

Shifting the Horizon

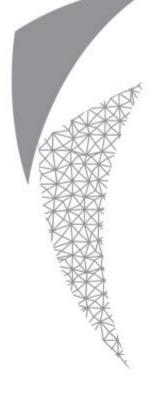
Risks and Rewards of University Building Adaption

Claire Moritz, Economist
Stewart Mann, Building Services Engineer

Sinclair Knight Merz

Buildings and Infrastructure, South East Asia

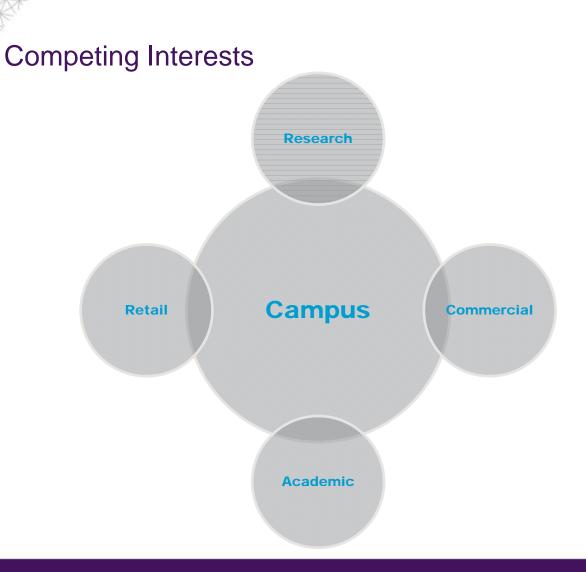




Contents

- Future campus considerations
- Flexibility
- Infrastructure Constraints and opportunities
- Sustainable
- Efficiency











Distance learning

Future delivery

Pedagogical changes



Researcn spaces



Multi-use space

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Funding- sources and service requirements

Partnership demands

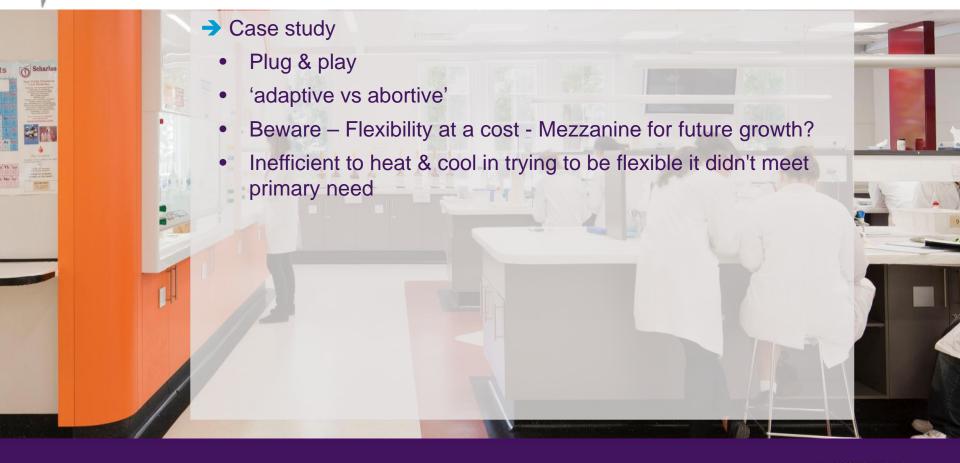
Long term vs short term

Branded Building

Commercial lease type approach



Flexibility trade offs





Infrastructure





Infrastructure – Services Backbone





Infrastructure – Services Backbone





Infrastructure - Services Backbone





Infrastructure – Services Backbone

- Improved knowledge of assets
- Greater shared knowledge of assets
- Investment through knowledge not reaction
- Longer view (horizon) means paybacks can be longer on investments
- Improved Maintenance Profile
- Known Intervention Points
- Flexibility of infrastructure for improved estate performance

