



Contest's Rules

The APSA Challenge for Science and Technology – Ethiopia 2018: Technology for Sustainable Development

The ORGANIZER:

The **APSA (Association pour la Promotion Scientifique en Afrique)** “the ORGANIZER”, association under the law 1901, registered in the directory of companies and institutions (SIREN) under the number 512 132 698, having its registered office at the IHP, 11 rue Pierre and Marie Curie 75005 Paris, organizes a free international competition called «**The APSA Challenge for Science and Technology – Ethiopia 2018: Technology for Sustainable Development**» (below referred to as the « Challenge »).

The Challenge is sponsored by

1. La Société Française de Physique (Commission Physique sans Frontières)
2. La Fondation IAGOLNITZER (DIF), Paris France

The Challenge is organized by APSA in partnership with

1. Ethiopia Young Academy of Sciences
2. Ethiopia Academy of Sciences – Natural Science Working Group

The conditions of these various partnerships are specified in separate agreements concluded by APSA with these partners, hereinafter collectively referred to as the “Partners”.

The present document is hereinafter referred to as the “Contest Rules”.

Article 1. The Challenge description

The APSA organizes a challenge called « **The APSA Challenge for Science and Technology – Ethiopia 2018: Technology for Sustainable Development** » (called hereinafter “the Challenge”)

in view of promoting research and innovations in Science and Technology (S&T) and Entrepreneurship for the Sustainable Development in Ethiopia and more generally, in Africa.

This competition is organized by the APSA within the framework of the scientific promotion of Africa, objective aimed by the APSA since its creation in 2008. The Challenge is aimed at young Ethiopian and African scientists and developing entrepreneurs.

A “candidate” is an individual or group of individuals (called hereinafter “team”) starting the registration procedure to the Challenge on the website of the Challenge (called hereinafter the “Site”). A registered candidate is called “Participant”. A candidate will be informed about her or his status of being Participant after validating its application.

The candidates will have to submit a project (hereinafter referred to as the "Prototype") describing the characteristics of an innovative device they wish to propose as part of the Challenge. By device, it should be understood any technology providing a solution for sustainable development and environmental problems and that can be declined in the form of

- Clean energy production
- Up/Down/Re-cycling
- Water treatment
- etc ...

A candidate must submit an application using a form available on the Challenge website with:

1. the name of the project and the names of all people having realized of the project. A team should also give a name of the team leader to whom correspondences should be addressed.

The candidates must upload a single compressed file with

2. a report (preferably a .pdf) describing the prototype including what are the new innovations used in the device
3. a copy of an ID card
4. Proof of belonging to an institution where applicable

In particular, the candidates’ report should address the following questions

1. S&T novelty criteria: what are the innovations introduced in the Prototype?
2. Environmental/Sustainable Development criterion: What is the environmental or sustainable development issues tackled by the Prototype?
3. Social/economic criterion: To which society problem the project is providing an answer? Who could be interested by the project?

4. Research impact criterion: what research domain could benefit of the S&T developed in project?
5. Educational criterion: Is it possible to produce a simplified version (with cheap equipment/material that could possibly be found in local markets) of the device for practical training sessions in other labs and high schools? If yes, elaborate.

Special bonus points will be bestowed to Prototypes which are

- ! built with locally found material
- ! with minimal/positive environmental impact during their construction
- ! easy to duplicate, maintain and repair
- ! open-source

The candidate should emphasize these features in the report. The application should clearly emphasize the principle, the issues and sustainable development vectors of its Prototype.

The Challenge therefore aims at stimulating innovations and new technologies for sustainable development with short/medium term impact on the society. It also incorporates an underlying pedagogical and educational component (point 5 above) by smoothing the insertion of these S&T projects in the society via, e.g., high-schools.

No private data should be contained in the Prototype submitted. Candidates and Participants undertake to transmit only Prototypes composed of information and/or elements for which they have exploitation rights, in accordance with the provisions of Article 9 and complying to Article 4.3.

An international jury (called hereafter “the jury”) composed by scientist experts in Robotics, Sustainable Development, Experimental Physics, Electromechanics, Renewable Energy, Water Treatment, Recycling, Computer and Material Science, will pre-select 10 projects among which will be awarded at the end of the Challenge:

- a 1st Prize: a prize of 2500 euros and a 1-month research stay of a maximal cost of 3000 euros in a high-tech lab (chosen among 3 choices of the awardee)
- a 2nd Prize: a prize of 1500 euros and a 1-month research stay of a maximal cost of 3000 euros in a high-tech lab (chosen among 3 choices of the awardee)
- a 3rd Prize: a prize of 1000 euros.

