
REGULATION

Preamble

The "Reducing CO2 Emissions in Patient Care Pathways" Hackathon is a collaborative initiative by NOVA Medical School and AstraZeneca, co-organized by NOWACE, the Junior Enterprise of NOVA Medical School and supported by the other Junior Enterprises of NOVA University Lisbon (In-Nova Junior Data Consulting and Nova Junior Consulting), held within the context of the Estoril Conferences.

This event is a competition between teams, taking place on **October 22-23, 2024**, at the **Casa Reynaldo dos Santos and Irene Virote Quilhó dos Santos**, in Parede, Lisbon. The Award Ceremony will take place on **October 25th**, at the main stage of Estoril Conferences, at **Nova School of Business and Economics**. The hackathon aims to foster the development of innovative projects that address the challenge of **"Reducing CO2 Emissions in Patient Care Pathways."**

This regulation pertains to the 2024 edition. All participants agree to these terms and acknowledge that the Organizing Committee (OC) reserves the right to modify the regulations at any time without prior notice, should circumstances require, including adjustments to the format or rules of participation.

Article 1: Objectives

The main objective of this initiative is to:

1. Identify and support innovative and viable technological solutions that promote sustainability and the decarbonization of the healthcare sector, addressing real-world problems with the potential to enhance both healthcare quality and the well-being of the population.

Article 2: Problem Statement

The Hackathon's challenge focuses on minimizing the carbon footprint of healthcare delivery while ensuring or improving the quality of patient care. Projects should address one or more of the following areas:

AI-Driven Diagnostics and Treatment Plans

- **Minimizing Unnecessary Procedures:** Develop AI algorithms that accurately diagnose conditions and recommend treatments, reducing redundant tests and procedures.
- **Innovative Digital Tools:** Leverage AI and machine learning to streamline clinical decision-making processes.
- **Predictive Analytics for Diagnostics and Treatments:** Use predictive models to enhance diagnostic accuracy and optimize treatment strategies.
- **Resource Optimization:** Employ predictive analytics to better allocate resources, cutting down on waste, water usage, and carbon emissions.

Sustainable Clinical Practices

- **Energy-Efficient Technologies:** Implement cutting-edge, energy-efficient technologies in healthcare facilities to reduce carbon emissions.
- **Sustainable Medical Supplies:** Promote the use of low-carbon and sustainable medical supplies.
- **Biodegradable and Reusable Materials:** Advocate for biodegradable and reusable materials, especially in critical care settings, to minimize environmental impact.
- **Low-Emission Medical Gases:** Transition to low-emission alternatives for medical gases, such as those used in inhalers and anesthetics.

Enhanced Patient Access and Optimization

- **Teleconsultation and Patient Pathway Management:** Encourage teleconsultation and integrated care pathways to optimize healthcare delivery and minimize resource use.
- **Remote Monitoring and Chronic Disease Management:** Implement remote monitoring tools to manage chronic conditions effectively outside traditional healthcare settings.
- **Virtual Care Platforms:** Develop comprehensive virtual care platforms offering telemedicine, virtual clinics, and health education.
- **Data-Driven Decision Support:** Use data analytics and AI to personalize patient care plans and support clinical decision-making.

- Patient Empowerment and Education: Enhance patient engagement with digital health tools, providing personalized health information and self-care resources.

Article 3: Organization

1. The organization of the Hackathon "Reducing CO2 Emissions in Patient Care Pathways" is the exclusive responsibility of the Organizing Committee (OC), comprised of representatives from AstraZeneca, NOVA Medical School, NOWACE and the other Junior Enterprises of NOVA University Lisbon (In-Nova, Junior Data Consulting and Nova Junior Consulting).
2. During the event, participating teams will have access to technical and logistical assistance, provided by designated members of the OC.

Article 4: Participation Requirements

1. All participants must be 18 years of age or older.
2. Each group must consist of 4 to 6 participants.
3. Candidates may register individually. Even if you have a group, every element has to register on it's one, as well as identifying the group leader and the rest of the team. In the case of not having a team, or one that is complete, the Organizing Committee (OC) will subsequently assign participants to teams.
4. Teams must be multidisciplinary, including students from various academic units of NOVA University Lisbon, or other Portuguese Universities.
5. Participants are responsible for all information and content included in the project they will present.

