

SUBMISSION GUIDELINES FOR INOVASI ANAK SELANGOR

Note: All submissions and participation in Inovasi Anak Selangor is subject to the terms and conditions (see below, "GENERAL TERMS AND CONDITIONS: PARTICIPATION IN INOVASI ANAK SELANGOR 2023")

Inovasi Anak Selangor is an R&D exhibition and competition to highlight and showcase successful R&D and Innovation projects that have been completed by the Selangor R&D community!

The best projects will be selected by an expert committee and will be chosen to participate in this year's Selangor R&D and Innovation Expo 2023 (SRIE 2023) this 19th to 22nd October 2023. You will be given a booth at SRIE 2023 where you can meet potential investors and industry players that would be interested in the solutions you have developed, and work on possible commercialisation prospectives down the line.

ELIGIBILITY:

Inovasi Anak Selangor is open to **industry players, schools, institutes of higher learning and government bodies** that are based in the state of Selangor (must have Selangor business address – branch is accepted).

It is open to individuals and teams that have completed an R&D project (**prototype phase onwards** - refer to NASA's categorization of R&D activities, commonly known as Technology Readiness Levels) in any of the following sectors:

- Automotive
- Aerospace
- Agrotechnology
- Digital Economy

- E&E and M&E
- Halal Industry
- Life Sciences
- Ports and Logistics
- Tourism

Note: While projects below TRL7 are also encouraged to participate, however the organising committee has set a judging criteria based on a minimum expectation of TRL7 (Demonstrated Prototype).

Projects should demonstrate innovation, sustainability and readiness for commercialisation

Each organisation may submit an unlimited number of submissions. Each submission will be assessed separately and is eligible to compete in Inovasi Anak Selangor.

SUBMISSION PROCESS

Submissions are open from 5th July 2023 to 31 August 2023, following these steps:

1. Register Interest:

Interested participants are required to express their interest in participating in the competition by completing a registration form. The registration process allows the competition organizers to gauge the level of interest and potential participation.

2. Login and Submission Portal:

After expressing interest, participants will receive communication from the competition organizers, which includes login credentials and instructions to access the submission portal. The login credentials provided will enable participants to access the dedicated platform or website where they can submit their projects.

3. Project Submission:

Once participants have received their login credentials and accessed the submission portal, they can proceed with submitting their completed projects. The submission process involves filling out uploading relevant documents and files that showcase the project through the virtual exhibition portal. All submissions may be in either Bahasa Malaysia or English

- a. Documentation: Participants are required to provide comprehensive documentation of their projects, which may include a project summary, problem statement, methodology, implementation details, results, and any other relevant information. It is important to carefully follow the guidelines provided by the competition organizers regarding the format and content of the submission.
- b. Supporting Materials: Participants submit additional supporting materials, such as research papers, prototypes, videos, or presentations, to provide a more comprehensive understanding of their projects. These materials help the judges evaluate the project effectively.

4. Confirmation and Waiting Period:

Once the project has been successfully submitted through the portal, participants will be notified if their project has been selected to be part of SRIE as finalists for Inovasi Anak Selangor

5. Participation in SRIE

Finalists will showcase their projects at SRIE and evaluation will be done based on their showcase to determine the winners of Inovasi Anak Selangor 2023. While the booths are provided by the organisers (TBD), all costs related to exhibition materials will be borne by participants.

PRIZES

1st place - RM15,000

2nd place - RM8,000

3rd place - RM4,000

7 x Consolation prizes - RM1,000

JUGDING CRITERIA

1. Innovation Assessment (60%):

- a. Novelty and Creativity: Evaluate the uniqueness and originality of the project. Assess whether it introduces new ideas, concepts, or approaches to address a specific problem or challenge.
- b. Technical Advancement: Consider the technological advancements or improvements achieved through the project. Assess the project's contribution to pushing the boundaries of existing knowledge and capabilities.
- c. Impact Potential: Evaluate the potential impact of the project on the industry, society, or the environment. Assess the extent to which the project can bring significant positive change or disruptive innovation.

