

## what is special about teaching and learning the MECD way?

### Vision

MECD is a new campus development covering the four large engineering schools from Engineering and Physical Sciences (EPS), along with a range of central, timetabled teaching spaces, two research institutes and a variety of research activities. The vision for the project is to develop a campus which acts as both a gateway to the city and to the University, and which inspires future generations of engineers to pioneer discovery. The teaching spaces will offer flexibility and cutting edge IT/AV to allow students to fully engage with new modes of teaching and learning, all informed by the research taking place across the schools. Researchers will have world-class facilities, some of which will sit across discipline boundaries in order encourage interaction and innovation. New, highly interactive spaces for prototyping, project work and student-centred learning will be interspersed with more traditional teaching and office spaces. Student services will be delivered through hubbed professional support service (PSS) spaces, which aims to deliver a seamless service in areas which are both highly accessible and frequently used by students.

The MECD concept design includes a large MEC Hall as the central element, with a range of interlinked, smaller buildings across the site. MEC Hall is expected to be the main student hub, with large teaching spaces spanning one end and student workshops and practical areas at the other. The ground and first floor of the hall are expected to be busy, vibrant spaces where undergraduate students in particular will spend a significant amount time. The first floor of this space links across to another large building which spans along Upper Brook Street (UBS), and which will include smaller 'meet and teach' spaces at this level. This building will also house shared teaching laboratories and large-scale research spaces on the ground floor. The higher floors of the MEC Hall will house the four Schools with a mix of office and lab spaces for staff, researchers and postgraduate students, across three floors.

At the north entrance to the site is the Grade II Listed Victorian Oddfellows Hall, with the James Chadwick Building mirroring this location on the south side of the UBS elevation. Oddfellows Hall is likely to contain a high concentration of conferencing facilities, whilst James Chadwick will house the pilot plant and related research laboratories.

The UBS building is expected to have relatively high foot traffic but will be quieter as an environment in terms the types of spaces it will house, and the fact that it is a 'destination' rather than a 'thoroughfare'.

### Challenge / Create...learning by doing



### Communicate...making research visible



### Connect / collaborate...its all about people



### Change...innovation and creativity



### What if....

the laboratories and workshops have a high level of transparency, then they become centres of creativity, innovation and identity, where students exchange ideas and inspiration.



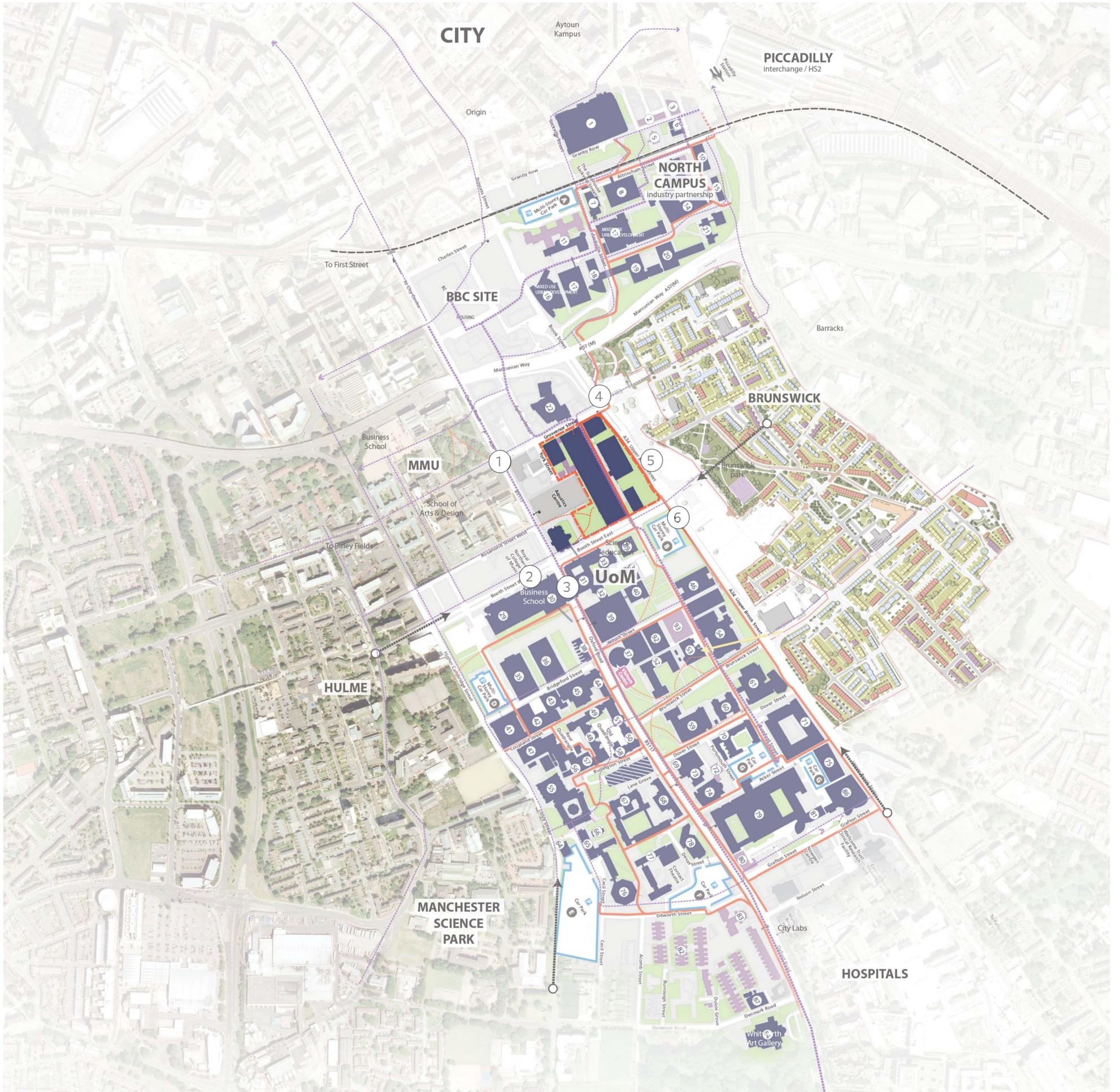
Artist impression - workshop area

### "Toward the Multifunctional Learning Space"

... spaces should accommodate multiple activities simultaneously but not be so generic that they deny the diversity and individual intentions of those activities...



