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- WHI LE P-West Cambridge Community Group

06.11.2019

EM01262-GAL-WH-XX-SK-A-00079

Proposal for the Aerospace Technology Institute:



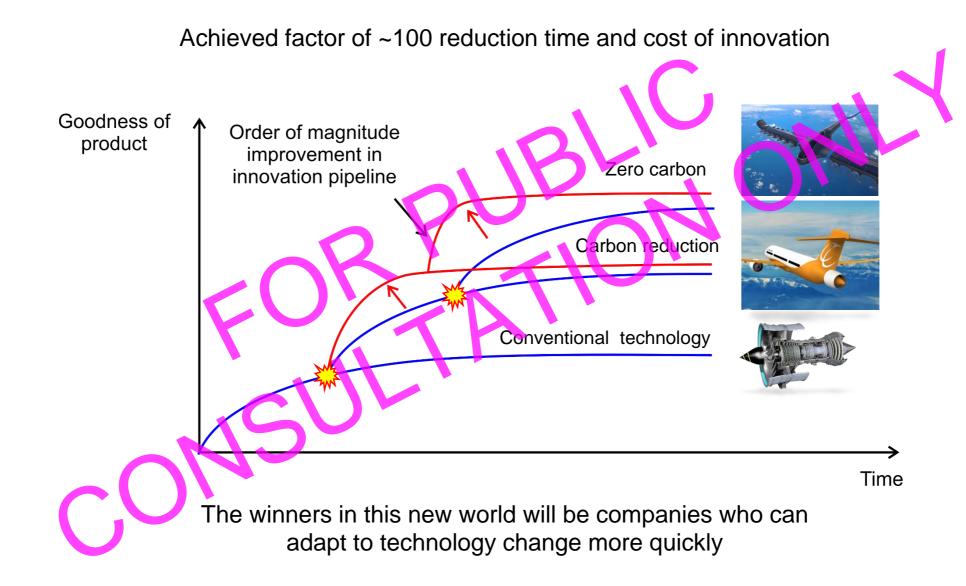
National Centre for Propulsion and Power