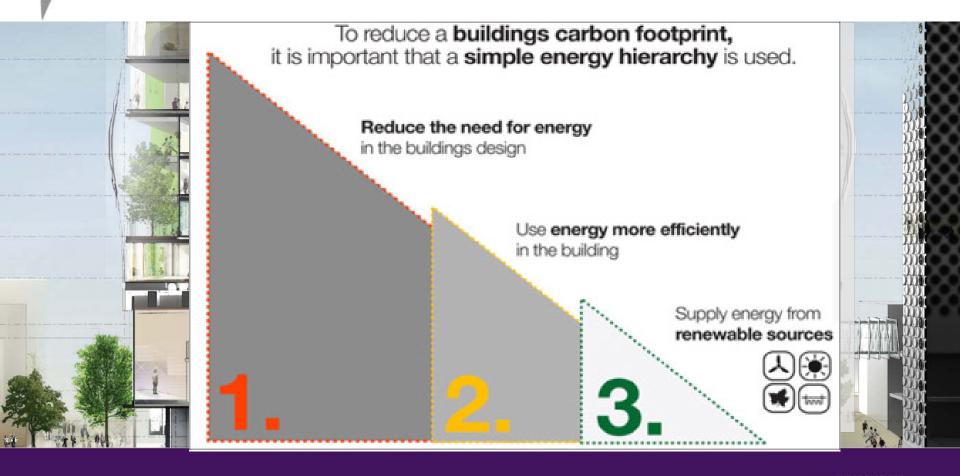


Infrastructure – Buildings



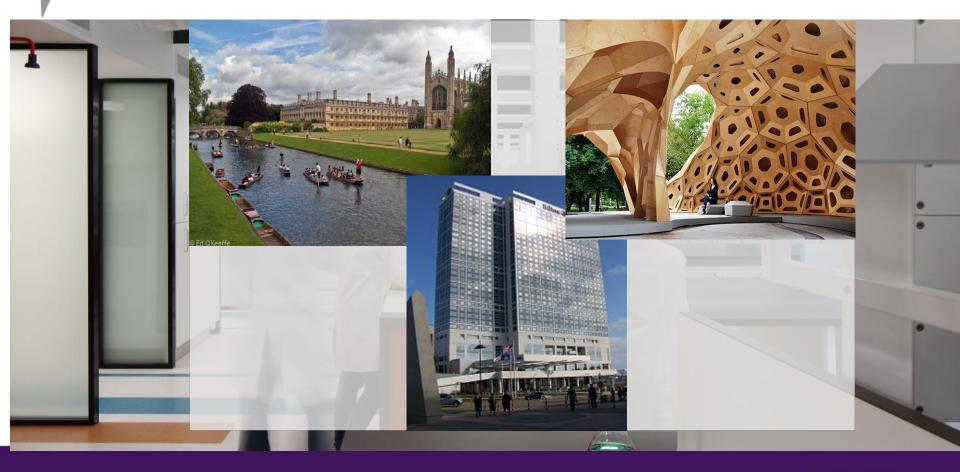


Infrastructure – Buildings





Infrastructure – Buildings





Infrastructure - Buildings



- → Looking at the Campus as a whole
 - The campus estate will need to have in built flexibility over the long term
 - Using the estate for research Living Lab principles
 - Efficiency of use (both physically and energy)
 - Efficiency in a campus setting → useable, accessible
 - Balance between the differing usage within the campus

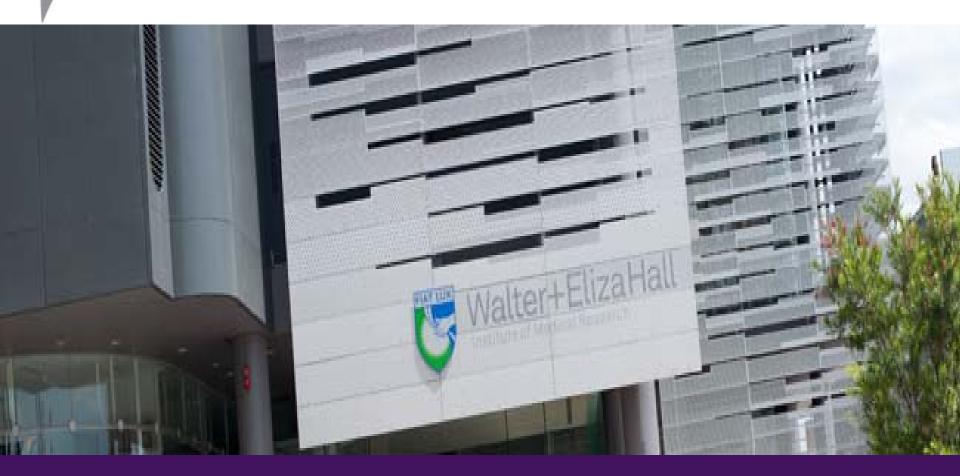


Campus Evolution Case Studies – UoM Chemistry Labs





Campus Evolution Case Studies - WEHI





Campus Evolution Case Studies – London Basketball





Conclusions

- → Taking a long view shifting the horizon
 - 150 years instead of 60 years
 - Flexibility more with less
 - Sustainability more with less
 - Efficiency of use new teaching principles
 - Understanding the need
 - Efficiency in a campus setting → useable, accessible