Artist impression - learning environment



Artist impression - Campus of Manchester



1. Oxford Road from north, from Oxford Road Station / bus stop



2. Booth Street, from bus stop Booth Street



3. Oxford Road from south, from bus stop / halls of residences



4. Upper Brook Street from north, from Piccadilly Station



5. From carpark



6. Upper Brook Street from South

concept story line

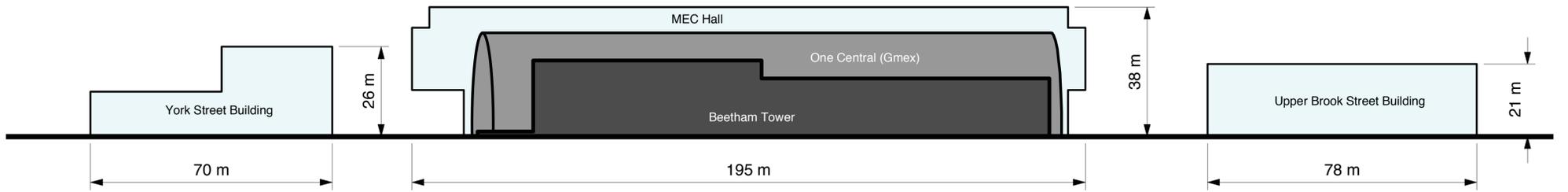
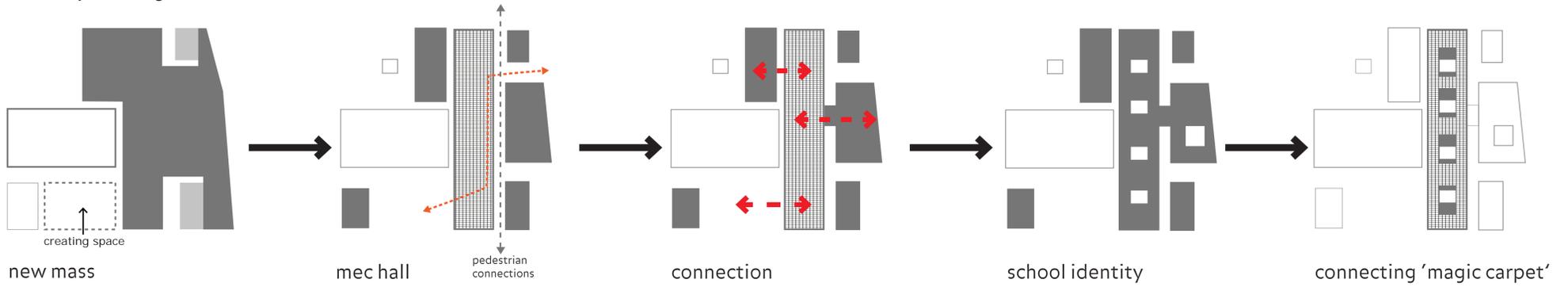