Transformational sector change

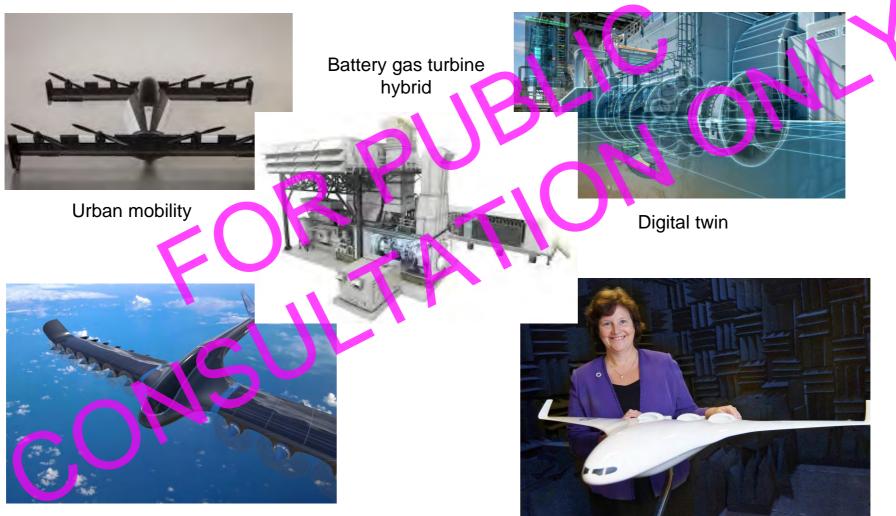


Solution – Inject Pace and Simplicity



Our solution – Ability to ask big questions

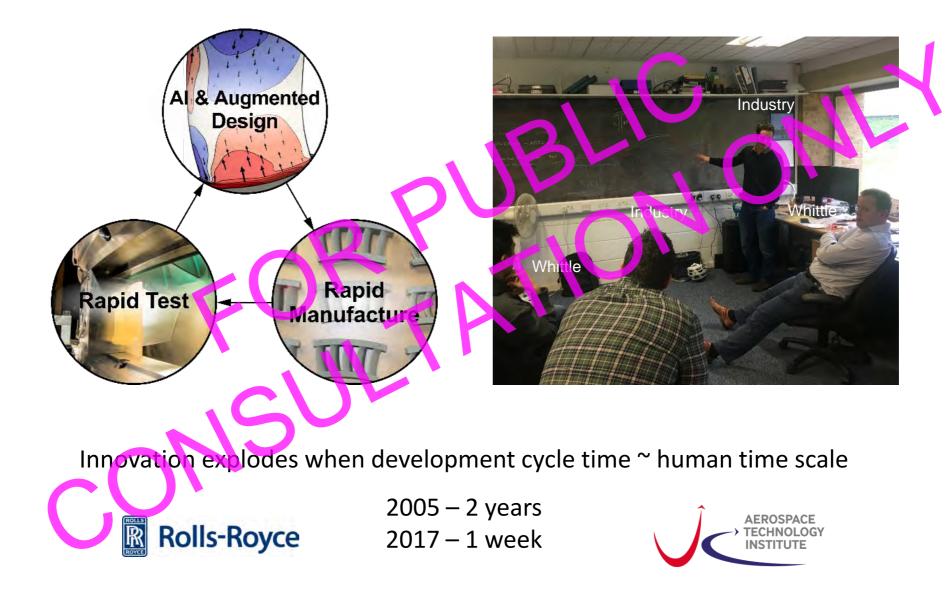
'Propulsion and Power' Challenge space



Zero emission regional jet

Silent aircraft

Merging the digital and physical worlds



New Whittle Laboratory



Propulsion and power Challenge Space



Co-locate wider University and industry to take on the challenge of decarbonisation

