

# University of Birmingham Teaching Labs of the Future

Thursday 5<sup>th</sup> March 2015 Nikkie Grose and Matthew Brown

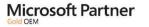
















### The Stone Vision for 2017



- Trusted Partner to the University providing holistic technologies across education
- Facilitating Immersive Teaching
- Services, Support and Project
   Management irrelevant of hardware
- At the forefront of imaginative yet practical teaching spaces

















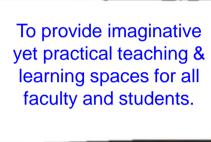


### Initial Thoughts and Concepts



Overcoming physical constraints and providing a functional and flexible learning spaces.

























## Cone of Experience



After 2 v	veeks we remember  Reading	
10%		
20%	Hearing words	PAS
30%	Looking at picture	PASSIVE
50%	Watching a movie, looking at an exhibit, Watching a demonstration, seeing it done on location  Verbal Receiving	
70%	Participating in a discussion, giving a talk participating	AC:
90%	Doing a dramatic presentation, simulating the real experience, doing the real thing	ACTIVE















































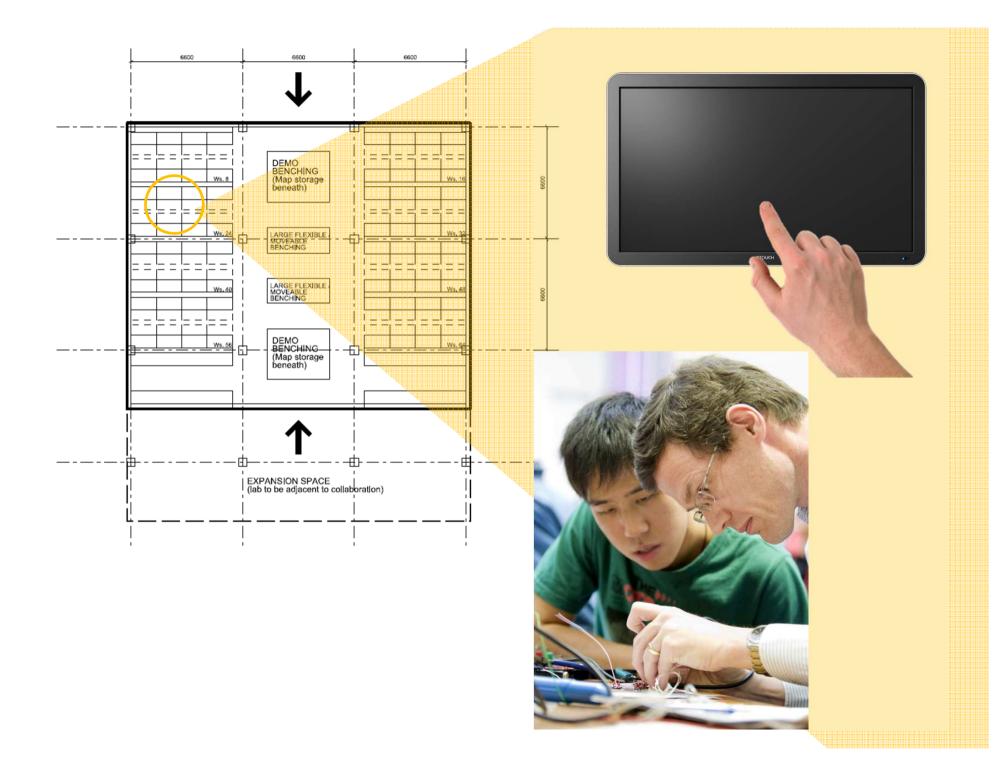




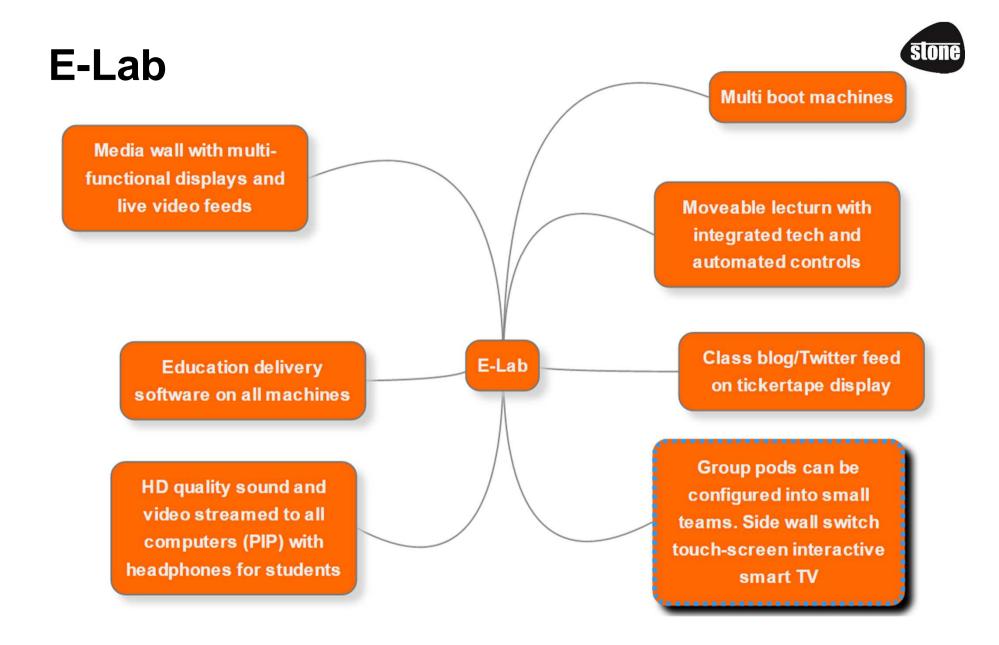


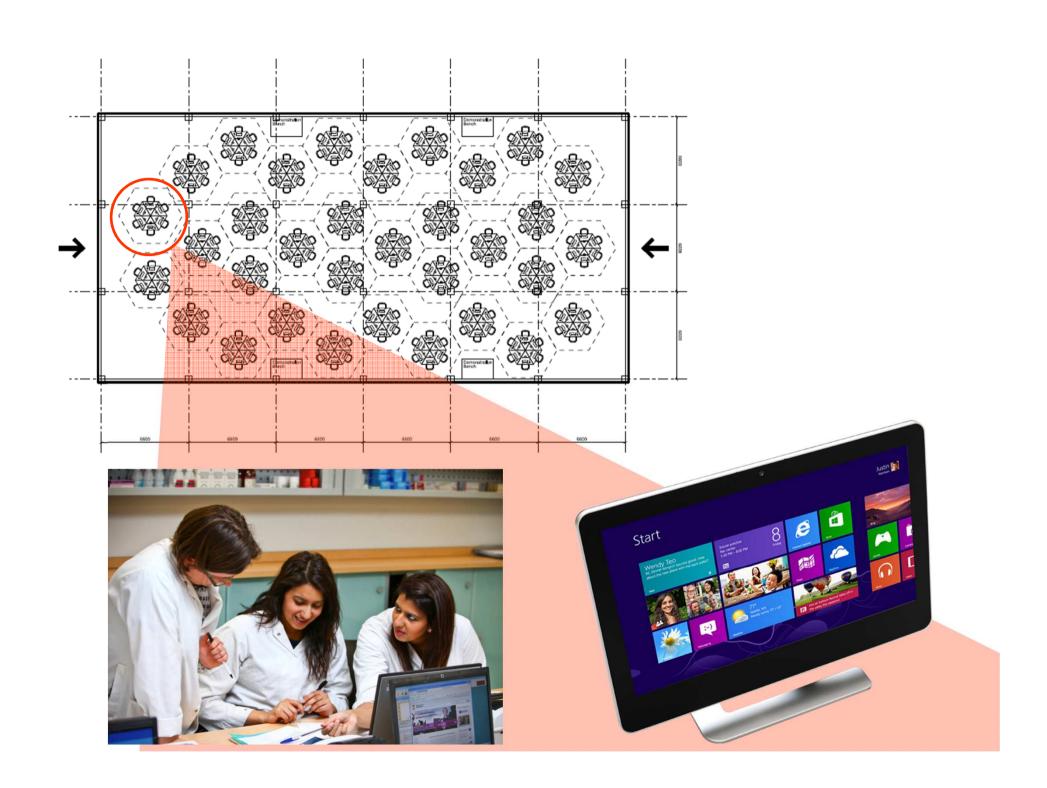






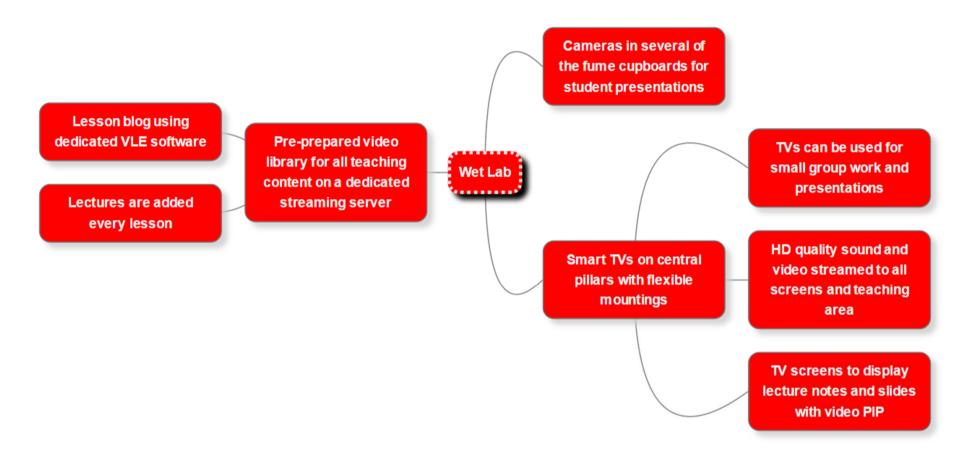
#### **Dry Lab** Document projectors and microscopes to plug in Portable wireless cameras to film student work TV screens to display Radio mics for lecture notes and slides presenters mixed with with video PIP external audio Lectures added every lesson HD quality sound and Prepared video library for video streamed to all Smart TVs on central all teaching content on a screens from teaching Dry Lab Lecture Tools pillars with flexible dedicated streaming area mounting Lesson blog using server dedicated VLE software HD cameras to cover all TVs can be used for demo ares with multiple small group work and set-up scenes presentations Moveable lecturn with integrated tech and automated controls Large multiscreen wall at each end of the large room with split screen tech for multi-view

