

BUILDING FOR SUSTAINABILITY

COMPETITION GUIDE



Introduction

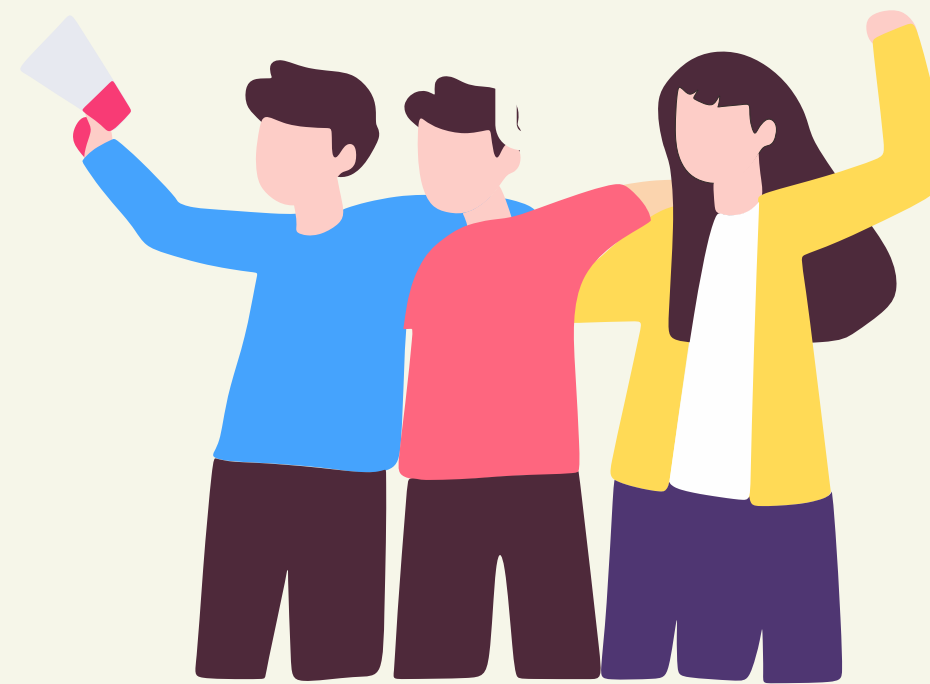
• • • • •

The “Building for Sustainability” challenge requires you to step into the shoes of an architect and hone your design-thinking skills. Through illustrations and creative suggestions, students are to **make improvements to an existing building in Singapore to make it more sustainable.**



PARTICIPATION REQUIREMENTS

The competition is open to **all secondary students** studying in Singapore at MOE-registered secondary schools, international educational institutions and homeschoolers.



You are required to work in **groups of 2-4** for your proposal.



PRIZES

Gold: \$400 POPULAR vouchers + trophy + Certificate of Award

Silver: \$300 POPULAR vouchers + trophy + Certificate of Award

Bronze: \$200 POPULAR vouchers + trophy + Certificate of Award

Distinction (max 2): \$100 POPULAR vouchers + Certificate of Award



YOUR CHALLENGE

You will have to **choose a building of your own choice** to work on for your proposal.



Examples of buildings that you can work on:

- Libraries
- Community Clubs
- Public sports facilities
- Hawker Centres
- Shopping Malls



YOUR CHALLENGE

Based on the selected building of your choice, suggest improvements covering **all** of the following categories:



