LEARNING SPACE FORECAST:

Spatial Impact of the Horizon Report 2015

WOODS BAGOT™

What trends & technologies will impact your campus in the next 5 years?

2015 Horizon Report:

6 x trends

6 x technologies

6 x challenges

http://cdn.nmc.org/media/2015-nmc-horizon-report-HE-EN.pdf

TRENDS	
1 - 2 YEARS	1. Increased Blended Learning 2. Redesigning Learning Spaces
3 - 5 YEARS	1. Growing Focus on Measuring Learning 2. Proliferation of Open Educational Resources
> 5 YEARS	1. Advancing Cultures of Change & Innovation 2. Increasing Cross-Institution Collaboration

TECHNOLOGIES	
< 1 YEAR	1. Bring Your Own Device (BYOD) 2. Flipped Classroom
2-3 YEARS	1. Makerspaces 2. Wearable Technology
4-5 YEARS	1. Adaptive Learning Technologies 2. The Internet of Things

CHALLENGES	
SOLVABLE	1. Blending Formal & Informal Learning 2. Improving Digital Literacy
DIFFICULT	1. Personalising Learning 2. Teaching Complex Thinking
WICKED	1. Competing Models of Education 2. Rewarding Teaching

Trends

Trends

1 - 2 years

1. Increased use of blended learning
2. Redesigning learning spaces

3 - 5 years

1. Growing focus on measuring learning
2. Proliferation of open educational resources

5 + years

1. Advancing cultures of change & innovation
2. Increasing cross-institution collaboration

Trends

1 - 2 years

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5 + years

1. Advancing cultures of change & innovation
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Blended Learning = F2F + online

1. Increased use of blended learning

22%

The percentage of UK Open University graduates who completed their course[1]

1 http://www.94669.mrsite.com/USERIMAGES/Retention%20literature%20review.pdf

Blended Learning = F2F + online

1. Increased use of blended learning

Spatially
- access to wi-fi in classrooms & informal learning
- access to digital infrastructure in classrooms & informal learning
- enable various concurrent activities
- BYOD friendly
- media hubs (individual & group) with acoustic treatment

UTS Building 5 | Architects: Woods Bagot

UNSW Business School | Architects: Woods Bagot

UTS Transaction Zone | Architects: Woods Bagot

Trends 1 - 2 years

2. Redesigning learning spaces

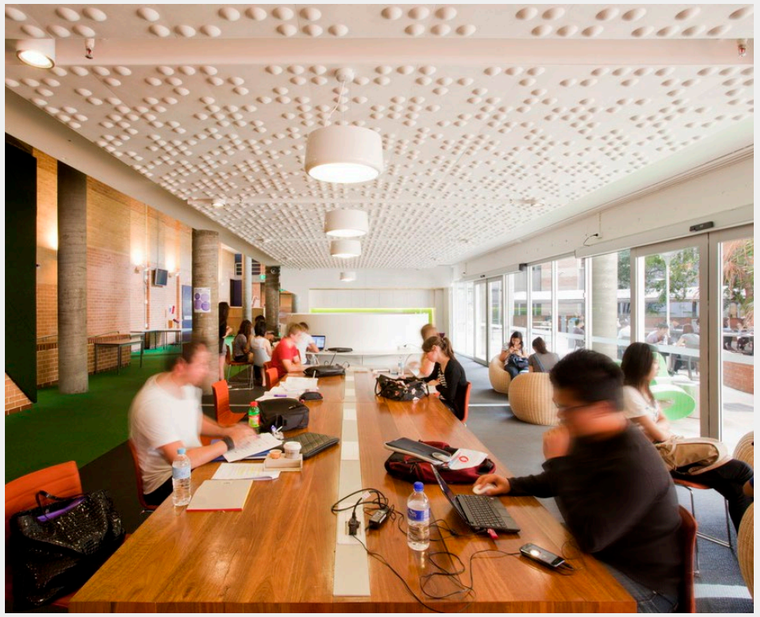
Trends 1 - 2 years

From these:

