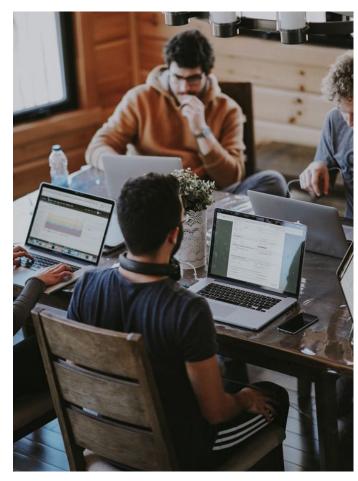
Presentation 5



One-size doesn't fit all















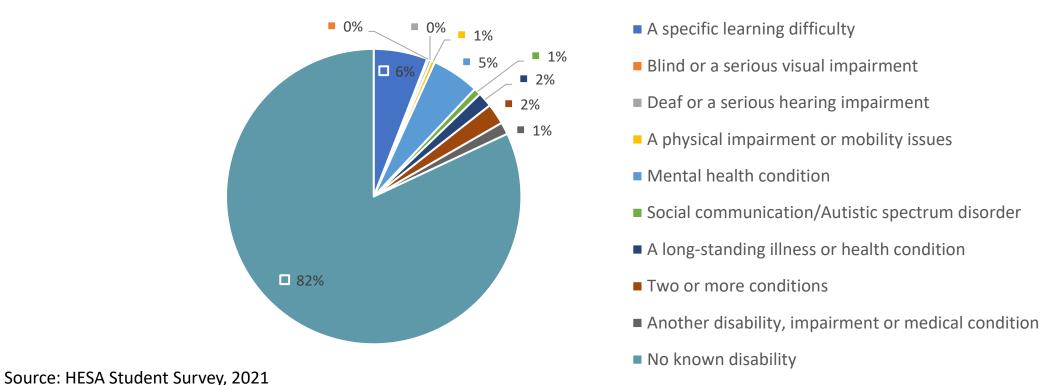


Diverse needs



15% of students in 2020/21 were known to have a disability.

This has increased in recent years largely due to students reporting mental health conditions or a specific learning difficulty such as dyslexia, dyspraxia or AD(H)D.



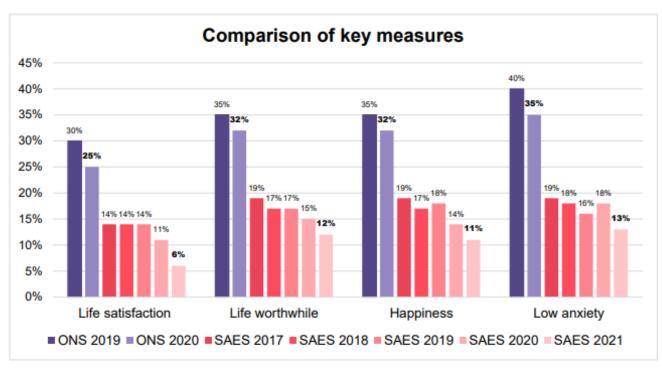
Mental health



5% of students reported a mental health condition in their university applications.

In contrast to formally reported conditions, around 40% of students may fit criteria of mental health condition (2020/21)





Percentages calculated from all respondents scoring 9–10 out of 10 for life satisfaction, life worthwhile, happiness; 0–1 out of 10 for anxiety.

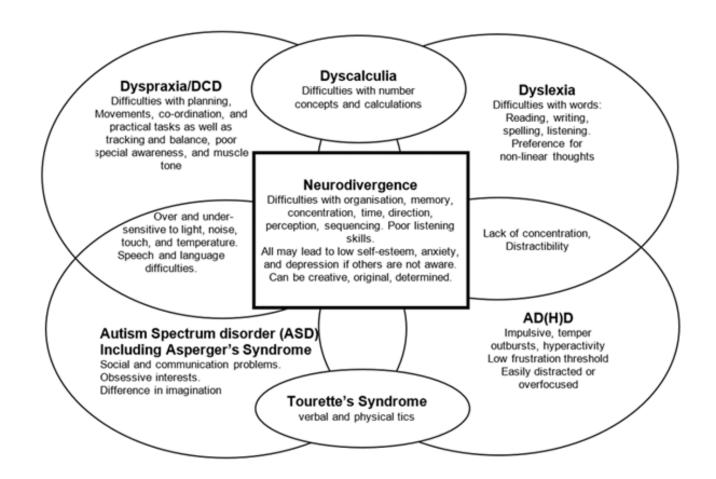
Neurodiversity



1% of students reported autism spectrum disorder in their university applications.

