• Example of Current Support to Developing Countries

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Our Mandate

Assist MS to improve livestock productivity through:

- Efficient use of locally available feed resources,
- Adequate management practices and efficient reproductive / breeding programmes,
- Development of proactive disease prevention and control measures

using nuclear and nuclear-related technologies
Sub-programme Activity Areas (Support to TC projects)

- Animal Production (38%)
  (improving nutrition, reproduction & breeding)

- Animal Health (59%)
  (control & disease diagnosis)

- Veterinary Drug Residues (3%)
<table>
<thead>
<tr>
<th>CRP</th>
<th>TC</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Research based project</td>
<td>✓ Transfer and adoption of proven technology</td>
</tr>
<tr>
<td>✓ Single activity</td>
<td>✓ Variety of activities</td>
</tr>
<tr>
<td>✓ Interest of contracting institute</td>
<td>✓ Involves an array of stakeholders</td>
</tr>
<tr>
<td>✓ Seed money for research</td>
<td>✓ Large amount of funds</td>
</tr>
<tr>
<td>✓ Not for capacity building</td>
<td>✓ Strong capacity building component</td>
</tr>
<tr>
<td>✓ Call for specific CRPs</td>
<td>✓ Applications on a 2-year cycle</td>
</tr>
<tr>
<td>✓ Direct submission to the IAEA</td>
<td>✓ Submission through the NLO</td>
</tr>
<tr>
<td>✓ Approval based on technical merits</td>
<td>✓ Approval based on country priorities</td>
</tr>
<tr>
<td>✓ 5 years</td>
<td>✓ 2 – 3 years</td>
</tr>
<tr>
<td>✓ Emphasis on technical results</td>
<td>✓ Emphasis on implementation</td>
</tr>
</tbody>
</table>

Animal Production and Health
Sub-programme

FAO
IAEA
Modalities of Cooperation – TC Projects

- The IAEA Technical Cooperation Department (TC) facilitates the transfer of nuclear and related technologies.
- TC works in full partnership with the IAEA Technical Departments.
- Over US$ 14 million per year in nearly 70 developing countries.
- Project proposals are approved in a 2-year cycle.
- Submitted by local institutions through national atomic energy authorities.
- Provides supports for expert missions, fellowships, and equipment.
- Projects last for 2-4 years and amount for US$ 50,000 to 200,000 per year.
Technical Support – Provision of Equipment

Equipment and Consumables

- Equipment, chemicals, reagents, disposables, and services are provided
- Goods are internationally procured
- Local purchase of heavy, non-sophisticated goods
- 2 - 6 months for delivery
- UNDP provides local support for tax exempts
- Custom clearance up to the host institute
Animal Production and Health Laboratory
ELISA and Molecular Techniques

Seibersdorf Laboratories
Capacity building

Individual Training

Training Courses
## Countries with TC Projects in 2010

### Africa
- Algeria*
- Angola*
- Benin
- Burkina Faso
- Botswana
- Cameroon
- Egypt*
- Eritrea
- Ethiopia
- Gabon
- Congo*
- Côte d'Ivoire
- Kenya
- Lybia*
- Madagascar
- Malawi*
- Mali
- Mauritania*
- Mauritius
- Morocco*
- Mozambique
- Namibia*
- Niger
- Senegal*
- Seychelles*
- Sierra Leone
- South Africa*
- Sudan
- Tanzania*
- Tunisia*
- Uganda
- Zambia
- Zimbabwe*

### Latin America
- Argentina*
- Bolivia
- Belize
- Cuba*
- Honduras
- Mexico*
- Panama*
- Peru
- Uruguay

### Europe
- Armenia*
- Bosnia and Herzegovina*
- Bulgaria
- Croatia*
- Greece*
- Kyrgyzstan*
- Latvia*
- Montenegro*
- Russia*
- Serbia*
- Macedonia*
- Turkey*
- Uzbekistan*

### Asia
- Indonesia
- Mongolia
- Myanmar
- Sri Lanka
- China
- Iran

* Only through regional projects
Modalities of Cooperation – Coordinated Research Project

- Bring together research institutes in both developing and developed countries to network on a specific research topic
- Research is done within an operational framework and well defined global or regional thematic or problem focus
- CRPs are composed by 6 - 15 Research Contract holders, 2 - 5 Agreement holders, and 1 - 2 Technical Contract holders
- CRPs last for 3 - 5 years
- 3 - 4 Research Coordination Meetings (RCM) are held to evaluate and harmonize activities
- The results are freely available through IAEA’s publications and relevant international journals
- The knowledge is also used to enhance the quality of TC projects
CRP – Research Contracts

- Awarded for one year (Up to US$ 10,000) with the possibility of renewal based on progress done.
- Contractors are expected to bear part of the cost of the project (above 30% of the IAEA’s contribution).
- Each contractor must submit yearly progress reports and a final report.
- IAEA funds are delivered in cash or in equipment / services.
- Payment is made in two equal instalments, being the second part upon the successful completion of the work.
Improving Livestock Farm Productivity
Research and extension services in Myanmar

**IAEA**

- Semen processing laboratory using local and adapted breed bulls (30,000 doses/year)
- RIA laboratory to monitor artificial insemination
- Nutritional laboratory to support field trials
- Field visits for technical advice and treatment of common diseases
- Biogas digestors as source or energy in farms
- Farm data collection and analysis

**FAO**

- Importation of Friesian semen for cross-breeding with local cows
- Monitoring of milk production for selection of bull mothers and elite cows
Improving Livestock Farm Productivity
Integrated laboratory based-services in Honduras

✓ RIA laboratory for monitoring the AI service and cow reproductive performance
✓ Semen processing laboratory in support to the AI and genetic improvement programme
✓ Diagnostic laboratory for contagious diseases (clinic cases and sero-surveillance)
✓ Nutrition laboratory for feed evaluation and ration formulation
✓ Residue analysis laboratory to verify the microbiological and chemical content of meat and dairy products for export
Rinderpest Global Eradication Programme
GREP: A Global Partnership

Working together to eradicate rinderpest and make the world a safer place for food production from livestock and for trade