Towns Conference

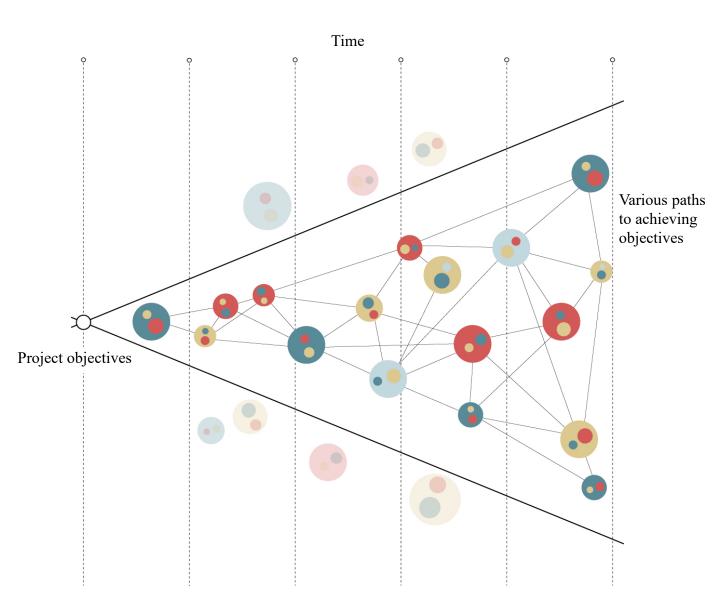
Breakout Session A1: Navigating Change in Project Design

Jane Healey Brown, Alex Lloyd, Angela Crowther, Peter Neckelmann June 2023

A Long-Term Vision

Flexibility

- All projects change. Designing and delivering with flexibility in mind is essential.
- How a project responds to and satisfies the objectives should be interrogated repeatedly at each design stage – as well as after a project is completed.
- Goals should be flexible enough to allow for change over time and to allow project design to adapt to changing needs and conditions (including costs).



Clear prioritisation

What is essential for success?

- Prioritise what is fundamental to the project (has the greatest or broadest impact) and what are the nice to haves.
- Consider which aspects of the project should be delivered first e.g., in order to establish place, or deliver a financial return.
- Consider how phasing can inform design, e.g. British Land at Brindley Place, Granary Square



Clear prioritisation

What is essential for success?

• Testing the scheme



'Meanwhile' uses

How long is meanwhile?

- 'Meanwhile' construction no longer needs to mean 6 months, 1 year or even 3. Some projects last for more than 10.
- Question what aspects of your projects could potentially be delivered as 'meanwhile' and still satisfy your objectives.





Low-cost solutions

- Consider simple, robust, exposed materials. Exposed plumbing, ventilation, and electrical ducts.
- Prioritise function over aesthetics – not what it looks like, but what it <u>does</u>.
- Don't be afraid to 'kill your darlings', particularly as objectives & conditions change
- Challenge designers, architects and contractors to do more with less and build in flexibility.



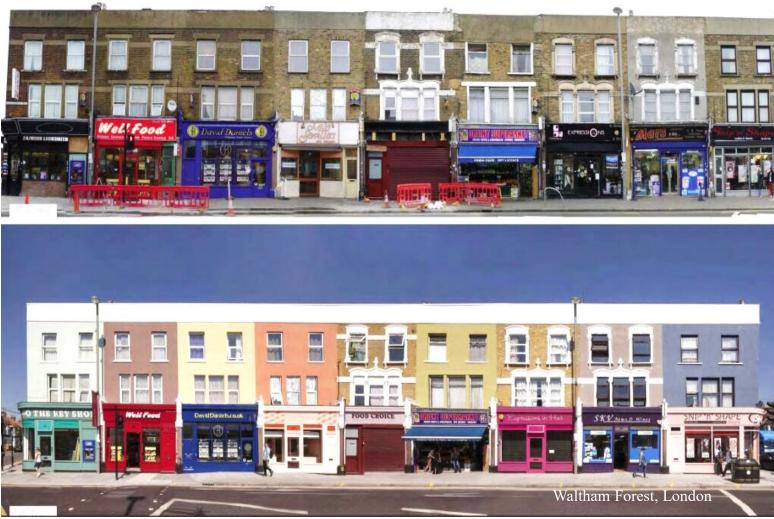
Low-cost solutions

- This approach is not confined to buildings and can be applied to a range of other project types:
 - squares and parks



Low-cost solutions

- This approach is not confined to buildings and can be applied to a range of other project types:
 - squares and parks
 - high streets



Low-cost solutions

- This approach is not confined to buildings and can be applied to a range of other project types:
 - squares and parks
 - high streets
 - pavements



Low-cost solutions

- This approach is not confined to buildings and can be applied to a range of other project types:
 - squares and parks
 - high streets
 - pavements
 - streets



Low-cost solutions

- This approach is not confined to buildings and can be applied to a range of other project types:
 - squares and parks
 - high streets
 - pavements
 - streets
 - gardens



Engagement and Mobilisation

Activate the community

- Identify aspects of the project that can include the community in the design, delivery, maintenance and operation.
- Mobilise the existing skills (and develop new skills) in the community. These can improve all aspects of the project, create shared responsibility and ownership and deliver outcomes that satisfy a larger share of the community.