Article 5: Participation Conditions

1. Participation in the event implies full knowledge and unreserved acceptance of the terms outlined in this regulation, as well as any potential amendments.
2. Applications must be submitted via the official registration form, available on the program's landing page, by the deadline set by the organizers.
3. The Organizing Committee reserves the right to extend the registration deadline, provided prior notice is given on the official website.
4. Incomplete applications or those submitted after the deadline will not be accepted.

5. Each individual or group participant may submit only one application.
6. The intellectual property of the project must belong entirely to the participant(s).
7. Projects that have previously been awarded in other competitions will not be accepted, except for new phases or versions of the original project, as long as they have not received prior funding.
8. Applications are free of charge.

Article 6: Cancellation

1. Registration cancellation must be done by sending an email to nova.hackathon2024@gmail.com, with the subject "Cancellation (name)."
2. Cancellation without justification can only be communicated until October 18, 2024.

Article 7: Waiting List

1. If registrations exceed 60 participants, those registering beyond this limit will be placed on a waiting list.
2. Participants on the waiting list may become eligible to join the competition if a registered team withdraws.
3. Notifications of eligibility will be communicated through official channels (nova.hackathon2024@gmail.com) prior to the event.

Article 8: Competition Format and Evaluation

1. The Hackathon "Reducing CO2 Emissions in Patient Care Pathways" will take place in a competitive format, with the core activity being the work developed by the teams over a 48-hour period on October 22 and 23.
2. During the event, teams will have access to training sessions and mentoring provided by distinguished professionals and professors.
3. Project presentations should be conducted in English, unless all participants are Portuguese speakers, in which case the pre-event, workshops, and hackathon will be held in Portuguese.

4. At the end of the development phase, the projects will be evaluated. This phase will be conducted by a jury of recognized merit with the objective of selecting the winners.
5. The winning teams will be announced on October 25 during the main stage of the Estoril Conferences at NOVA SBE, in Carcavelos.

Article 9: Jury

1. The jury will consist of a predetermined number of judges, the composition of which will be announced in advance on the event's landing page.
2. The jury's primary responsibility is to select the top three projects by assigning scores based on the evaluation criteria established by the Organizing Committee (CO) for the purpose of awarding first, second, and third prizes. The CO reserves the right to amend the evaluation criteria up until the commencement of the event, at which point the final criteria will be disclosed.
3. Each team is responsible for preparing and delivering their pitch. During the pitch, which has a maximum duration of five minutes, each group must provide a concise demonstration of their project, highlighting its features and usability. Following the presentation, there will be a dedicated five-minute period for questions from the jury.

Article 10: Evaluation Criteria

Each project will be evaluated based on the following criteria, with the jury assigning scores and providing constructive feedback. To ensure a thorough assessment, each criterion will be weighted according to its significance in achieving the overarching objectives of the hackathon. Projects that accumulate the highest scores will be declared winners, with the jury also considering their potential for long-term impact and implementation.

1. **Relevance of the Identified Problem:** Evaluating the significance and urgency of the problem addressed by the project in the context of reducing CO2 emissions in patient care pathways.
2. **Innovation and Creativity:** Assessing the extent to which the solution offers a novel approach to the identified issue.
3. **Suitability of the Product/Service as a Solution:** Determining how effectively the proposed solution addresses the identified problem, including its practicality and feasibility.

4. **Clinical Relevance:** Gauging the applicability of the solution in real-world healthcare settings and its ability to uphold or enhance the quality of patient care.
5. **Technical Feasibility:** Analyzing the practicality of implementing the solution with existing technology and its potential for future development and scalability.
6. **Business Viability:** Assessing the project's potential for commercial success, including the robustness of the business model and the clarity of the value proposition.
7. **User-Centric Design:** Evaluating how well the project meets the needs of end-users and how effectively it is designed with their experience in mind.
8. **Scalability:** Determining the project's potential for expansion and adaptability to diverse contexts or environments.
9. **Quality of Presentation:** Examining the clarity, persuasiveness, and professionalism of the project's final presentation.
10. **Alignment with Ethical Standards:** Ensuring adherence to ethical guidelines in healthcare and technology throughout the project.
11. **Team Collaboration:** Assessing the team's ability to collaborate effectively and demonstrate interdisciplinary cooperation.

