IAAS GLOBAL PROJECT REPORT - I

2025

March 2025

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Introduction

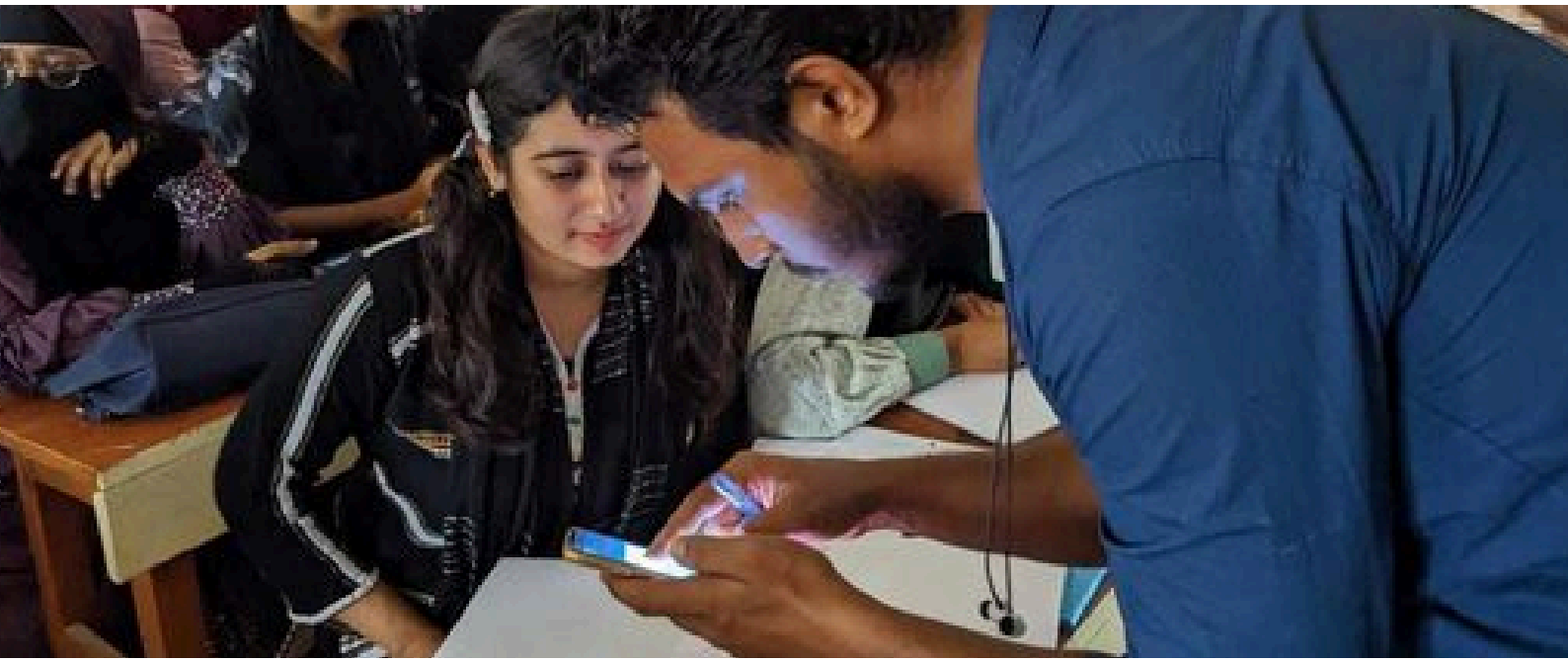
Agriculture remains a cornerstone of global sustenance and economic stability, with its importance underscored by the increasing challenges of food security and sustainable development. The International Association of Students in Agricultural and Related Sciences (IAAS) is dedicated to addressing these critical issues by fostering collaboration, innovation, and education within the agricultural sector. Guided by our vision and mission, we have engaged in a variety of meaningful activities designed to unite people and address
the pressing challenges facing agriculture and its allied fields. This report highlights the successful continuation of our IAAS Global Project, an initiative aimed at promoting sustainable development in agriculture and related sciences. The accomplishments detailed herein were made possible through
the unwavering support and collaboration of numerous individuals and organizations. As we reflect on our collective achievements, we extend our deepest gratitude to everyone involved, and we look forward to continuing our efforts to make a lasting impact in the world of agriculture.