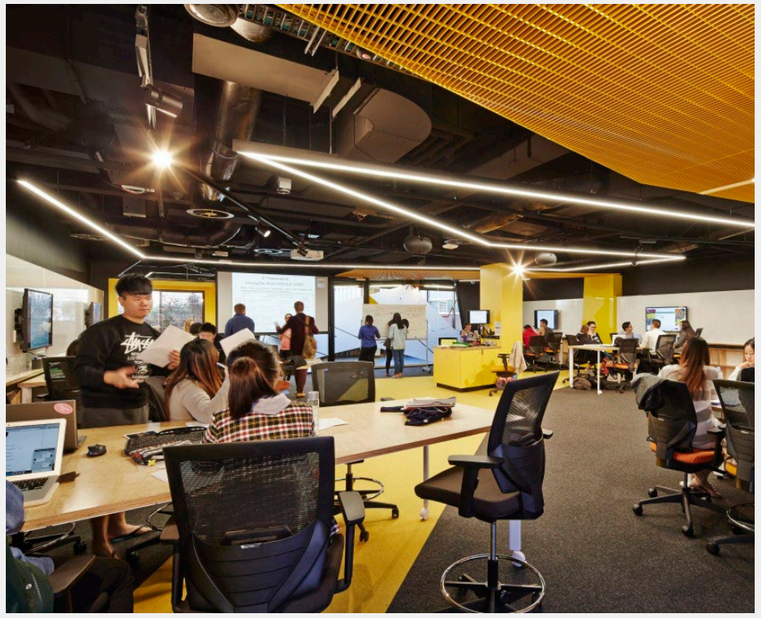
Trends 1 - 2 years

From these:

To these:



UTS, Building 5 | Architects: Woods Bagot



UNSW Business School | Architects: Woods Bagot

University of Melbourne Learning Lab | Architects: Blomquist Wark

Trends 3 - 5 years

2. Proliferation of open educational resources

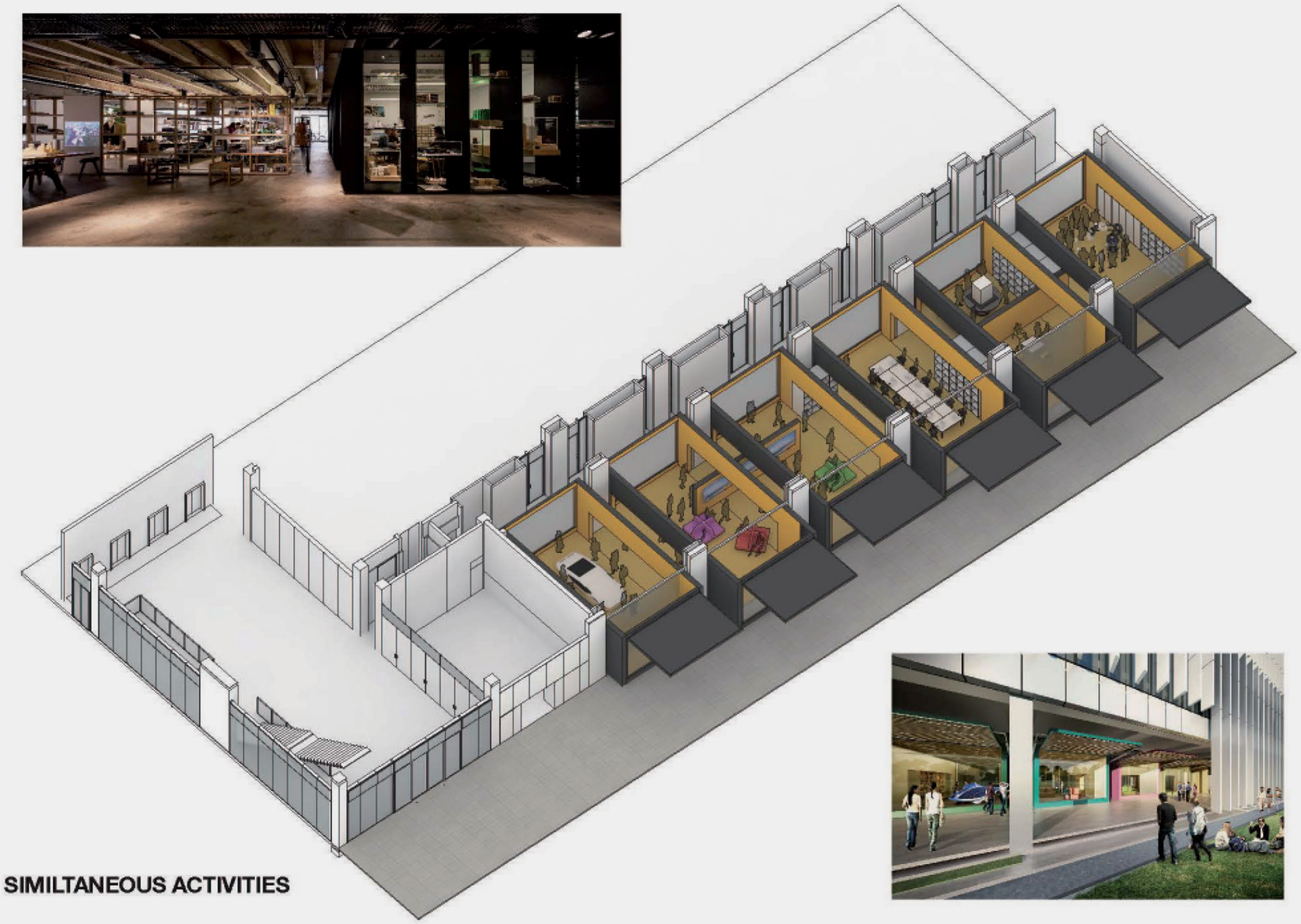
Trends 3 - 5 years

2. Proliferation of open educational resources

Spatially
- less demand for lecture theatres
- more demand for informal learning spaces
- demand for media hubs (individual & group) for viewing online content

Trends 5 + years

1. Advancing cultures of change & innovation



Entrepreneurial & Creative Thinking with industry partners to solve the world's problems

