

TN 2056 Challenge

Requirements Document

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01.

Introduction

The Tunisia 2056 Challenge (TN2056 Challenge) embodies the transformative vision for TSYP in its 12th edition, emphasizing collaboration among Tunisia Student Branches to tackle critical challenges facing Tunisia and envision its future by 2056 through the launch of innovative start-ups.

02.

Objectives

Facilitate collaboration among Tunisia Student Branches to propose innovative solutions for advancing Tunisia across three key domains: health tech, agritech, creative and cultural industries.

Forge partnerships with relevant associations and incubators to provide resources, mentorship, and support for participants in realizing their proposed solutions, including the launch of start-ups.

Focus the lights on our two main revolutionary concepts which are emphasizing sustainability and creating a balance between short-term and long-term impact activities.

Establish a well-tailored set of activities during the challenge which are going to be a set of multiple categorized tasks; mandatory, optional, and voluntary. The purpose of these tasks is to maintain a good follow up of the SBs' advancements by their incubators and supervisors.

03.

Scope

(technical and essential requirements)

The challenge will be exclusively open to Tunisia Student Branches, fostering a sense of ownership and responsibility among the student community.

Proposed solutions should address pressing issues within the specified domains, leveraging technology, creativity, and sustainability to drive positive change.

Activities will include ideation workshops, project development sessions, mentorship challenges, networking events, etc. This will provide diverse opportunities for engagement and collaboration.

The challenge's timeline will cover in order the following stages: Ideation, Business plan, Funding, Team recruiting, Legal studies, Persuading partners, Marketing, and finally Evaluation.

Collaboration with associations and incubators will offer participants access to expert guidance, industry insights, funding opportunities, and potential pathways for scaling their solutions.

The tasks list is specified in collaboration with incubators and associations.

04.

Deliverables

Participants are expected to deliver detailed proposals outlining their innovative solutions, supported by thorough research, feasibility analyses, and potential impact assessments.

Regular reporting of all challenge activities, workshops, meetings, and collaborations with partners, should be compiled and submitted within specific deadlines as part of the final report.

Final reports should summarize the outcomes of the challenge, highlighting key insights, lessons learned, and recommendations for further action.

05. Timeline

The challenge timeline will be divided into distinct phases, including:

Pre-Challenge Phase: Announcement, promotion, and registration of participating Student Branches.

Main Challenge Phase: Ideation workshops, project development sessions, mentorship programs, collaboration with partners.

Post-Challenge Phase: Submission of proposals, evaluation period, finalists proposals selection, proposals pitching during the congress, announcement of winners, and distribution of awards.

Note: All the teams' members that have been pre-selected during the pre-challenge phase are encouraged to attend the TSYPI2 congress since they are all invited to shoot a video summarizing their hard work during the challenge. All the videos will be played in the congress and shared over our social media accounts.

06. Evaluation Criteria

The evaluation criteria for each phase of the challenge assess various aspects crucial to the success and impact of participants' projects:

In the pre-challenge phase, adherence to reporting guidelines ensures a foundational understanding and compliance with procedural requirements, while the quality of reporting content gauges the depth and clarity of participants' project proposals. Alignment with the challenge's mission and vision ensures that proposed projects are in sync with overarching goals. The innovation, originality, and creativity criterion encourage participants to present novel and inventive solutions to the given problem. Collaboration and partnership efforts, if applicable, are also considered.

During the main challenge phase, factors such as regular reporting compliance, quality of reporting content, innovation, stakeholder engagement, feasibility, scalability, adaptability, and short-term impact are evaluated to measure the project's progress, practicality, and immediate outcomes.

Finally, the post-challenge phase evaluation focuses on the sustained alignment with mission and vision, economic impact, clarity of presentation, overall and long-term impact, adherence to reporting guidelines, and continued social media presence to ascertain the legacy and effectiveness of the project beyond the challenge duration.

07.

Challenge Committee Members' Roles and Responsibilities

This part defines the roles and responsibilities of the challenge committee members, experts, potential collaborators, incubators, and accelerators.

