Enhancing community resilience to the adverse effect of climate change

School of Natural Resources Consultation Tour

Choiseul Province

16th – 21st November, 2011
Purpose

• to collect and analyze community data on food processing and preservation methods

• identify any existing indigenous integrated farming systems
Objectives

• Identify food processing and preservation methods;
• Identify indigenous technologies used in food processing and preservations;
• Evaluate the main cropping systems;
• Evaluate indigenous food reserve systems;
• Identify any indigenous integrated farming system; and
• Make general observations and general conclusions
South Choiseul
Methodology

• Use of questionnaire
• Group discussion
• Site visits
Findings

• **Demographic status**
  • The average size of households is 5
  • average age range of adults is between 40-47 years old and the youngest is between 1 and 2 years old
  • Sex ratio between male and female is 2.7:2.6 respectively.
  • The level of literacy is high.
ECE class at Saqigae Community
Housing and Facilities

Types of Houses

- Local Materials: 30%
- Semi-permanent House: 17%
- Permanent House: 53%

Majority of coastal communities owned permanent and semi permanent houses compared to in land regions where most of the houses are made of local materials.

Source of Drinking Water

- 45% uses stand pipes
- 45% use water tanks
- 8% use the river or stream
- 2% use wells
Housing and Facilities

**Toilet Facilities**
- 70% have no proper toilet
- 15% use flash toilets
- 15% use pit latrines

**Source of Lighting**
- 60% use kerosene
- 30% use solar
- 10% use generator and battery

**Fuel for Cooking**
- 95% use wood fuel
- 5% use gas or kerosene.
## Section 4 - Inputs to Livelihood

**A.** What are your household’s main livelihood activities throughout the year? (Use activity code, up to four activities)  
**B.** In which months do you do these activities?  
**C.** Who participates in this activity? (Use member code)  
**D.** What proportion of this activity do you directly consume (food)?  
**E.** Estimate the total cash value earned from this activity over the last year.  
Use the cash code below.  

<table>
<thead>
<tr>
<th>Activity</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production Agriculture</td>
<td>1</td>
<td>PRODUCTION AGRICULTURE</td>
</tr>
<tr>
<td>Production Fisheries</td>
<td>2</td>
<td>PRODUCTION FISHERIES</td>
</tr>
<tr>
<td>Marketing</td>
<td>3</td>
<td>MARKETING</td>
</tr>
<tr>
<td>Copra</td>
<td>4</td>
<td>COPRA</td>
</tr>
<tr>
<td>Cocoa</td>
<td>5</td>
<td>COCOA</td>
</tr>
<tr>
<td>Betel Nut</td>
<td>6</td>
<td>BETEL NUT</td>
</tr>
<tr>
<td>Beach Der Mer</td>
<td>7</td>
<td>BEACH DER MER</td>
</tr>
<tr>
<td>Trochus</td>
<td>8</td>
<td>TROCHUS</td>
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<tr>
<td>Fish</td>
<td>9</td>
<td>FISH</td>
</tr>
<tr>
<td>Shell Money</td>
<td>10</td>
<td>SHELL MONEY</td>
</tr>
<tr>
<td>Lime (Betel Nut)</td>
<td>11</td>
<td>LIME (BETEL NUT)</td>
</tr>
<tr>
<td>Honey</td>
<td>12</td>
<td>HONEY</td>
</tr>
<tr>
<td>Others/Specify</td>
<td>13</td>
<td>OTHERS/ SPECIFY</td>
</tr>
</tbody>
</table>

Four main livelihood activities

- Agriculture Production
- Fishing
- Marketing
- Copra
Main Contributor to HH’s Livelihood

Copa
Teaching
Baking
Sawmilling
Inputs to Livelihood

• Rest of the household participate in the activities
• Women in general did most of the work
• 50% of the HH’s produce or earnings are consumed, produce from the gardens are mainly for own consumption.
• Earnings from HH’s activities ranges from $50 to $5,000 or more.
Migration and Remittances

- Not common
- Remittances may occur once or twice a year
- HH’s are more independent and become self-reliant

Sources of Credit
- None

A young widow at Rarakisi Community supporting her children at school is dependent on her garden as means of feeding her family and meeting her children’s school fees.
Agriculture Production

A typical village garden with mixed crops of potato, cassava, yam, cabbage, taro, banana, beetle nut: photo Jules

Mixed cropping method
Tribal land ownership
Expenditure

Expenditures for the past 6 months
Food Sources and Consumptions

7 Days Food Consumption Patterns

[Bar chart showing the number of times each food item was consumed over 7 days.]

- Food Items
  - Potato, Cassava, Giant Taro, Banana, Rice, Fish, Meat, Poultry, Tea, Noodles, Sugar, other items.
Food Sources and Consumptions

Times when HH did not have enough food or money to buy food

- Rely on less expensive food: 26%
- Borrow food or rely on relatives: 18%
- Limit portion size at meal times: 17%
- Restrict adult consumption to allow children to eat: 26%
- Reduce number of meals eaten in a day: 9%
- Other - diet restriction: 4%
Shock and Food Security

- Two main shocks are:
  - Irregular rain patterns, and
  - Flooding
- Occur between Jan-Mar and June – Aug
- Effects on food is minimal
- Perception of irregular rain is wet and dry weather experienced in one day
Food Preparation and Preservation

- Food is cooked over open fire
- Food prepared using “Motu” helps to preserve food for 3 – 4 days with continuous heating over open fire
- Ngali nut prepared using “motu” can preserve it for a very long period
Recommendations

• integrated farming system: two wards in Choiseul Province could be a potential site; Taro at Batava Ward and Sasamungga at Babatana Ward.
Supizae fish pond
Recommendations

- food banks:
  - Choiseul Bay Secondary School at Batava Ward,
  - Voza for Tepazaka Ward,
  - Sasamungga for Babatana Ward and
  - Papara for Viviru Ward.
- KGA farmer networking need to be reactivated in these communities to help sustain the food banks.
Recommendations

• **food processing**: it is suggested that women in the following communities will be selected to train and operate the food processing machines: *Nukiki* for Batava Ward, *Voza* for Tepazaka Ward, *Sepa* for Babatana Ward and *Rarakisi* for Viviru Ward.

• **simple wood stove**: the project need to design and develop a simple but efficient stove that uses less fuel wood and cook food faster. The SNR and the School of Industrial Development (SID) at SICHE may collaborate on this.
Recommendations

- questionnaires:
  - it would be useful that one of the output/outcome is a questionnaire.
  - the current questionnaire used by SNR need to be improved and begs input from other project partners.
The end

• Thank you partners