UNSW Innovation Lab concept | Architects: Woods Bagot

Technologies

Technologies

< 1 year

1. Bring Your Own Device (BYOD)
2. Flipped Classrooms

2 - 3 years

1. Makerspaces
2. Wearable technology

4 - 5 years

1. Adaptive Learning Technologies
2. The Internet of Things

Technologies

< 1 year

1. Bring Your Own Device (BYOD)
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2 - 3 years

1. Makerspaces
2. Wearable technology

4 - 5 years

1. Adaptive Learning Technologies
2. The Internet of Things

Technologies <1 year

1. Bring Your Own Device (BYOD)

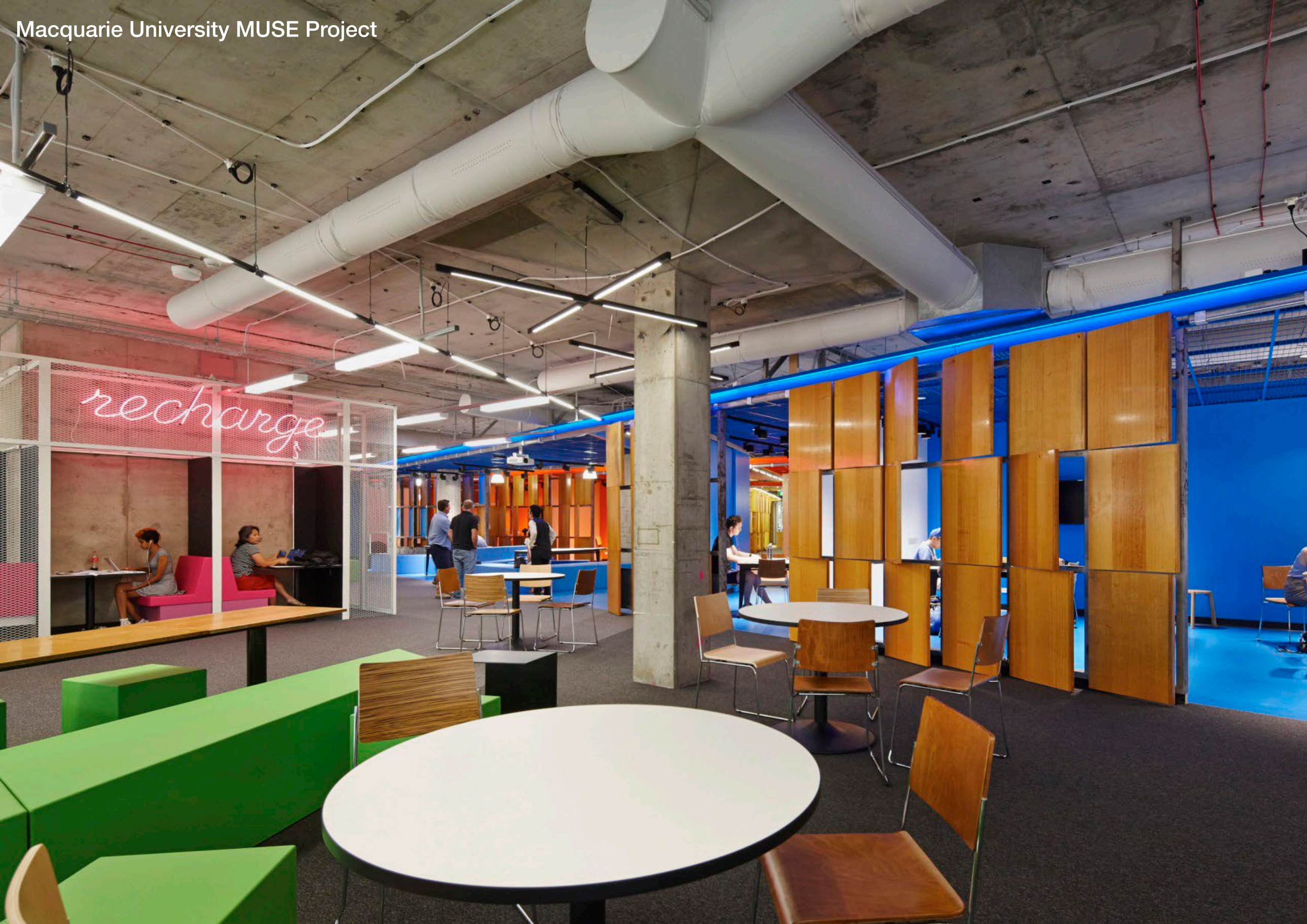
Spatially
- no computer labs
- more informal learning spaces distributed across campus
- cafes as learning spaces
- classrooms designed for connectivity

UTS, Building 5 | Informal Learning Spaces

UNSW Business School | Flipped Classroom precinct

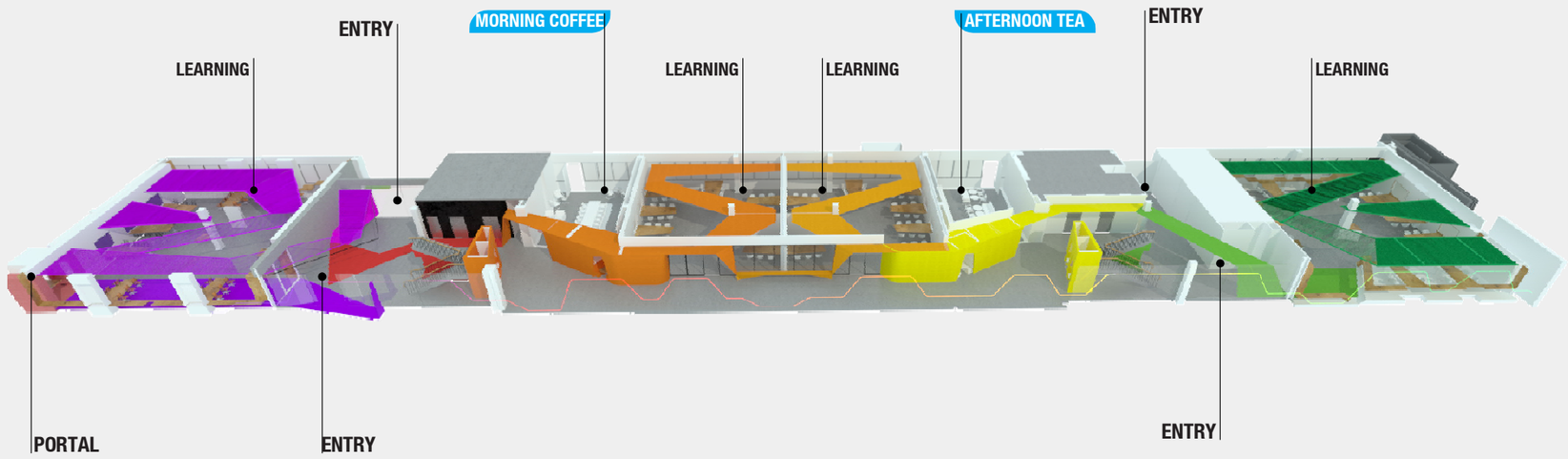
UNSW Business School | Flipped Classroom precinct

Macquarie University MUSE Project



Technologies <1 year

2. Flipped Classrooms



UNSW Australian School of Business | Architects: Woods Bagot

2. Flipped Classrooms

What did we learn?