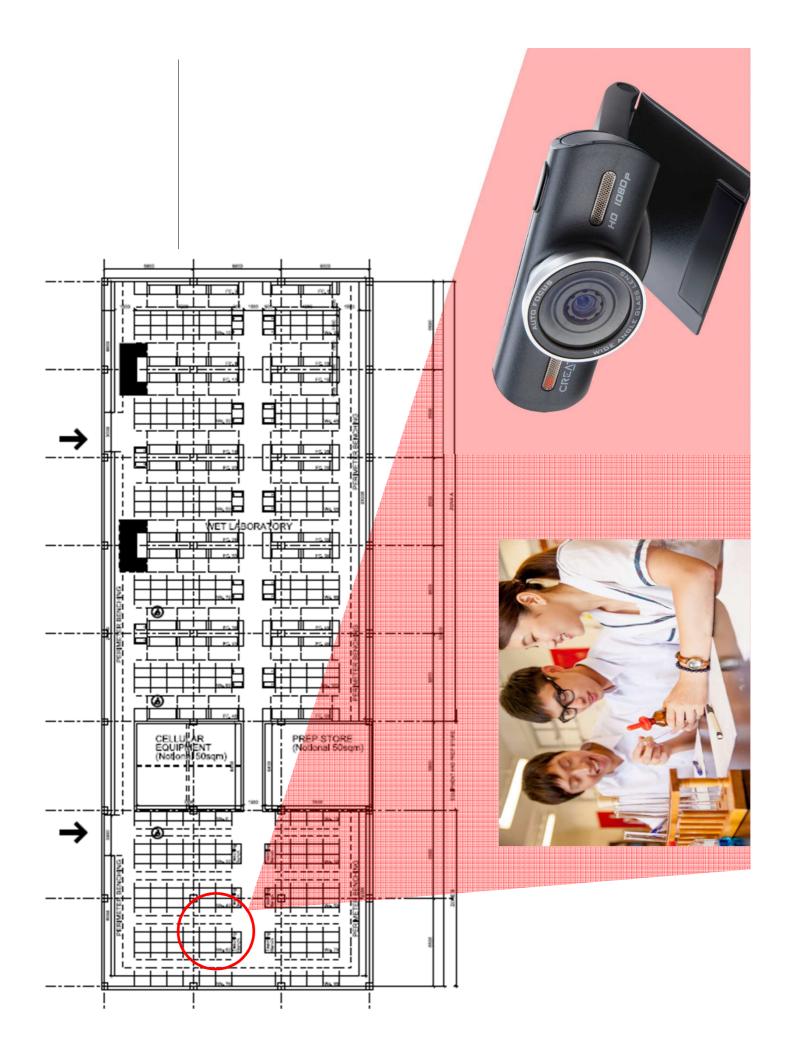


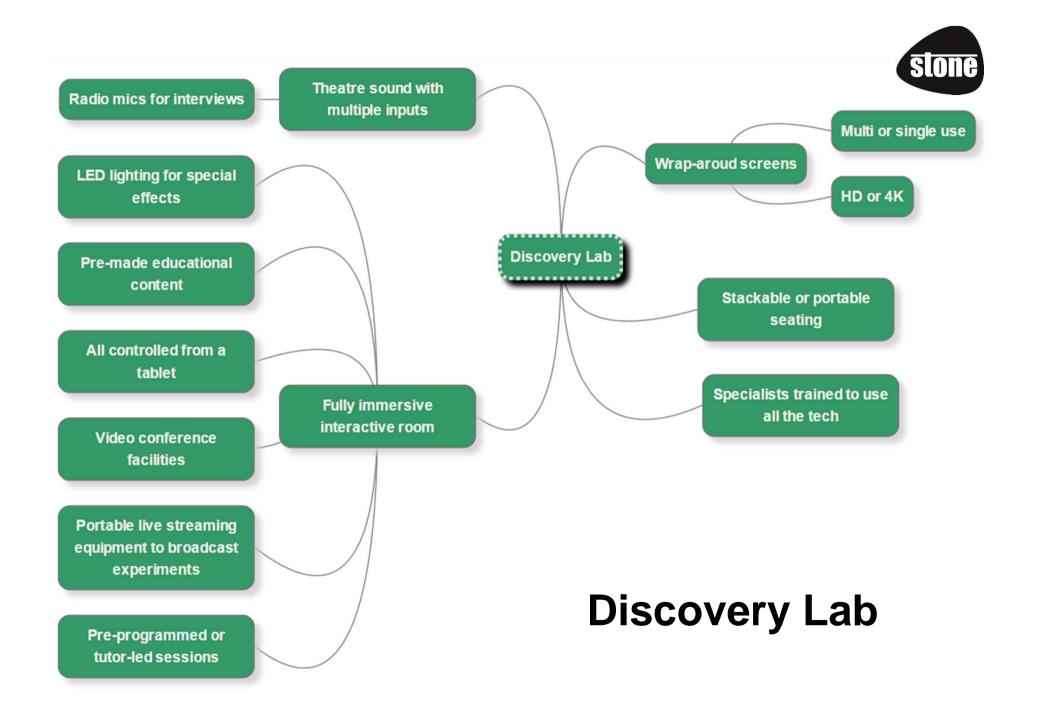


### **Wet Lab**









### Aston Martin Activity Day (stone)





















### Future Gazing



**Virtual Reality using X Box** 

**Microsoft Vision - 2019** 

**Google Glass in the science lab** 

Nano tech

'A Day in Glass'

Lecture capture



















### Summary



- Technology agnostic and forward thinking
- Revolutionary student experience
- Technology to support lecturers and enhance teaching

















