



# Collaborative Teaching Labs

University of Birmingham



**Mechdyne**  
ENABLING DISCOVERY

# Mechdyne & the University of Birmingham

## Digital Humanities Hub

- Interactive museum experience
  - Touch tables
  - Interactive display walls
  - Hand-held devices



# Mechdyne & the University of Birmingham



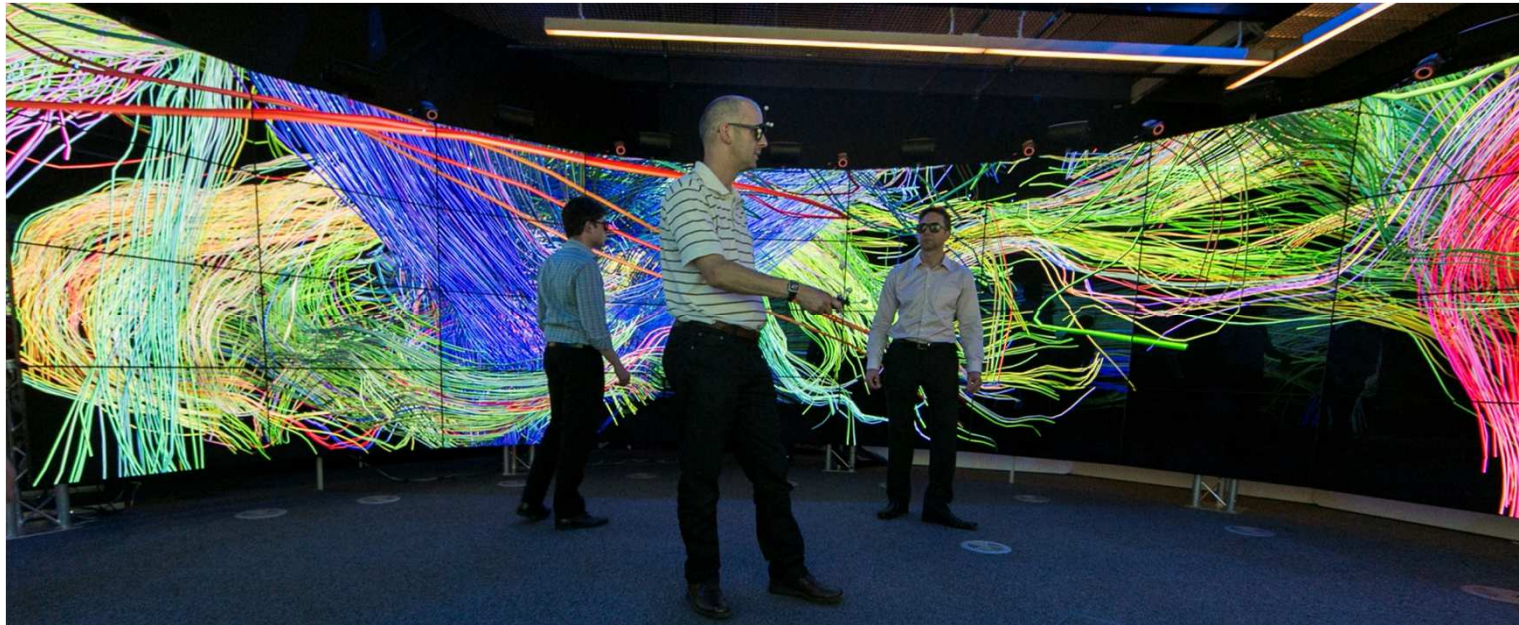
## Experience

- Visitors choose their own exhibits

## Research

- Tracks user selections
- Insight into what visitors want

# Visual aids improve learning by up to **400%**



(2012, 11). Statistics on Visual Learners. *StudyMode.com*. Retrieved 11, 2012, from <http://www.studymode.com/essays/Statistics-On-Visual-Learners-1211593.html>

**AND approximately  
65% of the  
population are  
visual learners**



(2012, 11). Statistics on Visual Learners. *StudyMode.com*. Retrieved 11, 2012, from <http://www.studymode.com/essays/Statistics-On-Visual-Learners-1211593.html>