Review Objectives



Hull Public Realm Regeneration



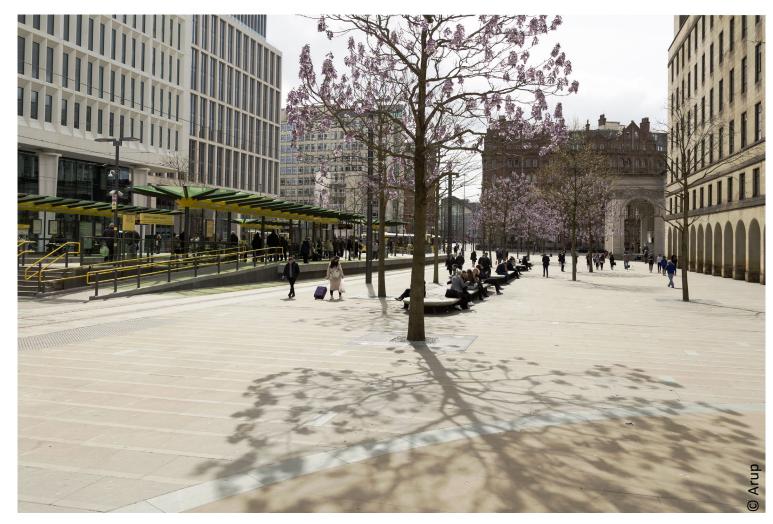
Specification



Charter Square, Sheffield



Phased delivery



St Peter's Square

Modern Methods of Construction





Contractor Engagement



Victoria North Manchester

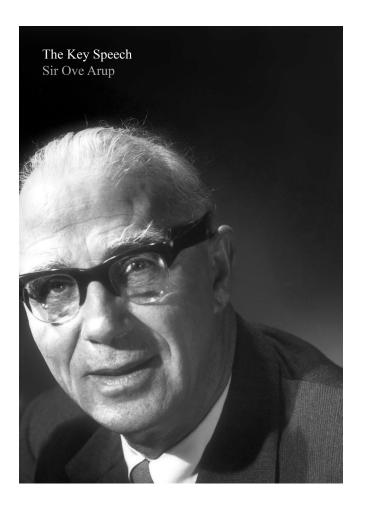


Collaboration



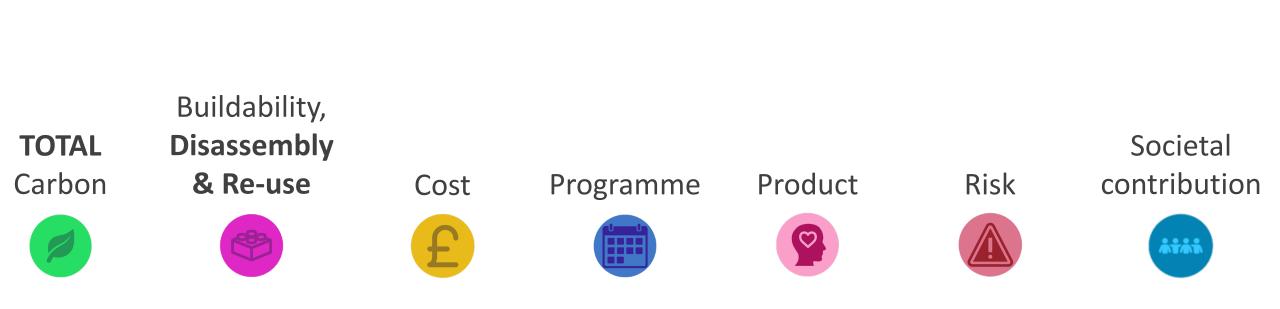
Empower your team

"Total Architecture implies that all relevant design decisions have been considered together and have been integrated into a whole by a well organised team **empowered** to fix priorities."