6% of students reported a learning difficulty in their university applications.

It is estimated that around 1 in 7 people in the UK are **neurodivergent (14%)**





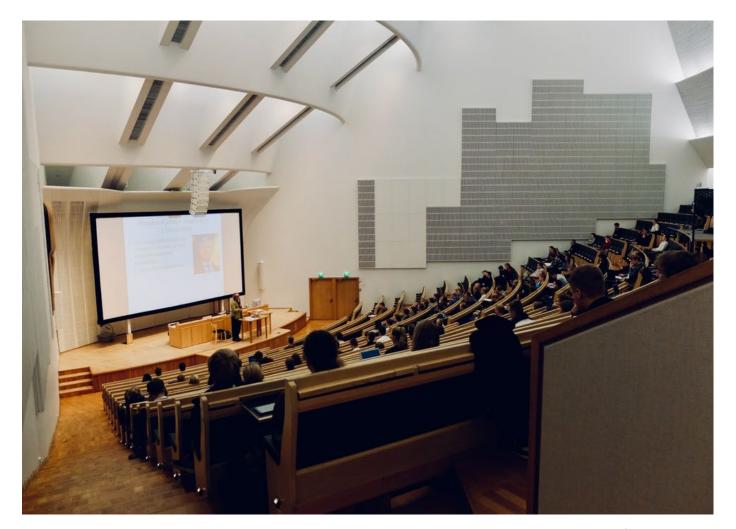
The challenge of existing estates



In 2021 student network People and Planet annual <u>sustainability university league</u> found that:

46% of higher education institutions were on course to meet the target, up from a third in 2019.

But majority were still not on track to meet the target set for the 2020-21 by Hefce



Source: Majority of universities in UK 'not on track to meet emissions targets' | Universities | The Guardian

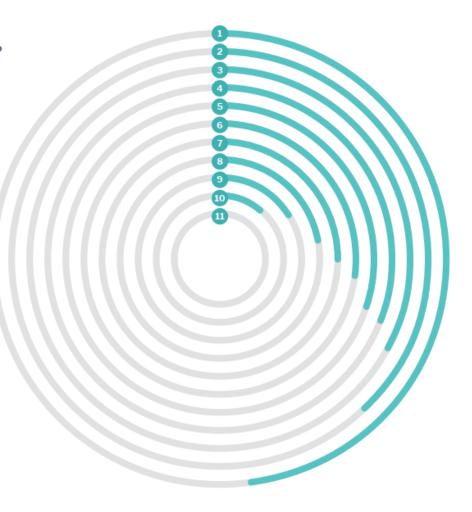
Student expectations - Sustainable Campus





Q. Which methods of reducing climate change should your university prioritise?

- 1. REDUCE BUILDING CARBON (48%)
- 2. REDUCE ENERGY USED IN HEATING/ COOLING (38%)
- 3. INFORM STUDENTS ABOUT CARBON REDUCTION (33%)
- 4. REDUCE CARBON IMPACT OF TRANSPORT (31%)
- 5. COMMUNITY CARBON REDUCTION PROJECTS (30%)
- 6. IMPROVE BIODIVERSITY ON CAMPUS (27%)
- 7. REDUCE CARBON IMPACT OF FOOD CONSUMED (25%)
- 8. INCREASE IN ONLINE TEACHING & RESEARCH (22%)
- 9. PLAN FACILITIES FOR MORE EXTREME WEATHER EVENTS (16%)
- 10. IMPROVE LOCAL COMMUNITY ACCESS TO UNIVERSITY FACILITIES (11%)
- 11. SOMETHING ELSE (1%)