Sustainability Assessment (20%):

- a. Environmental Impact: Evaluate how the project considers and minimizes its environmental footprint. Assess whether it promotes sustainability practices, reduces resource consumption, or contributes to addressing environmental challenges.

- b. Social Responsibility: Assess how the project addresses social needs and benefits communities. Consider aspects such as inclusivity, ethical considerations, and positive societal impact.
- c. Long-Term Viability: Evaluate the project's potential for long-term sustainability and scalability. Assess whether it aligns with sustainable development goals and has the potential to create lasting positive effects.

Commercialization Readiness Assessment (20%):

- a. Market Potential: Assess the project's market viability and potential demand. Evaluate the project's alignment with market trends, customer needs, and competitive advantages.
- b. Intellectual Property: Evaluate the project's intellectual property (IP) strategy and protection. Assess the project's ability to secure and leverage IP rights effectively for commercialization.
- c. Business and Revenue Models: Evaluate the project's business model, revenue generation potential, and commercialization strategy. Assess whether the project has a clear path to market and sustainable revenue streams.
- d. Industry Collaboration: Assess the project's potential for collaboration with industry partners, investors, or other stakeholders. Consider whether the project has established or potential partnerships that can support its commercialization efforts.

JUDGING METHODOLOGY

1st Round (Submissions through SRIE 2023 Virtual Portal)

1. Participants will submit their project through the SRIE 2023 Virtual Portal, which will be open on 1st August 2023.
2. Each submitting team will be given a virtual booth to submit their project documentation. Each virtual booth will allow for the uploading of the following:
 - a. 1 video of the project (maximum 3 minutes)
 - b. Up to 3 documents (which can be brochures, posters or presentation materials) that will be uploaded as PDFs
 - c. Contact details of your organisation
 - d. Photos/videos/documents to prove that your project is original.
3. Judging for the 1st Round will only be done through the virtual portal to select projects that will compete in the Final Round. No verbal presentations will be performed during this round of judging.
4. The top ten (10) highest scoring teams will be qualify for the Final Round of Inovasi Anak Selangor.

Final Round (Projects displayed at SRIE 2023 from 19 to 22 October 2023)

1. Project submissions that have qualified from the 1st Round ("Finalist") will be informed by 15th September 2023.
2. Each submission will be allocated a space at the SRIE 2023 Inovasi Anak Selangor pavilion, with exhibition space provided based on the size of their project, and also a standard set of exhibition space (floor space, poster walls, etc).
3. Each finalist will be given a 5 minute timeslot (method to be determined) to present their project to the Final Round assessment panel.
4. The Assessment criteria for the Final Round will be the same as the 1st Round. However, assessments performed in the 1st Round of Inovasi Anak Selangor is reset and will not bear any weight in the Final Round, i.e. teams are given a fresh slate during the Final Round for the assessment.

5. The highest scoring submission from the Final Round Assessment will receive 1st Place (Prize: RM15,000), the second highest scoring submission will receive 2nd Place (Prize: RM8,000), the third highest scoring submission will receive 3rd Place (Prize: RM4,000), and remaining submission will each receive a consolation prize (Prize: RM1,000).

REFERENCE: CATEGORIES OF TECHNOLOGY READINESS LEVELS (TRL)

NASA categorizes R&D activities into four levels, commonly known as Technology Readiness Levels (TRL). These levels provide a framework to assess the maturity and readiness of technologies being developed. Here are the four TRL levels used by NASA:

TRL 1 - Basic Principles Observed:

At this level, scientific research is conducted to explore the basic principles and concepts underlying a technology. The research may involve theoretical studies, laboratory experiments, or early-stage simulations. However, no practical application or prototype exists at this stage.

TRL 2 - Technology Concept Formulated:

At TRL 2, researchers begin to conceptualize and formulate potential technological solutions based on the observed scientific principles. Theoretical studies and analytical experiments help to identify possible applications and assess their feasibility. This level involves initial design and analysis, but no experimental verification or prototype development.