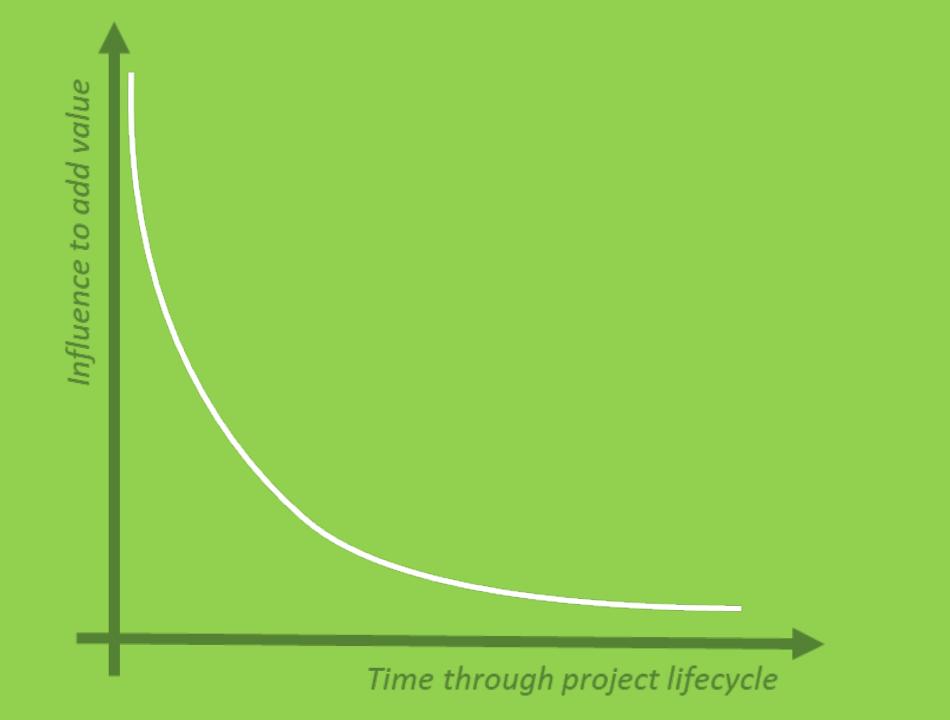
Dare to share!



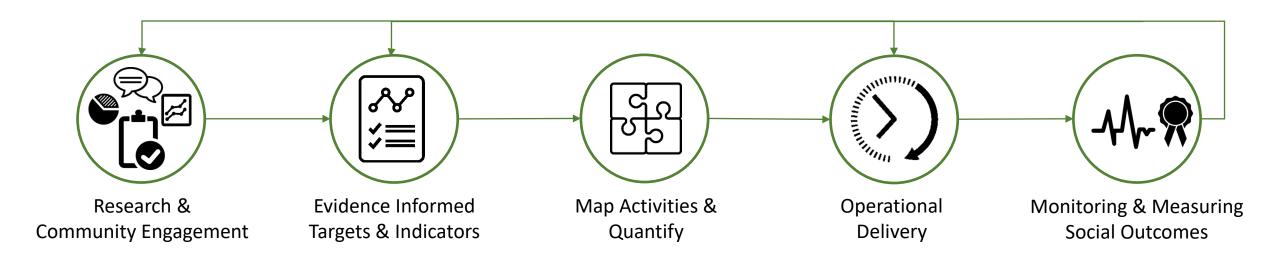


P

A



DON'T JUMP INTO SOLUTIONS TOO SOON!



ARUP

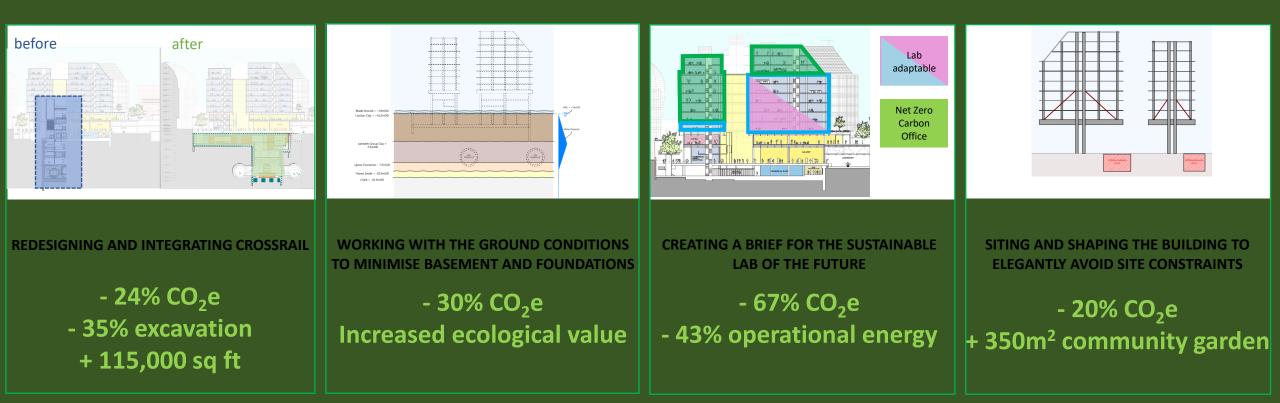
What's our why?



Arup UNSDG Workshop process defines opportunity and creates stakeholder consensus ...