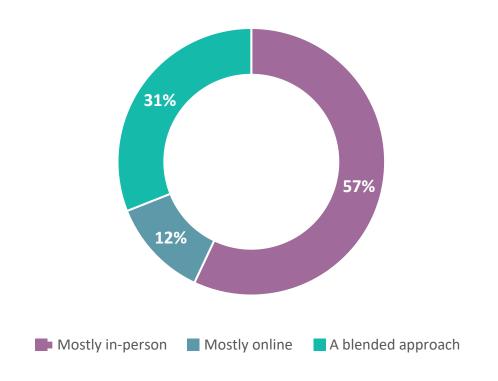


Source: HEDQF Survey Views, Sustainable Campus, 2020





If there were no pandemic restrictions, how would you prefer to learn?



Source: HESA Student Survey, 2021

Questions



What are the biggest challenges you are seeing post-pandemic?

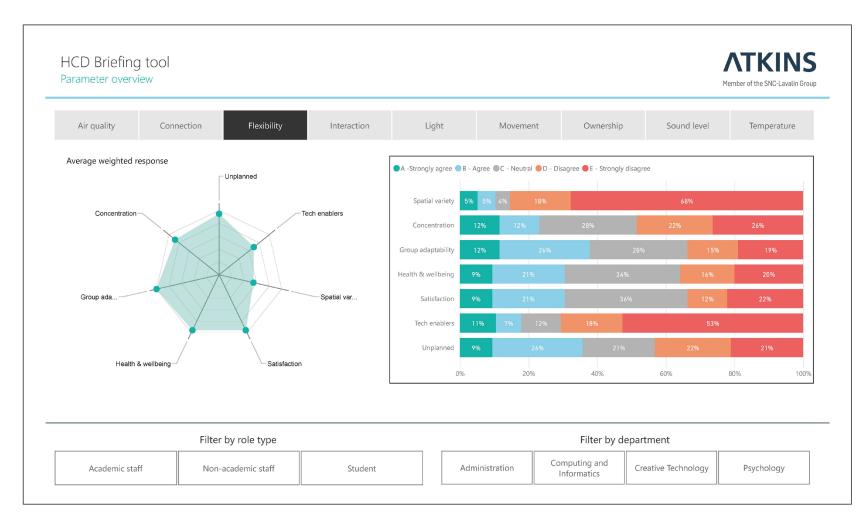
Is this changing how future plans for your estates, or how you think about estates planning?

Do you think priorities have changed?

Human-Centred Design Tool







The alignment of plan and wellbeing factors





Wellbeing factors













Undertakes a wide variety of working activities & meetings

Less concerned with privacy

Values phyiscal proximity to colleagues, but not a visual connection

Concerned with impact of workplace density on sound levels

Key activities & preferred spatial attributes



Desk based research

Desk / work station (87%) Quiet environment (84%) Natural light (69%) Privacy (47%)



University colleagues Privacy (72%) Near colleagues (47%) Ouiet environment (44%) Adaptable furniture (37%)











Spend most of their time working alone or with collegaues in same department

Values collaboration, but interaction is less frequent and mostly planned

Prefers to work in a quiet environment

Concerned with background noise

Key activities & preferred spatial attributes



Desk based research

Quiet environment (82%) Natural light (70%) Desk/work station (67%) View outside (50%)



Adaptable furniture (53%) Near colleagues (42%) Natural light (39%) Quiet environment (37%)



Wellbeing factors









Spend most of their time working alone in their own building

More sedentary than other groups due to nature of work

Requires moderate privacy, mostly visual

Not as concerned with workplace density

Key activities & preferred spatial attributes

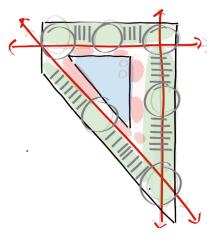


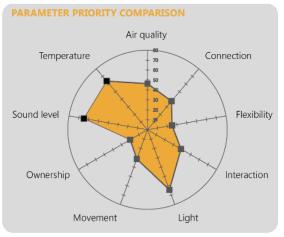
Desk based research

Desk /work station (81%) Quiet environment (75%) Natural light (50%) Privacy (37%)



