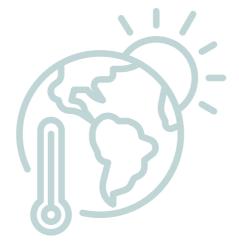
#### COMMUNITY

The development will foster a sense of **community**; delivering wellbeing for existing and future members of the community through positive interaction



#### CONNECTIVITY

Located in a highly sustainable location where people can benefit from high **connectivity** to jobs and services - where infrastructure is upgraded to match the pace of development



#### CLIMATE

Retaining **embodied carbon** and delivering a high-quality **sustainable** development with imaginative landscaping and innovative approaches to transport, energy and waste

### Corstorphine & Wright



### **CHARACTER**

Responding to **local character** and facilitating greater architectural quality which allows the public to see into the building whilsy recognising and prioritising the public realm.

### 1.5 Site Location





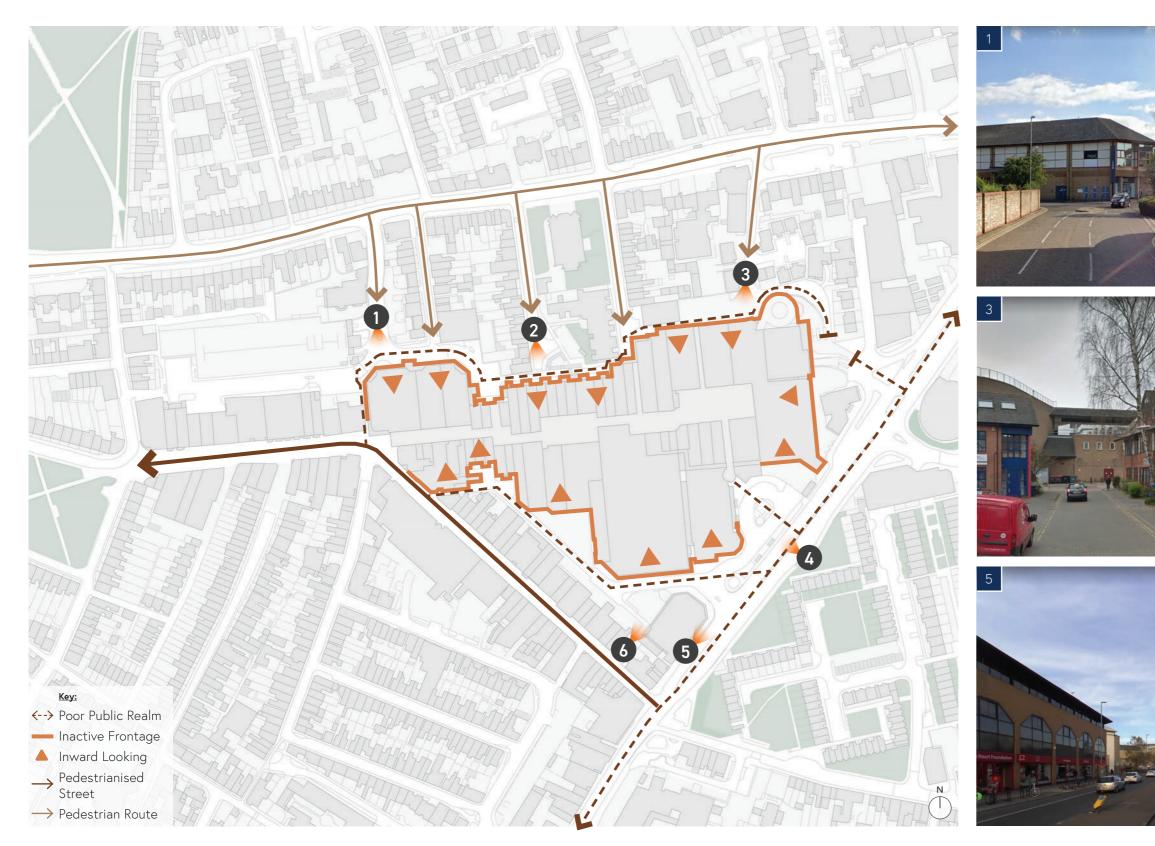
#### Retail Impact Assessment 1.6

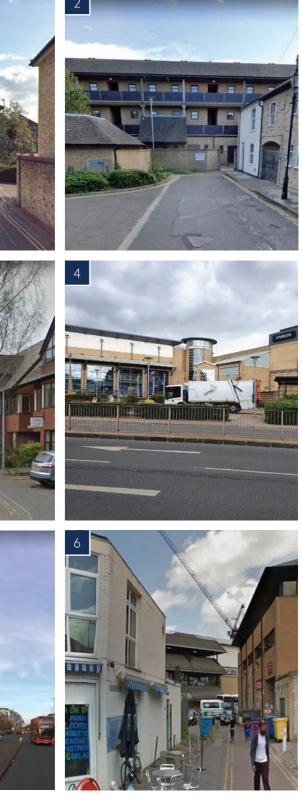


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Grafton Centre Existing Condition

