TOWARD AN OPERATIONAL ABS APPLICATION

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### Ressources Mobilisation

<table>
<thead>
<tr>
<th>Strategic Goal</th>
<th>Target</th>
<th>Investment needs (US$ million)</th>
<th>Recurrent expenditure per annum (US$ million)</th>
<th>Average annual expenditure (2013 – 2020) (US$ million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: Address the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society</td>
<td>1: Awareness raising</td>
<td>54</td>
<td>440 – 1,400</td>
<td>280 – 890</td>
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<tr>
<td>2: Biodiversity values</td>
<td>450 – 610</td>
<td>70 – 130</td>
<td>100 – 160</td>
<td></td>
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<tr>
<td>3: Incentives</td>
<td>1,300 – 2,000</td>
<td>8 – 15</td>
<td>170 – 270</td>
<td></td>
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<tr>
<td>4: Sustainable consumption &amp; production</td>
<td>55 – 107</td>
<td>8 – 15</td>
<td>12 – 23</td>
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<tr>
<td>B: Reduce the direct pressures on biodiversity and promote sustainable use</td>
<td>5: Reducing habitat loss (forests and wetlands)</td>
<td>152,300 – 288,800</td>
<td>13,300 – 13,700</td>
<td>39,200 – 52,100</td>
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<tr>
<td>7: Sustainable Agriculture, Aquaculture and Forestry</td>
<td>20,800 – 21,700</td>
<td>10,700 – 11,000</td>
<td>13,200 – 13,600</td>
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<td>8: Pollution</td>
<td>77,600 – 772,700</td>
<td>24,400 – 42,700</td>
<td>35,400 – 139,200</td>
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<td>9: Invasive alien species</td>
<td>34,100 – 43,900</td>
<td>21,005 – 50,100</td>
<td>23,300 – 52,900</td>
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<tr>
<td>10: Coral reefs</td>
<td>600 – 960</td>
<td>6 – 10</td>
<td>80 – 130</td>
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<td>C: To improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity</td>
<td>11: Protected areas (terrestrial and marine)</td>
<td>66,100 – 626,400</td>
<td>970 – 6,700</td>
<td>9,200 – 85,000</td>
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<tr>
<td>12: Species conservation</td>
<td>–</td>
<td>3,400 – 4,800</td>
<td>3,400 – 4,800</td>
<td></td>
</tr>
<tr>
<td>13: Genetic diversity</td>
<td>550 – 1,400</td>
<td>15 – 17</td>
<td>80 – 190</td>
<td></td>
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<tr>
<td>D: Enhance the benefits to all from biodiversity and ecosystem services</td>
<td>14: Ecosystem restoration</td>
<td>30,000 – 299,900</td>
<td>–</td>
<td>3,750 – 37,500</td>
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<tr>
<td>15: Restoration of forests</td>
<td>100</td>
<td>6,400</td>
<td>–</td>
<td></td>
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<td>16: Nagoya Protocol</td>
<td>55 – 313</td>
<td>–</td>
<td>7 – 39</td>
<td></td>
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<tr>
<td>E: Enhance implementation through participatory planning, knowledge management and capacity building</td>
<td>17: NBSAPs</td>
<td>114 – 1,100</td>
<td>110 – 560</td>
<td>50 – 170</td>
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<td>19: Science base</td>
<td>1,800 – 4,200</td>
<td>1,400 – 1,600</td>
<td>1,600 – 2,100</td>
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<tr>
<td>20: Mobilisation of financial resources</td>
<td>10 – 79</td>
<td>3 – 20</td>
<td>4 – 30</td>
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</tbody>
</table>
Need of clarity

- Well established ABS legislation
- Clarification of the operational scope of the Nagoya Protocol

⇒ CI/RESP analysis
Need of mutual understanding

- Knowledge of the industrial innovation and value creation processes
- ILC’s rights and culture
- National focal points
Benefit Sharing Definition
Costa Rican experience

• The 1998 Biodiversity law regulates ABS.

  ➢ INBIO / MoE: 10% of the research budget + 50% of the future royalties or milestones to be reinvested in conservation

  ➢ Business Applications
10 % del presupuesto
50 % de royalties
Agreements with the Industry

CHEMIAL PROSPECTION
- RCA BTG
  Revenue Sharing Agreement
- RCA
- RCA
- RCAs

PROSP GENICA
- Phythera

DESARROLLO
- Lilly
- LiSan LT
  Joint Research Agreements
- Akkadix

PRODUCTOS
- Bougainvillea Follajes ticos La Gavilana AgroBiot S.A.
- SACRO
  General Cooperation Agreement
- Entomed
- Biotecnica
- HKW, Vaco

BIOTRADE CONGRESS
- III

Years:
- 1999 2000 2001 2002 2003 2004 2005
Agreements with Research Centers

1991
- Cornell
- National Cancer Institute

1993
- LEBI, UME, HNN

1994
- TEC
- UMASS
- National Institutes of Health

1995
- Florida Ice & Farm
- STI, OEA, Harvard

1996
- UNIBE MAG
- CONICIT, CITA
- KRIIBB, EWC, UM

1997
- III Biotrade Congress
Bioprospecting contributions to science and technology, conservation and the national economy

- Development of **national capacities and capital raising for research** in the pharmaceutical and biotechnology areas (between $800,000 to $1 Million per year)
- **Equipment and infrastructure equipment** worth more than $2 million
- **Monetary benefits for protected areas** of the state for more than $600,000 from direct contribution of 10% of the budgets of research companies and 50% of the royalties received by INBio
- **Staff training** for advanced technologies
- **Technologies and knowledge** to support developments with national companies
- Know-how in **negotiations**
- **Biocomerce development** as an alternative for competitiveness
- **Four products** from biodiversity on the market
Products and Royalties

- National Partner
- Improves gastric and intestinal functions

- *Justicia pectoralis*
- New Phyto-medicine
- Natural sedative

fuente:/www.lisanatura.com
Products and Royalties

- **Hombre grande**
- National Partner
- Improves gastric and intestinal functions

- **Justicia pectoralis**
- New Phyto-medicine
- Natural sedative

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Conservation Stewards Program (CSP)

• **Conservation agreement**: A negotiated exchange of benefits in return for changes in resource use, contingent on verified performance.

• **Tonka Bean** BioTrade through CSP in Venezuela for perfume industry
THANK YOU

Carlos Manuel Rodriguez – Conservation International

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