Writing papers / assignment Quiet environment (94%) Desk / work station (75%) Natural light (44%) Privacy (31%)





Collaboration and Atrium

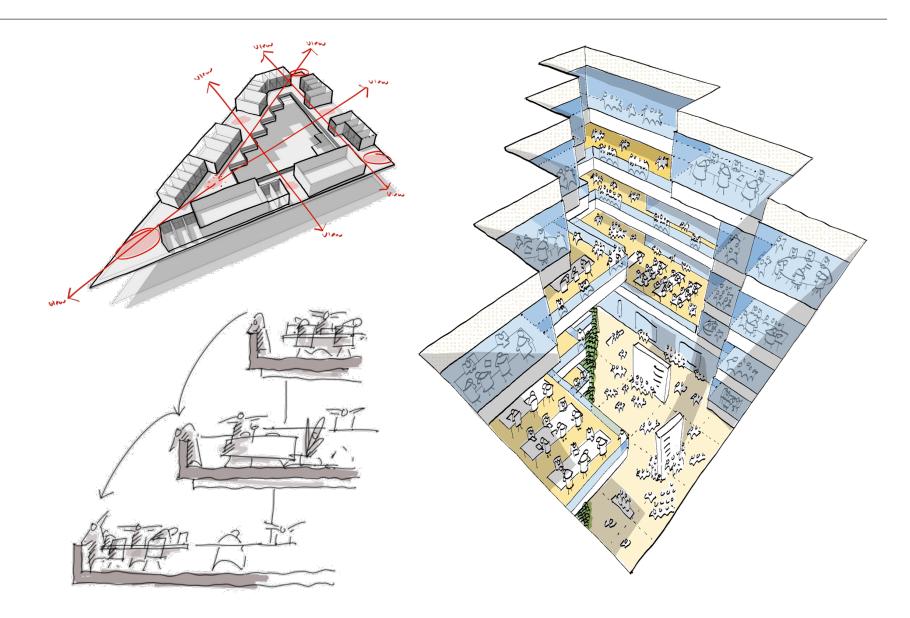


Delivering a 3dimensional spatial order

Allows workspace to relate to collaboration space and the atrium

Spaces clearly related to each other

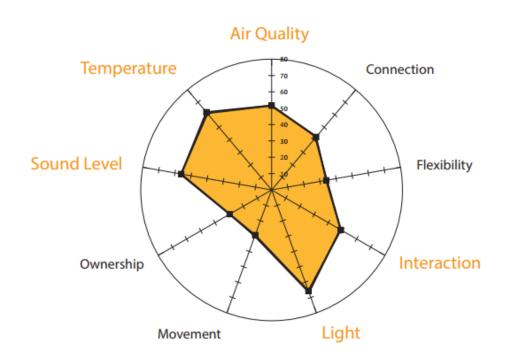
Creation of inbetween spaces between atrium and workspaces

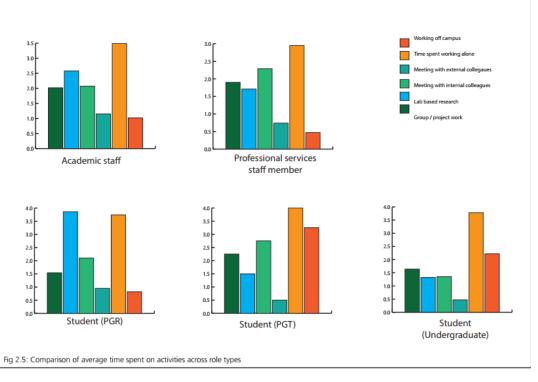


HCD & refurbishment projects



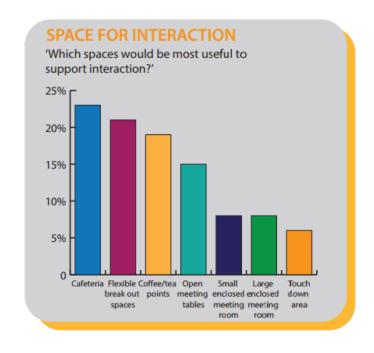
University of Bristol, Biomedical Building Interior refurbishment HCD briefing tool