IAAS Global Projects

The IAAS Global Project is an initiative by IAAS designed to unite individuals and organizations globally to foster sustainable development in agriculture and its allied fields. Currently, we have Five Global projects namely Women in Agriculture, No Food Waste, Village Concept Project, One Health, and IAAS Delta Project. These projects leverage international collaboration, integrating diverse expertise and resources to address pressing agricultural challenges and promote innovative solutions. Through structured activities and coordinated efforts among various stakeholders, including educational institutions, non-governmental organizations, and industry partners, the project aims to create impactful change at local, regional, and international levels.

The IAAS Global Project not only exemplifies the organization's commitment to improving agricultural practices but also enhances global connectivity, knowledge exchange, and cultural understanding among participants, driving meaningful progress toward a sustainable agricultural future.

History of IAAS Project



The IAAS Global Project is an initiative by IAAS designed to unite individuals and organizations globally to foster sustainable development in agriculture and its allied fields. Currently, we have Five Global projects namely WIA, NFW, VCP, OH and IDP. These projects leverages international collaboration, integrating diverse expertise and resources to address pressing agricultural challenges and promote innovative solutions. Through structured activities and coordinated efforts among various stakeholders, including educational institutions, non-governmental organizations, and industry partners, the project aims to create impactful change at local, regional, and international levels.

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About Global Project Booklet Booklet

Dear FamilIAAS,
Thank you so much for taking the time to explore the IAAS World 2025 GPC Winners and our currently running projects. We are incredibly proud of each and every one of our members who have turned their local actions into impactful projects.

The 1st Edition of the IAAS Global Project Booklet is now available, showcasing the 2025 Global Project Competition Winners and highlighting the projects from previous years. We are excited to share that the President's team will soon publish the 2nd Edition of this booklet, which will offer a more comprehensive look at all our past projects, including the winners of the upcoming Women in Agriculture X Village Concept Project Competition 2025.

We can't wait to share the success stories of IAAS World Projects with you in the near future!

#GoIAASGoFurther

About Global Project Competition 2025

The IAAS Executive Board and Control Board are excited to announce the launch of the **IAAS Global Projects Competition 2025**. This annual event invites all Local and National Committees to submit their **innovative project ideas** for curbing today's problems in agriculture, food systems and climate change.

We are searching for projects that make a **positive impact** on our world and communities. Participants in this competition gain valuable skills that benefit them as farmers, researchers, and project managers. By developing and executing innovative solutions, these projects contribute to creating a better world through **local actions**, perfectly embodying our motto: **#ThinkGloballyActLocally**.

The competition aims to highlight the best ideas from across the globe, offering **extensive support** for their development. This support may include financial backing, networking opportunities, capacity-building initiatives, start-up pitching assistance, and guidance throughout the project's journey.

We are incredibly grateful to Bayer and EIT Food for their continued support of IAAS World, including in this year's competition. Their partnership helps make these impactful projects possible.

We invite you to join us in celebrating the winners of the IAAS Global Projects Competition 2025 and the contributions they will make to our communities and planet.