Diagram - scale comparison MECD site with One Central (Gmex) and Beetham Tower

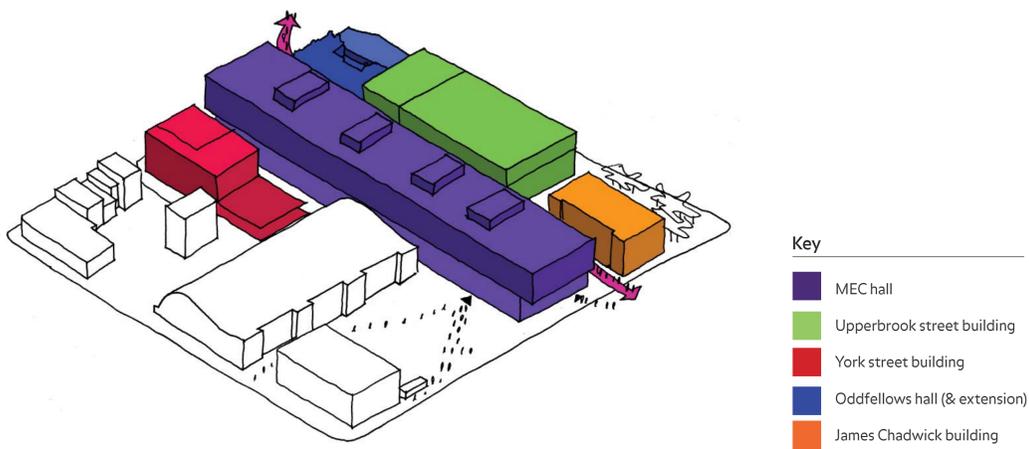
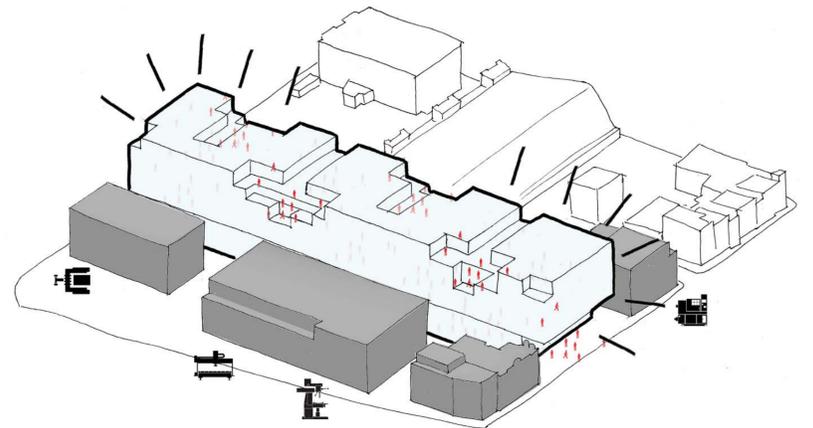
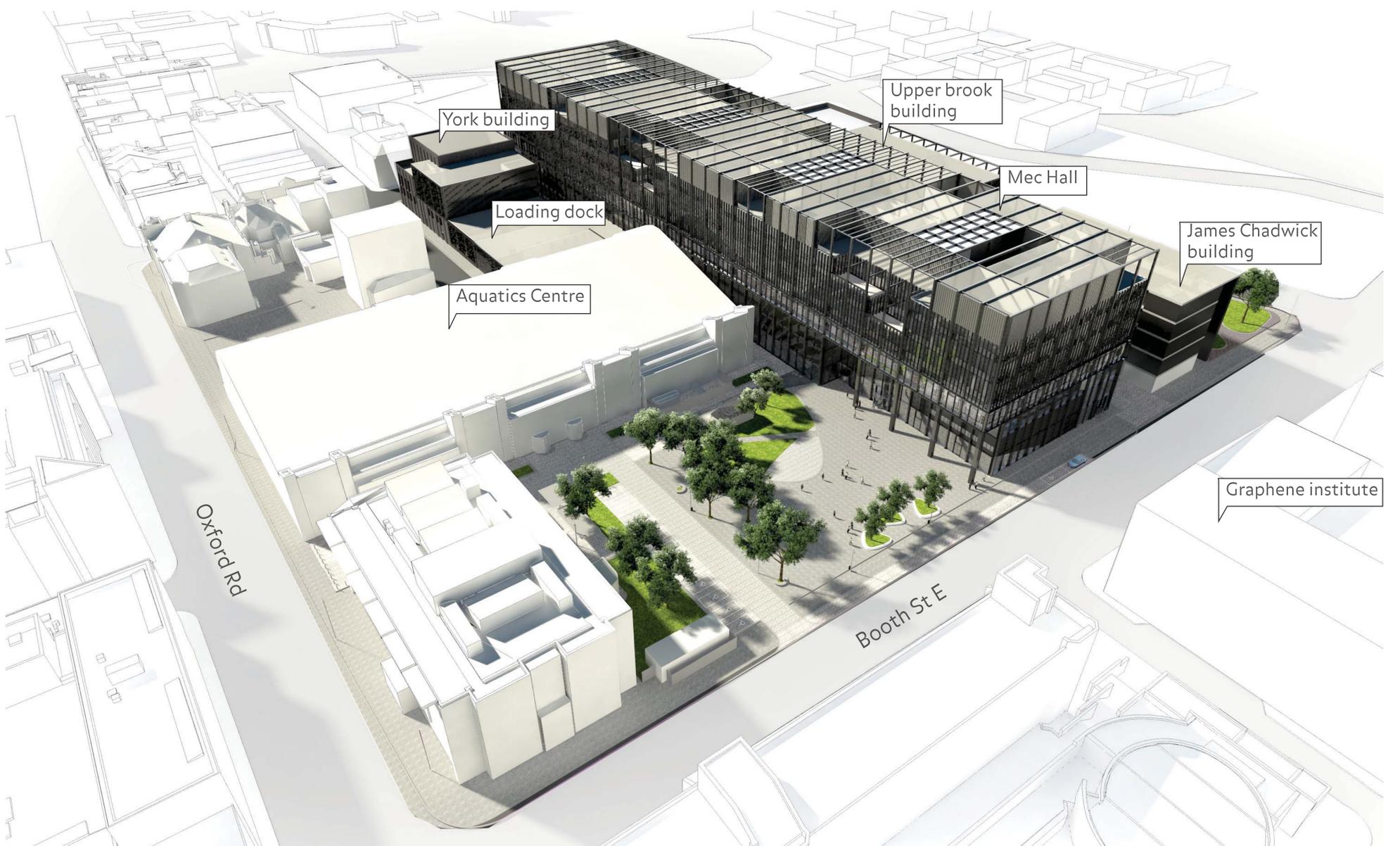