TRL 3 - Proof of Concept Validated:

TRL 3 involves the validation of the proof of concept through analytical and experimental studies. Researchers conduct experiments and simulations to demonstrate the feasibility of the technology. This level typically includes the development of small-scale prototypes or models to validate key functionalities and characteristics.

TRL 4 - Technology Validated in Lab:

At TRL 4, the technology is validated in a laboratory environment. Researchers conduct experiments and tests to demonstrate the performance and functionality of the technology under realistic conditions. This stage focuses on refining the technology and optimizing its performance parameters. However, the technology has not yet been demonstrated in an operational environment.

TRL 5 - Component and/or System Validation in Relevant Environment:

At TRL 5, the technology is validated in a relevant environment. This involves testing the technology or system prototype in a simulated or representative operational environment. The testing helps to assess the performance, reliability, and suitability of the technology for its intended application. Data is collected to demonstrate the technology's ability to meet the desired objectives.

TRL 6 - System Demonstrated in a Relevant Environment:

TRL 6 involves demonstrating the technology in a relevant environment at a system level. This includes testing the fully integrated prototype in an environment that closely represents the operational conditions. The testing aims to evaluate the technology's performance, functionality, and operational capabilities. It also involves assessing any potential risks, identifying areas for improvement, and gathering data to inform future developments.

TRL 7 - Prototype Demonstrated in Operational Environment:

At TRL 7, the technology prototype is demonstrated in an operational environment. This involves testing the prototype in a real-world setting, such as a laboratory or field test. The testing is conducted to validate the technology's performance, reliability, and functionality in an operational context. Data collected during this phase provides

crucial insights into the technology's effectiveness and helps to refine and optimize its capabilities.

TRL 8 - Actual System Completed and Qualified Through Test and Demonstration:

TRL 8 represents the completion of the actual system and its qualification through extensive testing and demonstration. This involves building the final version of the technology or system, including all necessary components and subsystems. Rigorous testing and evaluation are conducted to validate the system's performance, reliability, and readiness for operational use. The technology is tested under realistic operating conditions, and all requirements and specifications are verified.

TRL 9 - Actual System Proven Through Successful Mission Operations:

TRL 9 is the highest level of technology readiness, indicating that the technology has been successfully demonstrated and proven through operational missions or deployments. The technology has been used in real-world operational scenarios and has a track record of reliable performance and mission success. Data and feedback from operational use are continuously collected to further improve and refine the technology.

These TRL levels provide a framework for assessing the maturity and readiness of technologies, helping to guide decision-making, investments, and deployment of technologies for space missions and other applications.

GENERAL TERMS AND CONDITIONS: PARTICIPATION IN INOVASI ANAK SELANGOR 2023

By participating in the Inovasi Anak Selangor R&D Competition, you ("Participant") agree to abide by the following terms and conditions:

1. Eligibility:

- 1.1. The competition is open to industry players, institutes of higher learning, and government bodies based in the state of Selangor, Malaysia. Participants must have a valid business address in Selangor (branch addresses are accepted).
- 1.2. Individuals and teams who have completed an R&D project (prototype phase onwards) in the following sectors are eligible to participate: Automotive, Aerospace, Agritech, Digital Economy, E&E and M&E, Halal Industry, Life Sciences, Ports and Logistics, and Tourism.
- 1.3. Projects must demonstrate innovation, sustainability, and readiness for commercialization.

2. Submission Process:

- 2.1. Participants must express their interest in participating by completing a registration form provided by the competition organizers.
- 2.2. After expressing interest, participants will receive login credentials and instructions to access the submission portal.
- 2.3. Project submissions must be made through the dedicated platform or website provided by the organizers.
- 2.4. All submitted materials must be original and created by the Participant(s).
- 2.5. All submissions may be in either Bahasa Malaysia or English

3. Intellectual Property:

- 3.1. Participants retain ownership of any intellectual property rights associated with their submitted projects.
- 3.2. However, by participating in the competition, Participants grant the organizers a non-exclusive, worldwide, royalty-free license to use, reproduce, and display

the submitted materials for promotional and marketing purposes related to Inovasi Anak Selangor.