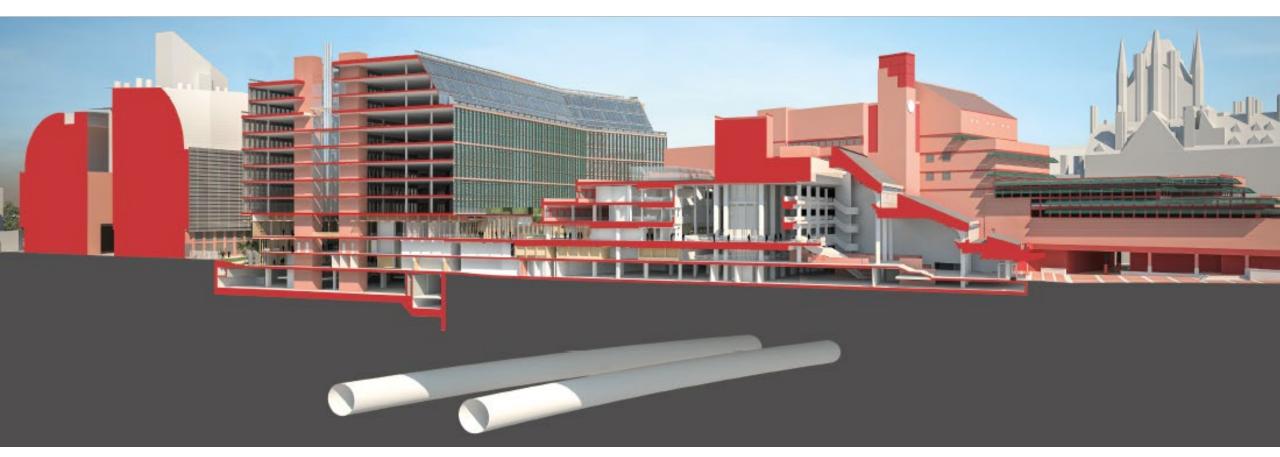
... allowing all project decisions to consider sustainability impact, articulating value to a wider audience