Diagram - functions



Mec Hall as main building - supported by auxiliary buildings



Artist impression - areal view



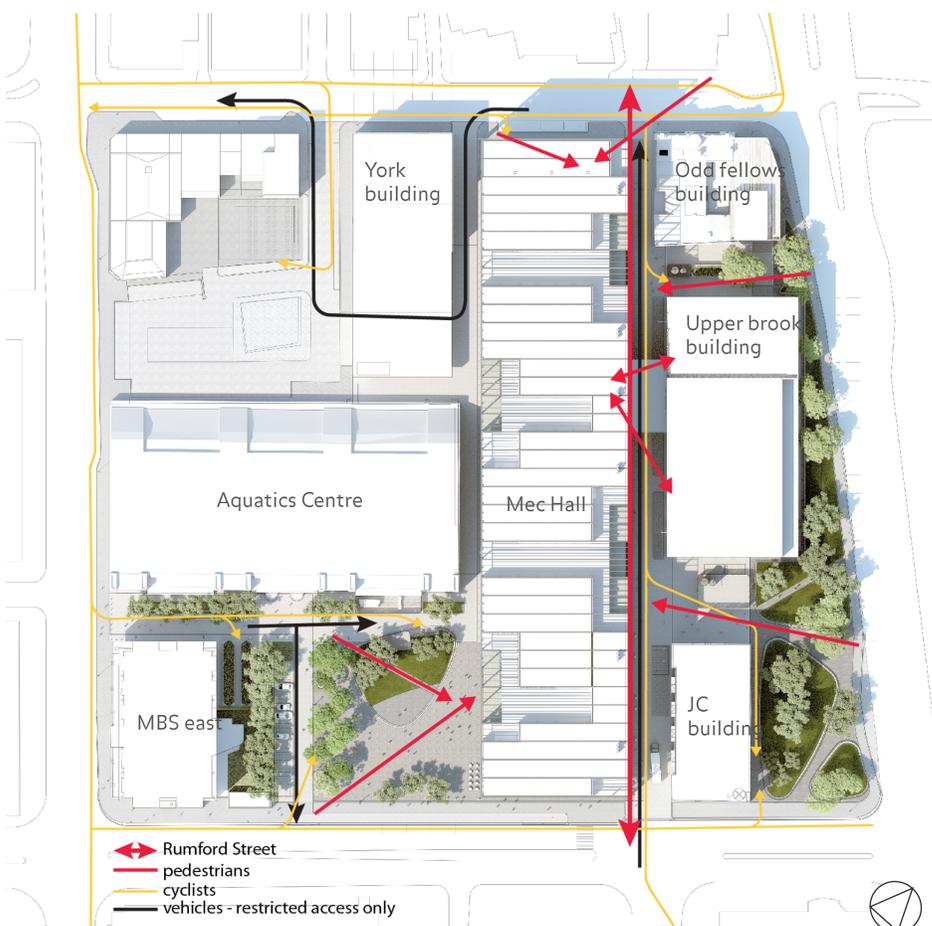
Artist impression - main entrance square



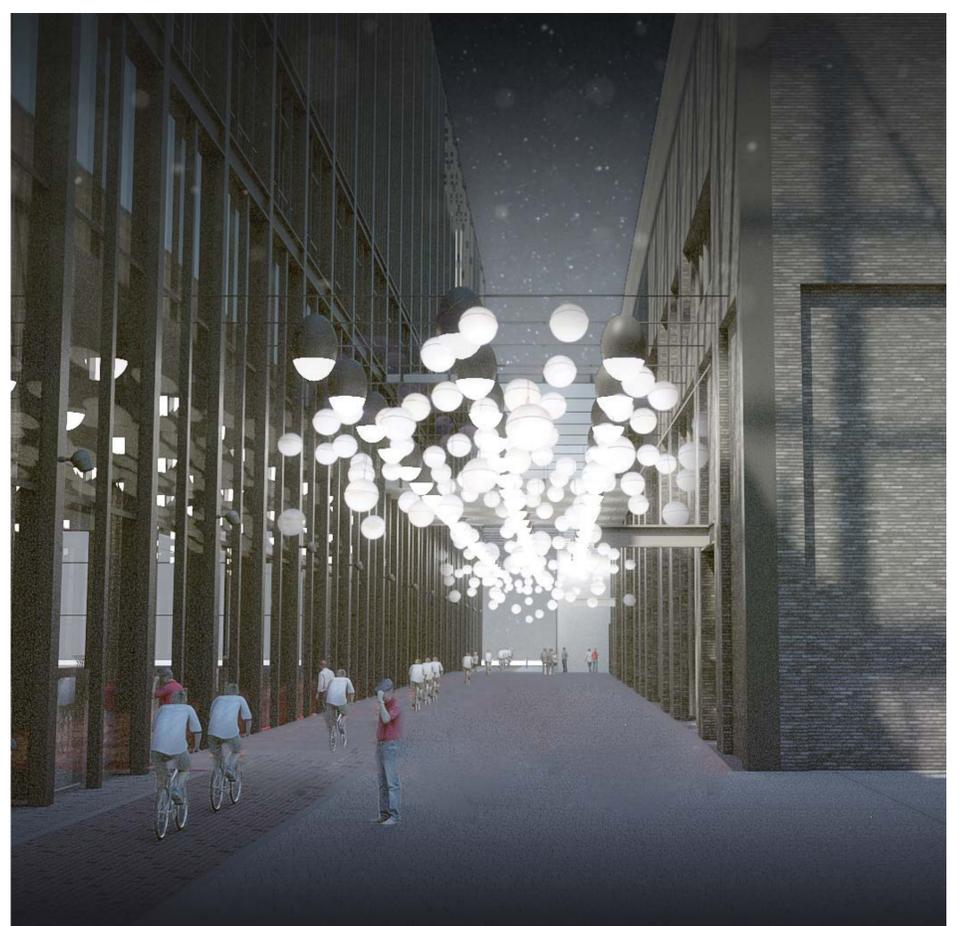
Artist impression - main entrance square



Artist impression - James Chadwick outdoor space

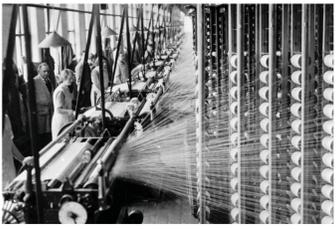


Artist impression - roofplan / circulation

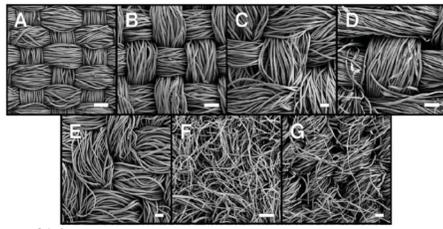


Artist impression - Rumford street

"The MECD should link the University to the City of Manchester and showcase the strong heritage of both the University and the City. However, the reflection of heritage must not override the need to show innovation in both research and education and the campus must maintain the sense of being led by the discovery of new knowledge and looking forward..."