International Association of Students in Agricultural and Related Sciences

KNOW THE WINNERS

GPC 2025

IAAS Global Project Competition

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Poreal: Processing Sweet Potatoes into Healthy Biscuits as an Anti-Stunting Additional Food

Prize : 1st Prize
Country : Indonesia
Committee : IAAS Indonesia LC UNS

General Information

Poreal biscuits have the opportunity to be used as additional food for pregnant women and children to prevent stunting. Based on data from the Ministry of Health, the stunting rate in Indonesia in 2023 will be 21.5%. This percentage is still quite large when compared with neighboring countries such as Malaysia, Singapore, Thailand and Vietnam. These biscuits were developed as an additional food rich in nutrients that can help prevent stunting. Poreal biscuits can add value to agricultural products themselves which will bring economic benefits to farmers. Apart from adding value, Poreal biscuits can also empower farmers in Pojok Village. This can be done in the production process to product marketing.

Objectives

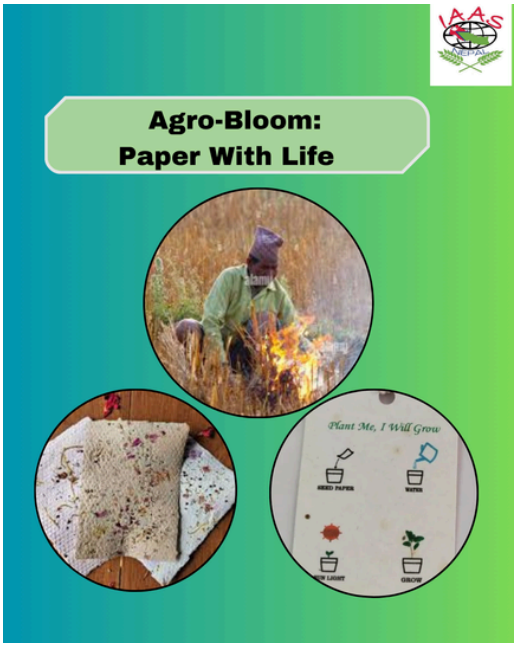
- To educate and increase public awareness regarding stunting.
- To Increase the selling value of sweet potatoes into processed biscuit products.
- To improve the economy of the Pojok Village community.

AGRO-BLOOM: PAPER WITH LIFE

Prize : 2nd Prize
Country : Nepal
Committee : IAAS Nepal FOA Tikapur

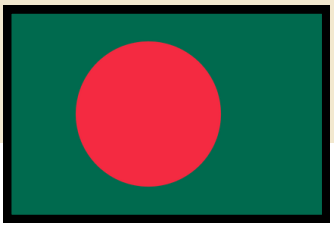
General Information

The seed production project implies sustainability, innovation, and environmental stewardship which aligns IAAS world's objective to empower young agriculturalists to lead and build the future. By converting agricultural residues into biodegradable, plantable seed paper, this project addresses multiple global challenges, including agriculture waste management and suggesting eco- friendly alternatives to Single use plastics. This project is farmer focused providing additional income by utilization of agri- waste, a readily available resource in village areas. Farmers can supply the residues and use seed paper to promote sustainable nursery practices. This concept supports principles of reduce, reuse, and recycle by reusing waste, minimizing pollution, and creating a product that nourishes the environment. This model also provides a replicable model for student led agricultural innovation, ensuring long-term environmental and socio-economic impact.



Objectives

- The main purpose of this project is to produce seed paper from the agricultural residues, thus providing a better financial outcome for the farmers with their grown crop. Its objective is to support local businesses, farmers and artisans and help them generate income improving their livelihood.
- By converting the agricultural residues into biodegradable paper embedded with native seeds, this project seeks to reduce agricultural wastes, promote recycling and greener living practices. The motive of our project is to produce an eco-friendly seed paper that decomposes readily and helps in gardening and sustainable nursery practices supporting pollinators.
- The agricultural residues that would otherwise contribute to environmental pollution are repurposed to produce high value-products. The project aims to demonstrate the potential of the agricultural residues and provide farmers with practical skills in waste management. Its purpose is also to turn farming communities to eco-friendly product hubs, reducing their dependency only on crop sales.



