

**CITIES OF TOMORROW (CoT) R&D PROGRAMME**  
**GRANT CALL 4**  
*FOR VERTICAL 5: CITY IN NATURE*

**FREQUENTLY ASKED QUESTIONS (FAQS)**

**CALL TOPIC 10: EFFECTS OF GREENERY ON OUTDOOR THERMAL COMFORT  
PERCEPTION ACROSS LAND USE AND FORM**

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Please note that the FAQs will be updated periodically. Please refer to the [CoT V5 4<sup>th</sup> Grant Call website](#) and [IGMS website](#) for the latest version of the FAQs.

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**T10. CALL TOPIC 10**

**T10.1 Are applicants expected to develop a hardware system for measuring thermal comfort perception and acceptability parameters, or can they use existing commercial systems? (28 January 2025)**

We do not expect a hardware system to be developed, and proposals can use existing commercial systems.

**T10.2 In relation to the Call Topic's technical deliverable on proof-of-concepts (POCs) of using greenery in landscape design (28 January 2025) –**

- (1) Should applicants demonstrate the POCs at physical sites or through virtual microclimatic simulations?**
- (2) Are applicants expected to select sites where past data has been collected?**

- (1) Applicants may demonstrate the POCs through physical sites or virtual simulations or both, depending on their proposal's methodology.
- (2) There is no need to propose only sites where past data has been collected. Applicants are free to propose sites that suit their proposals but do provide the necessary justifications.

**T10.3 Although NParks is the Lead Agency for the Call Topic, the Call Topic's impact outcomes mention that "the deliverables of the project should collectively provide a common framework for planning agencies (e.g. URA, PUB, JTC, NParks etc) and urban designers to utilize nature-based solutions (i.e. parks and greenery) to improve outdoor thermal comfort". How will other agencies be involved in the project? (28 January 2025)**

Other agencies may be involved in evaluating the submitted proposals and/or participating in the awarded project (e.g., providing technical input and expertise), where relevant. NParks will coordinate their involvement.

**T10.4 With reference to the Call Topic's objective and technical deliverable on developing decision-support guidelines on utilising greenery to achieve acceptable thermal comfort, are there any specific design elements of interest to agencies? (28 January 2025)**

The proposed decision-support guidelines should minimally address which types of greenery and landscape layout would achieve acceptable thermal comfort. These guidelines should be applicable for designing nature-based solutions at the local (i.e., precinct) and micro (i.e., neighbourhood) scales.

**T10.5 In the context of the Call Topic, do the terms thermal comfort “perception” and “acceptability” refer to distinct concepts? (28 January 2025)**

This Call Topic focuses minimally on whether a space is thermally comfortable for its users. Applicants should clearly define their scope of study regarding thermal comfort perception and acceptability in their proposal.

**T10.6 Can applicants propose engineered nature-based solutions as part of the decision-support guidelines? (28 January 2025)**

Yes, the decision-support guidelines may include both engineered nature-based and natural greenery solutions that are applicable at the local (i.e., precinct) and micro (i.e., neighbourhood) scales.

**T10.7 Given that greenery is dynamic, is a life-cycle analysis of how vegetation and thermal comfort change over time required for the project? (28 January 2025)**

No. A life-cycle analysis is not a mandatory requirement for the technical deliverables articulated for the Call Topic. However, applicants are welcome to propose such analysis as a value-added component to their proposal.

**T10.8 Will the project scope include thermal comfort of animals or pets? (28 January 2025)**

No. Thermal comfort of animals and pets are not within the project scope.