- student-centred experience
- mobility of furniture
- plug in & play technology
- capacity 48/60
- equity of experience
- high & low tables
- colour

UNSW claims

1. Students get to know their peers better;

2. Students generate ideas easier.

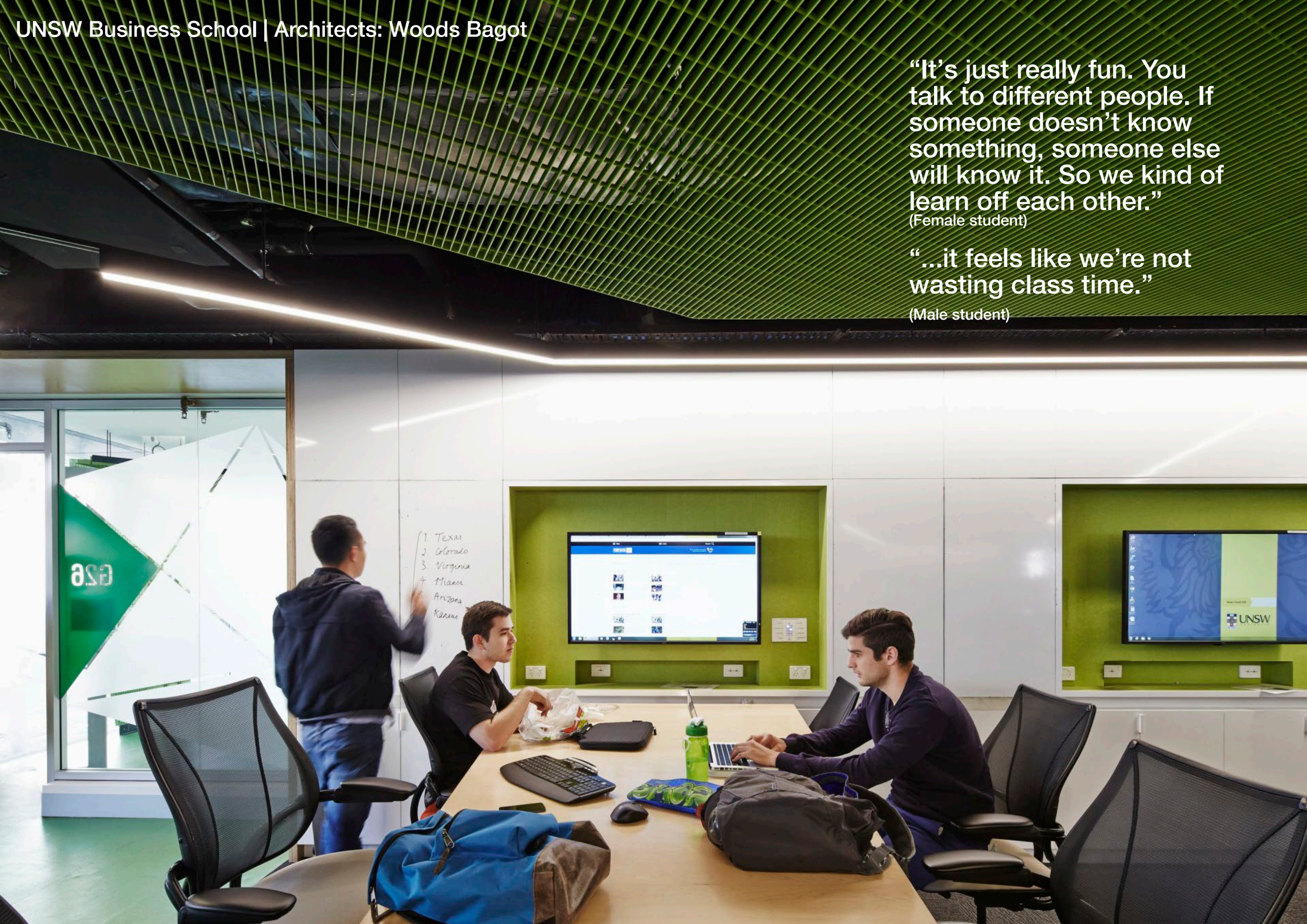
UNSW Business School | Architects: Woods Bagot

