

Learning Environments Conference Designing for Inclusion Case Study: UWE Faculty of Business and Law 02.07.15



🐕 Stride Treglown





Head of Faculty Strategic Developments University of the West of England

Project Client Leader



Matt Tarling Board Director & Head of HE Stride Treglown Limited

Project Director

June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

UWE strategy 2020

Recognises the competitive market we are operating in

- Programmes
- Accreditation
- Infrastructure

UWE strategy 2020

Recognises the competitive market we are operating in

- Programmes
- Accreditation
- Infrastructure
- Facilities

UWE strategy 2020: Business case



- Create inspiring places to study and work
- Create modern, efficient, flexible and exciting spaces that can adapt and change over time as we see learning and working evolve

UWE strategy 2020: Business case





Campus 2020

 New, innovative and vibrant learning environment for staff and students, as well as providing services open to the local community that will transform the way the university operates

Faculty of Business and Law vision

 Provide a first-class teaching and learning environment comprising lecture facilities, teaching and seminar rooms, specialist learning facilities





Faculty of Business and Law vision

- Provide a first-class teaching and learning environment comprising lecture facilities, teaching and seminar rooms, specialist learning facilities
- Include specialist executive development facilities as well as space for collaboration, business development and informal learning





Faculty of Business and Law vision

Head of Faculty Strategic Developments



June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

Preparation and Brief

Capture project objectives to inform concept design Inform detailed business case

Feasibility study

- Establish amount of space required
- Space requirement basis (space standards)
- Student and staff 10 year projections
- Space modelling exercise

June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

Key stakeholder groups

- Student Partnership Services
- Academic Services
- IT services
- Catering
- Cleaning
- Equality and Diversity
- Disability Services
- Security
- Estates
- Academic staff



- Departmental engagement
- Faculty forum
- LTEG (Learning and teaching enhancement group)
- Teaching spaces group
- Staff space group
- Storage space working group
- Stakeholder workshops
- Focus groups
- Blog
- Exhibition and feedback wall
- Visits

- Departmental engagement
- Faculty forum
- LTEG (Learning and teaching enhancement group)
- Teaching spaces group
- Staff space group
- Storage space working group
- Stakeholder workshops
- Focus groups
- Blog
- Exhibition and feedback wall
- Visits

Teaching spaces group

- Space layout and configuration
- Small power and data locations
- Ways of working and curriculum
- IT strategy
- Collaborative / technology enhanced active learning
- Exam / timetabling / space planning
- Student requirements
- Furniture

- Departmental engagement
- Faculty forum
- LTEG (Learning and teaching enhancement group)
- Teaching spaces group
- Staff space group
- Storage space working group
- Stakeholder workshops
- Focus groups
- Blog
- Exhibition and feedback wall
- Visits

- Departmental engagement
- Faculty forum
- LTEG (Learning and teaching enhancement group)
- Teaching spaces group
- Staff space group
- Storage space working group
- Stakeholder workshops
- Focus groups
- Shadowing 'in their shoes'
- Blog
- Exhibition and feedback wall
- Visits

- Departmental engagement
- Faculty forum
- LTEG (Learning and teaching enhancement group)
- Teaching spaces group
- Staff space group
- Storage space working group
- Stakeholder workshops
- Focus groups
- Shadowing 'in their shoes'
- Blog
- Exhibition and feedback wall
- Visits

- Departmental engagement
- Faculty forum
- LTEG (Learning and teaching enhancement group)
- Teaching spaces group
- Staff space group
- Storage space working group
- Stakeholder workshops
- Focus groups
- Shadowing 'in their shoes'
- Blog
- Exhibition and feedback wall
- Visits

Visits

- Cardiff Metropolitan University
- Cass Business School
- Nottingham Trent University
- Manchester Metropolitan University
- Exeter University
- Newcastle University
- Northumbria University
- University of Reading
- Environment Agency HQ

June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

Planning: 3D representation

Floor plans Moving away from the flat floor plan

Planning: 3D representation

Envelope design development Moving away from the flat elevation June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

A collaborative 'living building'

'A building to promote collaboration which all staff, students and visitors want to spend time in'

Open and transparent building

- Central hub to the building
- Open circulation routes (moving away from corridors)

•Spaces to collaborate

- A variety of social learning spaces
- Breakout spaces and rooms (including bookable rooms)

•Cafe

• Shared learning café

Inclusive and flexible building

' A building for all which is able to respond to the changing needs of its occupants and the inevitable changes that will occur in higher education over the coming years'

•Agile and responsive

- Flexible convertible spaces
- Multi-use spaces

Balanced building

 Also dedicated spaces that feel permanent and give the building legibility

Environmental Comfort

'Conditions within occupied space optimised for comfort almost to the point where users do not realise it'.

