Overview of the country - Bhutan

- Location: Between India & China
- Land size: 38,394 km²
- Population: 735,553
- Literacy Rate: 71.4%
- GDP growth rate: 7.99%
Approaches to develop e-RNR Master plan

Process:
- Formation of task force
- 11th FYP document

Basis
- FAO-ITU
- E-agriculture

E-RNR Masterplan

ICT Setup
- Leverage
- Opportunity

Leveraging Inter-sector development

Process:
- Formation of task force
- 11th FYP document
Bhutan eRNR Master plan (National e-Agriculture Strategy)

Vision:

“By 2023, application of ICTs will accelerate sustainable growth of renewable natural resources sector for equitable socio-economic well-being of the people and the nation”

Action Plans:

The E-RNR action plan would enable the government to:

✓ Identify all components of E-RNR expected outcomes
✓ Identify key stakeholders
✓ Prioritize the activities in implementation phases to achieve tangible outcomes.
ICT Solutions and status of implementations

• **6 Priority ICT solutions**
  - Integrated Natural Resources Management Information System
  - E-RNR Extension and Advisory system
  - Online RNR marketplace and supply chain management information system
  - M-banking/ online transaction for agricultural services
  - RNR helpline
  - Agrometeorological Information Services (Mobile application)
### ICT Solutions and status of implementations

#### IT Solution under implementation:

<table>
<thead>
<tr>
<th>Thematic Application Areas</th>
<th>Action/Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Natural Resources Management Information System</td>
<td>Forests Information Reporting and Monitoring System (FIRMS)</td>
</tr>
<tr>
<td>Online RNR marketplace and supply chain management information system.</td>
<td>Agriculture Marketing Information System (AMIS)</td>
</tr>
<tr>
<td>ePEST surveillances system</td>
<td>ePEST system</td>
</tr>
<tr>
<td>RNR helpline</td>
<td>6 RNR helpline Services</td>
</tr>
</tbody>
</table>
Issues and Challenges

- Difficulty in Coordinating among departments/Agencies
- Limited HR capacity
- Limited funding
Way forward for ICT in Agriculture

- Integration of the ICT strategy into the 12th FYP
- Piloting prioritized ICT solutions
- Ensuring adequate resource allocation (financial and HR)
Thank you for your attention
&
Tashi Delek...