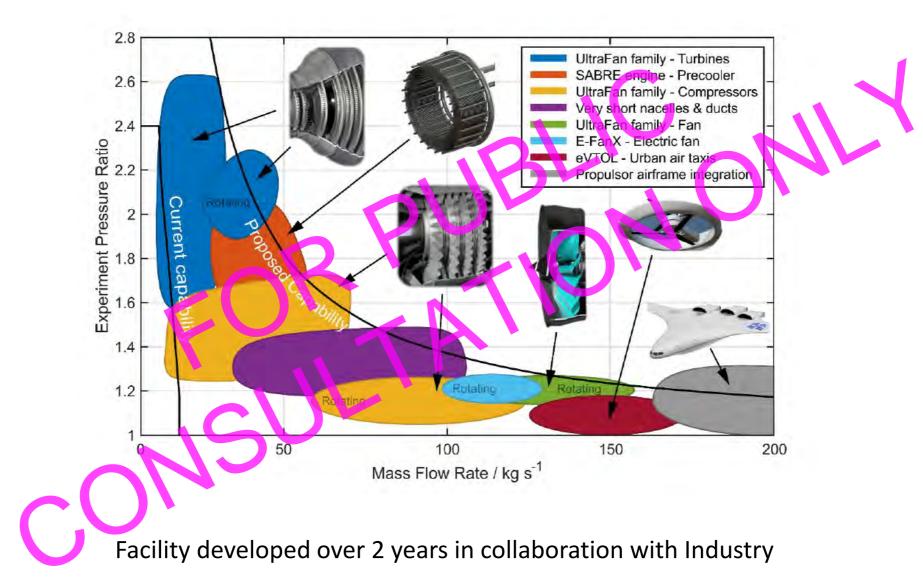
New Whittle Laboratory



New Whittle Laboratory

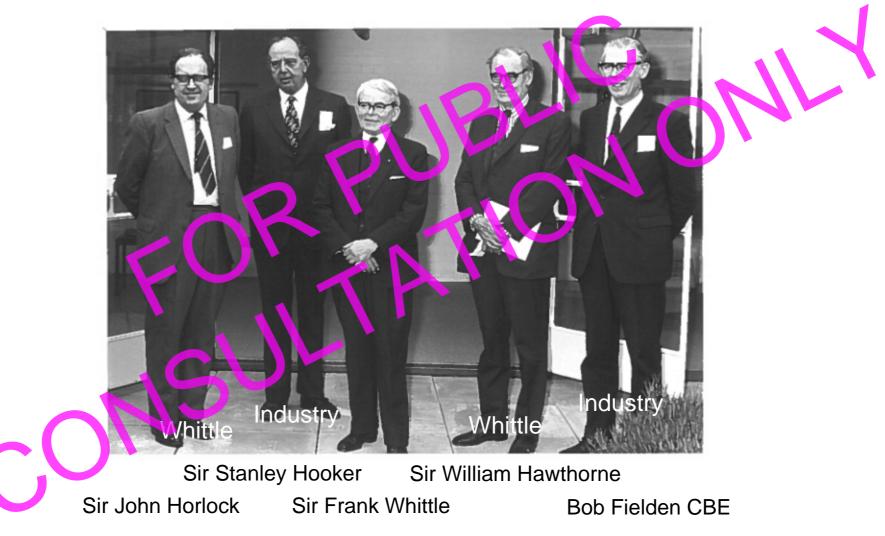


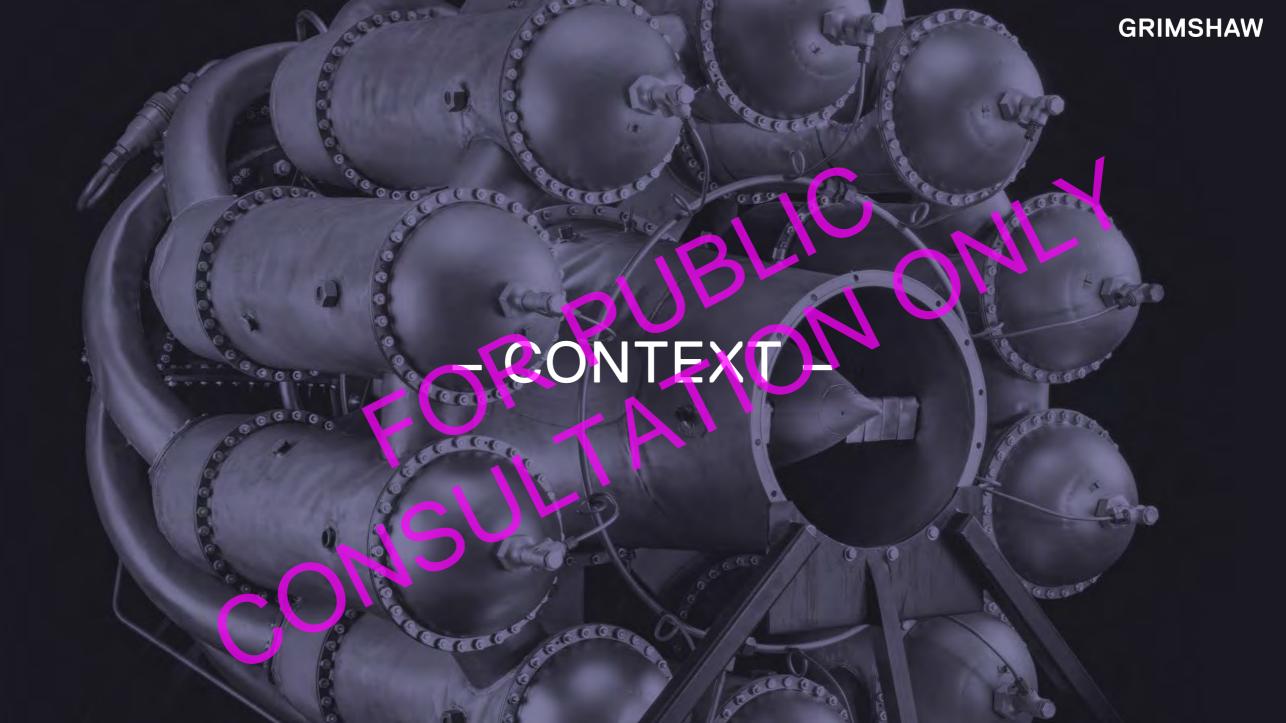
Flexible High Capacity Air Supply



Whittle II

Whittle I Opened in 1973 – Aim to take on some of societies most significant challenges