BRITISH LIBRARY

Project Overview





STANHOPE

MITSUI FUDOSAN

Camden

Somers Town

Community Association



THE FRANCIS CRICK INSTITUTE

BRITISH LIBRARY CONSERVATION CENTRE









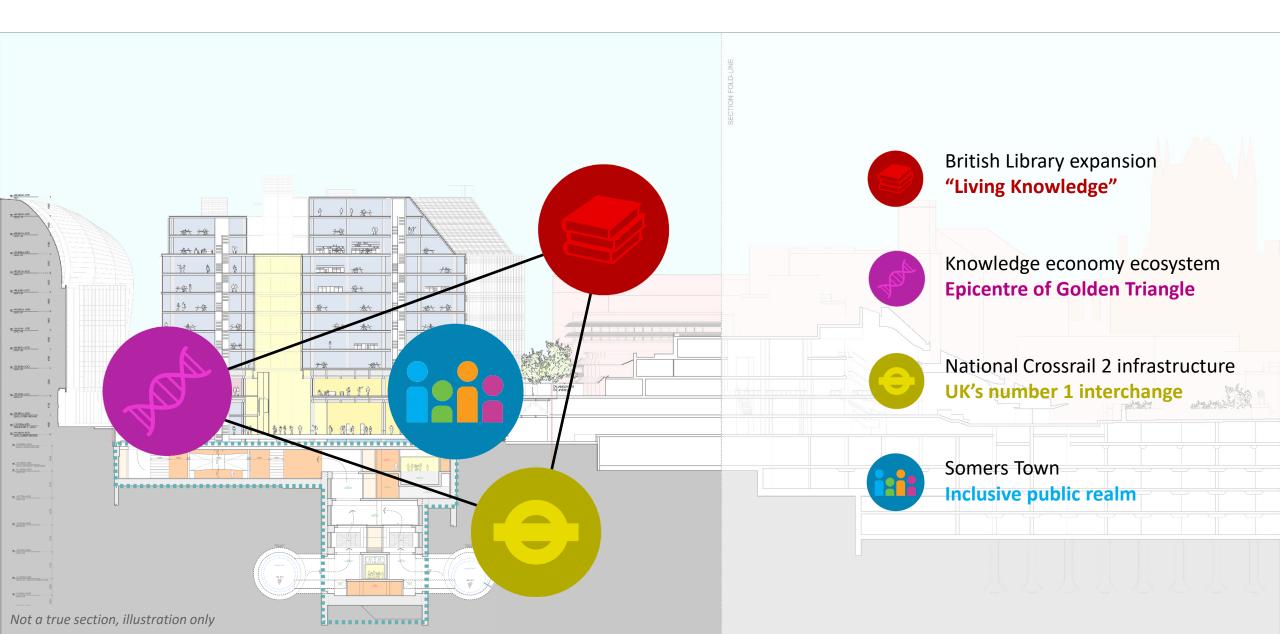
ARUP



BRITISH LIBRARY

Design Principles

OUR MOST SUSTAINABLE ACHIEVEMENT IS INTEGRATING MULTIPLE USES

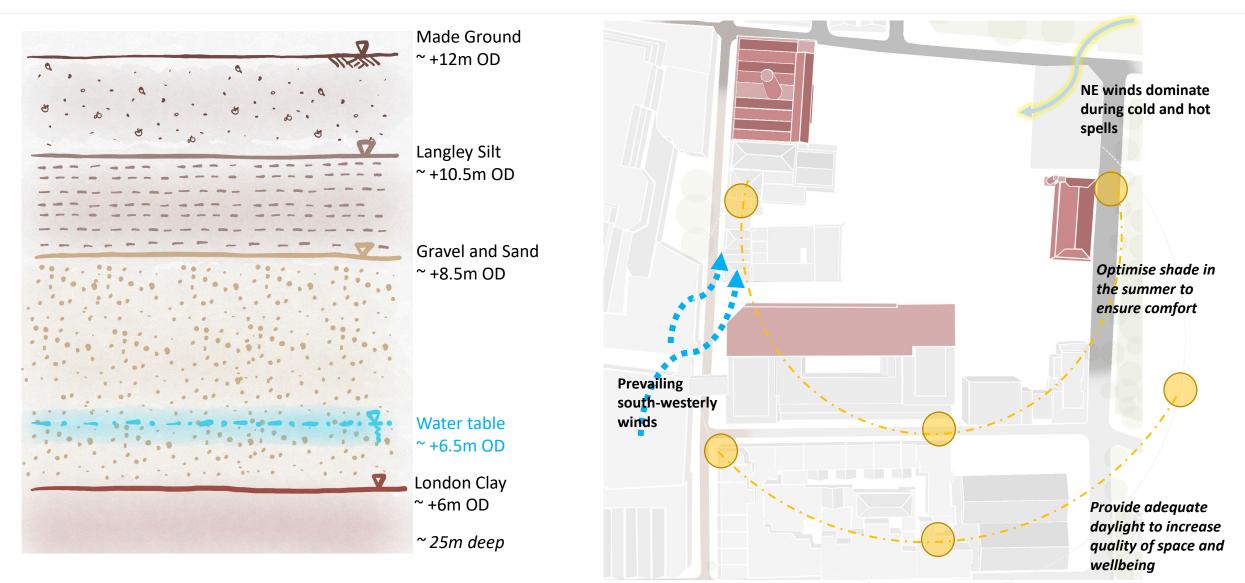


Design knowingly



BENEFIT FROM THE SITE'S NATURAL CAPITAL

Recommendation: optimise form and siting by working with the site conditions



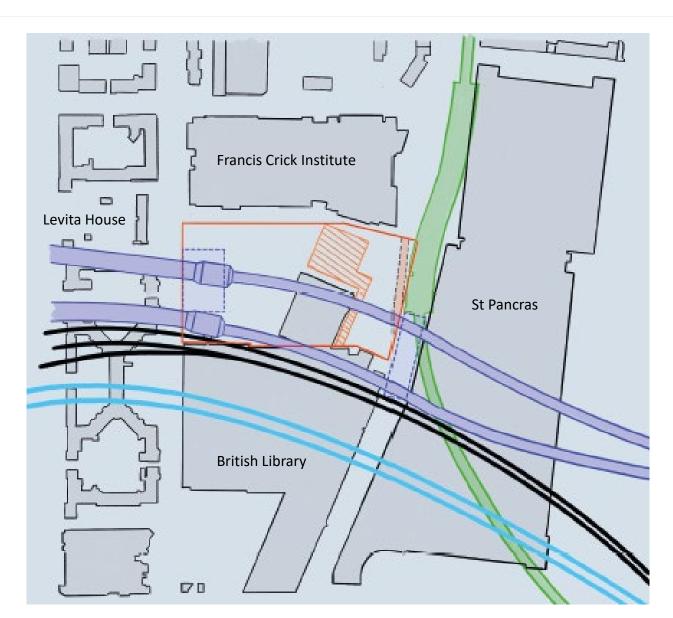
Assumed geology based on nearby sites

Establishing the site's climatic conditions (initial study)

ARUP

BENEFIT FROM THE SITE'S NATURAL CAPITAL Project Example: British Library Extension