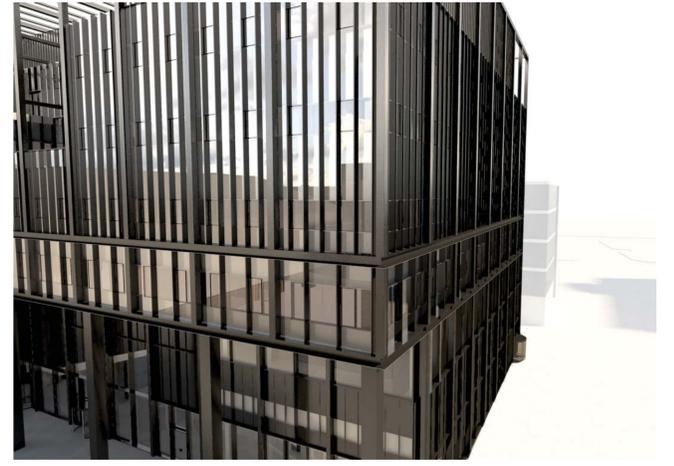


weaving cotton to nano materials



nano fabrics

translating weaving into architecture



Artist impression - façade fragment Mec Hall

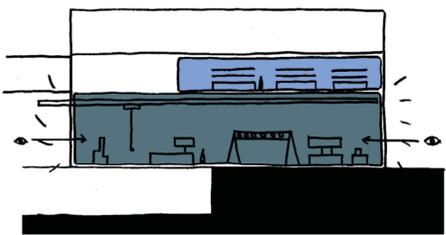
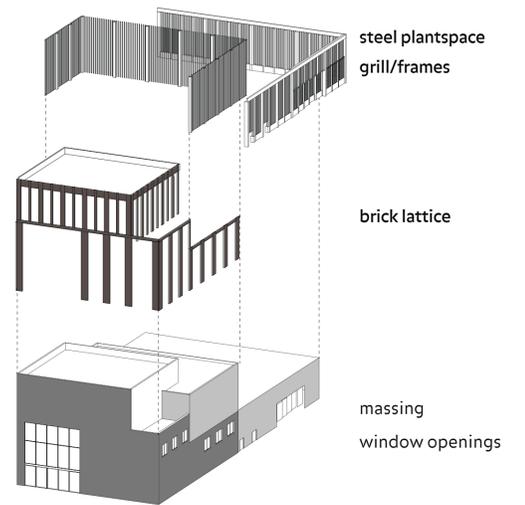
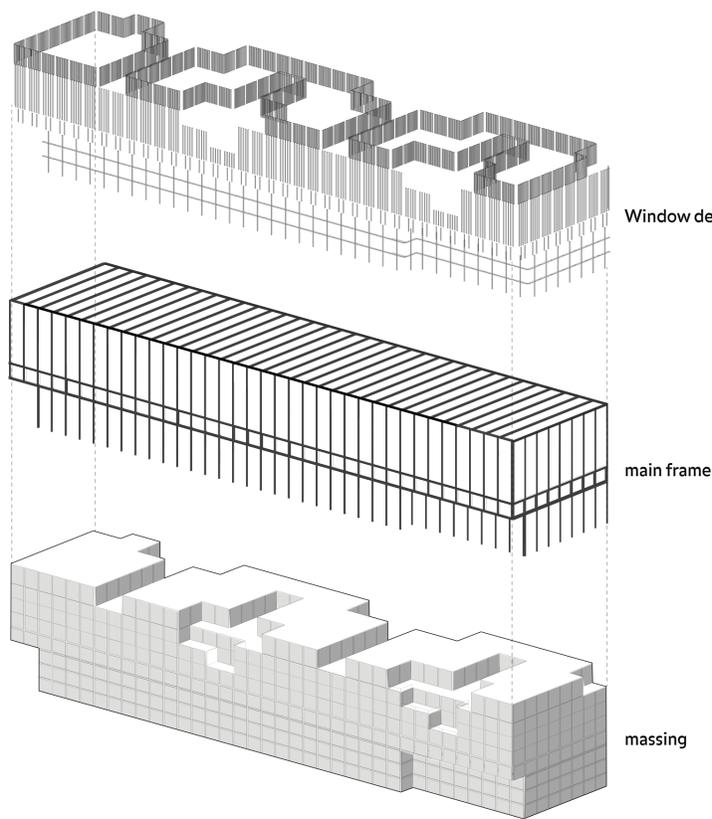
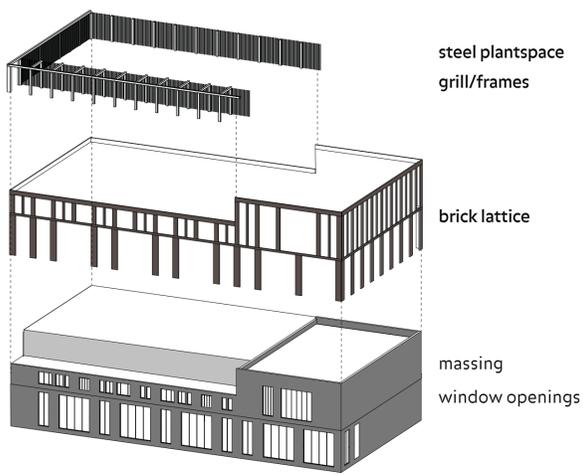