Energy Efficiency



Waste Management



Eco-friendly Design

PROPOSAL DETAILS

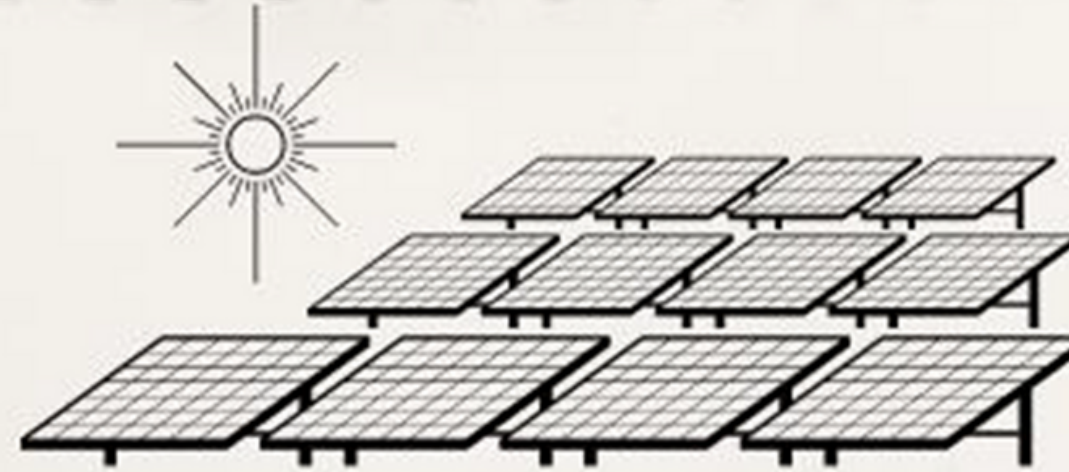
Your proposal should contain the following sections:

- Brief background of the building chosen
- Identify areas of the building to be improved sustainability-wise
- Outline and explain the sustainable improvements to be made, **with supporting illustrations or photographs**

The proposal and visuals must be submitted via the online registration system by **11:59pm by Tuesday, 30 April 2024.**

EXAMPLE ILLUSTRATION

For reference only, you are free to come up with your own style to present your solutions.