### 1.7 The Existing Grafton Centre



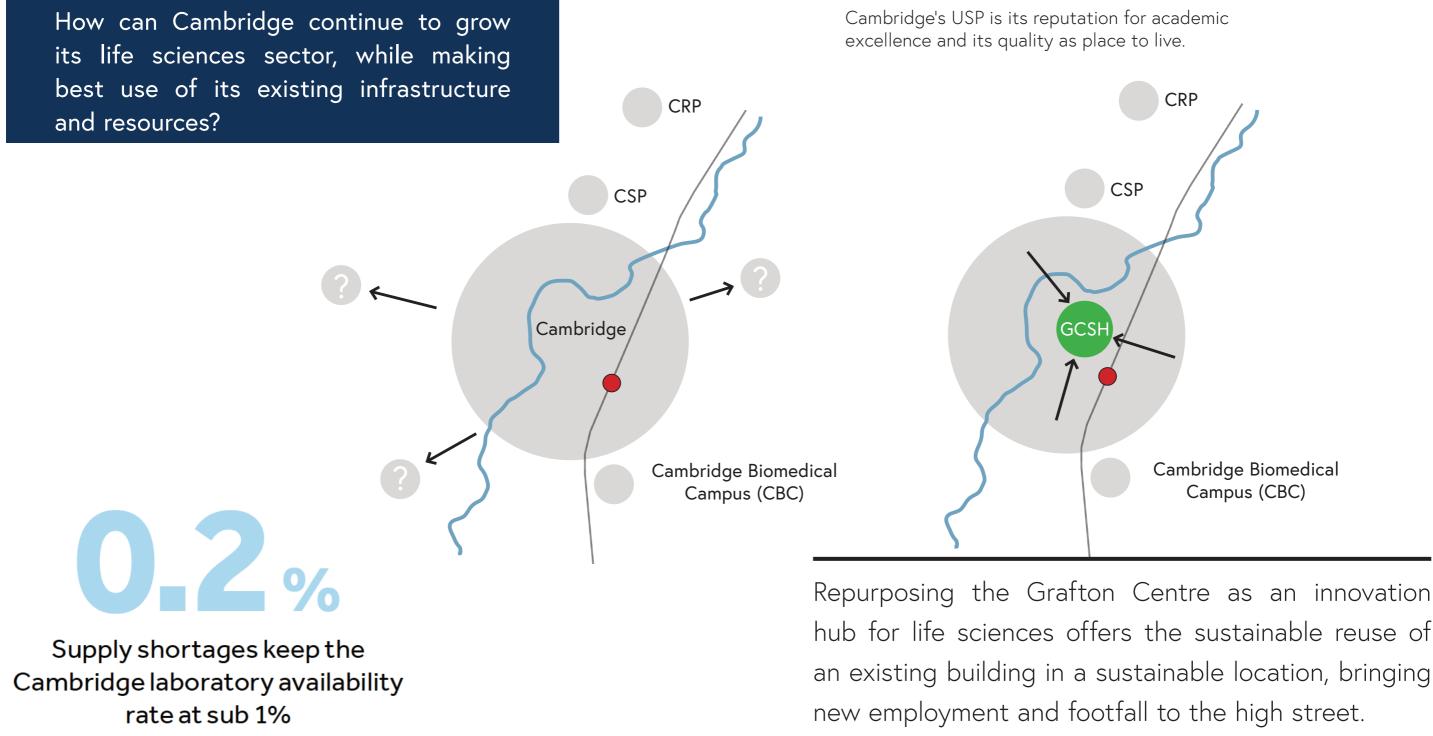


### 1.8 Enhancing Permeability and Public Realm



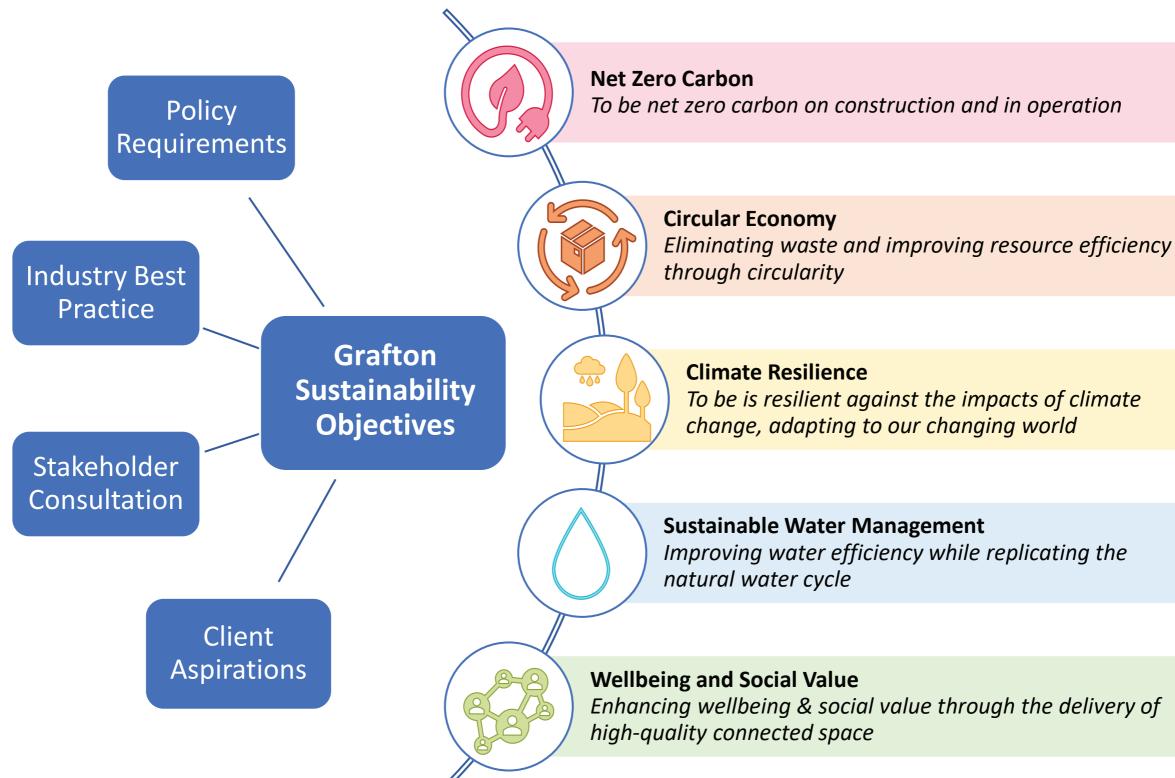
#### 1.9 Why Life Sciences Use?

Benefits of a Town Centre Location

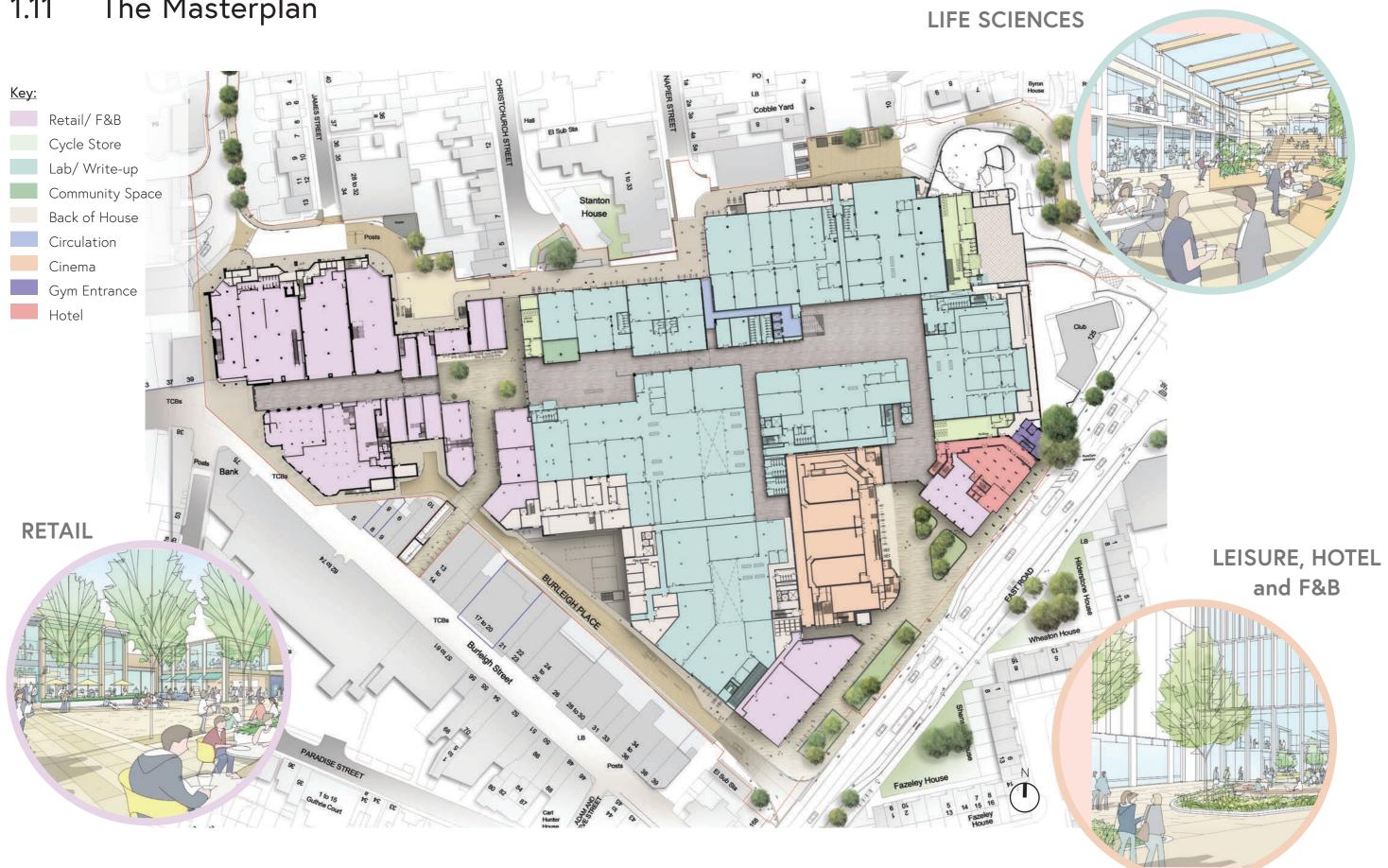


(Reference : Bidwells Arc Market Data Book Jan 2023)