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CUED Inset Masterplan [2026] West Cambridge, UK

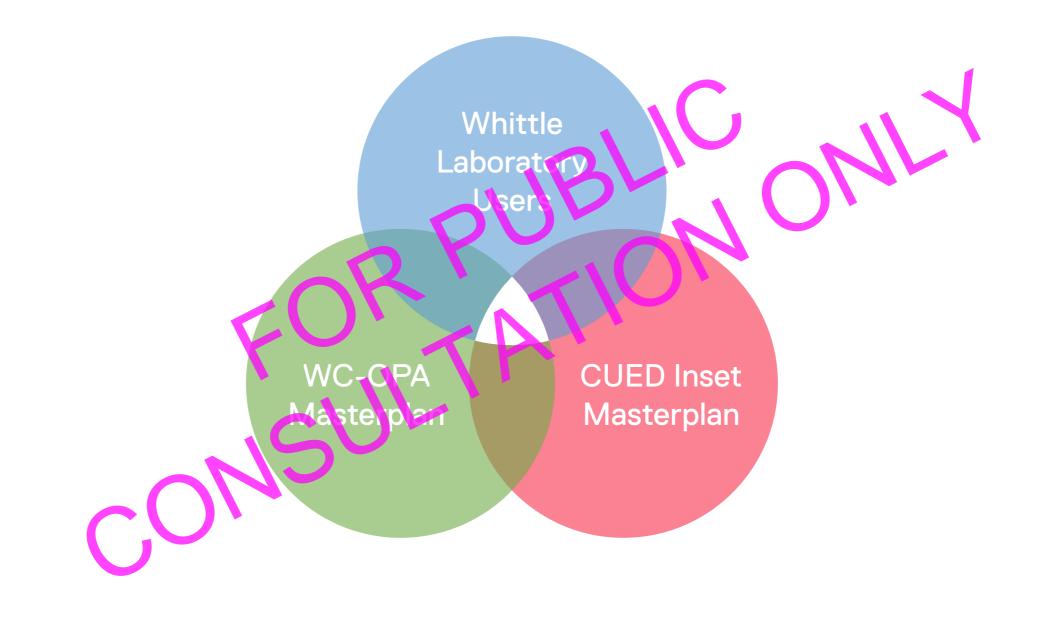
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CUED Inset Masterplan [PHASES 1+2] West Cambridge, UK







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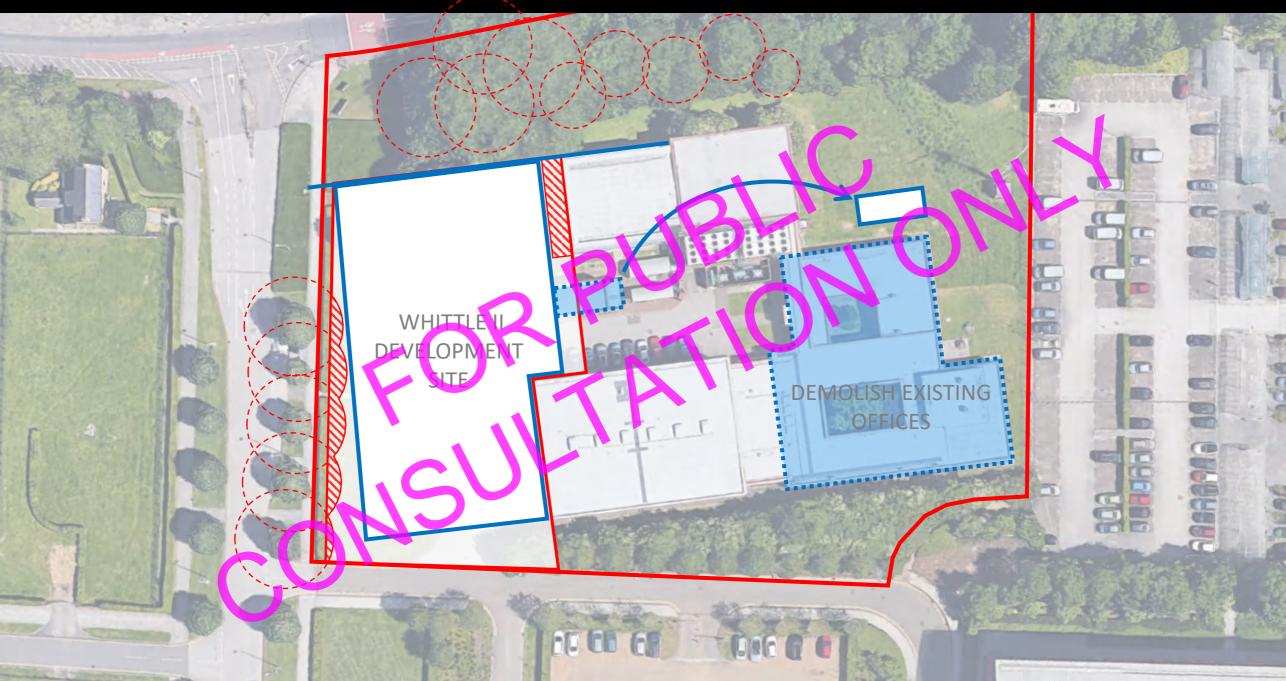
- EXISTING LAB -