"It's much more entertaining and interesting. And I find that the knowledge sticks a bit easier compared to sitting through a two hour lecture..."
(Male student)

UNSW Business School | Architects: Woods Bagot

“It’s just really fun. You talk to different people. If someone doesn’t know something, someone else will know it. So we kind of learn off each other.”
(Female student)

“...it feels like we’re not wasting class time.”
(Male student)



UNSW Business School | Architects: Woods Bagot

“I’m definitely enjoying my teaching more.”
(Academic)

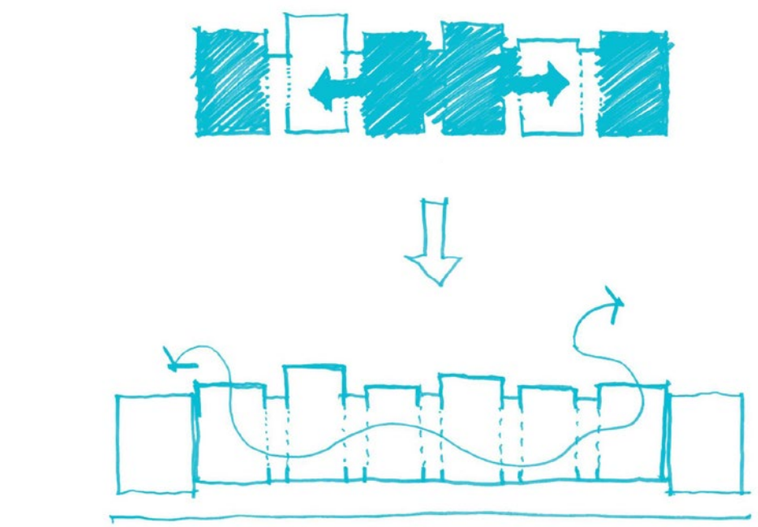
Technologies 2 - 3 years

1. Makerspaces

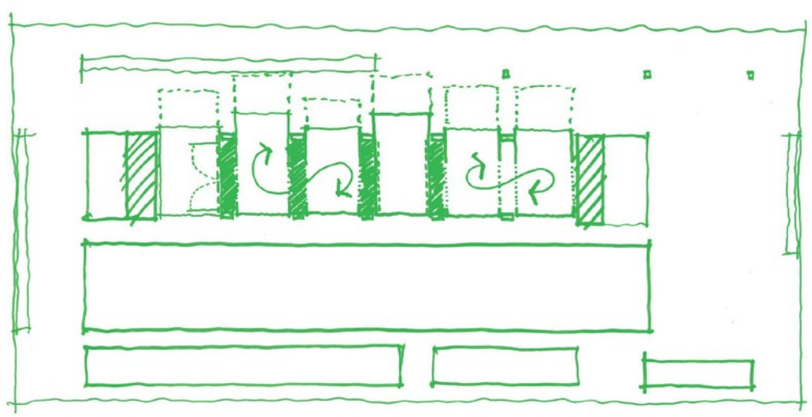
Key factors

- multidisciplinary
- encourage entrepreneurs
- promote innovation
- industry mentors
- industry events
- failure is necessary
- space needs to accommodate various equipment
- space able to expand & contract
- spaces for individuals or groups
- space for confidentiality

UNSW Innovation Lab Concept | Architects: Woods Bagot



EXPANDIBLE +
CONTRACTABLE



FLEXIBLE SPACE -
TRANSFORMABLE

The campus environment is critical for attracting and retaining students.

1. Formal, informal and social learning experiences
2. Cultural exchange
3. Innovation exchange
4. Developing soft skills

HOW IS YOUR INSTITUTION DEVELOPING THE PHYSICAL CAMPUS FOR FUTURE TRENDS & TECHNOLOGIES?

WOODS BAGOT™