PROMISING IMPROVEMENTS IN FBFS IN AFRICA

Elly and Blessings
1. Mapping and Documentation

- **Groundwater potential zones**
  - Using GIS+RS
  - Planning new abstraction (water) points

- **FBFS potential areas**
  - FBFS potential areas in unutilized lowland plains
  - Documentation of status and potential
  - FBFS in university curricular

<table>
<thead>
<tr>
<th>Basin</th>
<th>Potential (hectares)</th>
<th>Development (hectares)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tana</td>
<td>205,000</td>
<td>68,700</td>
</tr>
<tr>
<td>Athi</td>
<td>40,000</td>
<td>11,000</td>
</tr>
<tr>
<td>Lake Basin</td>
<td>200,000</td>
<td>10,700</td>
</tr>
<tr>
<td>Kerio valley</td>
<td>64,000</td>
<td>5,400</td>
</tr>
<tr>
<td>Ewaso Ngi'o</td>
<td>30,000</td>
<td>10,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>539,000</td>
<td>105,800</td>
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2. Innovative technologies

- Information and communication technologies (i.e. pastoralists)
  - Rainfall and flood forecasting
  - Estimation of flood areas
  - Drought prediction
  - Pest control
  - Markets e.t.c
3. Upscaling

- Practitioners (farmers, entrepreneurs, model farmers)
- Capacity building (policy makers, decision makers, govt authorities)
- University curricular (for agronomists, engineers, water professionals)
- Research (National, regional experts)-academics specialised on FBFS
CONCLUSION

Other improvements

Agricultural Practices
- Introduction of improved crop varieties
- Plant breeding
- Exchange of knowledge
  - Sorghum, maize and rice (e.g. floating rice)
  - Example: flood plains of Tana river and Busia counties in Kenya

Flood water management skills and practices
- Understanding of flood behaviour
- Moisture management vs water logging
- Intensification of farming practices
- Diversification of livelihoods

Artificial flood releases
- Using integrated basin approach and detailed studies of dam management
THANK YOU