ARUP

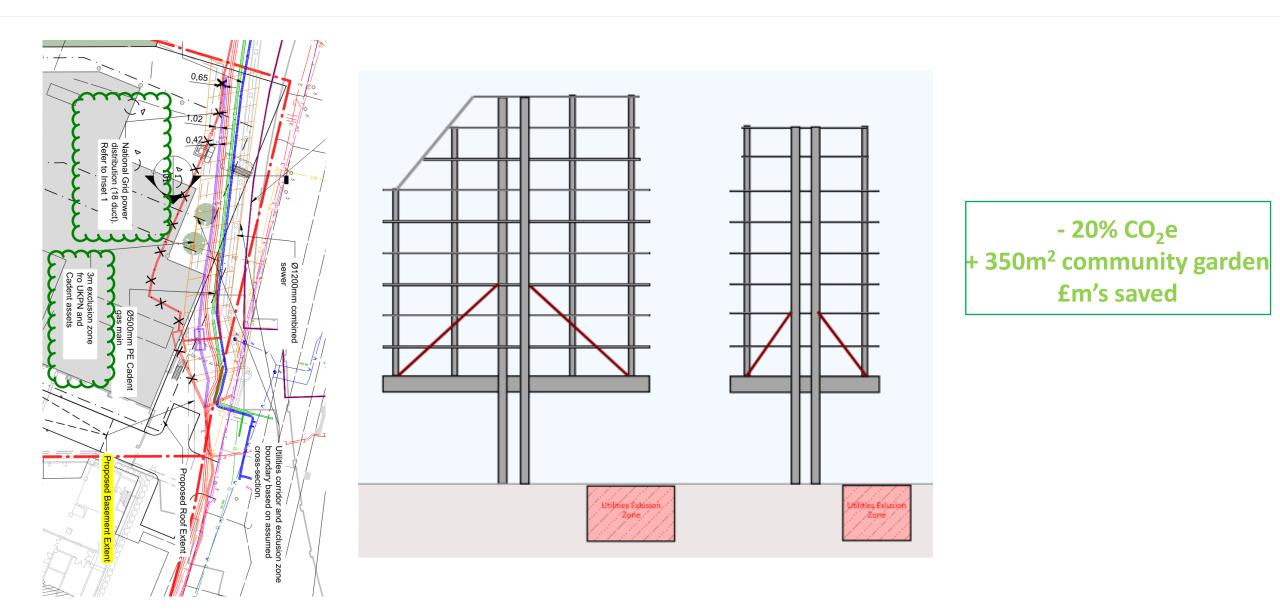


- North:
- Francis Crick Institute, with high sensitivity to noise and vibration.
- Dangoor Walk, public right of way to be maintained
- FCI medical gas servicing bay
- East:
- Midland Road
- Infrastructure Corridor (CR2 to eventually relocate SE portion)
- Thameslink
- Grade 1 Listed St Pancras Station, with key views over the Barlow Shed
- CR2 egress to St Pancras
- South:
- Grade 1 Listed British Library
- Logistics bay, to remain live throughout construction
- West:
- Grade 2 listed Levita House residential
- Services within Ossulston Street
- Substation on site, to be demolished and replaced
- Below:
- 2015 CR2 safeguarding exclusion zone (TfL DA)
- CR2 agreed infrastructure (TfL DA)
- Existing live LUL tunnels
- Above:
- Protected views (e.g. over Barlow Shed) restricting planning envelope
- On site:
- BLCC, to be temporarily relocated, demolished and replaced
- Tank Farm, to be demolished and replaced
- Victorian brick pier footings across site