Challenge committee members:

Challenge Manager: Ghada Hentati: Responsible for overseeing the challenge's overall management and execution. Coordinates activities, ensures alignment with objectives, and maintains efficiency throughout the process.

Challenge Co-Manager: Tasnim Chiboub: Assists the manager in coordinating and overseeing the challenge. Manages day-to-day operations, ensuring smooth execution.

SAC Representatives: Fedi Galfat & Ahmed Aouididi: They evaluate administrative activities based on the regular reporting that all teams are required to submit, ensuring compliance with guidelines and timelines.

IEEE Entrepreneurship Representative: Salah Dabbech: Responsible for facilitating our communication with IEEE entrepreneurship, seeking national and international opportunities, and ensuring promising advantages for participants.

Challenge Supervisors: Hedi Tmar & Ghazi Mhiri: Oversee day-to-day operations, ensuring tasks are completed promptly and addressing any issues. Provide necessary support and guidance to participants.

Agritech Sector Supervisors: Abdelaziz Kallel & Imen Hbiri: Manage challenges related to agricultural technology. Offer expertise and support to participants, ensuring alignment with sector trends and requirements.

Healtech Sector Supervisors: Mohamed Jmail & Abdelaziz Gdourra: Oversee challenges in healthcare technology. Provide guidance, ensuring solutions meet healthcare needs and technological advancements.

Creative and Cultural Industries Sector Supervisors: Radhwan Maazoun & Lasaad Jamoussi: Manage challenges in creative and cultural industries. Offer support, foster creativity, innovation, and cultural preservation.

Experts:

Role: Technical Supervisors and Evaluators

Responsibilities: Experts are specialized individuals who provide technical guidance and support to the participating student branches. They conduct workshops, offer insights, and assist teams in various domains relevant to the challenge themes, such as health tech, agritech and creative and cultural industries. Additionally, they evaluate the proposed ideas from the teams based on technical feasibility, innovation, and relevance to the challenge objectives.

Expectations: Experts are expected to mentor teams throughout the challenge, helping them develop comprehensive startup proposals. They should possess expertise in their respective fields and be committed to guiding teams towards innovative and viable solutions. Their evaluation of proposed ideas ensures that solutions meet technical standards and contribute effectively to advancing Tunisia in the specified domains.

Potential collaborators:

Role: Facilitation and training

Organizations: Jeune Chambre Internationale (JCI) Tunisie, Orange Digital Center (ODC), Réseau des Ingénieurs Tunisiens (RIT), Ordre des Ingénieurs Tunisiens (OIT)...

Incubators:

Role: Nurturing Environment Providers

Responsibilities: Incubators offer a supportive ecosystem for startups to grow and thrive. They provide mentorship, office space, and access to resources essential for the development of business ideas. Incubators play a vital role in shaping the direction of the challenge by recommending sectors with high potential for success.

Expectations: Incubators are expected to foster a conducive environment for student branches, facilitating their journey from ideation to implementation. They should actively engage with participants, offering guidance and support tailored to their specific needs.

Accelerators:

Role: Growth Catalysts

Responsibilities: Accelerators propel early-stage companies towards growth and expansion. They provide financial support, exposure to investors, and tailored challenges designed to accelerate startup development. Accelerators play a crucial role in scaling promising solutions and maximizing their impact.

Expectations: Accelerators are expected to identify high-potential startups emerging from the challenge during the congress days, where selected finalist teams will pitch their work. Upon identifying these promising ventures, accelerators will provide them with the necessary resources and support to accelerate their growth. They should actively seek opportunities for investment and collaboration to further the success of participating student branches.

08.

Communication and Promotion

The challenge committee will ensure regular updates, reminders, and calls to action to keep participants informed and motivated to actively participate in the challenge activities.

The participants should utilize various communication channels, such as social media, email newsletters, website updates, and press releases, to disseminate information and maintain ongoing engagement throughout the challenge.

09.

Participant Eligibility

The eligibility criteria for Student Branches wishing to participate include active IEEE membership, student status,...

There are limitations regarding the number of participants per Student Branch, allowing for one team per Student Branch to ensure equitable representation.