Diagram - showcasing heavy duty labs

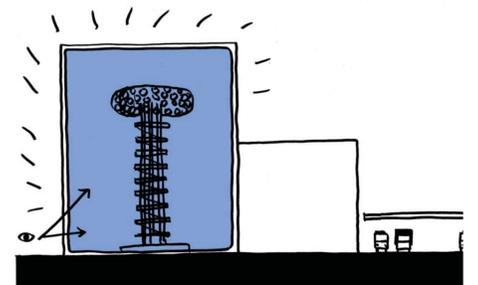
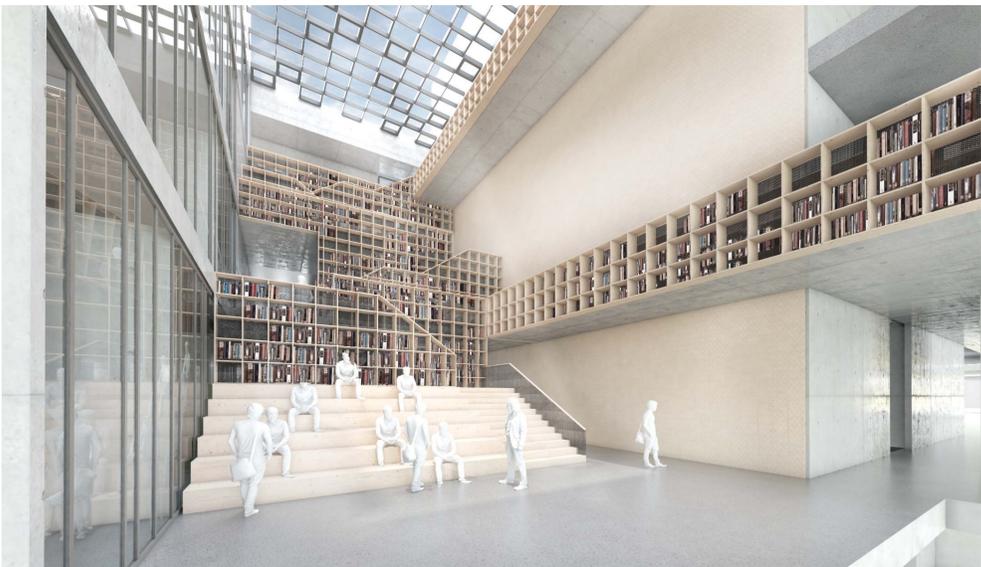
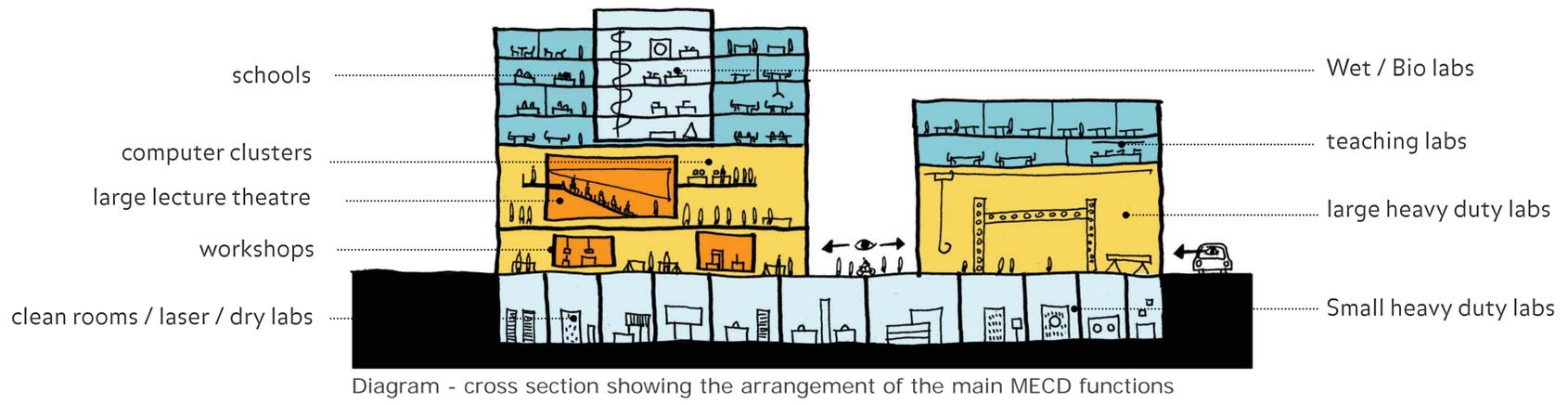


Diagram - showcasing high-voltage lab

Diagram - Mec Hall façade layers



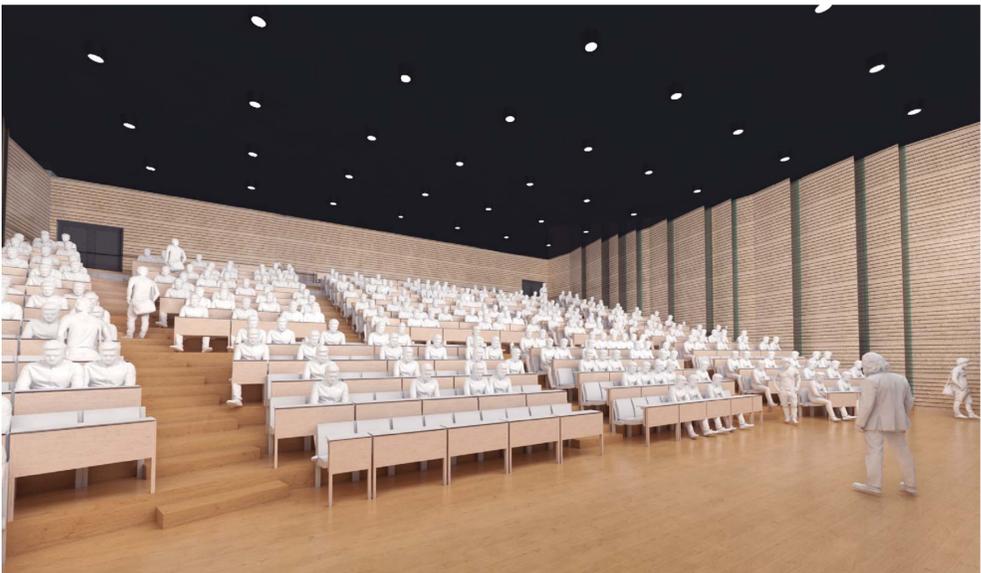
Artist impression - view from Upperbrook Street