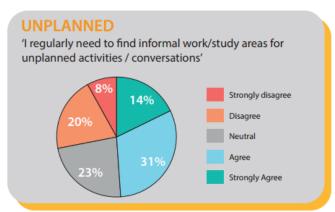










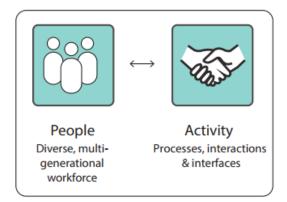




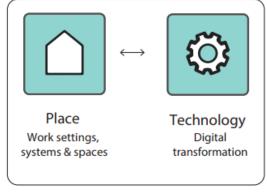
Evolving our approach



Operational approach



Physical & Digital Requirements

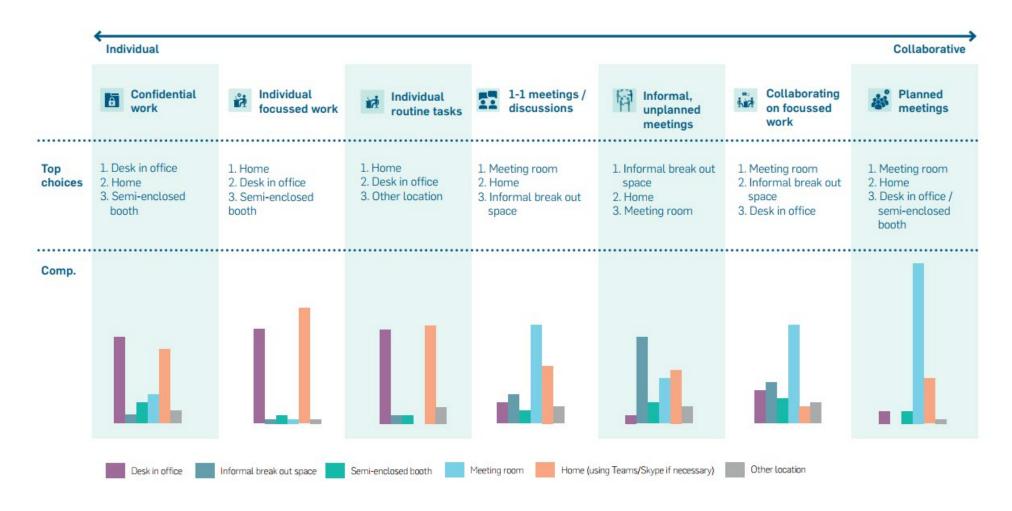


To help us understand how different activities and interactions may be assisted by					
technology we would like to know your views on the use of technology.					
Read the following statements and indicate to what extent you agree or disagree with them					
	Strongly				Strongly
	agree	Agree	Neutral	Disagree	disagree
I see the workplace as an essential space for problem-solving	0	0	0	0	0
I would be willing to use new technologies to improve my work	0	0	0	0	0
I am more motivated when I work in a technologically well-equipped environment	0	0	0	0	0
Innovative ideas often come from chance meetings with people	0	0	0	0	0
Technology is an important factor for innovation	0	0	0	0	0
If I had a more flexible technology solution I would choose to work in different spaces for different tasks	0	0	0	0	0
Technology to enable collaboration within the office is important for my team	0	0	0	0	0

Where to work?



Considering an ideal future working environment, where would you choose to do the following tasks?