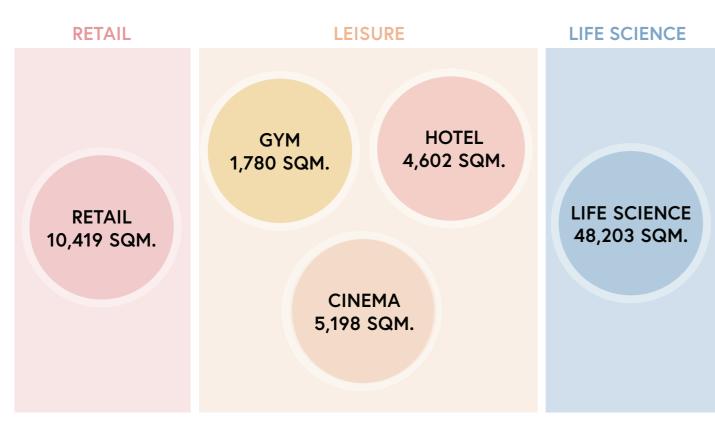
#### 1.10 Sustainability Framework



#### The Masterplan 1.11

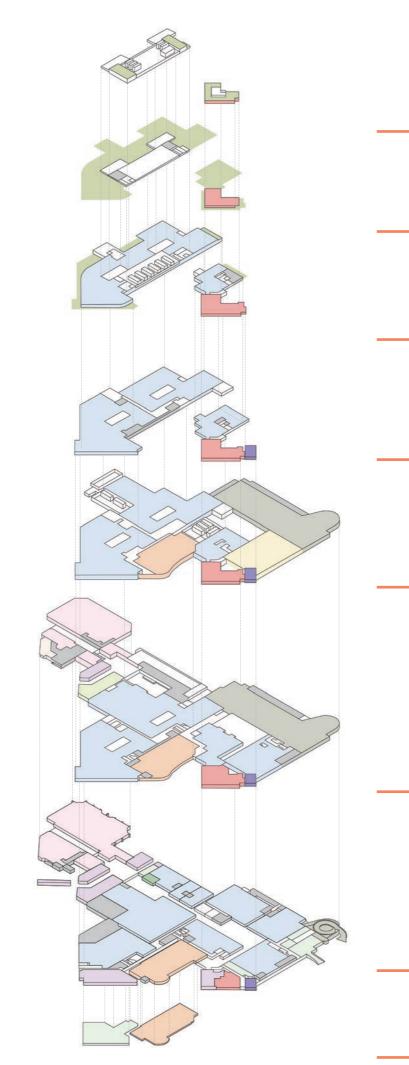






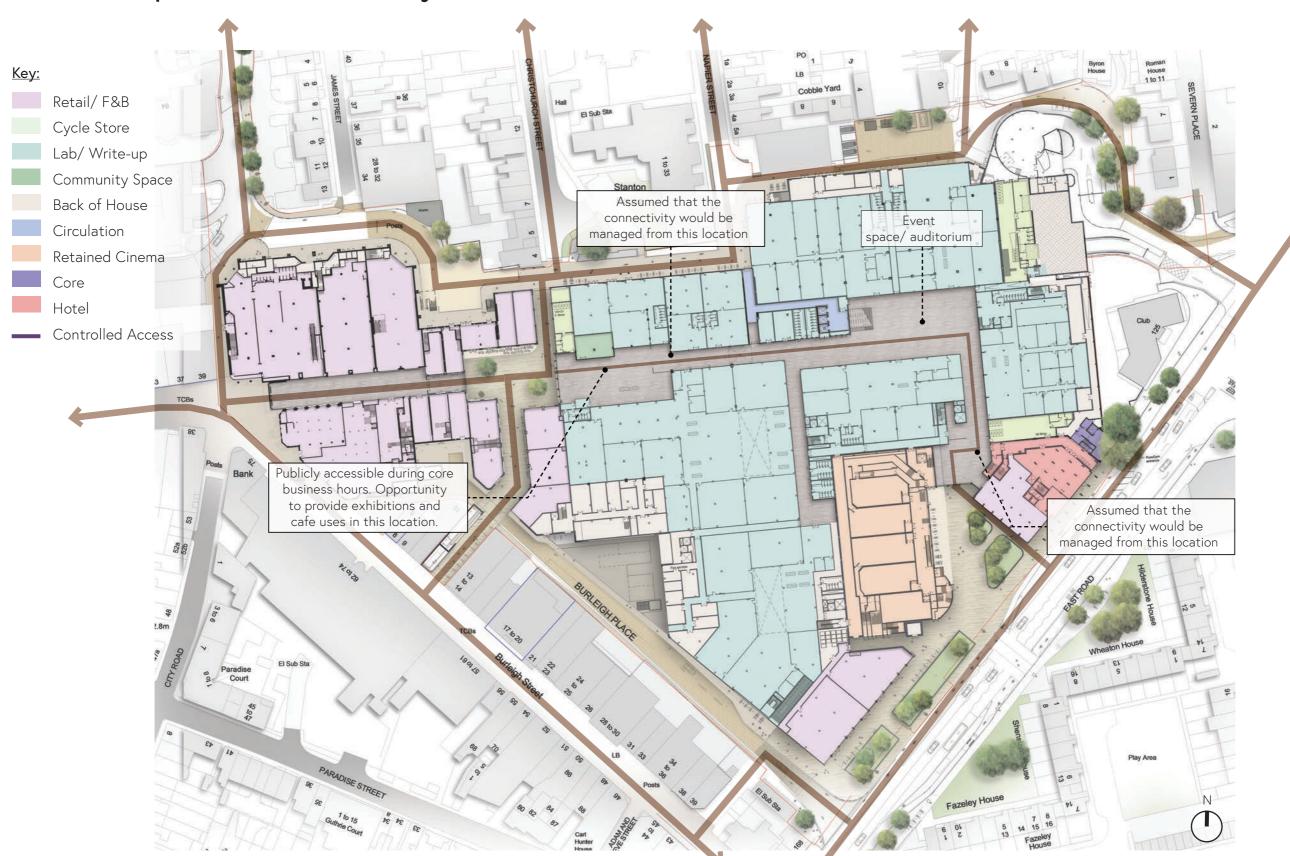
\*New floor space over and above existing and consented is 10,000 sqm. Consented Hotel Abbeygate House











### 1.13 Proposed Permeability

### 1.14 Landscape Design Principles

In collaboration with Corstorphine and Wright architects, Macgregor Smith developed the initial project brief to encompass a series of fundamental design aims with the overall objective of delivering a high-quality and multifunctional landscape strategy. By developing a concept which considers the combined internal and external user experience, the landscape proposals seek to compliment the architecture to provide an exciting, re-imagined Grafton Centre. The following 6 design principles have been used to shape the emerging landscape proposals:

1. Make a PLACE, a destination to attract people into the Kite area;

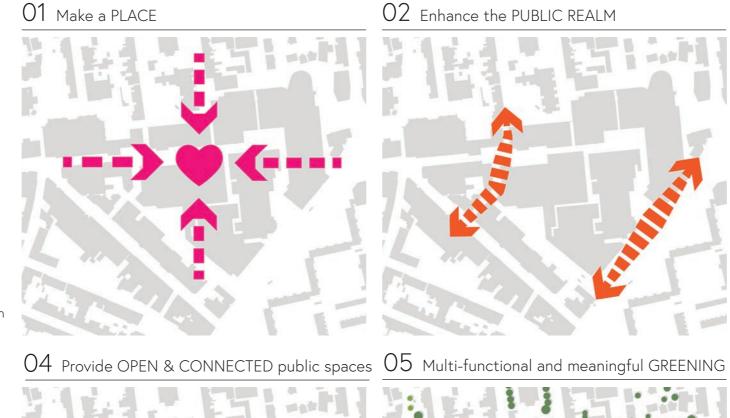
2. Enhance the PUBLIC REALM around the Grafton Centre and reinforce a spatial hierarchy to improve the pedestrian environment;

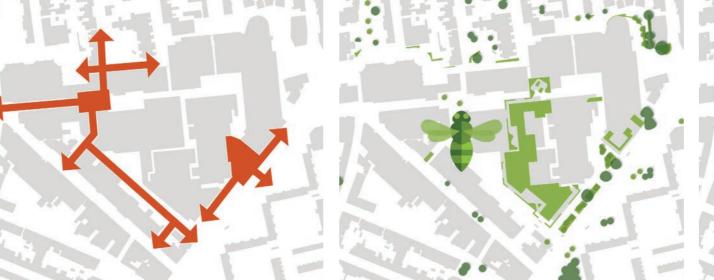
3. Support SUSTAINABLE forms of transport by promoting walking and cycling and creating enhanced routes around and through the Grafton Centre;

4. Address the closed nature of the Site by providing new spaces that are OPEN & CONNECTED to the adjacent public realm;

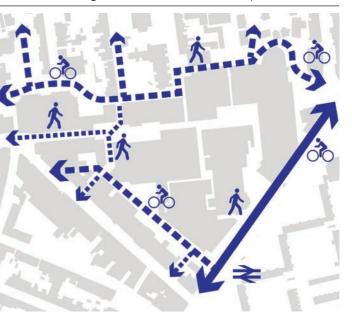
5. Develop a multi-functional landscape strategy which includes meaningful GREENING and appropriate plant selection to support local biodiversity and provide biophilic external and internal amenity spaces which promote WELL-BEING through access to nature;

6. Create RESILIENT landscapes in the face of the Climate Emergency through integrated sustainable drainage systems, efficient water usage and urban heat resilience.





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O3 Encourage SUSTAINABLE transport

06 Create RESILIENT landscapes



#### 1.15 Cycle Strategy

The diagram adjacent sets out the cycle provision and location in and around the scheme. In summary the proposed scheme looks to provide:

External cycle storage is of high importance locally, with existing stands and stands on surrounding streets like Burleigh Street well used. The proposed scheme looks to provide 352 external cycle spaces, with 60 of these spaces within the S278 works.

These spaces will be provided in the form of stainless steel Sheffield cycle stands and half stands, which are the preferred means of external cycle storage of Cambridge City Council.

A tapping rail will be fitted to the first and last stand for rows of cycle parking to minimise potential hazards for partially sighted pedestrians.

Over 5% of the spaces are allocated as non-standard cycle provision, a total of 20 non-standard external cycle spaces. Here 2m spacing and 3m bay length (length of cycle) is accommodated, with opportunity for a half size cycle stand.

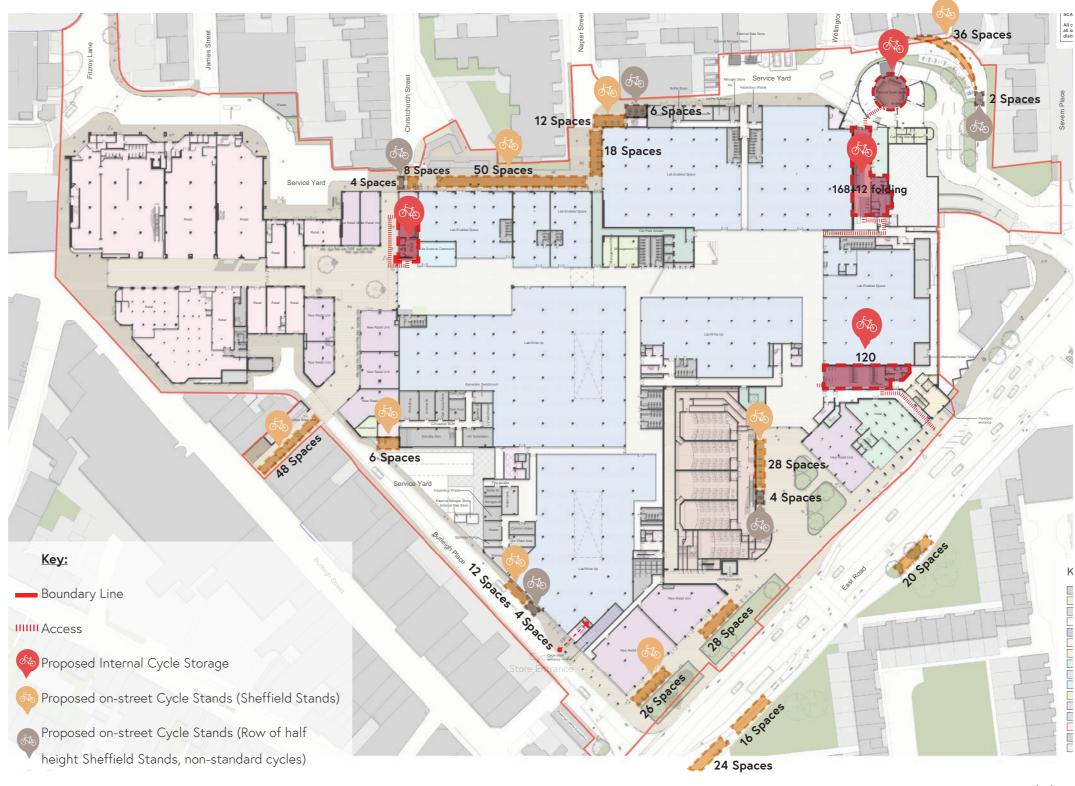
Internal Life Sciences provision = 820\* plus 60 folding bike lockers

\* Based on a life science occupancy of 2161 people, please refer to accompanying note that sets out the occupancy rationale.