Artist impression - school atrium



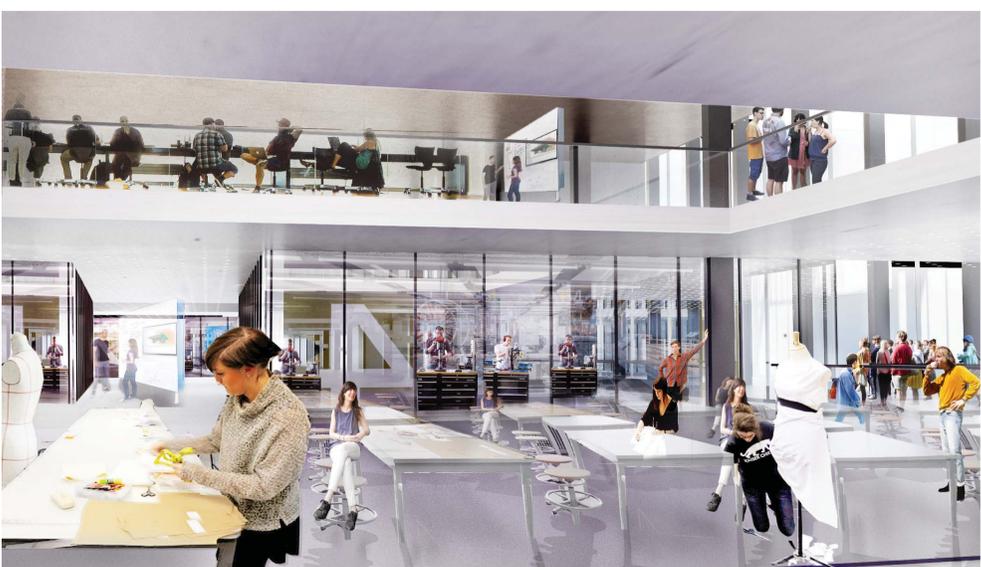
Artist impression - office space



Artist impression - 600 seat auditorium



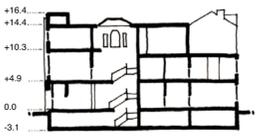
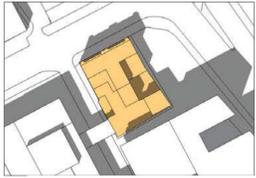
Artist impression - teaching lab



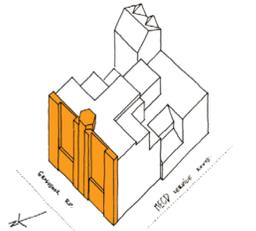
Artist impression - fashion workshop



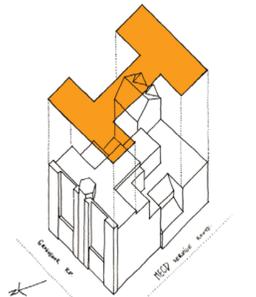
Artist impression - Internal street



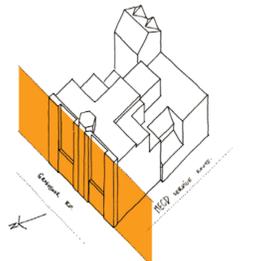
Oddfellows hall has characteristics that give it a significance within the context of the Grosvenor Rd. streetscape;



The "bold classical architectural forms" of the Northern facade were intended to form a landmark element within a continuous streetscape.



