

Place: Ramada Hotel, Dar es Salaam

## Introduction

- Uyogaplus(meaning mushroomplus), is a cooperative enterprise of mushroom growers in Dar es salaam, Tanzania.
- Uyogaplus was founded in 2021 by five graduates (put their photos)
- Currently the cooperative has already trained more than one hundred trainees and 35 of them are now growing mushroom under the uyogaplus cooperative.

(If you have photo on those producing mushrooms put them here)

### Please try to answer the following questions

- How did you start? Show the evolution from poor working structures to those you have today
- Tell us about the market potential (where do you sell the products)
- Where do you buy or get the substrates (are they obtained for free or on sell?)
- How the society perceive mushroom production? Positive or negative
- How do you recommend youth and women on mushroom industry?

# Uyogaplus Mushroom Houses.





# Our Key Activity



#### To give training on mushroom production.

Production of both edible and medicinal mushroom.

- Mushroom processing.
- Mushroom marketing, and branding.
- Mushroom spawns production.
- Research and Development on domestication of wild mushroom varities.

# Our Targets.

- To produce one ton of fresh oyster mushroom per day and one ton of medicinal mushroom(Ganoderma lucidum) per month.
- To train 100 trainees per month.
- To lower mushroom price from Tsh10,000 per kg to Tsh6000 per kg below the price of red meat, so that it can be affordable to many Tanzanians this is to be done by adopting to new and cheaper methods of cultivating mushroom may be using the juncao technology (Is this price higher compare to other producers?)
- To establish uyogaplus laboratory for mushroom spawns production.
- To establish a so called Uyogaplus collection center of mushrooms from different mushroom growers.
- To establish uyogaplus restaurants with mushroom meals, this is to emphasize more on the use of mushroom as food.
- Processing mushrooms to add value and storability

## The production cycle batch one.

- Substarates used
- Sawdust70%
- Banana leaves 26%
- Sugar 1%
- Maize bran1%
- Gypsum 1%
- Chicken manure 1%

Date of inocul ation	No. Mushr oom bags	minate	Amou nt produc ed	Biuolo gical yield
			<b>CG</b>	

## Constraints and solution.

constraints

Low yield

Contamination

#### • Substrates

#### solution

 Uyogaplus is adopting to simple homemade humidifier technology, to enhance humid condition in mushroom houses especially during the summer season, which is hot in Dar es salaam.

 Increasing the time for pasteurization from six hours to eight

 On regard to substrates used, uyogaplus is adopting to a new technology of using elephant grasses to grow mushroom, this seems to be cheaper as less supplementation is required when using grasses than using sawdust, thus less susceptible to contaminants.



### Juncao Technology

Benefits of using grasses in mushroom production

- Few hours of pasteurization hence less expensive
- Less supplementation less susceptibility to contaminations
- Ease substarates preparation process as it does not require composting.
- Raw materials in bio gas production.



Fig 1. Juncao grass from the nursery at Uyogaplus farm. Planted on.....

## Bio-gas Plant.

The use of elephant grasses to produce bio gas, is important torward minimizing cost in pasteurization of mushroom bags using the biogas.

Fig2. Gas Pasteurizing system at Uyogaplus farm.



### Microbiology Laboratory

Lack of reliable source of different varieties of mushroom spawn is the other major factor drawingback mushroom production in Tanzania.

The laboratory will enhance

- Good Supply of quality spawns of different mushroom varieties to farmers.
- Reasearch and development in domestication of wild mushroom

Fig 3 Production of spawns by Uyogaplus Expert at University of Dar es Salaam.



### Storage, processing, and transport facilities.

Uyogaplus has acquired a solar drier which is used in drying of fresh mushroom

Uyogaplus lacks.

- Mushroom collection center with storage facilities
- Refregirated vehicle to delver fresh mushroom
- Chopping machine.



Fig4 Solar drier at Uyogaplus farm.

# END "BE THE **CHANGE THAT** YOU WISH TO **SEE IN THE** WORLD"

– Mahatma gandhi.