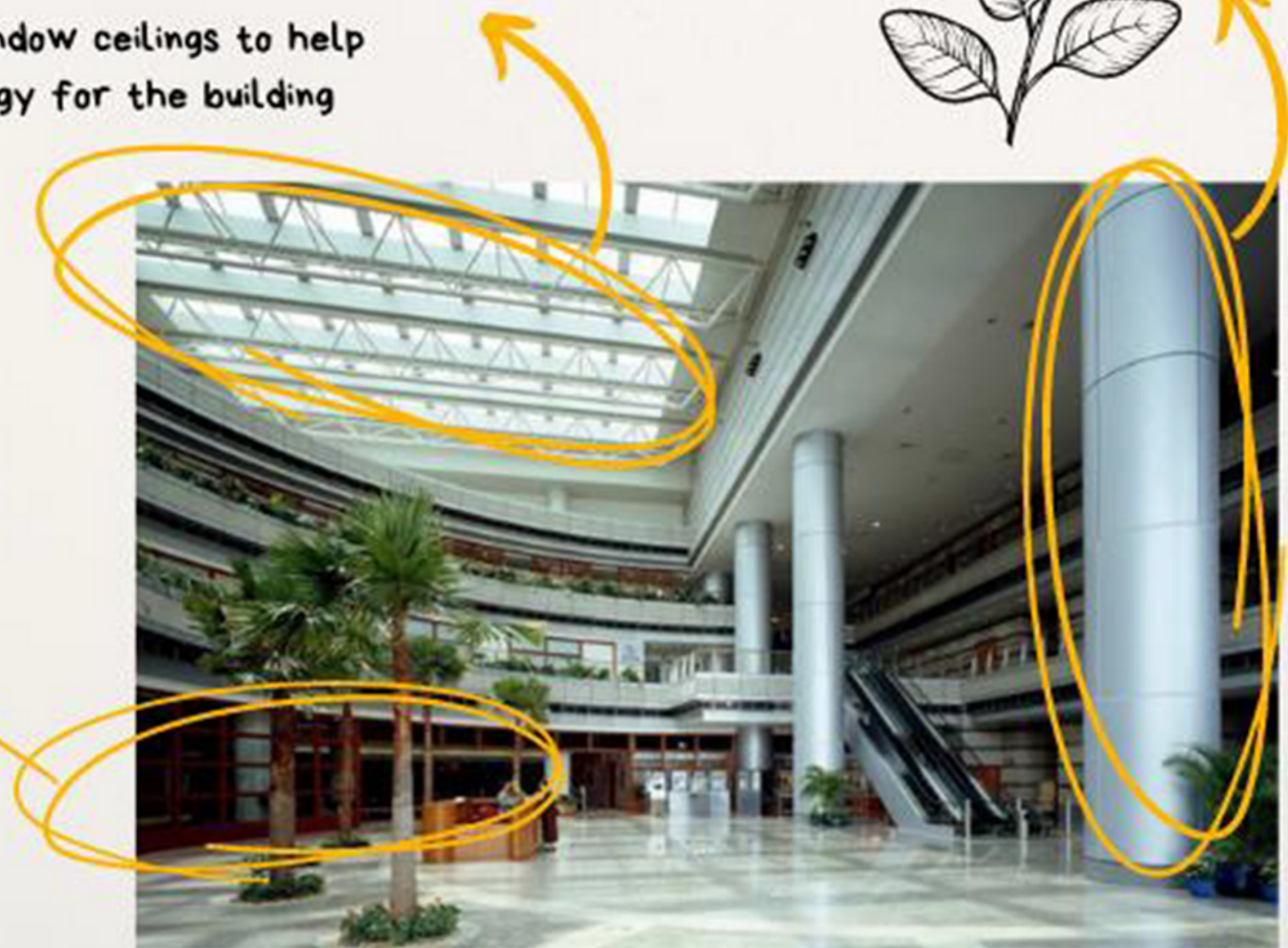


Add solar panels to the window ceilings to help generate renewable energy for the building

Add more fauna along the beams to boost greenery and reduce carbon



Put recycling bins and e-waste bins at the lobby for easy recycling from office workers



SUBMISSION FORMAT

- Proposal with visuals submitted as one PDF document
- 500-1,000 words
- Cover page containing
 - Names of the team members
 - School
 - Level

Judging Rubrics (Phase 1)

Innovation (40%)	<ul style="list-style-type: none">• Are the proposed improvements unique or novel?
Relevance (40%)	<ul style="list-style-type: none">• Do the proposed improvements sufficiently address the selected areas?• How applicable are the proposed ideas in terms of sustainability or reducing the building's carbon footprint?
Supporting info (20%)	<ul style="list-style-type: none">• Do the visuals (photos & illustrations) provided give a better understanding of the proposed concept?

PHASE 2: FOR SHORTLISTED PARTICIPANTS ONLY

• • • • •
Learning Journey Workshop - Shortlisted teams will undergo a **workshop** conducted by Temasek Polytechnic to broaden their understanding of the built environment industry.

Online Mentorship Sessions - Shortlisted team will also receive mentorship sessions with Temasek Polytechnic where advise and guidance will be given to better develop their proposal.



PHASE 2 SUBMISSION

CHALLENGE ADD-ONS

In addition to editing the existing proposal, shortlisted teams will have to include the following:

- Rationale behind the suggested improvements.
- Evaluation on the ease of implementation for the suggested improvements.
- Suggestions to promote and encourage sustainable practices among the building's occupants.

PHASE 2 SUBMISSION

Submission Format

- Revised proposal with visuals and additional write up as **one PDF** document submission
- Containing 1,000-1,500 words
- Cover page containing
 - Names of team members
 - School
 - Level.
- PowerPoint slides for presentation (ppt or PDF)