The first two laureates, will indicate three laboratories, possibly international, where they would like to have a stay to continue their research.

Should the winning project be a team collaboration, the research stay will be only provided to the team leader.

Article 2. Calendar of the Challenge

The Challenge will occur according to the following milestones:

The Challenge will be announced the 1st April 2018 and will start at this date. An advertisement campaign will take place at this date. The jury panel of international and local experts must be proposed and contacted at this date.

Step 1: Registration of candidates and Prototype submission 1st April – 30th June 2018.

Registration to the Challenge is open to any individual or team which comply to criteria listed in the Article 3. The candidates could register on the following website: www.challengest.apsa.fr (below referred to as the “Site”). The ORGANIZER reserves the right to accept other candidatures for the next 15 days if the number of these is less than 10. Beyond this date deadline, no more applications can be taken into account. The candidates will submit their application by completing the form available online and load their project. After submitting their application, the candidates will receive confirmation of their status of being Participants.

Step 2: Pre-selection of 10 semi-finalist Prototypes 1st July – 31st August 2018.

All Prototypes will be assessed according to the criteria listed in Article 4. The best projects will be selected by the jury. The 10 best Prototypes (the Participants having made these Prototypes are herein called “semi-finalists”) will receive useful feedback from the jury and could keep up to the Step 3. The semi-finalists will be informed by email and/or telephone and on the Site. The semi-finalists residing in Ethiopia will receive an invitation and support for attending the S&T event (hereinafter called “Science Fair”) co-organized by the Partners. The semi-finalists residing outside Ethiopia will be provided invitation letters to organize their trip to Addis Ababa, Ethiopia, for attending the Science Fair. Participants are invited to initiate immigration and visa procedures in the Ethiopian consulate the closest of their country.

From the 20th to 31st August 2018: Announcement of the results.

Step 3: Resubmission and re-evaluation of 10 semi-finalist Prototypes 1st September – 15th November 2018.

The Participants selected at Step 2 will be invited to proceed to Step 3 of the Challenge.

From 1th September – 15th October 2018, using the jury first report on their Prototype, the 10 semi-finalists could improve their Prototype and resubmit it for re-evaluation. A new report containing key improvements should be resubmitted on the Site.

16th October – 30th October 2018, re-evaluation of the new Prototype version of the 10 semi-finalists.

1st November – 15th November 2018, announcement of the finalists: 3 Prototypes will be selected to pursue the Challenge. The successful Participants are call hereinafter “finalists” and their number is now set at 3. This number may change depending on the number of Participants, quality of the Prototypes, at the sole discretion of the ORGANIZER. Finalists will be informed of their selection by the jury by email and/or telephone and on the Site.

Participants will be informed that a presentation of themselves and their achievements will appear on the Site, which they expressly accept. They have to present their project in the Science Fair, under the conditions defined by the ORGANIZER.

Step 4: The Science Fair and Prize ceremony 8th-10th December 2018.

The prize ceremony will take place during the Science Fair organized by the Partners between the dates mentioned above. The event could take place in Addis Ababa. The finalist Prototypes will give a “proof of concept” which consists in a presentation and demonstration of the use of the Prototype. The 3 finalists Prototypes will be evaluated and ranked by the jury in accordance with the criteria defined in Article 4.

Distinguished scientific personalities and members of the jury will deliver the prizes to the 3 best projects.

The transportation of the semi-finalists residing in Ethiopia, as well as their accommodation on site in Addis Ababa will be supported by the ORGANIZER up to a maximum of 300 euros per candidate. All other expenses and/or unspecified expenses remain the responsibility of the 10 semi-finalists.

Step 5: The research stay in a high-tech lab. From January – July 2019.

After the prize ceremony, the two first ranked finalists will be assisted for contacting the labs chosen in their project report. The research stay will be supported by the ORGANIZER (visa fees, transportation, accommodation and living expenses). An assistance will be also provided and will

take several forms, by sending recommendation letters, by contacting the labs, and assistance and advice for Visa procedures if required. Once the travel and immigration documents gathered, the APSA will assist in booking the flight and accommodation for the stay of the two first ranked awardees. The living expenses will be sent around the date of arrival of the awardees in the country of the host lab.