Article 11: Meals

1. **Catering Responsibilities:** The Organizing Committee (CO) shall oversee all catering arrangements; however, each team is responsible for organizing their meals in accordance with the resources and food options provided during the event.
2. **Additional Food:** Participants are permitted to bring extra food items to the event.
3. **Meal Provision:** The following meals will be made available:
 - a. Breakfast, lunch, and dinner on October 22nd;
 - b. Breakfast and lunch on October 23rd;
 - c. A variety of hydrating beverages, snacks, and food items, subject to stock availability.
4. **Dietary Restrictions:** All dietary restrictions must be disclosed during the registration process. Should this information not be provided, the CO cannot guarantee the availability of suitable alternatives.

Article 12: Facilities and Infrastructure

1. **Event Location:** The Hackathon "Reducing CO2 Emissions in Patient Care Pathways" will be held at Casa Reynaldo dos Santos and Irene Virote Quilhó dos Santos, commencing at 09:00 AM on October 22nd and concluding at 6:00 PM on October 23rd.
2. **Location Changes:** The CO reserves the right to modify the event's location and date for logistical purposes.
3. **Exclusive Use of Facilities:** Participants agree that the facilities and infrastructure will be utilized exclusively for the event.
4. **Technological Equipment:** Participants are responsible for providing any technological equipment and software deemed necessary for the development of their projects.
5. **Project Development Location:** Teams are required to conduct their project development on-site during the event, unless exceptions are authorized by the organizing committee.
6. **Free Participation:** Participation in the event for selected teams is provided at no cost.

Article 13: Prizes

1. **Prize Allocation:** At the conclusion of the event, prizes shall be awarded to the top three teams based on their project presentations.
2. **Nature of the Prize:** The prizes will consist of funding designated for centralized cost centers at NOVA Medical School, specifically intended for the development and implementation of the projects presented during the event. The monetary awards are as follows:
 - 1st Place: €12,000
 - 2nd Place: €8,000
 - 3rd Place: €5,000
3. **Mentorship Support:** In addition to the monetary awards, the winning teams will receive comprehensive mentorship support for a period of nine months following the event. This mentorship aims to guide teams in refining their projects and enhancing their potential impact.

4. **Fund Utilization:** Each prize will be allocated to a designated cost center at NOVA Medical School to ensure the prudent and effective use of the funds. Each team is responsible for submitting their expenses to the relevant cost center associated with their project, specifically for the development of the initiatives outlined in their respective pitches.
5. **Reporting Requirements:** To ensure transparency and accountability in the utilization of funds, the winning teams will be required to submit periodic progress reports. These reports should include documented evidence of how the funds are being employed. Specifically, teams must provide a progress report by the fifth month of the program, followed by a comprehensive final report at the conclusion of the nine-month mentorship period.

Article 14: Confidentiality

All parties involved (participants, representatives of NOVA Medical School, and members of Junior Enterprises from Universidade NOVA de Lisboa) hereby commit to maintaining strict confidentiality regarding all information accessed in connection with this initiative, including intellectual property and industrial property. This obligation shall persist even after the conclusion of the initiative, except as strictly necessary for the execution of this initiative and for the essential promotion and dissemination of the program.

Article 15: Terms and Conditions

1. **Acceptance of Regulations:** Registration for the event implies that participants have read and accepted the present regulations.
2. **Project Responsibility:** The content and information pertaining to the submitted projects are the sole responsibility of the participants.
3. **Exclusion Rights:** The Organizing Committee (CO) reserves the right to disqualify any team if a member exhibits behavior deemed inappropriate for the event.
4. **Content Restrictions:** The submitted projects must not include any explicit or suggestive sexual references, violent content, or language that demeans any ethnic, racial, religious, professional, or age group, nor may they contain pornographic material.
5. **Prohibited Promotion:** Projects must not promote illegal drugs, firearms, or any activities that convey unsafe, dangerous, or political messages.

6. **Obscenity and Offensiveness:** Projects must not be obscene or offensive, nor should they support any form of hate, group hatred, or disparaging comments about the organization, its products or services, or those of other individuals, products, or companies.
7. **Plagiarism:** The CO reserves the right to disqualify any team found to be engaging in any form of plagiarism during the event. In such cases, the responsibility for this action will be borne entirely by the members of the implicated team.
8. **Regulatory Authority:** The CO holds the authority to decide on any omitted or ambiguous cases concerning these regulations, and its decisions will be final.
9. **Liability:** The CO shall not be liable for any material damages caused by any team member; such responsibilities and sanctions shall be assigned to the respective teams.
10. **Fraudulent Conduct:** Should the CO suspect any participant or third party of engaging in unfair, misleading, or fraudulent conduct of any kind, the organization reserves the right to disqualify individuals it reasonably considers responsible for or associated with such inappropriate behavior.
11. **Reversion of Funds:** The CO reserves the right to recover any awarded funds or impose penalties if the winning teams fail to utilize the prize money for the intended purpose. Such measures ensure that the funds are used solely for the implementation of the winning projects as specified.