Each Student Branch may designate a maximum of two representatives, with at least one individual serving as an executive officer from the Student Branch board, preferably holding the position of SB chair:

Communication during the initial and intermediate phases will primarily occur with the SB chairperson and the designated team representative.

Flexibility is granted for Student Branches to adjust their designated representatives between the initial and subsequent phases of the challenge (post-challenge and main challenge), ensuring adaptability and continuity throughout the competition.

10.

Evaluation Process

Proposals Evaluation Aspects:

All the challenge phases will be evaluated by a jury panel. The process mainly includes the following stages:

- **Project Idea Evaluation: (Pre-Challenge)**

Only one project per Student Branch will be accepted for evaluation, ensuring alignment with challenge guidelines.

In the scenario where multiple project ideas are submitted from the same Student Branch (SB), the selection process can indeed prioritize the idea with this challenge phase highest score after evaluation from the jury members.

- **Project Development Evaluation: (Main Challenge)**

Project development will be assessed based on specific criteria such as regular reporting, social media presence, and progress updates.

- **Results and Presentation Evaluation: (Post-Challenge)**

Proposals must be submitted before the congress and will undergo evaluation. Subsequently, during the congress challenge session, project results and presentations will be assessed by a jury panel comprising experts in the relevant fields. This ensures a comprehensive evaluation of the projects' impact and effectiveness.

Composition of Evaluation Panel:

The evaluation panel will consist of experts from relevant fields, including representatives from associations, incubators, and academia.

Scoring Methodology:

Each phase of the proposal will be scored using a predefined set of criteria, with assigned weights reflecting their importance in achieving the challenge objectives.

The selection of finalists, who will be invited to the pitching phase during the congress challenge session, will be based on the total score obtained from the three challenge phases.

Conflict of Interest Resolution:

Procedures will be established to identify and address any conflicts of interest among panel members, ensuring impartiality and fairness in the evaluation process.

Impartiality and Fairness:

Strict measures will be implemented to maintain impartiality and fairness throughout the evaluation process, including transparency in decision-making and adherence to predetermined evaluation criteria.

11.

Awards and Recognition

Each task completed by participants will be acknowledged through various awards, such as "Best Video," "Best Post," etc., to recognize outstanding contributions and efforts.

Participants' contributions will be recognized through a range of methods, including certificates, trophies, and public acknowledgment of achievements, ensuring that their dedication and accomplishments are celebrated and valued.

Every participating Student Branch will receive a score for their involvement and contributions, regardless of whether they advance to the finals or not.

For equity reasons, each category of the proposed sectors will have its own winners.

12.

Sustainability and Impact Assessment

Discuss strategies for assessing the sustainability and balancing between short-term and long-term impact of the proposed solutions which will go beyond the duration of the challenge.

Identify key performance indicators and metrics for measuring the effectiveness and scalability of solutions over time.

Focus on implementing the SDGs while working on the challenge's activities.

13.

Lessons Learned and Continuous Improvement

Emphasize the importance of capturing lessons learned and soliciting feedback from participants, stakeholders, and partners.

Establish mechanisms for collecting feedback, such as surveys, focus groups, and post-challenge evaluations.

Gain valuable insights into the strengths, weaknesses, and areas for improvement of the challenge through feedback.

Use the feedback loop to identify innovative solutions, refine strategies, and adapt to evolving needs and priorities.

Commit to actively listening to feedback, incorporating lessons learned, and continuously striving for excellence in advancing Tunisia's future.

14.

Legal and Compliance Considerations

Address any legal and compliance considerations relevant to organizing and executing the challenge, such as data privacy regulations, liability waivers, and adherence to IEEE policies and guidelines.

18.

Conclusion

This document summarizes the key components and objectives of this challenge emphasizing the importance of adherence to the outlined guidelines and procedures.

TN 2056 Challenge

Join us in tackling the TN2056 challenge and be a part of shaping Tunisia's future!

Your innovative ideas and solutions can make a real difference. Best of luck to all participants.

We can't wait to see the transformative impact you'll create!