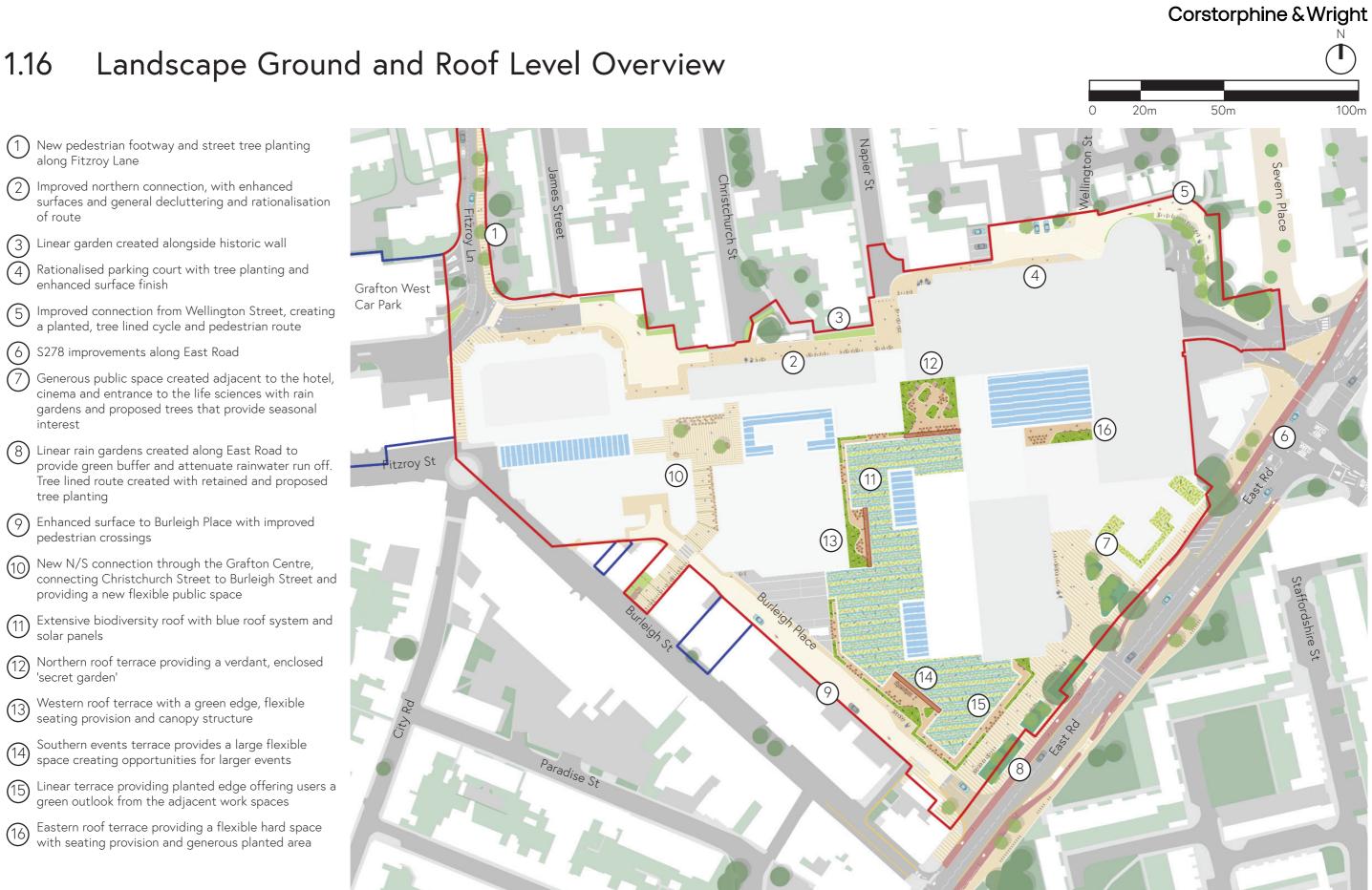
\*\* Stainless Steel Sheffield Cycle Stand (as per LA preference)