Article 3. Conditions of participation

3.1 Before the start of the Challenge, the ORGANIZER will inform via its official website, the principles and procedure of the Challenge and communicate the address of the Site to which this regulation could be consulted. Those wishing to become candidates must read and accept these rules and complete the registration form attached hereto, available on the Site. The registration and validation of the registration form implies full and complete acceptance of the conditions of participation in the Challenge, as defined by the rules.

3.2 The Challenge is open to any person with an African citizenship residing in Africa, who is at least 18 years old at the starting date of the Challenge, excluding the members of the Jury, the staff of the ORGANIZER and the Partners participating in the organization of the Challenge, as well as members of their family. The candidates and Participants under the age of 18 must obtain the consent of their parents or legal guardian to accept these Contest's Rules and to enter the Challenge. The ORGANIZER reserves the right to exclude certain Participants, if these persons are presumed to have violated these rules.

The candidates can also apply together if they form a team and want to work together. At most, 5 people could work on the same Prototype. In this case, they must form an association. A team is led by a team leader. The association must be created at the latest before Step 3. It is in this case the association which is considered as a Participant and can thus benefit from a price. However, only the team leader will benefit from the research stay.

3.3 Candidates must submit their Prototype within the time specified in Article 2 of the Contest's Rules. Each Prototype must be described through the form and written in English, describing precisely the functional and technical characteristics of the Prototype. The Prototypes selected for Steps 2 and 3 must be completed and improved before resubmission in the form of a compressed file, according to the competition calendar presented in Article 2, by email at the following address: www.challengest.apsa.fr. In any case, the candidatures will have to be brought to the attention of the Jury in a form allowing this one to understand the principle, the stakes and the vectors of

sustainable development of the Project concerned. Additional information may be requested during the period specified in Article 2.

3.4 The Challenge is free. The fees that could be generated by the Prototype could be subjected to reimbursement according to the conditions of Article 8 of the present document.

3.5 The ORGANIZER reserves the right to modify, to stop, to cancel or deffer the Challenge at any time, without notice, notably because of its own constraints. Article 12 further specifies conditions of liability and guarantees of the ORGANIZER.

Article 4. Selection of the Challenge winners and Guarantees

4.1 Pre-selection of 10 semi-finalists by the jury

All information sent to the ORGANIZER by the candidates and Participants during the submission phase Step 1 and Step 3 will be checked by the ORGANIZER which will ensure that they are eligible for the Challenge and that they respect the Contest's Rules.

An independent jury including highly qualified expert scientists assess the devices and prototypes in discretionary manner, judging the originality and innovating character, the useful value, pertinence and correlation with sustainable development/environmental issues, technical reliability and functionality, the graphism and design.

The final composition of the jury will be made public on the website of the Challenge no later than 5 days before the closing date of the Prototype submissions. If one or several jury members are not able to attend, the ORGANIZER will proceed with the required replacement.

In agreement with Article 2, after the Step 1, the jury will pre-select 10 Prototypes (semi-finalists) among all submitted, and then 3 (finalists) among the 10 semi-finalists at the issue of Step 3. The selection process will take place at the date specified in Article 2.

Among the selection criteria are

1. the creativity and innovation degree in the concept of the Prototype
2. the viability of the Prototype
3. the potential of the Prototype in terms of environmental and sustainable development impact
4. the potential of the Prototype in terms of socio-economical impact

5. the potential of the Prototype in terms of the educational impact

The pre-selected Prototypes should answer to the following issues

1. S&T novelty criteria: what the originality or innovations introduced by the project?
2. Environmental/Sustainable Development criterion: What is the environmental or sustainable development issues tackled by the Prototype?
3. Social/economic criterion: To which society problem is the project providing an answer? Is there a large population who could be interested by the project?
4. Research impact criterion: what research domain could benefit of the S&T developed in project?
5. Educational criterion: Is it possible to produce a simplified version (with cheap equipment/material that could possibly be found in local markets) of the device for practical training sessions in academic and high schools labs? If the project is already of that precise sort, emphasize it.

4.2 Selection and winners' announcement

The winners of the Challenge will be selected according to

1. the same criteria as Step 2 and 3 of the competition (see Article 4)
2. the significance of the improvements added to their Prototype since Step 2
3. the proof of concept presented in the final.

The jury will then rank the finalists and will announce the winners of the Challenge during the prize ceremony at the Science Fair. The Winner's announcement will be made on the dedicated Site at the same time as the closing event. There can not be an ex-aequo winner. In the event that several Participants are tied for the allocation of prizes in the Challenge, it will be up to the Jury President to decide between these Participants the winner. The decisions of the Jury are final, they can not be the object of any appeal whatsoever. It is specified that the Prototype of the winner may be used by the ORGANIZER under the conditions specified in Article 6 of the Contest's Rules.