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WHITTLE II I CONTRACTOR BRIEFING DAY I EXISTING WHITTLE LAB



WHITTLE II I CONTRACTOR BRIEFING DAY I SITE CONSTRAINTS



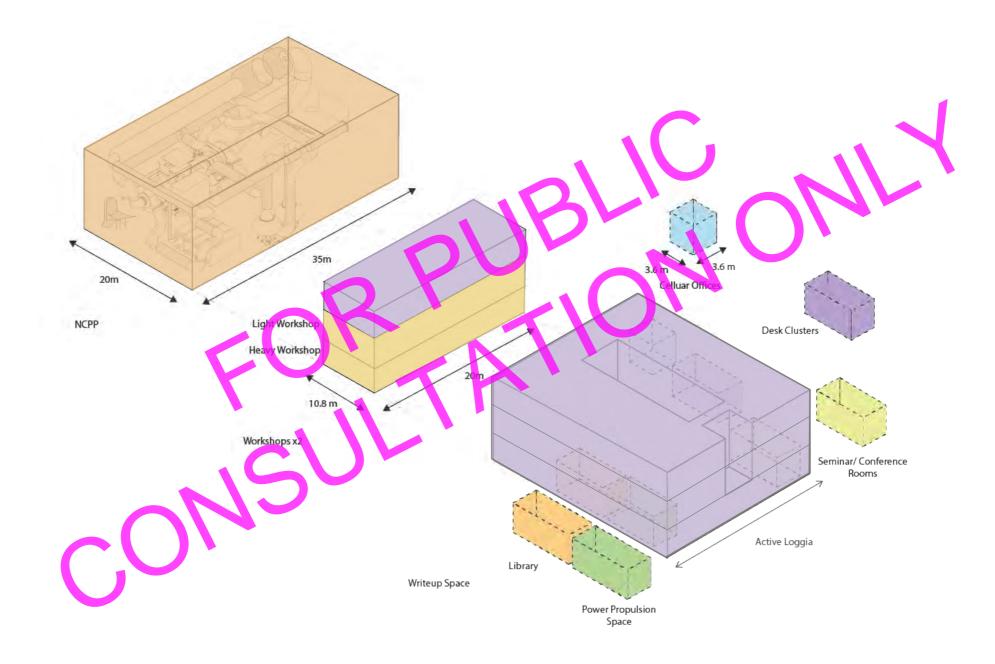
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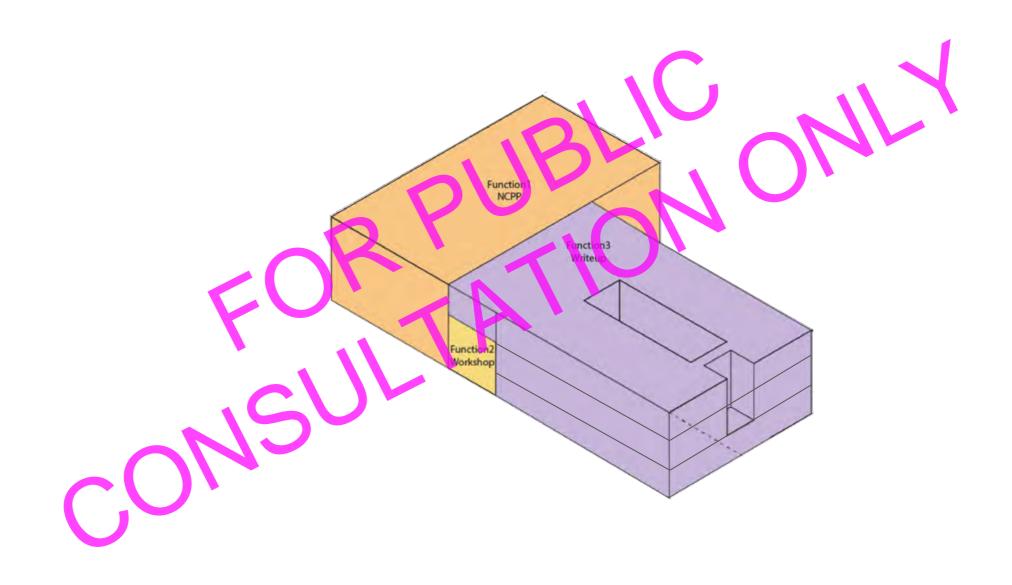
- ARCHITECTURAL DESIGN -