# How can you incorporate that into virtual labs?

- Immersion
- Visualization
- 3D
- Interaction





# Touch Screens

## Advantages

- Small team collaboration
- Intuitive touch controlling
- 2D and 3D enabled
- Bring your own device





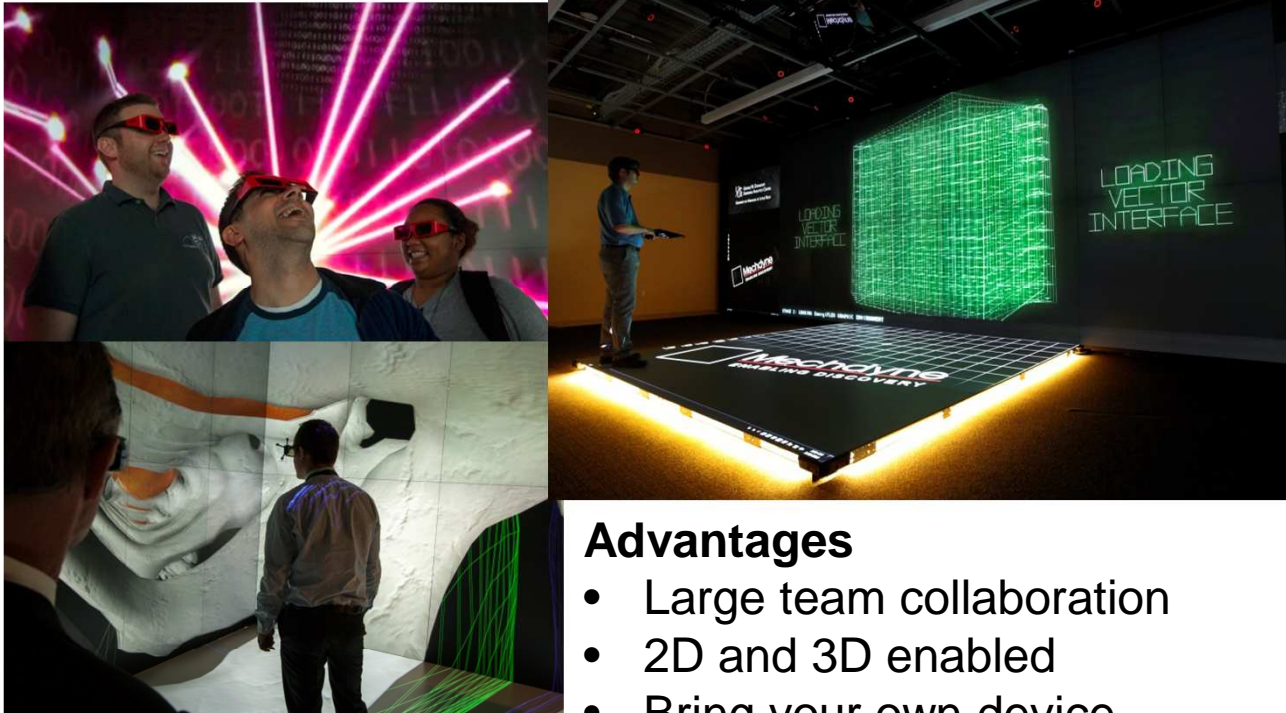


## Student experience

- Highly interactive
- Touch control means intuitive use



**Powerwalls**



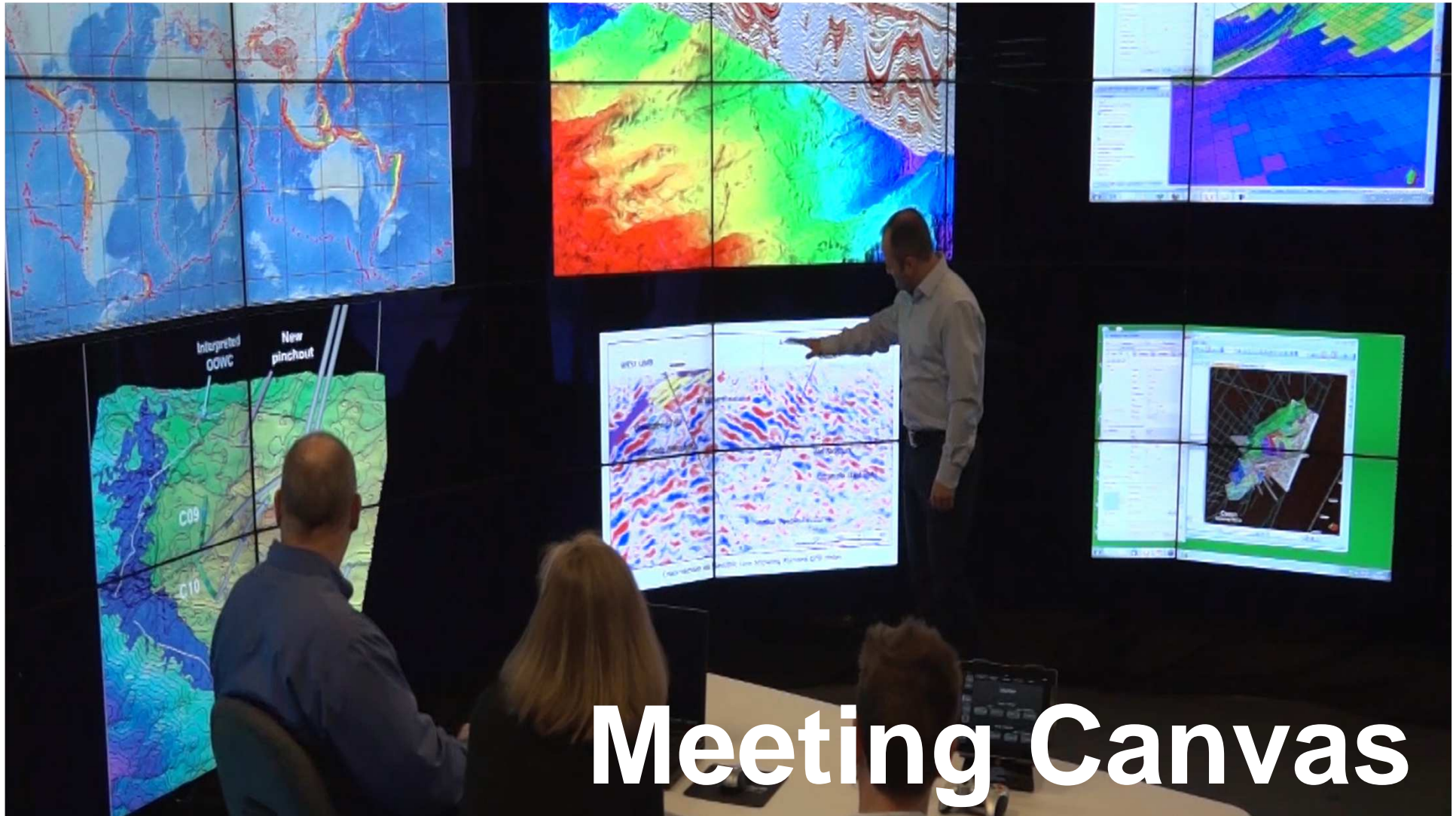
## Advantages

- Large team collaboration
- 2D and 3D enabled
- Bring your own device
- Flexibility- can be used for many applications



## Student Experience

- Immersive environment
- Large-scale data visualization
- Ability to collaborate with an entire class at once



# Meeting Canvas



## Advantages

- Collaborate using multiple inputs at once
- Access any device
- Display anything

## Student Experience

- Display several students' work all at once
- Manage project assets
- Collaborate with peers and faculty on research projects



## In Summary...Benefits to Students



- Accessibility
- Collaboration
- Bring your own device



## In Summary...Benefits to the University

- Recruitment
- Retention
- Cross-discipline usage





Thank You



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