AquaSheild: Nature-based Innovations for Water Crisis Management with *Canna indica*

Prize : 3rd Prize
Country : Bangladesh
Committee : IAAS Bangladesh SAU-Dhaka

General Information

Drought prone delta regions always remain under threat of water scarcity and also industrial area waters are polluted with heavy metal, so in concern of that issue AquaSheild offers an innovative and sustainable solution to mitigate water crisis through the harnessing of *Canna indica*, a water efficient plant with immense potential. This nature based solution express *Canna indicas'* ability to purify waste water, combat soil erosion and enhance ground water recharge. By implementing constructed wetlands featuring this plant, AquaSheild not only provides an effective water saving and purification system but also enhances resilience drought induced water shortages. Its low cost approach makes it ideal for resource limited areas. The adaptability of this project make it a replicable model for addressing global water challenges.

Objectives

- To utilize *Canna indica* for sustainable water crisis solutions
- To Promote Nature-based Solutions
- For Scalable and Replicable Solutions

Eco-fungi: Cultivating Mushroom from Maize Cob Residues

Prize : Equal Merit Prize
Country : Nepal
Committee : IAAS Nepal LC Sindhuli

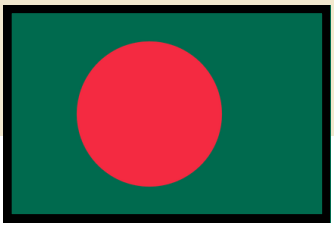
General Information

Eco Fungi transforms maize cob residues into a sustainable substrate for mushroom cultivation, addressing waste management, food security, and rural income generation. By repurposing discarded maize cobs, it promotes a circular economy while reducing environmental harm. Mushrooms, as nutrient-rich, high-value crops, enhance dietary diversity and provide a sustainable food source.

This low-cost, land-efficient model benefits smallholder farmers, fostering rural entrepreneurship and empowering marginalized communities, particularly women and youth. Scalable and replicable, Eco Fungi aligns with IAAS World's mission to drive agricultural innovation, sustainability, and community development globally.

Objectives

- Waste Utilization: To effectively utilize maize cob residues, which are often discarded, by transforming them into a valuable substrate for mushroom cultivation.
- Sustainable Farming: To promote sustainable agricultural practices by reducing waste and providing an eco-friendly alternative to synthetic substrates commonly used in mushroom farming.
- Economic and nutritional value: To create new economic opportunities for farmers by introducing an additional revenue stream through the cultivation of mushrooms, which is valued high as a nutritional food .



PROJECT NOYAGRAM : Empowering Women of the Southern Delta through Sustainable Agriculture and Climate Resilience for Food Security

Prize : Equal Merit Prize
Country : Bangladesh
Committee : IAAS Bangladesh PSTU

General Information

Project Noyagram focuses on empowering women in Bangladesh's southern delta through sustainable agricultural practices, addressing socio-cultural barriers that limit their participation in agriculture. While demonstration and training programs are common in rural development, this project takes a unique approach by considering the delta's distinct agro-climatic conditions.This pilot project aims to create a model community for sustainable coastal development.Ultimately, Project Noyagram seeks to transform both the lives of women in the coastal delta and the future capabilities of students striving for large-scale agricultural improvements.

Objectives

- To equip women in Bangladesh's southern delta with knowledge and skills in sustainable agriculture.
- To introduce and promote agricultural techniques that adapt to climate challenges.
- To provide hands-on training and demonstrations to enhance practical knowledge.

Co-Cassle : Utilizing Corn Cob Flour and Mocaf in Cookie Production to Minimize Food Waste and Reduce Caloric Intake

Prize : Equal Merit Prize
Country : Indonesia
Committee : IAAS Indonesia LC UGM

General Information

This project focuses on product innovation by utilizing local resources, specifically mocaf (Modified Cassava Flour) and corn cobs, to create gluten-free, fiber-rich cookies. By incorporating corn cobs, which are typically discarded, the project adds value to agricultural byproducts.Additionally, the initiative aims to support the local community in Bantul by providing economic opportunities for cassava and corn farmers. By creating a stable market for their produce and finding new uses for agricultural waste, the project contributes to increased income and resource optimization.Sustainability is a key aspect of this project, as it promotes waste reduction and supports the ecosystem.