Defining design drivers





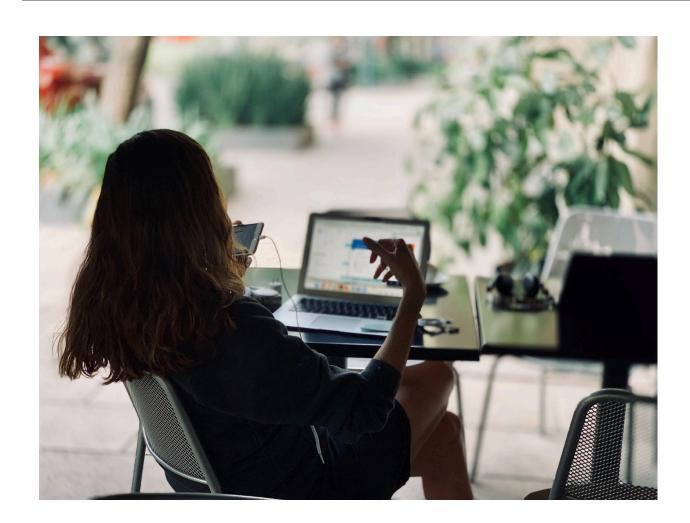


SCALE

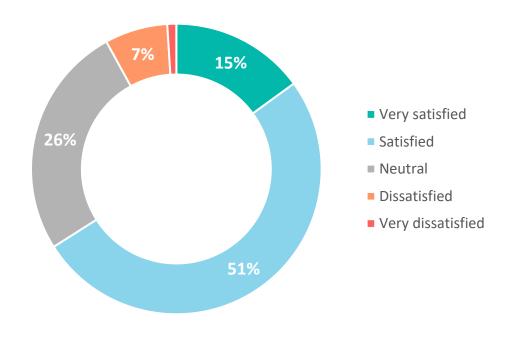


Technology





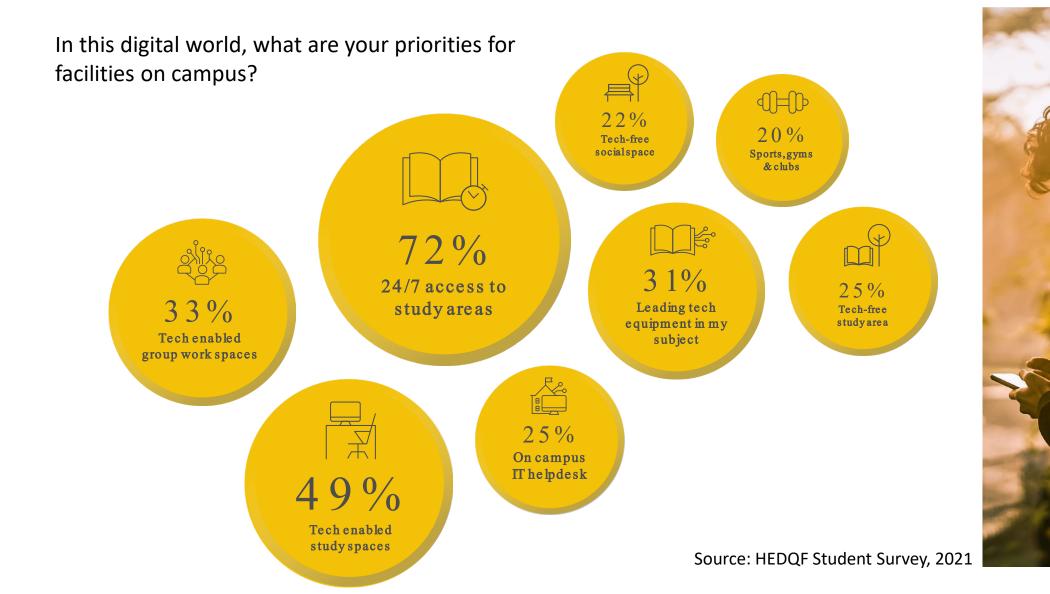
Satisfaction with the use of educational technology