DEADLINE

PHASE 2 SUBMISSION

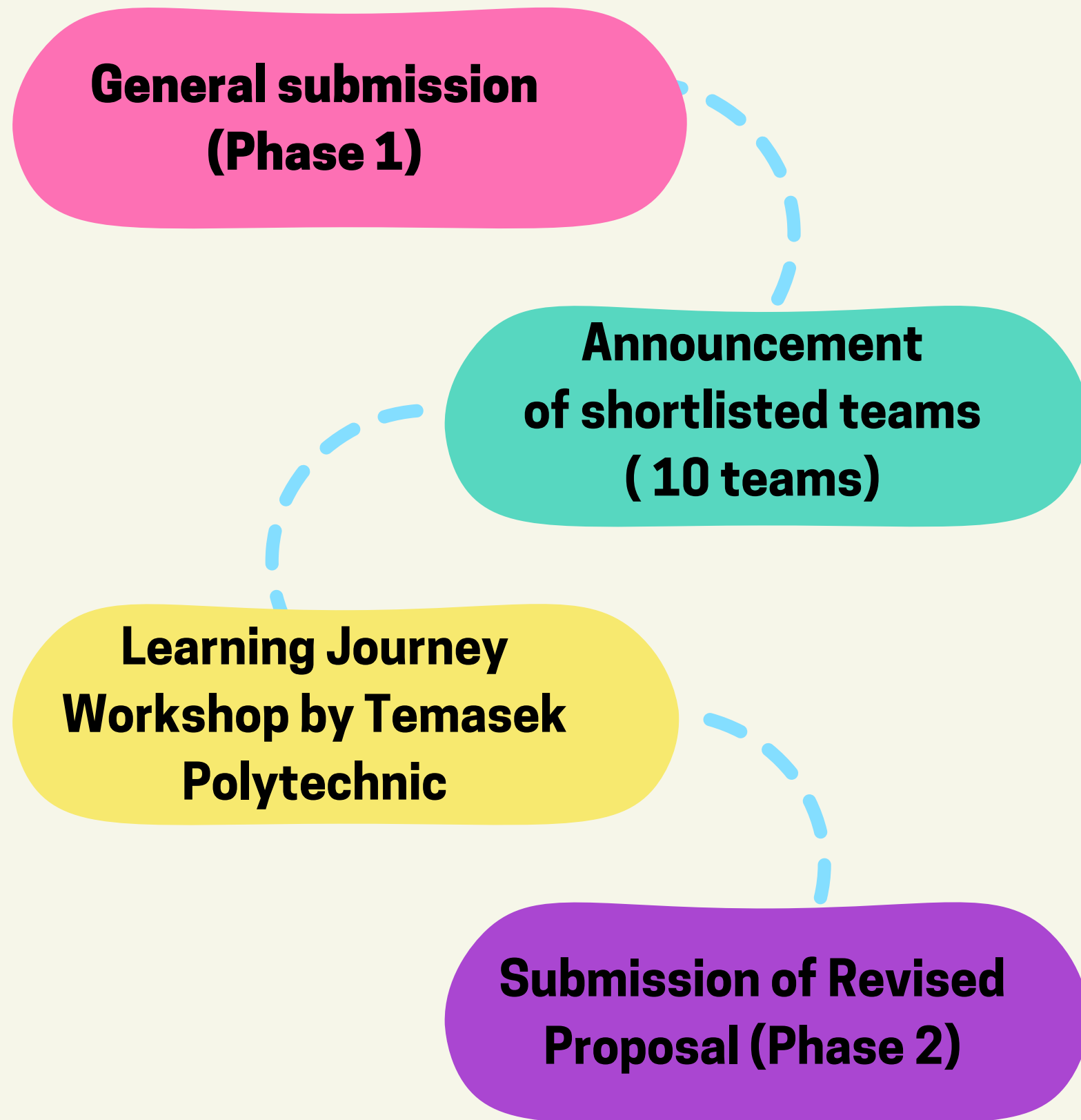
DEADLINE:

5 JULY 2024, 11:59PM

Judging Rubrics (Phase 2)

Innovation (20%)	<ul style="list-style-type: none">• Are the proposed improvements unique or novel?
Feasibility and Implementation (30%)	<ul style="list-style-type: none">• Are the proposed improvements technically and economically feasible?• Are there sufficient details as to how the solutions will be implemented?
Supporting info (20%)	<ul style="list-style-type: none">• Do the visuals (photos & illustrations) provided give a better understanding of the proposed concept?• Does the write-up sufficiently address the three areas highlighted?
Presentation (30%)	<ul style="list-style-type: none">• Is the presentation delivery clear and audible?• Are the slides logically organised and clearly presented?

COMPETITION PROCESS



10 teams shall be shortlisted in the first round of the judging and evaluation to proceed to Phase 2.

Only 5 teams shall be selected for the final judging and evaluation based on their revised proposal submission and presentation slides in Phase 2.

Winners will be selected during the final judging and evaluation based on their presentation to the judges.

KEY COMPETITION DATES

Submission closing date for Phase 1	30 APRIL 2024
Announcement of shortlisted teams for Phase 2	31 MAY 2024, 11:59pm
Learning Journey workshop and Online mentoring sessions with Temasek Polytechnic	JUNE 2024 (Specific date TBC)
Submission closing date for Phase 2	5 JULY 2024, 11:59pm
Announcement of final 5 teams	12 JULY 2024
Presentation & Judging	18 & 19 JULY 2024
Announcement of Winners	31 JULY 2024