Objectives

- Diversification of Women's income sources in Bojong Village through business group empowerment programs.
- Utilization of corn cob by-product in order to achieve less waste.
- A simple food solution that can fulfil energy needs.

The Ecorrior: Enhancing Agricultural Value through Organic Waste-to-Fertiliser with Natural Pest-Repell Extracted from Leaves of Papaya and Mimosa Pudica at VCP Cinangka

Prize : Equal Merit Prize
Country : Indonesia
Committee : IAAS Indonesia LC IPB

General Information

The Ecorrior project focuses on transforming household organic waste into a nutrient-rich liquid organic fertilizer that enhances soil and plant fertility. By utilizing easily available raw materials, this project ensures low production costs while creating a product with high economic value. The target market includes farmers, local communities, and environmental enthusiasts.Ecorrior aims to positively impact local societies, promote sustainable agriculture and food production, facilitate knowledge exchange, and encourage collaboration among agricultural science students. Additionally, the fertilizer is enriched with papaya leaf extract and mimosa pudica weed, which act as natural pest repellents.

Objectives

- To increase the agricultural productivity of VCP Cinangka.
- To reduce household and agricultural organic waste
- To empower Karang Taruna/PKK/PKWT Cinangka Village in the production of Liquid Organic Fertilizer to create an environmentally friendly village.

International Association of Students in Agricultural and Related Sciences

OTHER ONGOING PROJECTS

IAAS Global Projects 2025

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Sweet Solution; IAAS Initiatives in empowering Women for sustainable Agriculture with Chemical Free Cane Peat

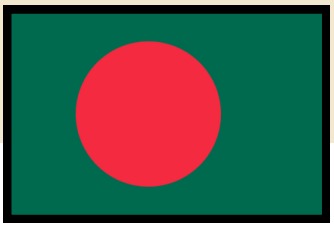
Prize : EBCB Choice award in Women in Agriculture Project Competition organized by IAAS World
Country : Nepal
Committee : IAAS Nepal LC FoA Tikapur

General Information

In Tikapur, following the processing of Sugarcane juice, sugarcane bagasse is burned in which has a number of detrimental consequences on the environment. Aerosols and dangerous trace gases, like carbon dioxide (CO2), sulfur dioxide (SO2), and black carbon (BC), are released into the atmosphere as a result. Burning sugarcane residues also aggravates asthma, pollutes the environment, and destroys biodiversity. It also affects human health, causing respiratory conditions including wheezing and coughing.our goal is to start the Climate Smart Women Engaging Project so that women may actively participate in climate activism.

Objectives

- To Empower Women Economically and Socially by engaging them in action against climate change.
- To focus on bulk production of chemical free growing media (Cane Peat) to encourage Chemical Free Farming.
- To reduce the climatic effect cause due to burning of Sugarcane Baggage which is the byproduct of sugarcane.



Alternative uses of problem soils and eco-friendly prevention of fruit fly insect in Gourds

Prize : Equal merit prize of GPC 2024
Country : Bangladesh
Committee : IAAS Bangladesh KAU

General Information

Our project mainly targets the utilization of 241.4 ha of saline and 6.80 lakh ha of haor lands which are being less valued or not properly utilized due to various problems. This leads to farmers poor condition, national nutrition or scarcity of quality food.

Our ‘’Tridhora” structure will support us to the framework for using the land and “Vegitables bagging of Gourds by Sonali bagging” will provide totally new sustainable control of most common Cucurbetacea vegetables which have high nutritional value and acceptance over the country.

Objectives

- Fight with problem soils specially salinity
- Increase production in flood affected areas.
- To improve the economic conditions of farmers by increasing the value and productivity of these lands, thereby enhancing national nutrition and reducing the scarcity of quality food.