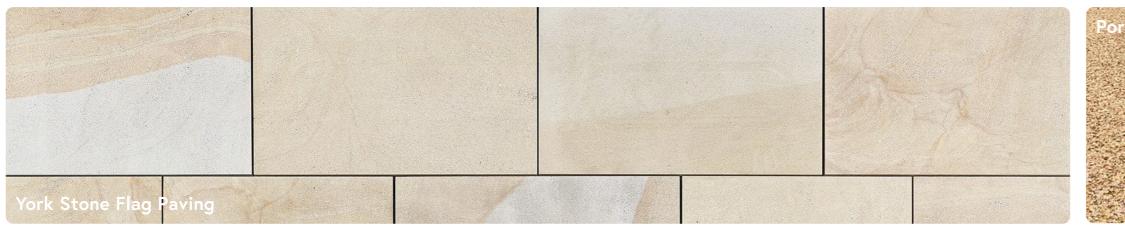
Basement



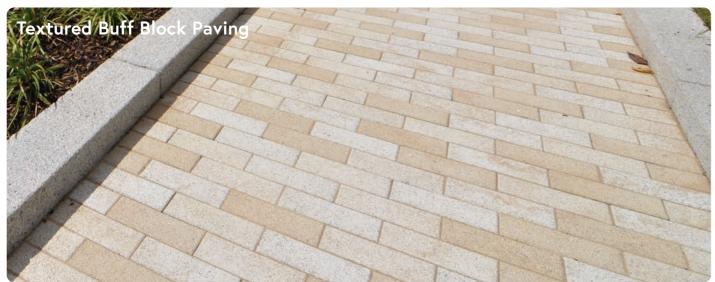
Ground Floor



### 1.17 Landscape Strategies - Materials









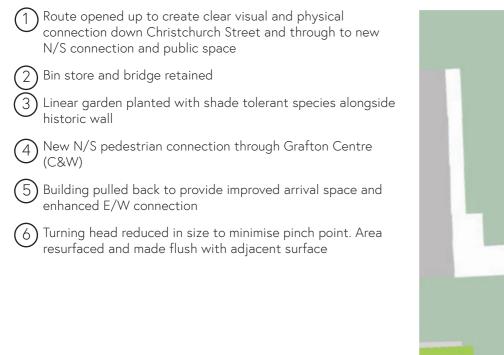


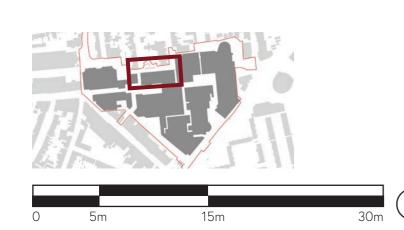
### 1.18 Fitzroy Lane Existing





### 1.19 Fitzroy Lane Proposed







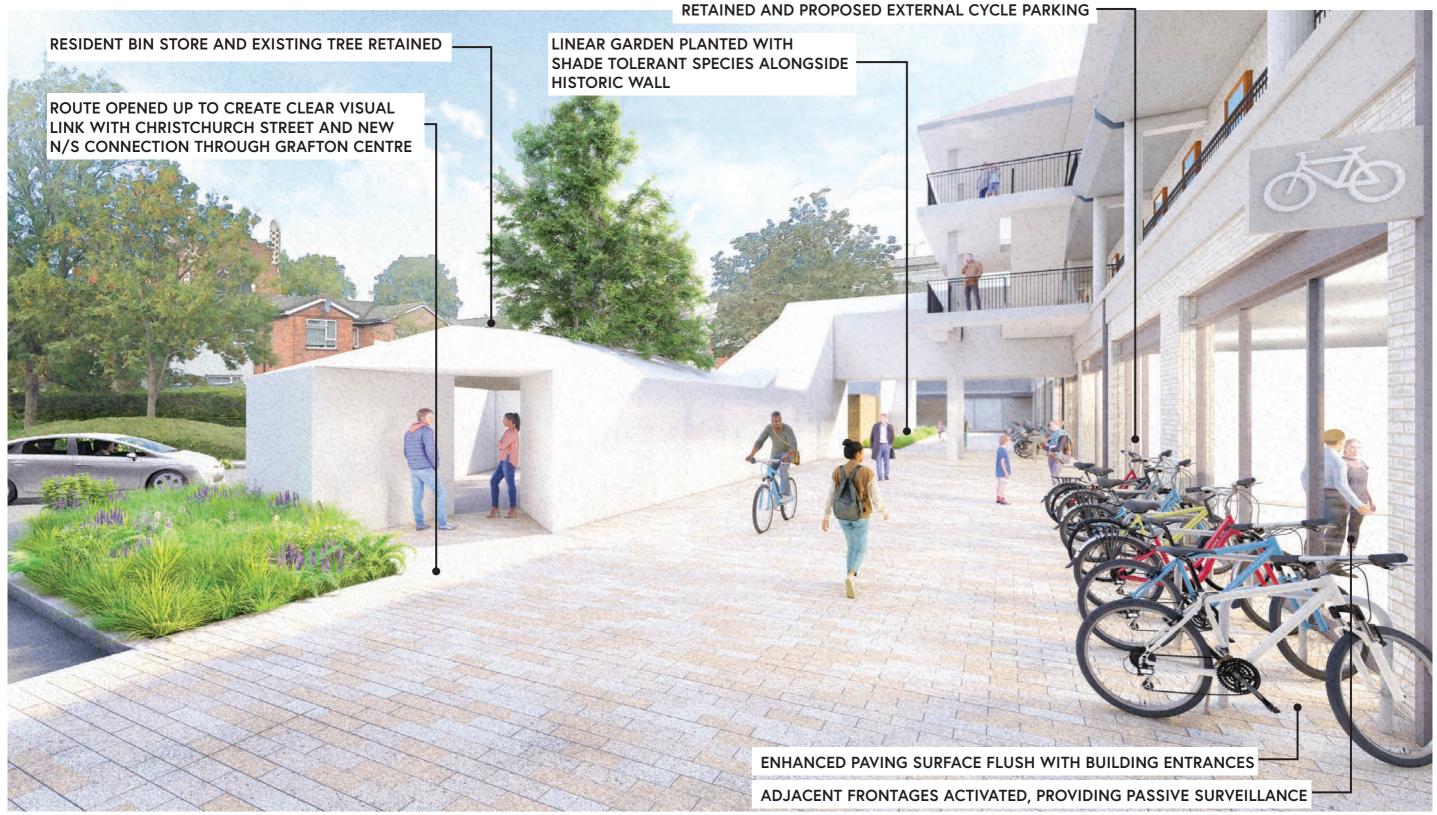
### 1.20 Christchurch Lane Overview

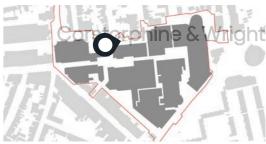


### 1.21 Christchurch Lane Existing

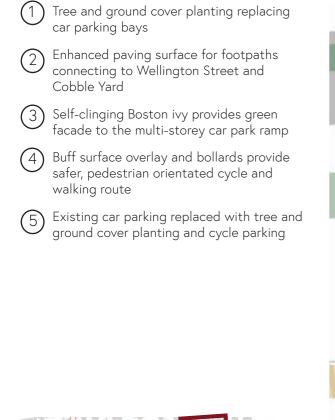


### 1.22 Christchurch Lane Proposed





### 1.23 Wellington Street Overview





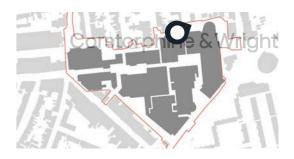
15m

5m

0

### 1.24 Wellington Street Existing

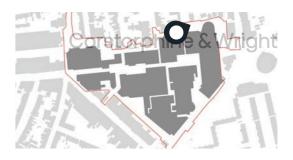




#### 1.25 Wellington Street Proposed



SURFACE ENHANCEMENT TO SLOW VEHICLES AND FACILITATE PEDESTRIAN MOVEMENT



#### ENHANCED AND DECLUTTERED FOOTPATH AND ARRIVAL THRESHOLD

### 1.26 East Road Overview

- Arrival courtyard with seating provision adjacent to rain gardens and tree planting
   Series of rain gardens attenuate rainwater run off from road, while providing green buffer between pedestrians and traffic
   Areas of seating and cycle parking set adjacent to rain garden planters
   Improvements to cycle ways, bus stops and pedestrian crossings as part of \$278 changes
- $\overline{(5)}$  Trees in hard constructed tree pit provide green threshold to Burleigh Place
- (6) Cafe seating adjacent to F&B units

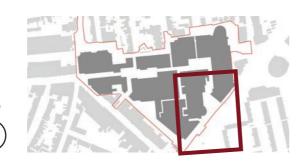
Grafton Centre

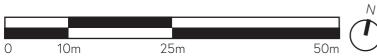
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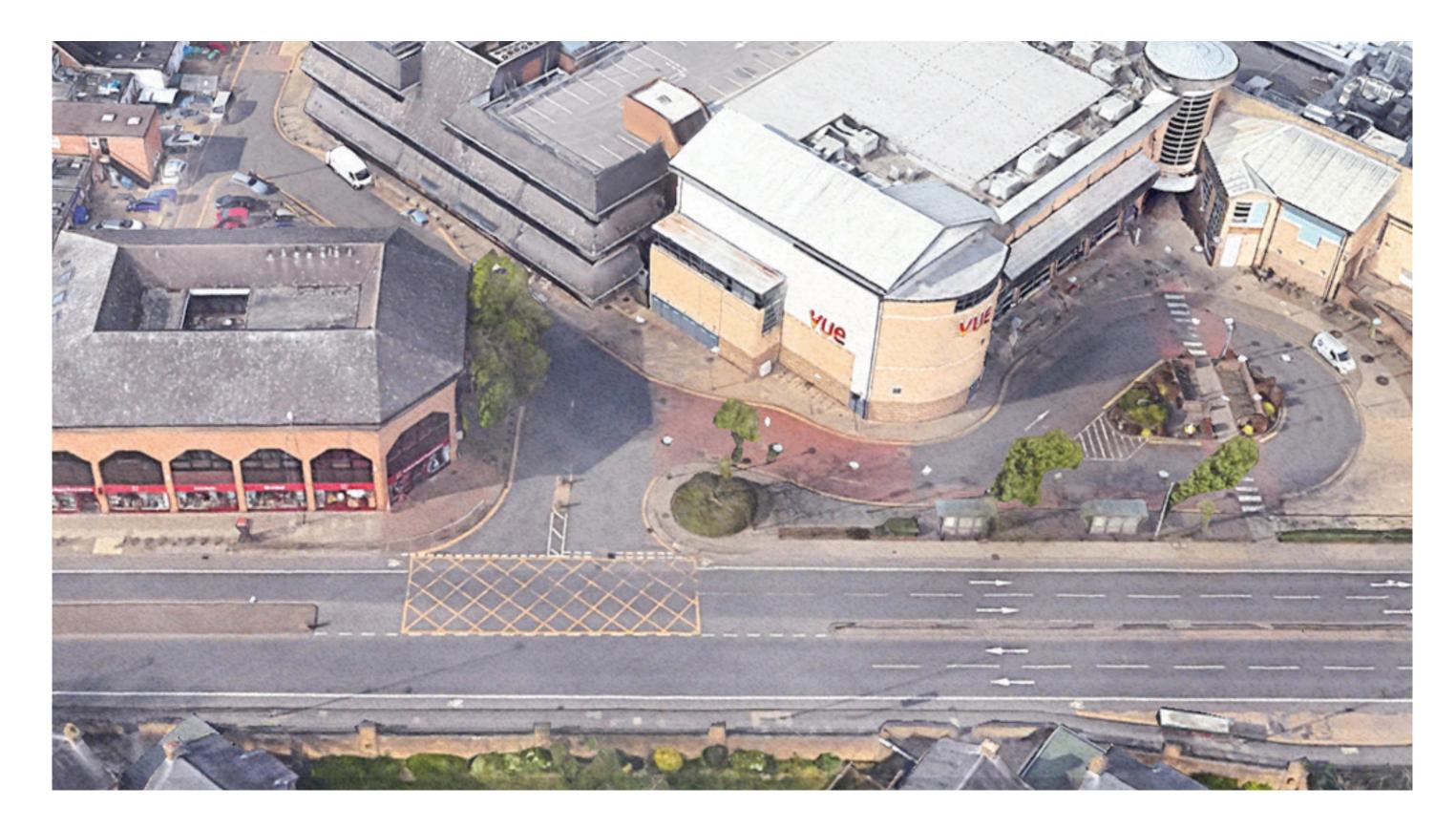
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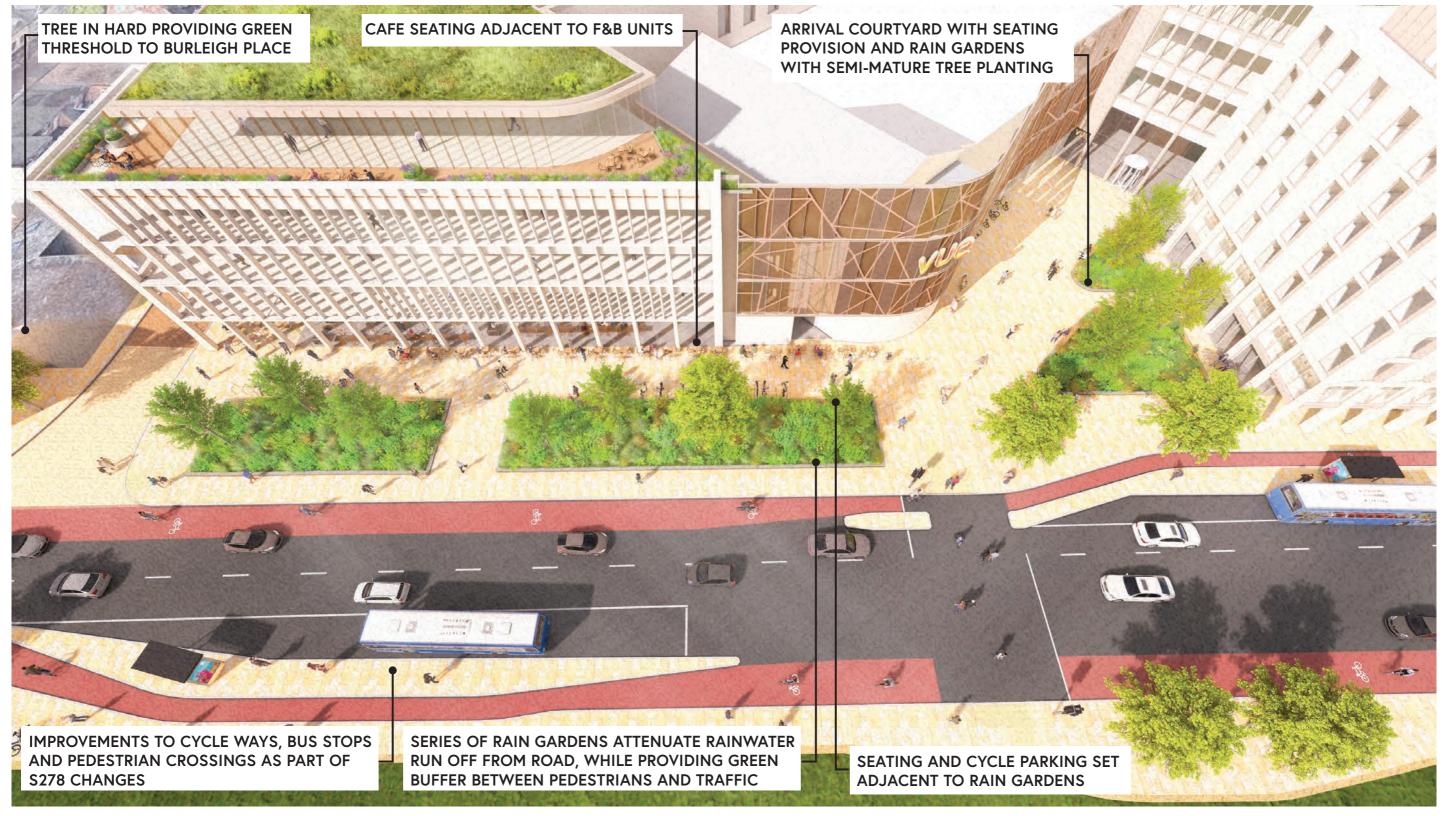


