APPLICATION OF JUNCAO TECHNOLOGY IN PAPUA NEW GUINEA EASTERN HIGHLANDS PROVINCE

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Juncao Technology is a very simple technology that is easily accepted and adapted by the local communities.

In PNG, it is a cottage industry that is done within the vicinity of their home.
1. Juncao Grass Planting

The highest annual yield of fresh Giant Juncao grass reaches 853 tons/hectare.
2. Mushroom Production

- Milling
- Packaging
- Inoculation
- Incubation
- Trench cultivation
- Fruiting
2. Mushroom Production

$10m^2$ mushroom trench

$= 300\text{kg}$ fresh mushroom * 4 seasons

$= 1,200\text{kg}$ fresh mushroom per year

Fresh mushroom sold at $15-60$ Kina/kg

Income: $18,000-72,000$ Kina a year
3. **Livestock Farming**

- **Grass Planting:** 2000 m²
  - **Cut & Carry:** ≈4 cattle/40 goats
    - **Supplementary Irrigation**
      - Income: 24,000-32,000 Kina/20,000-28,000 Kina
  - **Rotation Grazing:** ≈1 cattle/12 goats
    - **Fertilizer: per harvest**
      - Income: 6,000-8,000 Kina/6,000-8,400 Kina
    - **Fence**
Cut & Carry

Rotation Grazing
4. Juncao For All

- Family unit
- Women & youth
- People living with disability
5. Community Achievements

- Formation of 2 cooperatives & 4 associations comprising of more than 10 villages with population of 2,500 people.

- Healthy community with healthy nutritious diet, malnutrition level from dropped from 70% - 55%.

- Community being economically independent (income at K10,000 - & K72, 000 per annum)
6. Individual Achievements

Women farmers: Korarome Freda and Patricia Vira

Since 2020, I’ve started it.

I’ve made 72,000 Kina

I have a car. My house is built.

I’ve bought a house.
7. Extension Model

Demonstration Base + Flagship Sites (Farmers’ Association/ Cooperatives) + Individual Farmers

Easy to Learn, Easy to Practice, Easy to Succeed
Thank you!