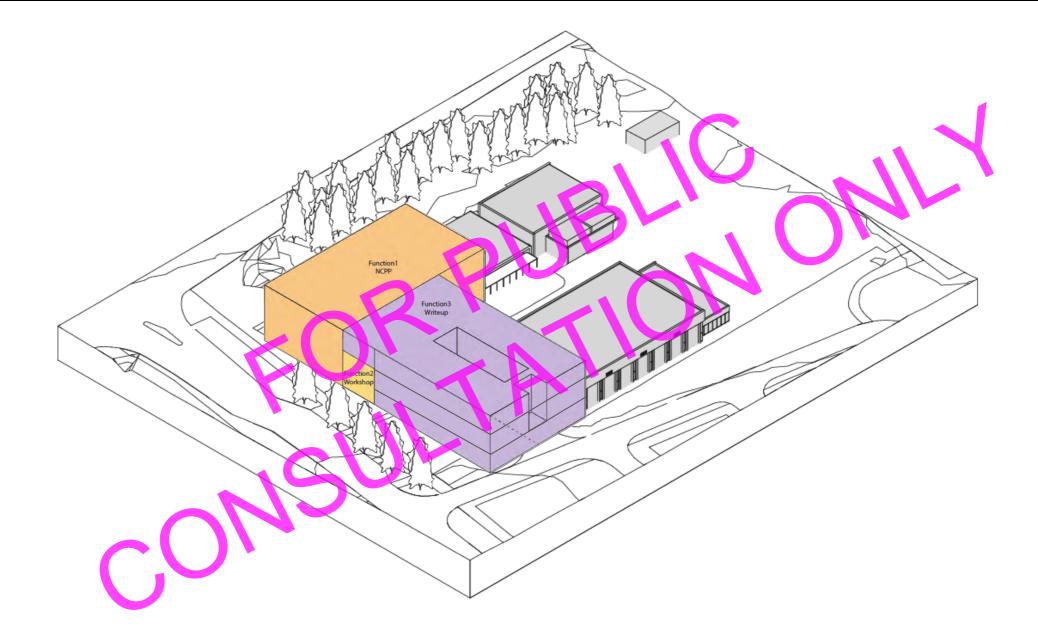
- NCPP laboratory
- Workshops
- Mixture of private, shared & open plan offices
- Embedded industry
- Private industry
- "Tea Table" as a focal point
- Movement Sequence through building
- Wide corridors
- Natural Ventilation & Daylight
- Connection to Nature