•Passive solutions wherever possible

- Maximising daylight (with control)
- Natural ventilation (wholly or mixed mode)

Acoustic control and comfort

- Acoustic insulation (appropriate for use)
- Acoustic audibility (for all)

Visual comfort

- Visual contrast (best practice)
- Legibility and wayfinding (building form and colour)

June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

BIM: 'Building Information Modelling'

- A collaborative process of virtual design, construction and management of buildings.
- The use of BIM unites design phase; construction phase and post construction phases (including facility management).

Aim

• To make the construction process more efficient and eliminate uncertainties before construction, to reduce cost.

FBL: 3D representation

Internal space interrogation Utilising 3D navigable software

Collaborative working

Design Team

BIM workshops every 2 weeks

Building End User

Provided with Revitzo model on iPad Provided with extensive 3D information (client contributed to animation with narration)



Client FM & Estates Department

Design team set the BIM protocols and standards for all future projects

FBL: 3D representation

Communication of Design Moving away from 2D information

BIM: Client communication

- Presenting information in a more coherent, interactive and accessible way.
- Moving away from flat 2D visual communication
- Utilising the federated 3D model
- Making the design process transparent and engaging
- Making data and modelled information available
- Make the design process efficient and eliminate uncertainties before construction in order to eliminate uncertainties before construction to prevent variations and ultimately drive down cost

June 2013 Project inception Business case & masterplan

Feasibility

Engagement

Design development

Inclusion and flexibility

BIM and no surprises

Jan 2017 Building opens

Going forward: what's next?

Going forward: What's next?

• Contractor on site:

Enabling works complete and concrete frame starting.

• Final FFE arrangements:

Stakeholder engagement continues to inform loose furniture, fittings and equipment for procurement.

• Small power and data:

Stakeholder engagement to finalise positions of small power and date across the building.

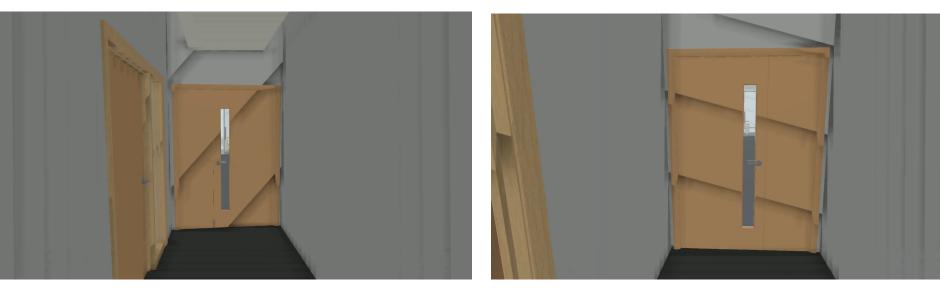
Any Questions?

stridetreglown.co.uk





Revizto model



Option 1

Option 2



Client navigation through working model on iPad

Main contractor appointment

- ISG have been appointed as the main contractor for the new FBL building
- construction work started in May 2015
- ISG is an international construction services company, with strong education sector credentials, delivering fit out, construction, engineering services and specialist solutions, operating in 28 countries worldwide.

Enabling works

- enabling works now complete
- in excess of 350 piles in the ground
- protruding reinforced steel bars forming the structure of the building i.e. columns and walls
- hoarding erected around the perimeter of the site
- hoarding runs adjacent to the public right of way so work being done to improve long-term movement of pedestrians and cyclists

Project team

Project team Procurement of project team Project manager Architects/design team QS

https://fblnewbuild.wordpress.com/

Engagement activities

IT

ITS 2020 strategy and new build Four major principles in the IT/AV design to enable and facilitate:

the best possible teaching and learning using appropriate technology in a cost effective manor that is simple to use

that is flexible for the future

Where are we currently?

- Confirming configuration of spaces
- Small power and data
- Furniture procurement
- What's next?

Specialist space stakeholders

- Trading room
- Law courts
- Professional law
- Executive education
- Research centres
- PhD student space

Conclusions

Improve the learning environment to retain students and improve student retention for all equality groups.

Retention of staff and attract new talent to the University

Provide a healthy positive environment for all to work, study and socialise.

Incorporate new strategies to measure internal space performance creating a benchmark from which to measure continuous improvement.