View in browser





# The SWIFT Team

Team members of SWIFT include Makere University (Uganda), Bioconvision (Uganda), Mzuzu University (Malawi), Soil Food Healthy Communities (Malawi), Eclose (Switzerland) and Eawag (Switzerland).



## **Faces of SWIFT**



#### Isaac Rubugumya

PhD student: Makerere University, Uganda

Isaac Rubagumya holds an MSc in Agricultural and Biosystems Engineering from Makerere University. Currently pursuing his PhD at Makerere, he is part of the SWIFT project where he works with black soldier flies (BSF), investigating the potential of the residue as a fertilizer to replace or substitute chemical fertilizers. To connect with Isaac on linkedin click the link on the photo.



#### **Rowland Watipaso Mhone**

Project Manager: Soil Food and Healthy Communities (SFHC), Malawi

Rowland holds a Diploma in Agriculture from Mwimba College. He is part of the SWIFT project where he leads the BSF facility at SFHC and trains outgrower farmers on a more simplifed approach. To connect with Rowland on linkedin click the link on the photo.

# Latest news

New!

BSFL Substrate Navigator				
RAW PERFORMANCE VALUES		OVERALL PERFORMANCE NUTRIENT VALUES		
× Cow manure × Faecal sludge × Vegetable and	fruits × Chicken manure × Food waste			× -
Cow manure	Faecal sludge	Vegetable and fruits	Chicken manure	Food waste
$\left( \bullet \right)$				
Low	Low	Medium	Medium	High

## Try the BSFL Substrate Navigator

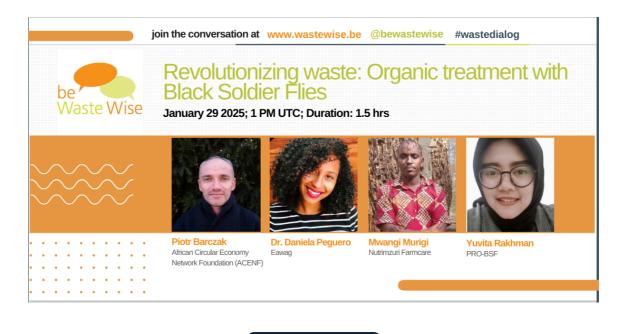
The BSFL Substrate Navigator is an interactive tool designed to help users identify organic waste substrates for the cultivation of black soldier fly larvae (BSFL). If you are interested and want to know how well BSFL grow on your substrate, check out the tool using the button below.

#### Try the tool!

## Unlock insights into the tool! Learn about:

- 1. **Overall Performance Score:** Explore overall larval performance on various substrates (e.g., manure, food waste) based on average mean of indicators like larval weight, bioconversion rate, waste reduction, and survival rate.
- 2. **Raw Performance Values:** Analyze specific larval performance indicators on substrates, compare multiple substrates, and gain insights into variability, mean, median, and study by clicking on the bars.
- 3. **Nutrient Values:** Assess substrate nutrient composition, including protein, fat, carbohydrates, fiber, and moisture content.
- 4. **Menu Button:** Access statistical analysis details, contact info, and citation recommendations via the top-right menu button.

# **Upcoming Webinar !**





Join us **Jan 29 @ 14:00 CET** for an engaging webinar with our very own SWIFT team member, Daniela Peguero, as we explore the pivotal role of BSF in managing organic waste in advancing the circular economy by turning organic waste into valuable resources. Piotr Barczak, Circular Economy Program Manager at ACEN Foundation, explores the BSF role in waste management with researchers and practitioners.

# Discover Our Work in Malawi

## **SWIFT Midterm Workshop Event**

In Nov 2024, partners from Uganda, Malawi, and Switzerland came together in Mzuzu, Malawi, for a midterm meeting workshop to share and discuss the progress and findings since the project's inception. We met with local authorities from Mzuzu and smallholder farmers to discuss how BSF can be used to manage waste and create livelihood. Learn more below about some of the activities we did.





#### Visiting Dzaleka Refugee camp

camp, supported by UNHCR, we explored the use of Black Soldier Fly Larvae (BSFL) as an innovative approach to managing and treating the organic waste generated within the camp.



#### **Meeting Outgrowers**

During our visit to the Dzaleka refugee As part of SWIFT, we are currently working with nine smallholder farmers in Malawi who have livestock and training them on BSF. Our outgrower farmers have expressed interest in establishing their own reproduction unit and have successfully constructed their initial housing for the flies with one net full of flies. This initiative will soon expand to include five nets as part of our new method known as SIMBA. More on the SIMBA approach will come in a later newsletter.



#### Training students at Mzuzu University

Here you can see Gift Chawanda, a team member of SWIFT, educating students from the Agri-Science department at Mzuzu University about black soldier fly, and demonstrating its processes and benefits. He provides insights into its ability to transform waste into nutrient-rich larvae, high in protein and fat, suitable for livestock feed. The larvae in this case are grown using food waste from the university canteen.



#### **News Feature!**

We're thrilled to share that our amazing SWIFT team member, Dr. Frank Mnthambala from Mzuzu University, was featured in the local newspaper! He attended the agricultural trade fair held in Blantyre to present BSF and even had the honor of showcasing BSF to the President of Malawi.

# Explore Our Work in Uganda

## **Meet Bioconvision**



Discover our BSF facility, Bioconvision, located in Jinja, Uganda. We're transforming 1 ton of organic waste daily and are on track to scale up to an impressive 10-15 tons per day by 2025. Join us on this exciting journey towards a sustainable future! Click on the icon to see the video.



# Maize trials with BSFL residue

Isaac is leading exciting maize trials located at the Makerere University Agricultural Research Institue Kabanyolo in Gayaza. He's exploring the impact of BSFL residue versus chemical fertilizers and the combination of chemical mixed with BSFL residue at different application rates. Here, you can see him in action, measuring the plant's height BSFL residue from using the Bioconvision. Further findings to come!

In every piece of waste lies an opportunity to create something valuable.



"

-Anonymous

If you would like to **unsubscribe** please click the button below or send an email to daniela.peguero@eawag.ch. If you have time feel free to fill out this 1-min survey for feedback on the newsletter: https://forms.gle/qoCU3xWeQ9mKWa176.



Solution-oriented Research for Development Programme

The overarching goal of the SOR4D programme is to produce better knowledge, solutions and innovation by needs-driven, transdisciplinary research that opens up new ways for advancing sustainable development and reducing poverty in the least developed, low and lower middle-income countries. www.sor4d.ch



Swiss National Science Foundation

#### Eawag

Ueberlandstrasse 133, 8600, Duebendorf daniela.peguero@eawag.ch <u>Privacy</u> Imprint Unsubscribe