4.3 Guaranty/Safeguards

The Participants guarantee that their device/prototype

1. is an original work from the Participants
2. does not contain any trademarks, logos or elements covered by copyright and which would not belong to the Participants or which would be used without permission or which

otherwise would infringe the rights of any third party, including copyrights, trademarks, patents, business secrets, logos, rights from contracts or licenses, advertising rights or rights relating to privacy, moral rights or any other intellectual property rights

3. is not the subject of a contract with a third party, and that the ORGANIZER will not have to pay costs to any person or entity by reason of the use or exploitation of the application or any other right related to the proposed device.

Article 5. Disqualification of a registered candidate

Participants may be disqualified for any proven violation of this regulation. A Participant may be disqualified during any phase of the Challenge, even if the Participant is already designated winner, from the discovery of any type of act of falsification and/or cheating, be the Participant the author and/or accomplices of this act. In case of disqualification, the ORGANIZER invalidates the offender Participant's or team participation of the Challenge. The latter is declared disqualified by sending an email to the indicated address when registering for the Challenge. If the disqualification concerned a registered Participant who was given a prize, the disqualified Participant agrees to return the prize in full to the ORGANIZER which will decide to assign it to another Participant.

Article 6. Promotion and communication

The ORGANIZER is the only one competent for the publication of the results.

All Prototypes submitted to the Challenge, and in particular the winner device will be highlighted on the "Results" page of the Site, and on the different communication media of the ORGANIZER and the partners of the Challenge. The Participants waive any claim for compensation for the promotion of their applications or Prototype.

Article 7. Content of the Prizes of the Challenge

1° All Participants who submitted a Prototype within the framework defined in Article 2, and respecting the conditions of application presented by the present regulations will be able to benefit from free membership of the APSA during five years.

2° In addition, each of the three finalists will receive a bonus, the amount of which will depend on the ranking by the jury

- 1st Prize: a prize of 2500 euros and a 1-month research stay of a maximal value of 3000 euros in a high-tech lab (chosen among 3 choices of the awardee)

- 2nd Prize: a prize of 1500 euros and a 1-month research stay of a maximal value of 3000 euros in a high-tech lab (chosen among 3 choices of the awardee)

- 3rd Prize: a prize of 1000 euros.

Should the winning project be a team collaboration, the research stay will be only provided to the team leader.

Other lots may eventually complement these endowments (additional training, technical support, 3D printer, "low cost" tools), the ORGANIZER remaining free to propose or not, at its discretion, these additional lots.

Article 8. Participants' Commitment

In connection with participation in this Challenge, the Participants agree that certain of their personal data will be transmitted to the Partners, for the exclusive purposes of the Challenge, subjected to prior approval of the Participants.

Article 9. Right of exploitation and intellectual property

By submitting their Prototype to the participation in the Challenge, Participants guarantee that they hold all the rights pertaining to any text, image, photograph, software and any other graphic content included in the Prototype, or that the owner of these rights has authorized them to use the content as part of the Challenge. They guarantee that any person whose image or voice is reproduced in the Prototype has consented to this reproduction, in particular for the purpose of distribution, reproduction and public dissemination. Under no circumstances should the Prototypes infringe an intellectual property right or a right to the image. Each Participant guarantees to the ORGANIZER that its creation does not affect in any way the rights possibly held by a third party, and that the Participant obtained, if necessary, the authorization of the third party who possibly participated in its elaboration.

Any candidate or Participant retains ownership of the intellectual property rights attached to his device. By entering the Challenge, the candidate or Participant acknowledges being the rightful owner. Candidates or Participants do not assign in any way and to any party their commercial

exploitation rights and the ownership of their Prototypes made within the framework of the Challenge, until the end of the Challenge.

If the Participants wish to assign their rights within the next 6 months, they undertake to propose first to the ORGANIZER or its partners to acquire the rights of their prototypes for commercial purposes.

Article 10. Promotional use by the ORGANIZER

10.1 In connection with their participation in this Challenge, the Participants (including the semi-finalists and the winners) authorize the ORGANIZER to use, if it wishes, their first and last names, and Prototypes for any communication, promotion, internal and/or external advertising relating to the Challenge and without giving them any remuneration, right or advantage whatsoever.

By entering the Challenge, Participants accept the use and dissemination of their image by the ORGANIZER, in particular for promotional purposes for a subsequent event at the Challenge. The production and distribution of films or photographs of the event will not give rise to any payment of the Participants.