4. Finalist Selection:

- 4.1. Projects will be evaluated by an expert committee appointed by the competition organizers.
- 4.2. Finalists will be selected based on the quality, innovation, and potential commercial viability of their projects.
- 4.3. The decision of the expert committee is final and binding.

5. Participation in SRIE:

- 5.1. Finalists will be provided with a booth (size will be determined by the organisers based on the project submission) at the Selangor R&D and Innovation Expo 2023 (SRIE 2023).
- 5.2. Participants are responsible for all costs related to exhibition materials, setup, and transportation of their projects.
- 5.3. Finalists must comply with all rules, regulations, and safety requirements of SRIE as communicated by the competition organizers.

6. Prizes and Awards:

- 6.1. Winners will be determined based on evaluation during SRIE and announced at the end of the competition.
- 6.2. Prizes will be awarded as follows:
 - 6.2.1. 1st place: RM15,000
 - 6.2.2. 2nd place: RM8,000
 - 6.2.3. 3rd place: RM4,000
 - 6.2.4. Consolation prizes: RM1,000
- 6.3. Disbursement of cash prizes will be within 6 week from the end of SRIE 2023.
- 6.4. Prizes are non-transferable and non-exchangeable.

7. Originality of Projects

- 7.1. Participants in the 2023 SRIE Inovasi Anak Selangor competition are solely responsible for the originality and authenticity of their submitted projects. By entering the competition, participants affirm that their projects are the result of

their own work and do not infringe upon the intellectual property rights of others.

7.2. Plagiarism or any form of academic misconduct will not be tolerated.

Participants must ensure that their projects are free from any content, ideas, or materials that have been copied, stolen, or borrowed without proper attribution or authorization.

7.3. The organizers, and affiliates are not liable for any claims or disputes arising from allegations of project plagiarism, copyright infringement, or intellectual property disputes. Participants will bear full legal responsibility and consequences for any violations.

7.4. Upon submission, participants grant the organisers the right to conduct checks for plagiarism or any other form of academic misconduct, using available tools and resources. Suspected cases of plagiarism or misconduct may result in disqualification from the competition.

7.5. Participants should appropriately cite and credit any external sources used in their projects, including but not limited to research papers, publications, data, images, and multimedia.

7.6. In the event that a project is found to be non-original or in violation of intellectual property rights, the participant will be disqualified from the competition, and any prizes awarded will be forfeited.

7.7. Participants are encouraged to seek guidance and mentorship from their respective institutions or organizations to ensure the originality and academic integrity of their projects.

7.8. By registering for the SRIE 2023 Inovasi Anak Selangor, participants acknowledge that they have read and understood the originality clause and agree to abide by its terms.

8. Disqualification:

8.1. Participants may be disqualified if they fail to comply with the terms and conditions, provide false or misleading information, or engage in any form of unethical/illegal conduct.

8.2. The competition organizers reserve the right to disqualify any Participant at their discretion.

9. Limitation of Liability:

9.1. The competition organizers shall not be liable for any loss, damage, or injury arising from participation in the competition or acceptance, possession, or use of any prizes awarded.

9.2. Participants agree to indemnify and hold harmless the competition organizers from any claims, losses, damages, or liabilities arising out of their participation.

10. Governing Law and Jurisdiction:

10.1. These terms and conditions shall be governed by and construed in accordance with the laws of Malaysia.

10.2. Any disputes arising out of or in connection with the competition shall be subject to the exclusive jurisdiction of the courts of Malaysia.

10.3. By participating in the Inovasi Anak Selangor R&D Competition, you acknowledge that you have read, understood, and agreed to these terms and conditions.

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