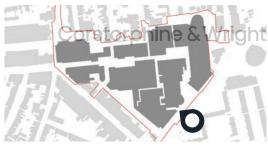


### 1.27 East Road Existing



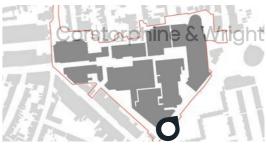
### 1.28 East Road Overview





### 1.29 East Road View 01

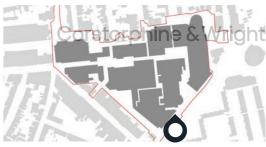






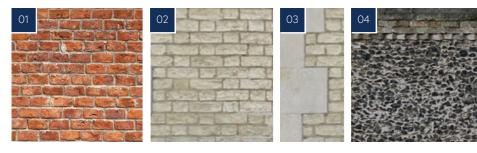
### 1.31 East Road View 04





#### 1.32 Material Palette Overview

CONTEXTUAL MATERIALITY



**RETAIL QUARTER** 









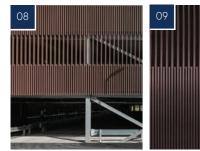
2. Buff Brick - Eden Chapel, Fitzroy St 3. Stone Quoins - Eden Chapel, Fitzroy St 4. Knapped Flint Wall - Christchurch St

1. Red Brick - Christchurch St

12



LIFE SCIENCE





LIFE SCIENCE QUARTER



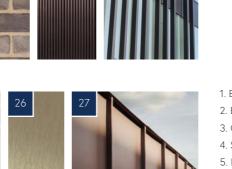
LEISURE QUARTER

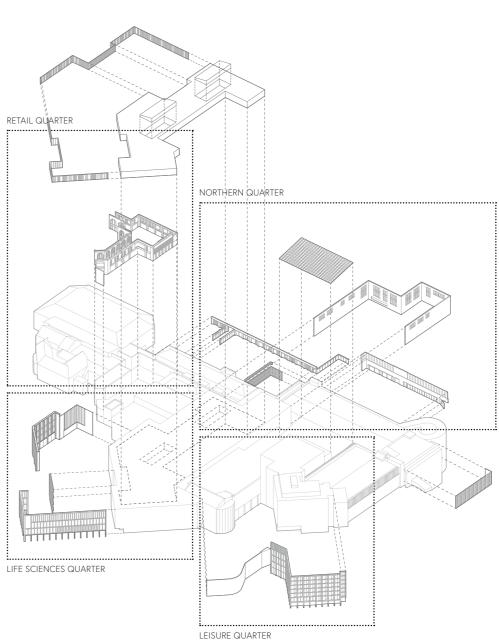












1. Buff Brick	10.
2. Buff/Red Multi Brick	11. E
3. Cast Stone	12. (
4. Soldier Course Detailing	13. I
5. Raked Mortar Joint Detail	14. (
6. Cast Stone Window Surround	15 E
7. Structurally Glazed Shopfronts	16. I
8. Bronze Aluminium Screening Fins	17. (
9. Dark Bronze Pant Screen	18. (

- Perforated Aluminium Panels
- Buff Brick
- Glazed Business Unit Frontages
- Buff Brick
- Cast Stone
- Bronze Colour Metalwork
- Perforated Aluminium Panels
- Cast Stone Fins
- 18. Grey/Brown Brick

- 19. Dark Bronze Pant Screen
- 20. Bronze Colour Shading Fins
- 21. Silver colour Aluminium Fins
- 22. Aluminium Mesh
- 23. Silver Aluminium Cladding Panel
- 24. Grey Silicone Render
- 25. Buff Brick
- 26. Bronze Colour Metalwork
- 27. Bronze Colour Standing Seam

### 1.33 Retail Quarter - Hitzroy Square

11

CE

olyn Rife

2 mint





# 1.35 Leisure Quarter - East Road Existing

British Heart Foundation

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# 1.36 Leisure Quarter - East Road Proposed

1-21

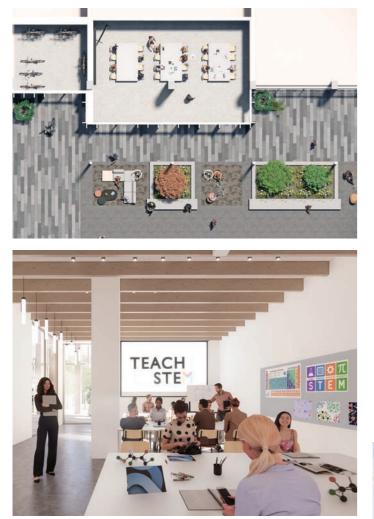
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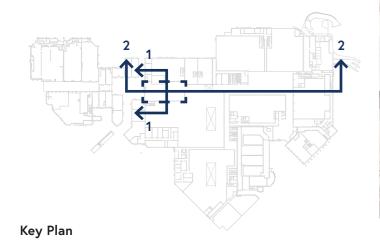
# 1.37 Life Science Quarter - East Road Proposed



# 1.38 Life Science - Community Space



Classroom





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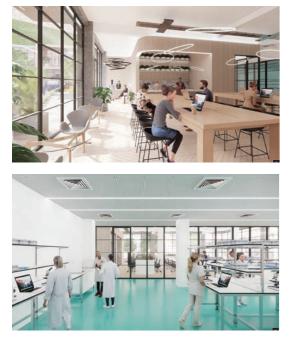
Section 2

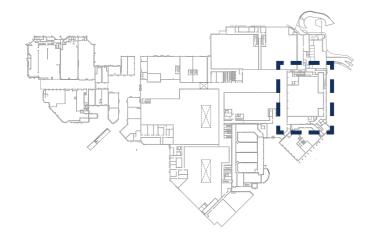
## 1.39 Life Science - Incubator and Starter Laboratory Space

