

The Team

The team was established with the objective of developing a sustainable addresses solution that pressing challenges and encourages others to generate innovative ideas for the improvement of both the community and the nation. What started as a collective of dedicated agriculture students evolved into a mission-driven initiative. United by a common goal, they approached the issue of organic waste with a creative and sustainable solution, transforming a challenge into an opportunity for positive change. This project not only solved a critical environmental challenge but also redefined their paths in life, proving that even small steps can lead to a profound impact on society and the environment.



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PROBLEM IDENTIFIED

The Philippines generates about

21 Million Mt of waste annually.

57% of this total is organic waste.

Source: Philippine Statistics Authority 2024

GUARANTEED
ANALYSIS

PORTION SIZE 1000 grams

AMOUNT PER PORTION
Metabolizable Energy
Crude Protein 19.00%
Crude Fiber 2.81%

Calcium 0.84%
Available Phosphorus 0.42%
Lysine 1.19%
Methionine 0.48%
Methionine + Cysteine 1.99%
Threonine 0.78%
Tryptophan 0.24%

INSECT NUTRITION FOR ENVIRONMENTAL EXCELLENCE AND DEVELOPMENT

Local farmers, residents and the Local Government Unit of Claveria, Misamis Oriental are trying to maintain clean and healthy public spaces but encounter difficulties managing the accumulation of organic waste. This has resulted in a significant environmental pollution, public health concerns, and missed economic opportunities, causing frustration and worries among the affected group.

A revolutionizing animal feed by using Black Soldier Fly (BSF) larvae to create sustainable, protein-rich poultry feed. This innovative solution transforms organic waste into nutrient-dense feed, addressing environmental concerns tied to traditional sources like soybeans and fishmeal.

Project Goals

INCREASE

our capacity to recycle 500 tons of organic waste into highprotein poultry feed annually through a fully operational circular economy.

ACHIEVE

a 25% annual return on investment (ROI) by optimizing production and expanding market reach.

PROVIDE

employment for at least 50 individuals directly and impact 100 more indirectly, while reducing local waste by 30% to contribute to environmental preservation and community well-being.



Team Experience and Achievements

- Participated in the Circular Cities Asia incubation program.
- Participated in various competitions that enhanced business acumen.
- Graduated from the CET Student Incubation program Sparks Up 2024, honing entrepreneurial skills.
- Made connections with other experts and farms

Current Focus and Assignments

- Research and Enhanced Development of the product
- Refining essential business documents, including the Business Plan, Work Plan, and Circular Design for sustainable practices.

Incubation Funding



With the funding support from Circular Cities Asia and The Regional Project Energy Security and Climate Change Asia-Pacific (RECAP) of the Konrad-Adenauer-Stiftung, we have made significant strides in advancing the INEED project. So far, we have successfully established a dedicated **rearing unit** to house our Black Soldier Fly larvae, purchased a **pelletizer machine** to enhance feed production efficiency, and acquired **essential materials** to optimize the functionality of the rearing facility. Additionally, we have developed a promising **feed prototype** that aligns with our mission of creating sustainable, nutritious, and cost-effective animal feed. These achievements mark a pivotal step in our journey toward addressing organic waste management and supporting agricultural sustainability.



Established Rearing Unit

Bought Pelletizer Machine





Lessons Learnt



Lessons Learned:

We realized that building a start-up is far more challenging than it seems, requiring meticulous planning, adaptability, and a commitment to quality. The project taught us the value of teamwork, resilience, and understanding community needs.

Challenges Faced:

We encountered logistical difficulties in setting up the rearing unit, ensuring product consistency, and educating stakeholders about our solution. These challenges required flexibility and problem-solving.

Key Learnings:

Feedback from mentors and stakeholders and participating in incubations and competitions helped us refine our product and processes.

Skills Gained:

We developed technical machinery and BSF-rearing expertise, enhanced project management and problem-solving abilities, and strengthened communication and advocacy skills.

Stories

Participating in the Circular Enterprise Programme was a transformative experience. It provided us with the tools and knowledge to align our project with circular economy principles, emphasizing sustainability at every stage. The mentorship sessions were especially valuable, offering insights that helped us refine our business model and strengthen our impact. The mentor's encouragement has been a driving force for us, reminding us of our potential and the importance of perseverance as we continue working toward a more sustainable future.

Working on this project deepened our understanding of how innovation can address environmental challenges while creating value for the community. Transforming organic waste into a sustainable resource was both rewarding and eye-opening, reaffirming the potential of circular economy solutions to drive meaningful change.

Next Steps

