The Koronivia Story in Fiji

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Fiji on the map
Koronivia in Fiji
Koronivia meaning

“Koro” – village, community, group

“ni” – the

“Via” – esculentum
  - root crop
  - saline tolerant
  - resilient
Koronivia Research Station

- the HQ for crops and livestock research
- a division of the Ministry of Agriculture (MoA)
- sections include dairy, pig, pasture, feed technology, crops agronomy, crop protection and agricultural chemistry
Overview of MoA

MoA, Fiji has a national responsibility for ensuring sustainable agriculture transformation in the face of changing climate.

The work is intended to lead to:

- Product diversification (competitive advantage);
- Private Sector Development;
- Import reduction & Export promotion
- Food and Nutrition Security;
- Poverty reduction and Socio-economic issues
- Climate adaptation and resiliency
VISION
A modernized agriculture sector providing food and income security for all Fijians.

MISSION
To excel in the provision of customer-focused and market-driven services in the agricultural sector.
FIVE AGRICULTURE DEVELOPMENT OBJECTIVES

MODERNIZE AGRICULTURE
Organized System-Production, Processing & Marketing

DEVELOP SYSTEM INTEGRATION
For Production, Processing, Energy & Transport Infrastructure Support System for Agriculture

SECURING INVESTMENT
Enhance capabilities to generate fund & securing investment through foreign investment, private public partnership

IMPROVE PROJECT IMPLEMENTATION & POLICY FORMULATION CAPABILITY
Within the ministry & its partner institutions

IMPROVE SERVICE DELIVERY
Improve Delivery of Agriculture Support Service
MoA Expenditure are driven towards the following output:

Maintaining Food Security through the provision of extension and research services both for livestock and crops.

Quick Economic Recovery through the Implementation of Demand Driven Approach (DDA) and other Commodities.

Assist in Poverty Alleviation by building capacity for farmers to increase production.
ROI communities to meet their basic needs, improve living standards through agriculture development.

Achievement of gender equality and empowerment of women through full participation in agriculture development.

Portfolio Leadership, Policy Advice and Secretariat Support
CURRENT SITUATION OF AGRICULTURE SECTOR IN FIJI

28% of Population live in Poverty *(Source: HIES)*

36% of this Poverty Population live in rural areas *(Source: HIES)*

66% of Rural Population are engaged in Subsistence/Semi-Subsistence Agriculture *(Source: FBoS)*

Contributed **8.3% (FJD $541.8m)** to the National GDP in 2015 *(Source: FBoS Macro Table)*
1) Fiji Agriculture Partnership Projects (FAPP) co-funded by IFAD

**Objective** - Reduce hardship in remote rural communities.

**Outcome** - Increased and more sustainable incomes; increased volume of sales; increased export earnings; savings from import substitution

**Project Location** - 7 districts, 41 villages, 2000 households
2. Sustainable Rural Livelihoods (SRL) - 100% grant by EU – (EDF 11)

**Objective** - To achieve rural development through an effective transition to a sustainable and diversified agriculture sector

**Outcome** - Diversified market driven and environmentally friendly agricultural production.

**Project Location** – sugarcane belt areas

3. Food and nutrition security Impact, Resilience, Sustainability, Transformation (FIRST) – EU/FAO – Regional Pipeline Project: Solomon Islands, Vanuatu, Fiji
Challenges / Opportunities for AgSol in Fiji

- Market access.
- Pest & Diseases
- High cost of agro inputs (fertilizer, chemicals)
- Land management (SLM, LDN)
- Livestock management (improved breeds & feed)
- Poor Infrastructure including storage/packaging
- Urbanization (youth, labor problem - use of chemicals)
- Agriculture financing (banks, government, policy)
Agricultural land use impact
raindrop impact damage

dense crops

energy = \( m \times v \times v \)
1mm = 15 km/h
5mm = 32 km/h
= 500 times worse

soil cover

fertilise

sheet wash

water is 800 times heavier than air!
# Soil Loss

<table>
<thead>
<tr>
<th>Watershed</th>
<th>Soil loss (tons/ha/year)</th>
<th>Total loss (million tons/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rewa</td>
<td>32.2</td>
<td>9.3</td>
</tr>
<tr>
<td>Ba</td>
<td>69.0</td>
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<td>Sigatoka</td>
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<td>1.1</td>
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<tr>
<td>Nadi</td>
<td>81.4</td>
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</tbody>
</table>
Impact of Flood Sedimentation & Unsustainable Fishing

Healthy corals

Dead corals
Waciwaci Village, Lakeba, Lau, Fiji

- Coastal erosion
- Salt water intrusion
- Village will be relocated
- Funding required
- Food security issues
- Mangroves forest establishment
FUTURE POTENTIAL AREAS OF WORK

• Human capacity development - Technical assistance, knowledge exchange, Staff Training
• Technology needs assessment for climate change adaptation and mitigation in agriculture
• Funding for relocation of communities, adaptation programs and mitigation to some extent