10.2 The ORGANIZER reserves the right to publish the name of the winning people or teams for any publication relating to the results of the Challenge. Any Participant present at the final recognizes the ORGANIZER to illustrate this event the right to disclose to the public an image that may include her or his person.

Article 11. Liability and Guarantees

Participation in the Challenge implies the full knowledge and acceptance by the candidates and Participants of all the clauses of this Challenge and the characteristics and limits of Internet, especially regarding technical performance, the response time to consult, interrogate or transfer information, the risks of interruption, and more generally the risks inherent in any connection and transmission over the Internet, the lack of protection some data against possible diversions and the risk of contamination by possible viruses circulating on the Internet.

It is specified that it is the responsibility of the candidate and Participant to take all appropriate measures to protect the candidate's and Participant's own data and/or software and/or computer equipment against any infringement.

The ORGANIZER can not be held responsible for any error, omission, interruption, loss of data, malfunction or if the Participant fails to access, participate in the Challenge causing direct or indirect damage.

The ORGANIZER can not be held responsible for mail disturbances or disorder.

The ORGANIZER reserves the right if it considers that the circumstances require it to modify, interrupt, shorten, cancel or postpone the Challenge, at any time, without notice and in particular in according to its own constraints, without its responsibility being able to be sought thereby. It can not be the object of any claim to engage its responsibility in this respect.

Any candidate or Participant is fully liable for any prejudice he or she may cause directly or indirectly to another candidate or Participant, a member of the jury, the ORGANIZER or a third party. The candidate or Participant assumes full responsibility for the lawfulness, adequacy and non-infringement of third party intellectual property rights of its application.

Article 12. Force Majeure

In case of occurrence of an event of force majeure as provided by the French jurisprudence of the Court of Cassation, the ORGANIZER will not be responsible for the suspension or cancellation of the Challenge or the total impossibility or partial winner to receive the endowments and will not be liable for any compensation.

Article 13. Protection of personal data - Compliance with the Data Protection Act - Email and/or mails details and the loyalty and sincerity of their participation in the Challenge.

Any false statement, false indication of identity or address entails the immediate elimination of the Participant. The personal data collected by the ORGANIZER in connection with the Challenge are subject to an automated processing of personal data in accordance with the provisions of Law No. 78-17 of 6 January 1978, as amended, relating to data processing, files and freedoms. In accordance with Articles 34 and 35 of this law, the ORGANIZER undertakes to take all necessary precautions to preserve the security of the information and in particular to prevent it from being distorted, damaged or communicated to unauthorized persons. The collected data will not be sold or transferred to third parties, in any way whatsoever, except to the Challenge Partners.

In accordance with the provisions of Law No. 78-17 of 6 January 1978 on computers, files and freedoms, Participants have the right to access, rectify and remove data concerning them by sending a letter to the address of the ORGANIZER: APSA, IHP 11 rue Pierre and Marie Curie, Paris 75005. The Participants may also, for legitimate reasons, oppose the processing of personal data concerning them within the framework of the competition. The ORGANIZER can not be held responsible for the possible processing of personal data that could be realized by its Partners in the framework of the Challenge, the latter undertaking to respect the provisions of the modified law n ° 78-17 of January 1978 relative to Computer Science, files and freedoms.

Article 14. Assignment of jurisdiction

The present Contest' Rules is exclusively governed by the French law. Any difficulties as for the interpretation and/or application of this regulation will be sovereignly decided by the ORGANIZER in the respect of the French legislation. Any dispute that can not be settled amicably and decided by the ORGANIZER within one year of its occurrence, falls under the jurisdiction of the Tribunal de Grande Instance of Paris.

The rules of the Challenge are deposited in the study:

**SCP PROUST & GOURY-LAFFONT, Associate Bailiffs,
28 Ter rue Guersant, 75017 Paris**

It is sent free of charge to any person by making the written request to the following address:

APSA, Henry Poincaré Institute
11 rue Pierre and Marie Curie, 75005 Paris

The regulations can also be consulted and downloaded from the APSA website www.challengest.apsa.fr

The regulation can be modified at any time by the ORGANIZER in the form of a rider, in the respect of the stated conditions. The addendum will be submitted to the study mentioned above.

This document has been written in English for information purposes and is based on the translation and the interpretation of the original document in French but has no legal value. This document and the French original document can be found at www.challengest.apsa.fr. In the event of any

discrepancy between the two aforementioned versions, only the French version is the one that has legal force and prevail.