Imposed / malleable

BENEFIT FROM THE SITE'S NATURAL CAPITAL

Recommendation: optimise form and siting by working with the site conditions



ARUP

Promote a culture that nurtures inquisitive minds

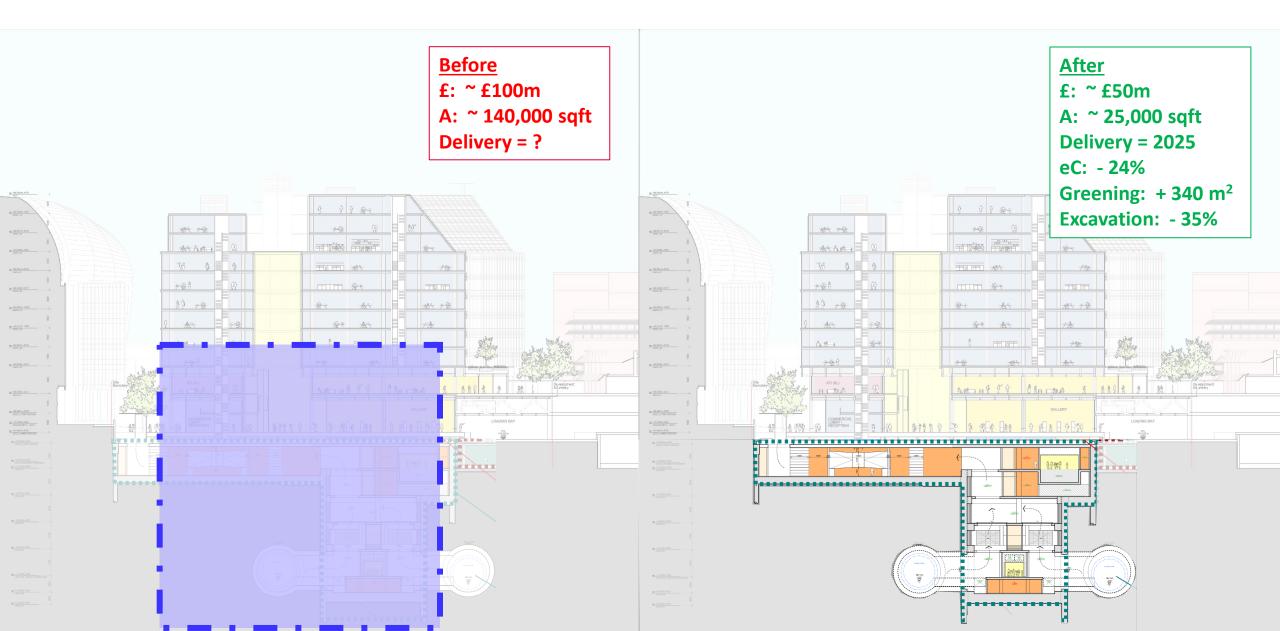




BRITISH LIBRARY

Crossrail 2

A UNIQUE OPPORTUNITY TO SHRINK-WRAP CROSSRAIL INFRASTRUCTURE



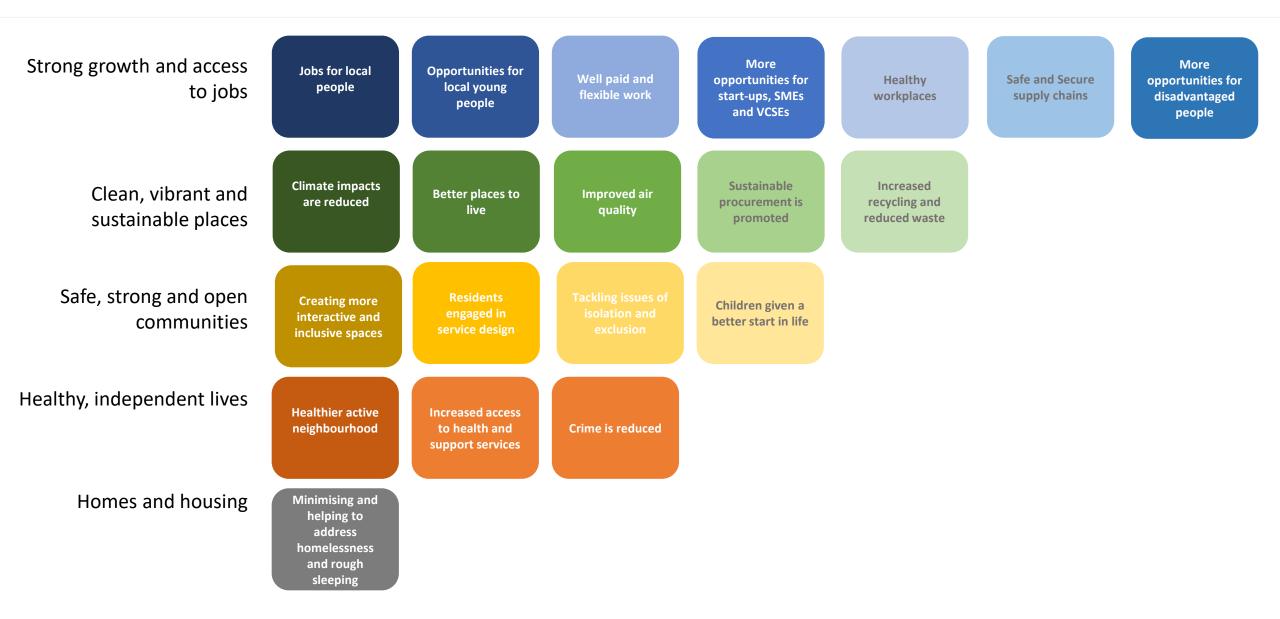


Develop a common language



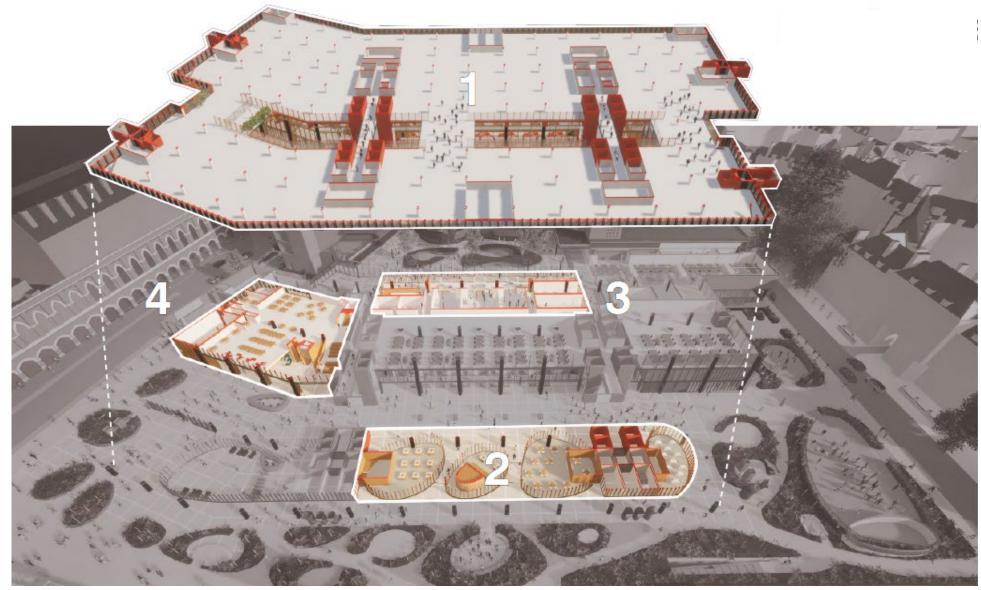
LINKING TO LOCAL AUTHORITY PRIORITIES

Social value





RESULTING IN SPACES DEDICATED TO SUPPORTING LOCAL EMPLOYMENT, SKILLS AND BUSINESS



BRITISH LIBRARY

Social value

- 1. Affordable workspace
- 2. Focussed retail
- 3. Learning centre
- 4. Business centre



AND WELCOMING, HIGH QUALITY PUBLIC REALM



Social value



- 5. 250m² Community learning garden