Article 16: Intellectual Property

1. **Ownership of Projects:** All projects submitted for competition and developed during the event remain the intellectual property of their respective authors, in compliance with established copyright laws. The authors are solely responsible for the protection of their intellectual property.
2. **Scope of Licensing:** The scope of any license (whether concerning a specific portion, phase, or sub-project of a broader project or the results of the entire project) will be determined in the agreement established between the beneficiaries and the FAZ, as referenced in Sections 6.5 and 11.4.
3. **License to the CO:** Notwithstanding the previous provision, participants grant the CO a perpetual, worldwide, exclusive, royalty-free, transferable, and sublicensable license to use, reproduce, distribute, disseminate, and publicly display the project results, without limitation regarding medium, location, or format, for any purpose.

Article 17: Data Protection

1. **Data Management:** The CO is responsible for processing the personal data provided in connection with the award of prizes and ensures the security and confidentiality of the personal data of participants during registration, as well as that of the winners.
2. **Purpose of Data Processing:** The aforementioned personal data shall be processed by the CO exclusively for the management of the Initiative and the allocation of prizes, as well as for the promotion and dissemination of the event through various national media (including newspapers and magazines) and/or on the NOVA Hackathon 2024 landing page. This will occur with the express consent of the data subjects, in accordance with applicable legislation, particularly Law No. 67/98 of October 26 (LPDP) and Regulation 2016/679 (GDPR), effective from May 25, 2018. The CO implements all necessary and appropriate security measures to protect the personal data of candidates and winners, whether processed directly by the CO or by entities subcontracted by it.
3. **Data Protection Measures:** Nonetheless, candidates and winners must also ensure they have appropriate protection measures in place on the devices they use to minimize the risk of unauthorized access to their data when submitting applications.
4. **Subcontracting Entities:** In the context of this Initiative and for the purpose of awarding prizes, the CO may engage subcontracted entities, including AstraZeneca, which will act in accordance with applicable legislation as subcontractors, processing the data of candidates and winners in accordance with the instructions and for the purposes set by the CO. The CO will not disclose the personal data collected in the context of this Initiative to any third parties.
5. **Consent Requirement:** Since the personal data of candidates and winners is essential for the management, promotion, and dissemination of the prizes, failure to provide consent for the processing of personal data will preclude participation and prize allocation.
6. **Data Retention Period:** Personal data will be retained for a period of one (1) year, after which it will be deleted, except for the data of winners, which will be retained for one (1) year following the conclusion of the funded project, unless a longer retention period is mandated by applicable law.

7. **Withdrawal of Consent:** Candidates and winners may withdraw their consent for the processing of their personal data at any time in accordance with applicable legislation. Such withdrawal will not affect the validity of processing carried out prior to the withdrawal. Withdrawal of consent may result in the CO being unable to process their personal data, which could lead to the inability to proceed with the application and subsequent award of the prize.
8. **Rights of Candidates and Winners:** Candidates and winners have the right to access their personal data and request rectification, updating, deletion, and/or portability of their data, as well as the right to object to or request limitation of the processing of their personal data. These rights may be exercised by submitting a written request to the CO via the email address hackathon.nova@gmail.com. Candidates and winners may also contact the CO through the same channels for clarifications related to the processing of their personal data.
9. **Right to File a Complaint:** Candidates and winners have the right to lodge a complaint with the National Data Protection Commission (CNPD) if they believe there has been a breach of legal provisions regarding data protection by the CO.

Article 18: Final Provisions

1. The organization reserves the right to amend these Regulations, informing promoters who register or participate in any of the categories;
2. Situations not addressed in these Regulations will be duly analyzed and defined by the organization;
3. Participation in the Program implies the express acceptance of the terms and conditions set forth in these Regulations by the promoters.

Article 19: Applicable Law and Dispute Resolution

1. These Regulations are governed by Portuguese law.
2. Any questions or disputes arising from this Initiative, particularly regarding the interpretation or application of these Regulations, shall be submitted to the competent jurisdiction.