WHITTLE II | CONTRACTOR BRIEFING DAY | FUNCTIONAL REQUIREMENTS











WHITTLE II I CONTRACTOR BRIEFING DAY I GATEWAY SITE







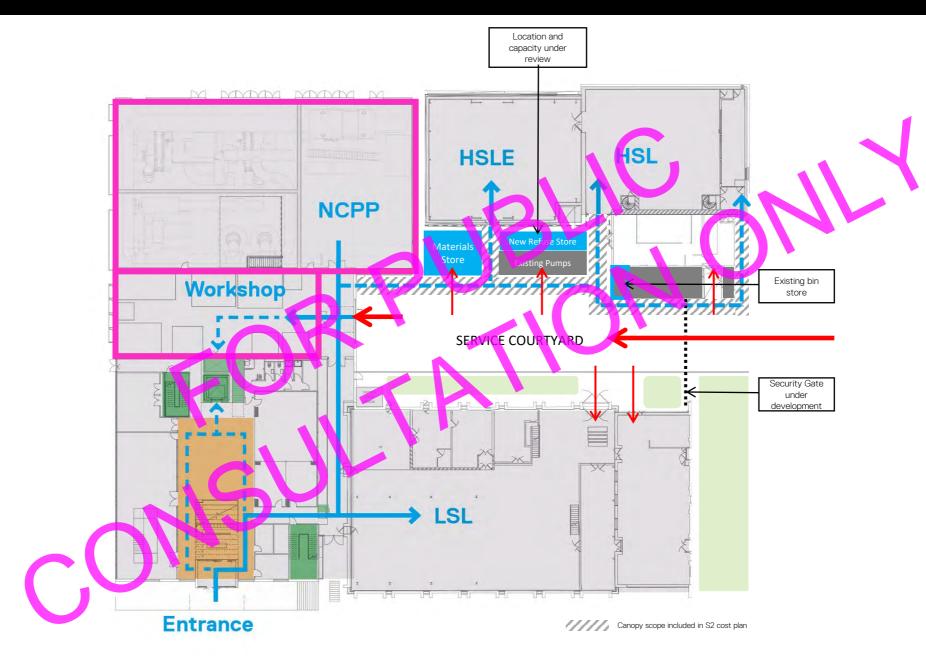
WHITTLE II I CONTRACTOR BRIEFING DAY I SOUTHWEST APPROACH



WHITTLE II | CONTRACTOR BRIEFING DAY | MAIN ENTRANCE COLONNADE



WHITTLE II I CONTRACTOR BRIEFING DAY I GROIND FLOOR CONNECTIVITY





WHITTLE II I CONTRACTOR BRIEFING DAY | FIRST FLOOR - TEA TABLE

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WHITTLE II I CONTRACTOR BRIEFING DAY I EXTERNAL ENVELOPE



WHITTLE II I CONTRACTOR BRIEFING DAY I EXTERNAL ENVELOPE

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WHITTLE II I CONTRACTOR BRIEFING DAY I EXTERNAL ENVELOPE





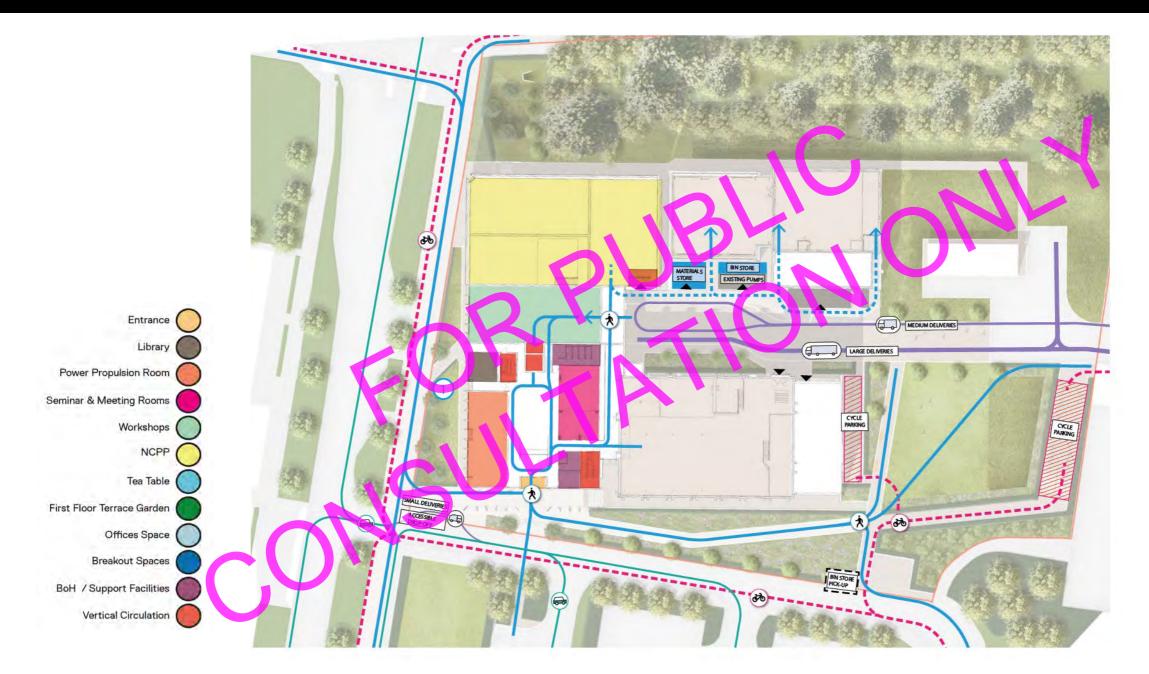






WHITTLE II | CONTRACTOR BRIEFING DAY | SITE ACCESS

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LANDSCAPE DESIGN -

WHITTLE II | CONTRACTOR BRIEFING DAY | LANDSCAPE SUMMARY



Plan showing interim masterplan

- 1. JJ Thompson Lawn;
- 2. Entrance square with opportunities for chance encounters;
- 3. Whittle courtyard;
- 4. Southern approach;
- 5. Whittle square;
- 6. Vehicle turnaround in Masterplan location;
- Future Whittle plot. Planted in the interim with meadow planting;
- 8. Northern boundary retained and enhanced with swale;
- 9. Cycle Parking;
- 10. Interim parking;
- 11. VIP Drop off
- 12. Existing Whittle Labs
- 13. Proposed Extension