Source: HESA Student Survey, 2021

Digital future





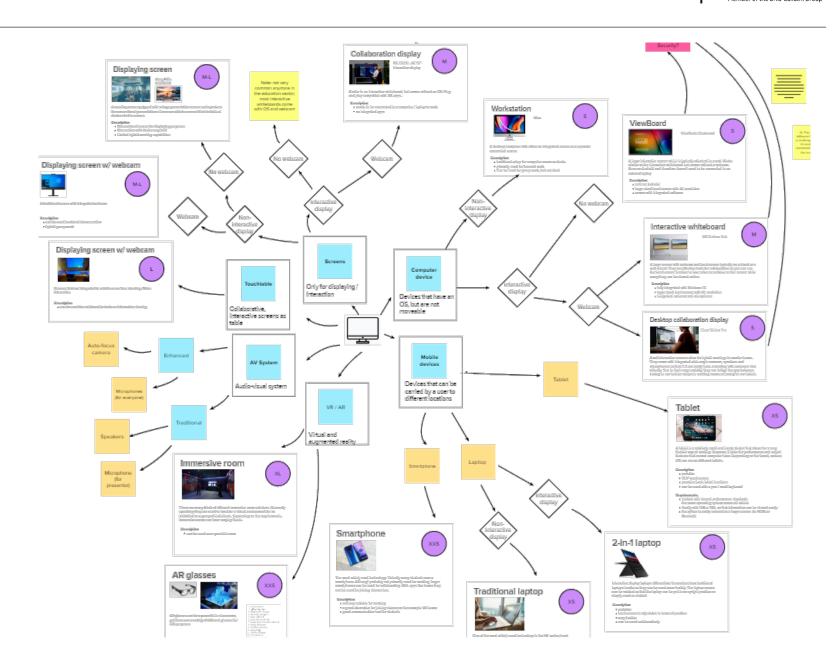
building design.











Question



What are the changes you are seeing in requirements?

Is it technology, different space types, different teaching methods?

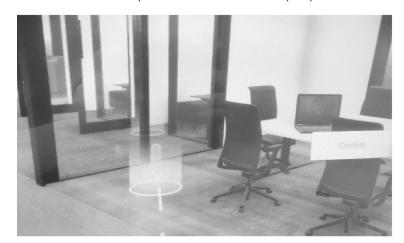
Do staff and students have different expectations now?

Evolving technology





Desktop Questionnaire on laptop



Location selection in VR



Participant making selections in VR



Participant making navigating the space in VR



Questionnaire in VR



VR headset and Virtual Office

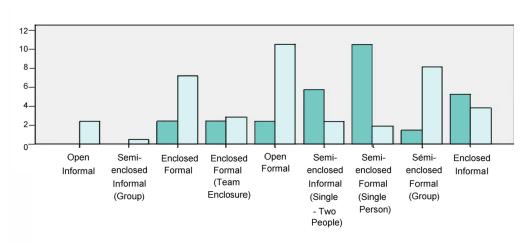
Understanding different preferences

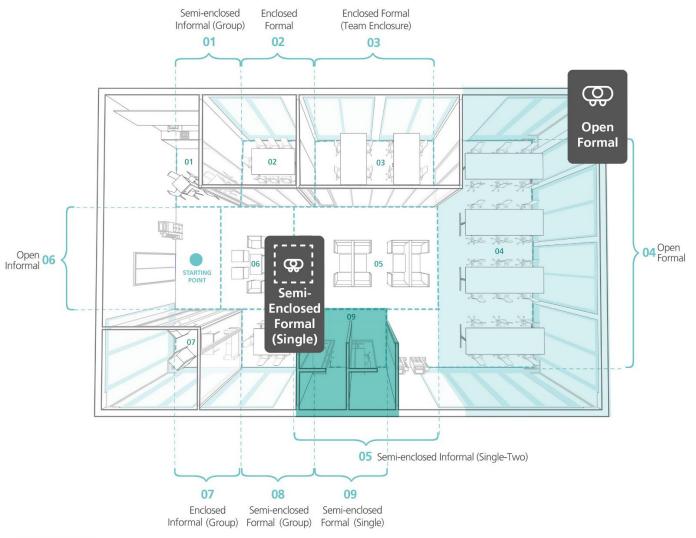


Personal trait difference:

- Territorial
- Non-Territorial

Preferred Spaces











How do you engage with your end users to understand this? Has this changed?

Are there changing expectations from students and staff post – pandemic?



Closing Remarks