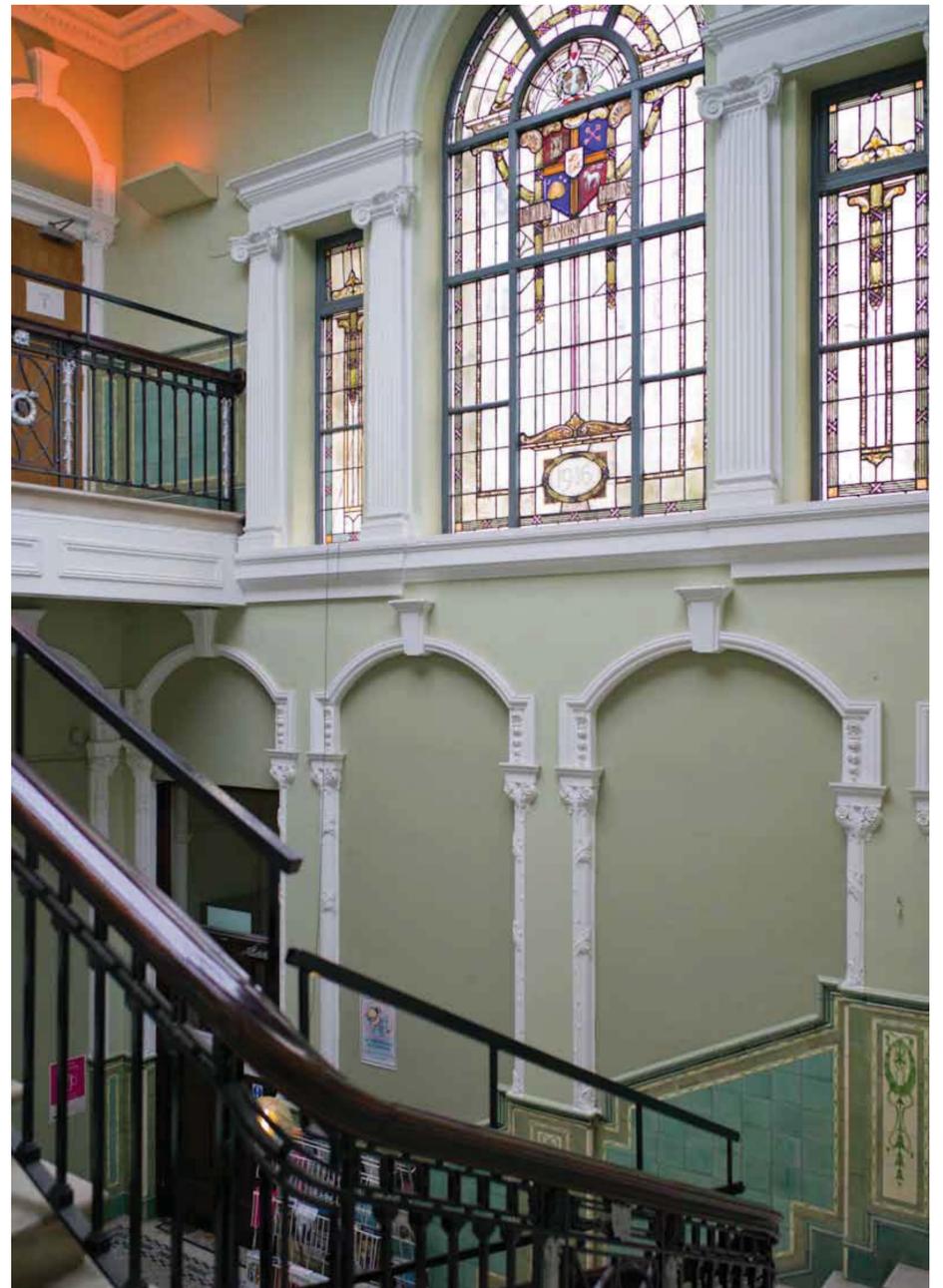
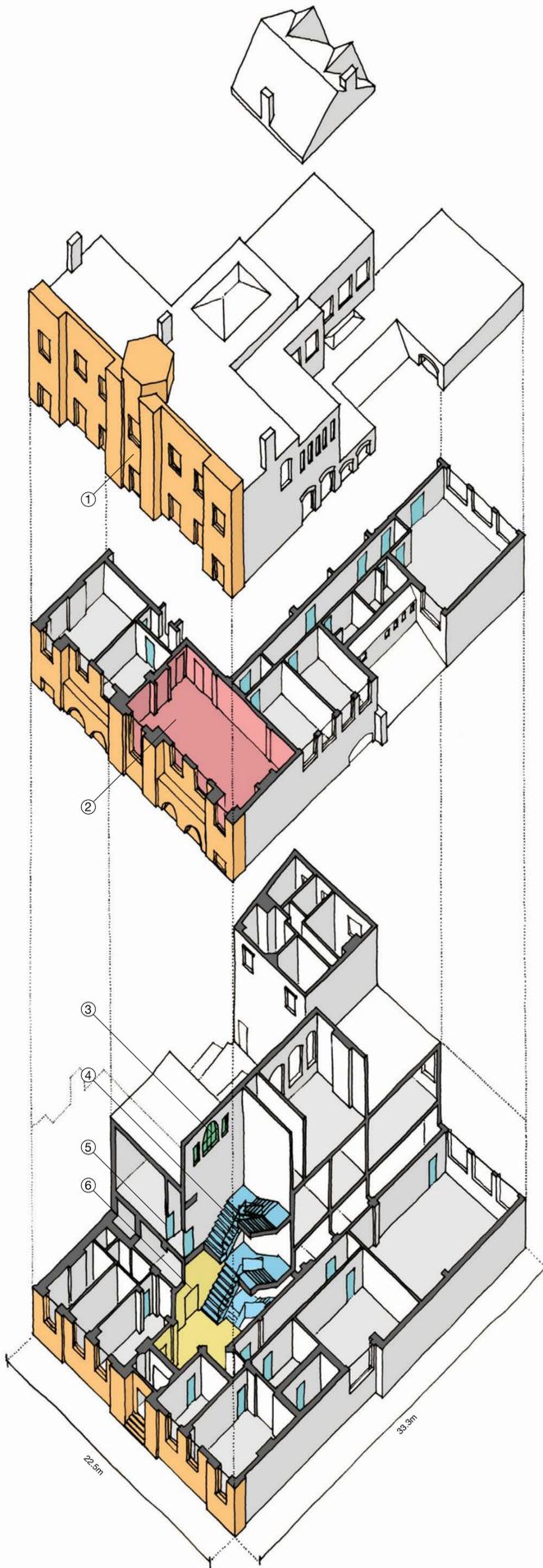
The H shaped, historic plan form, which was "designed to maximise light to the ground floor, middle rooms and central rooms to the upper storeys".



The building was intended to be part of a "continuous building line" with a "sense of enclosure" that has since been "fragmented".

In addition, features that are fundamental to the understanding of the building itself:

1. Northern "well mannered and proportioned façade".
2. 1st floor boardroom, which is "fundamental" to the "overarching architectural concept".
3. 2nd floor "Art Deco" "venetian" window, which includes the "crest and motto of the Oddfellows Society".
4. Main staircase for its "original ironwork" and "decorative plasterwork".
5. Original door and frame carpentry and other "high quality fixtures, fittings and intact decorative schemes".
6. The main entrance hall is "fundamental to the understanding of the architectural design concept".



Photos - existing situation Oddfellows hall



Artist impression - Oddfellows extension



Artist impression - restaurant Oddfellows hall