WHITTLE II | PRE-PLANNING CONSULTATION 4 | Northern Bund – Madingley Rd./ JJ Thompson Av.



WHITTLE II I PRE-PLANNING CONSULTATION 4 | Northern Bund – T116 Important Elm



WHITTLE II | PRE-PLANNING CONSULTATION 4 | Northern Woodland Corner Planting







'Native Hedge'

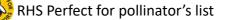
- Hawthorn/ Crataegus monogyna
- Blackthorn/ Prunus spinosa
- Field Maple/ Acer campestre
- Dog Rose/ Rosa canina
- Hazel/ Corylus avellana
- Crab Apple/ Malus sylvestris

B. Shrub planting

- Box-leaved honeysuckle/ Lonicera pileata
- Weigela/ Weigela 'Mont Blanc'
- Escallonia/ Escallonia spp.

C. Trees

Tulip tree/ *Liriodendron tulipifera* (3no. To front) Hornbeam/ *Carpinus betulus* 'Purpurea' (1no.) Small-leaved lime/ *Tilia cordata* (1no.)





WHITTLE II | PRE-PLANNING CONSULTATION 4 | JJ Thompson Avenue - Interim



WHITTLE II I PRE-PLANNING CONSULTATION 4 | JJ Thompson Avenue



WHITTLE II I CONTRACTOR BRIEFING DAY I FUTURE CUED DROP-OFF



WHITTLE II I CONTRACTOR BRIEFING DAY I LANDSCAPE SUMMARY



WHITTLE II | CONTRACTOR BRIEFING DAY | LANDSCAPE SUMMARY



WHITTLE II I PRE-PLANNING CONSULTATION 41 Courtyard - Interim

Plan showing Courtyard

- 1. Canopy providing external access between buildings;
- 2. Shade tolerant planting;
- 3. Secure 1.8m high manually sliding gate;
- 4. Bin/ Materials Stores;
- 5. Shared porous surfacing







- QUESTIONS -

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- State