- 6. Publicly accessible foyer
- 7. A diversity of open space



BRITISH LIBRARY

Social value

LEADING TO AN EARLY AND HOLISTICALLY CONSIDERED DESIGN FOCUS ON CREATING A COMFORTABLE OUTDOORS FOR COMMUNITY BENEFIT



A range of factors influencing the comfort and experience of visitors were examined:



Thermal comfort

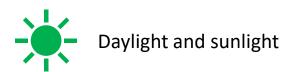


Air quality

Wind comfort

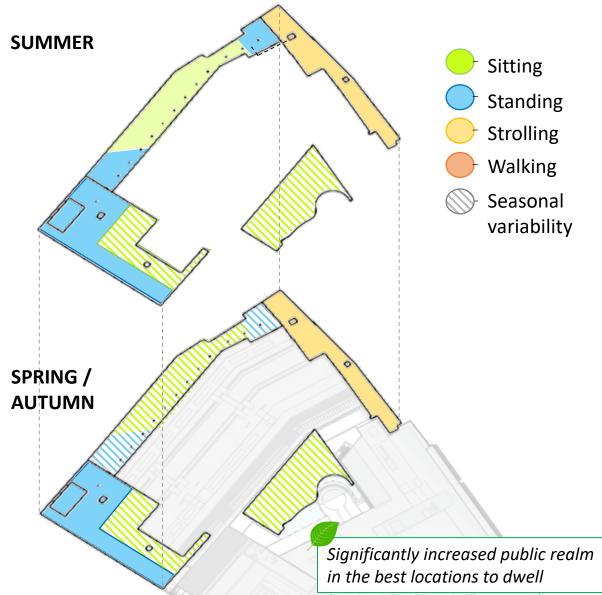


Acoustics





Urban Heat Island



Projects just enable good things to happen



British Library Extension brokers long term social value



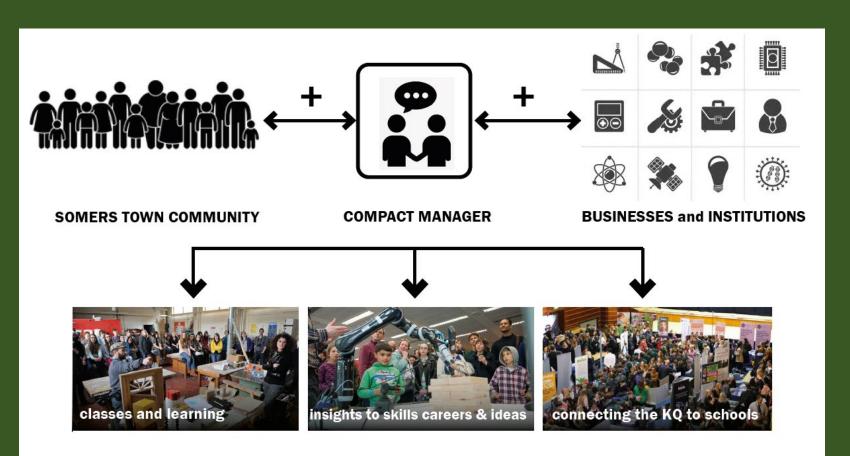




> £2.4bn additional economic value over 10 year period from opening



~ £53m additional spending in Camden over 10 year period from opening



So What?













Towns Conference

Zach Wilcox June 2023