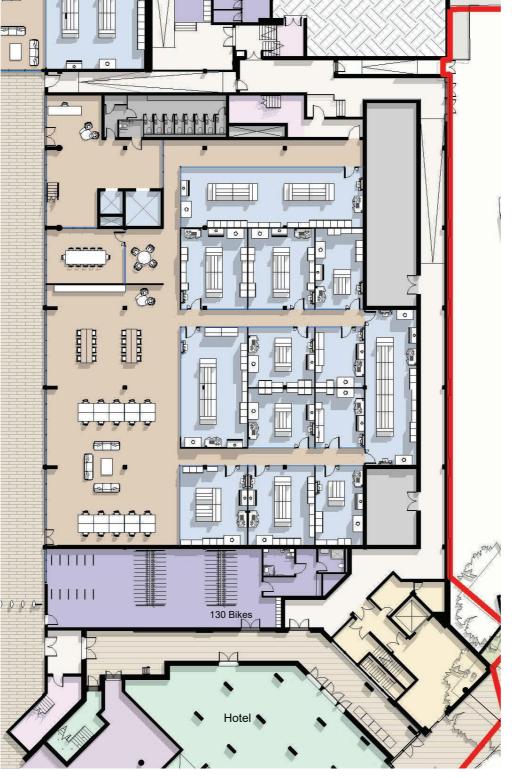
A fully fitted out Cat B laboratory incubator and starter laboratory space will be provided at Ground Floor Level to the east with a functional, fully fitted out Cat B "Growon" Unit provided at First Floor Level. This will include individual starter laboratory enabled space and associated but separate write up space assuming an average 60/40 split.

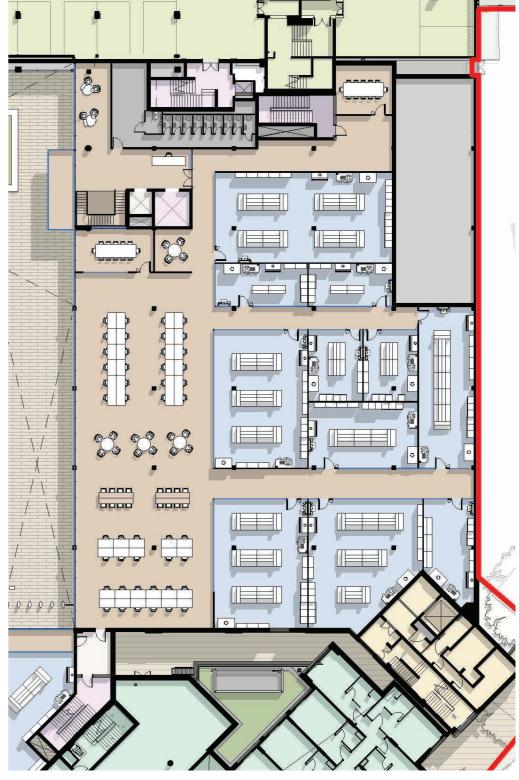
Ground Floor Area of Incubator is circa 1,215 sqm.

First Floor Area of Grow-On scape is circa 1,592 sqm.







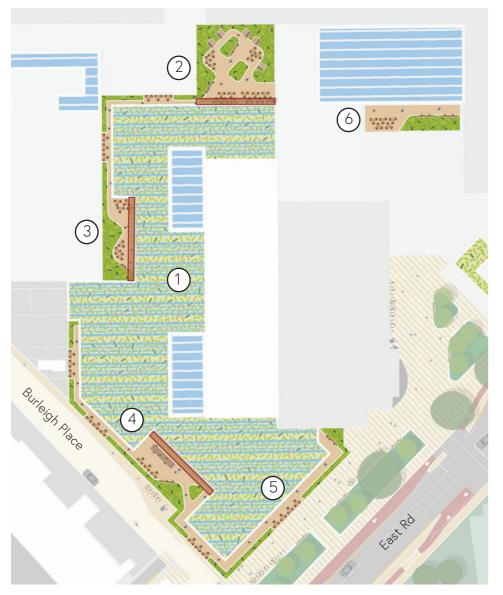


Ground Floor

First Floor

#### 1.40 Life Science - Rooftop Amenity Spaces

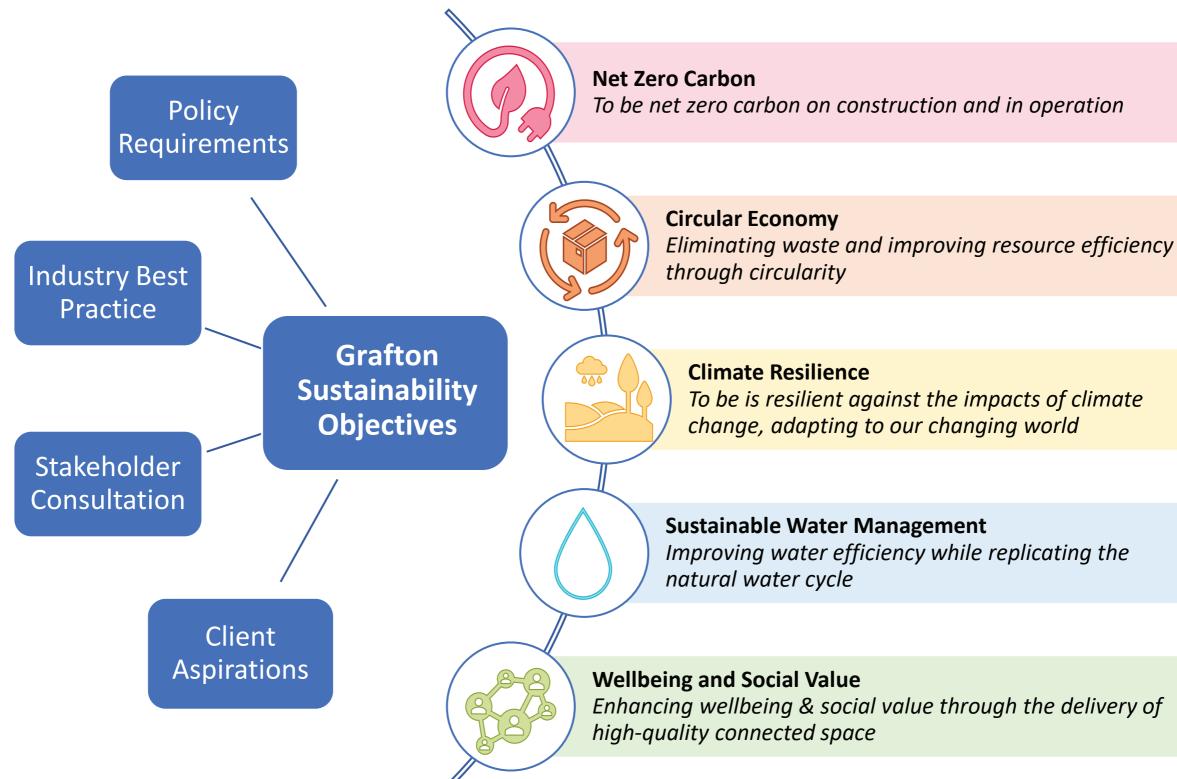
- (1) Extensive biodiversity roof with blue roof system and solar panels.
- (2)Northern roof terrace providing a verdant, enclosed 'secret garden'.
- 3 Western roof terrace with a green edge, flexible seating provision and canopy structure.
- 4 Southern events terrace provides a large flexible space creating opportunities for larger events.
- (5) Linear terrace providing planted edge offering users a green outlook from the adjacent work spaces.
- 6 Eastern roof terrace providing a flexible hard space with seating provision, as well as a generous planted area adjacent to the mechanical plant.







#### 1.41 Sustainability Framework



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### 1.42 Net Zero Carbon





KPIs	Unit	Policy requirements	Aspiration	
Upfront embodied carbon (A1-A5)	kgCO <sub>2</sub> /m <sup>2</sup> [GIA]	Report	650	
Whole Building Energy Use Intensity	1/1/1/2/m <sup>2</sup> [C1A]	150 - Life sciences	150-250 – Life sc	
	kWh/m² [GIA]	55 - Hotel	55- Hotel*	
Combustion free heating and hot water	Zero	No mains gas	No mains ga	
Space heating demand	kWh/m <sup>2</sup> [GIA]	15-20	20	
Renewable energy provision	Solar PV Panel Area	Encouraged	Maximise	

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>25% carbon reduction due
to retention



Materials with high levels of recycled content



EPDs for major building elements



Incorporation of GGBS considered in basement concrete



Preference for natural finish materials with high recycled content

#### on

sciences\* el\*

gas

se

## 1.43 Circular Economy





KPIs	Unit	Policy requirements	Aspiration
% materials from re-used sources	%	Circular Economy Statement	10%
% of new materials can be re-used at end of life	%	Circular Economy Statement	30%