MagGrow: Feed Innovation Based on the Use of BSF Maggots to Optimize Fisheries Sector Productivity and Improve Community Welfare in VCP Jabal Rahmah

Prize : GPC 2024 1st Prize
Country : Indonesia
Committee : IAAS LC IPB

General Information

VCP Jabal Rahmah, located in Tapos 1 Village, Bogor Regency, West Java Province, is a mountainous village with significant potential to become self-sufficient. However, the fisheries sector in this village still requires serious attention. Interviews with local fish farmer groups revealed that most of them face difficulties in purchasing fish feed, both in terms of price and availability in the local market, resulting in low productivity and poor fish farming quality.To address this challenge, we are planning a project to introduce Black Soldier Fly (BSF) maggot cultivation to the residents, particularly fish farmers. This project includes building maggot houses and providing training on how to cultivate and process maggots, which are rich in protein and can serve as an easy-to-cultivate alternative to conventional feed

Objectives

- Maggot farmers require intensive habituation since maggot farming is a new practice for them.
- The members' busy schedules and the considerable distance to the location make on-site supervision challenging.

Sow and Grow

Country : Nepal
Committee : LC Paklihawa

General Information

To empower women and bring about a positive change in agricultural livelihood, we introduce this project revolving around providing comprehensive training to women involved in agriculture and animal rearing for the purpose of uplifting their economic status.

This project is concerned with nearby village areas solely focusing on women empowerment. We are going to conduct training programs on agriculture by introducing women to better farming techniques, providing knowledge on improving a variety of crops and introducing them to crops with a better productivity rate according to land areas.

Objectives

Empower women in agriculture and enhance their livelihoods through comprehensive training.

Ishwor Shrestha

Country : Nepal
Committee : IAAS Nepal

General Information

The project Trash to Treasure is based on the utilization of wasted agricultural residue particularly rice straw and maize husk to create different useful crafts including mat, baskets and decorative items. We intend to revive the crafting technique to solve the issues of agricultural wastage, plastic and air pollution and poverty collectively. Providing the farmers with financial and technical assistance initially, in the long run we aim to establish self-sustaining independent local business of farmers producing such items at commercial scale generating income .

Objectives

Waste Reduction by transforming agricultural residues like maize husk and rice straw into valuable products.
Environmental Sustainability by Minimising plastic pollution and air pollution by replacing plastic-based items with eco-friendly handicrafts.
Economic Empowerment by Providing farmers and local communities with income-generating opportunities through crafting.
Revive traditional crafting techniques and train locals, especially women, in sustainable handicraft-making.

Agronom za 5

Country : Croatia
Committee : IAAS Croatia

General Information

The 'Agronom za 5' project will involve approximately 50 selected third- and fourth-year students from the Agricultural, Veterinary, and Food Technology High Schools of Zagreb during the 2024/25 academic year. The project will take place in April 2025, through five working sessions, scheduled flexibly to accommodate the commitments of students, faculty, and professors. The project will officially be opened with a welcome speech by the Dean of the Faculty of Agriculture. Students will then be introduced to the work of IAAS Croatia, which will present the Faculty's activities through engaging and educational programs.

Objectives

The primary goal of the 'Agronom za 5' project is to promote the field of agronomy through collaboration with related educational institutions, including the Faculty of Agriculture and the Agricultural, Veterinary, and Food Technology School of Zagreb. The project aims to guide young agronomists, future experts, towards academic growth and development within the profession.

he involvement of students from the Agricultural, Veterinary, and Food Technology School of Zagreb is intended to familiarize them with the academic community and the Faculty of Agriculture, providing them with additional motivation to continue their education in this field. The project also seeks to attract top-performing students to enroll at the Faculty of Agriculture in Zagreb. By showcasing study programs, the project aims to help future students make informed decisions about their desired area of study.

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