### Corstorphine & Wright

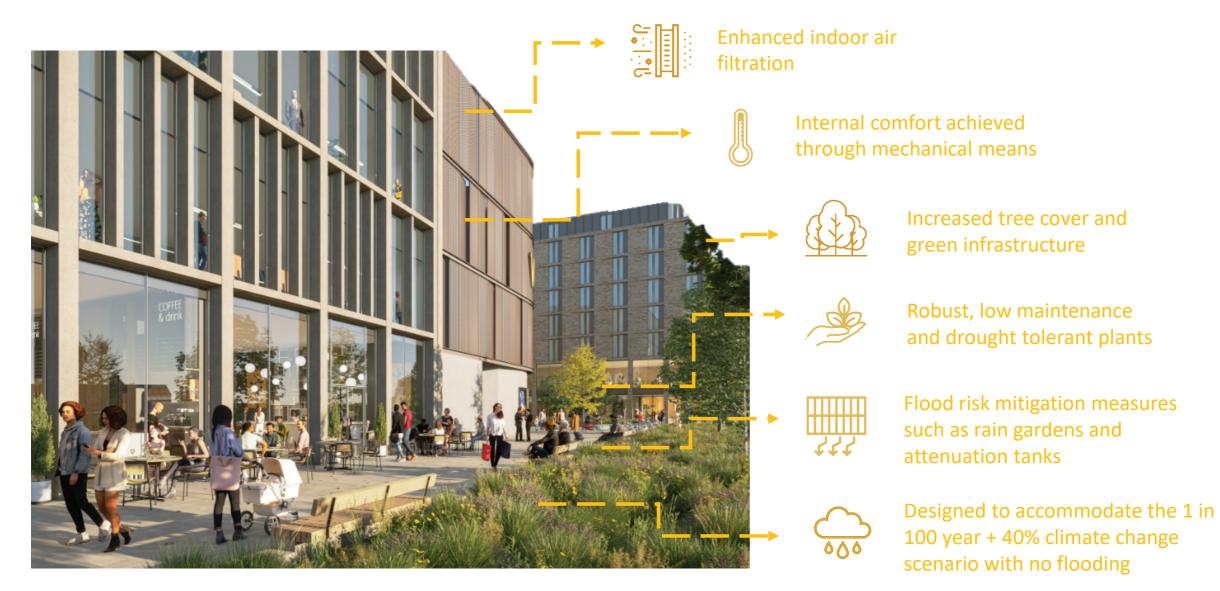
Materials with high levels of recycled content

Following circular economy principles

Operational waste management

#### **Climate Resilience** 1.44



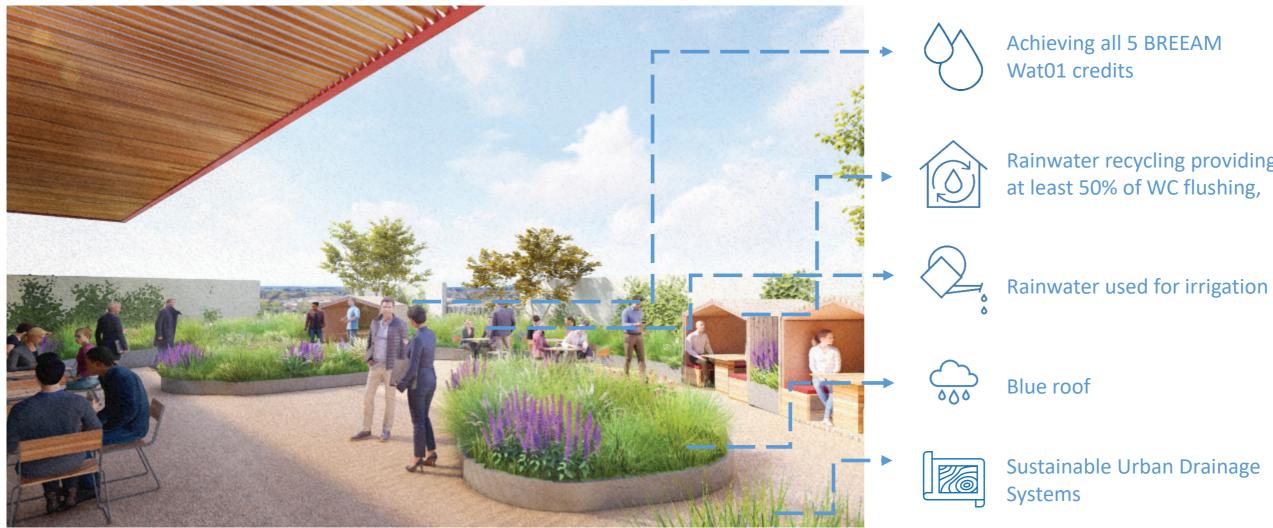


KPIs	Unit	Policy requirements	Aspiration
% of climate risks reduced to low or moderate risk	%	Reduce climate risks	90%
Thermal comfort - summertime	% Time Out Range	Follow cooling hierarchy, with modelling using future climate scenarios	3%

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#### 1.45 Sustainable Water Management





KPIs	Unit	Policy requirements	Aspiration
Water efficiency	BREEAM Wat 01 credits	5	5
Peak runoff rate	l/s/ha	No worse than existing	No worse than existing

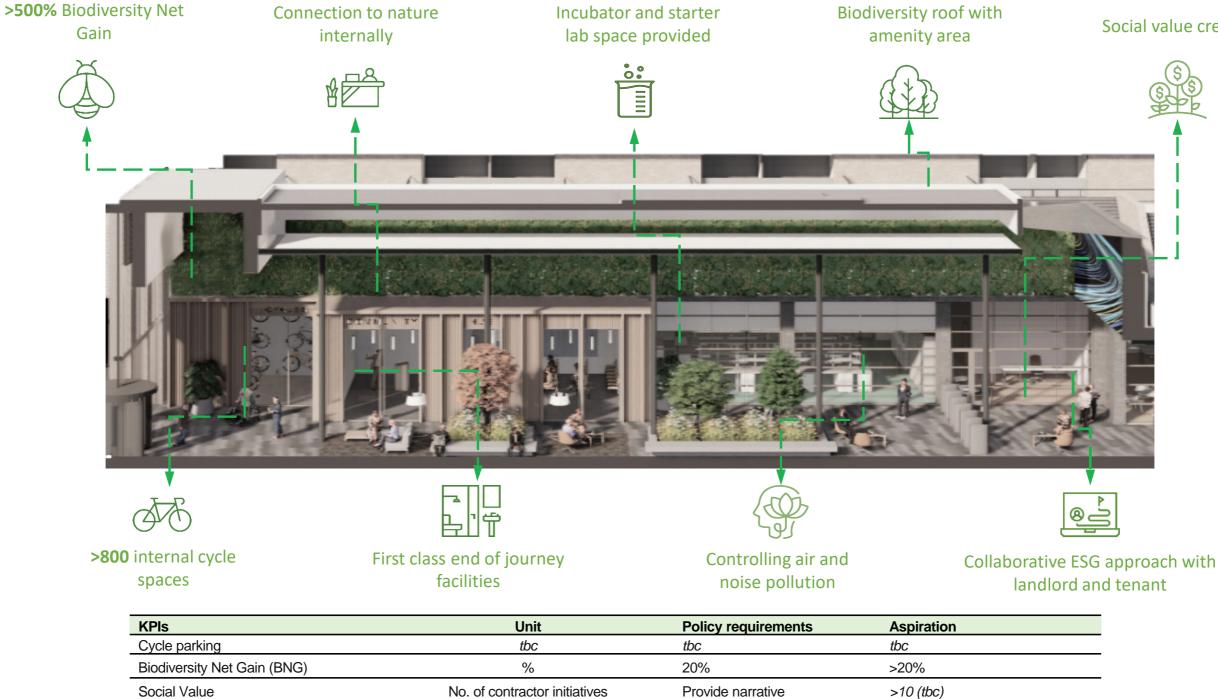
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Rainwater recycling providing at least 50% of WC flushing,

Sustainable Urban Drainage

# 1.46 Wellbeing and Social Value





### Corstorphine & Wright

#### Social value creation

### 1.47 Outcomes



#### COMMUNITY

The development will foster a sense of **community**; delivering wellbeing for existing and future members of the community through positive interaction

#### **BENEFITS**

A long-term local economic offer Jobs for all levels from school leavers to PHD's

**2,161 future members** expected to be working there - feeding the local economy too

Strengthened and flexible local retail

Increased footfall and spend

**Community space** focussing on STEM and local young people

#### CONNECTIVITY

Located in a highly sustainable location where people can benefit from high **connectivity** to jobs and services - where infrastructure is upgraded to match the pace of development

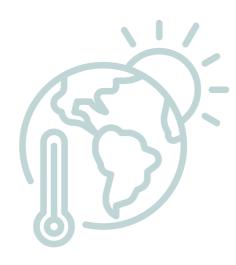
#### **BENEFITS**

**Reconnecting** a historic north-south route

Investment in **inclusive** public realm

Promotion of **non-car transport** 

East Road enhancement



#### CLIMATE

Retaining **embodied carbon** and delivering a high-quality **sustainable development** with imaginative landscaping and innovative approaches to transport, energy and waste

#### BENEFITS

Previously developed city centre
location
Exceeding policy in <b>addressing</b>
climate emergency
All electric new build, reduced water
consumption
Dramatic <b>improvement in</b>
biodiversity and greening

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### Corstorphine & Wright



### CHARACTER

Responding to **local character** and facilitating greater architectural quality which allows the public to see into the building whilsy recognising and prioritising the public realm.

### BENEFITS

Activation of building frontages Family of architecture bringing walls, roofs, and streets to life Safety and security of surrounding

streets

Tree planting increasing canopy cover

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Contact us to discuss your project

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- o corstorphinewright

