




## Capacity Building Needs and Priorities

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### Areas of capacity building

#### Broad areas in which capacity is needed

- Institutional capacity
- Human resources capacity development and training
- Risk assessment and other scientific and technical expertise
- Risk management
- Public awareness, participation and education in biosafety
- Information exchange and data management including participation in the Biosafety Clearing-House
- Scientific, technical and institutional collaboration at subregional, regional and international levels
- Technology transfer
- Identification of LMOs, including their detection
- Socio-economic considerations
- Implementation of the documentation requirements under Article 18.2 of the Protocol
- Handling of confidential information
- Measures to address unintentional and/or illegal transboundary movements of LMOs
- Scientific biosafety research relating to LMOs
- Taking into account risks to human health

### Needs and priorities

#### Specific needs and priorities

- **Development of a national biosafety policy**

*Extent of implementation*

- Partially addressed

*Preferred means*

- Education and training
- Exchange programmes, internships, study tours, etc.
- Funding support

*Major target groups*

- Enforcement officials (e.g. field inspectors)

- **Development of national biosafety laws and regulations**

*Extent of implementation*

- Partially addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

- **Guidance on mainstreaming of biosafety into other sectors**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Funding support

*Major target groups*

- [Not specified]

- **Development of a national liability and redress regime**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Exchange programmes, internships, study tours, etc.

*Major target groups*

- Government regulators / administrators
- Decision / policy-makers (e.g. Ministers)
- Technical personnel / Scientists

- **Support for implementation of the national biosafety framework**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Technical assistance and advice
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- General public

- **Streamlining of regulatory systems related to biosafety**

*Extent of implementation*

- Not addressed

*Preferred means*

- Conferences and other fora
- Funding support
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators

- **Tools for enforcement of biosafety laws and regulations**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Customs officials

- **Development of administrative systems for handling applications for import and/or release of LMOs**

*Extent of implementation*

- [Not specified]

*Preferred means*

- [Not specified]

*Major target groups*

- [Not specified]

- **Mechanisms for inter-institutional communication**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- IT, BCH and data / information managers

- **Mechanism for coordination among national regulatory authorities and processes**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Customs officials

- **System for management of records related to LMO import applications and decisions**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- IT, BCH and data / information managers

- **System for decision-making on LMOs (procedures and guidelines)**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Decision / policy-makers (e.g. Ministers)
- Enforcement officials (e.g. field inspectors)

- **Access to information communication technologies (ICTs)**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Funding support
- Technical assistance and advice

*Major target groups*

- IT, BCH and data / information managers
- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)

- **Biosafety research facilities (e.g. greenhouses)**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Guidance / training materials

*Major target groups*

- IT, BCH and data / information managers
- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)

- **Internet connectivity**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Guidance / training materials

*Major target groups*

- IT, BCH and data / information managers
- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)

- **Office facilities, equipment and supplies for biosafety work**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

- **Telecommunication facilities (e.g. telephone, fax, e-mail)**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support

*Major target groups*

- Government regulators /

- Guidance / training materials
- Technical assistance and advice

- administrators
- Enforcement officials (e.g. field inspectors)
- IT, BCH and data / information managers

• **Access to information on available funding sources**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Guidance / training materials
- Education and training
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Budgeting and financial management skills**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Resource mobilisation skills (including project proposal writing)**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

• **System for resource-recovery (e.g. system for collecting fees on applications)**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **System for tracking and dealing with unintentional or illegal transboundary movements**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Education and training
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

• **Mechanism for inspections and enforcement of biosafety laws**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Customs officials

• **System for post-release monitoring of LMOs**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

• **Access to information on existing academic training programmes in biosafety**

*Extent of implementation*

*Preferred means*

*Major target groups*

- Not addressed

- Guidance / training materials
- Education and training
- Technical assistance and advice

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

#### • Access to biosafety training materials

##### *Extent of implementation*

- Not addressed

##### *Preferred means*

- Education and training
- Funding support
- Conferences and other fora

##### *Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

#### • Access to information on staff exchange/on-the-job-training opportunities

##### *Extent of implementation*

- Not addressed

##### *Preferred means*

- Membership with professional bodies / networks
- Guidance / training materials
- Technical assistance and advice

##### *Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

#### • Training in biosafety legislation and policy development and practice

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

- Education and training
- Funding support
- Conferences and other fora

##### *Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

#### • Training in scientific and technical fields relevant to biosafety

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

- Education and training
- Funding support
- Technical assistance and advice

##### *Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

#### • Training in legal, social and economic fields relevant to biosafety

##### *Extent of implementation*

- Not addressed

##### *Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

##### *Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Other professionals (e.g. lawyers, economists, etc.)

#### • Training in basics of biosafety and modern biotechnology

##### *Extent of implementation*

- Partially addressed

##### *Preferred means*

- Education and training
- Conferences and other fora
- Exchange programmes, internships, study tours, etc.

##### *Major target groups*

- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

#### • Training in risk assessment

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

- Education and training
- Guidance / training materials
- Conferences and other fora

##### *Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

#### • Training in risk management

##### *Extent of implementation*

##### *Preferred means*

##### *Major target groups*

<ul style="list-style-type: none"> <li>Minimally addressed</li> </ul>	<ul style="list-style-type: none"> <li>Education and training</li> <li>Guidance / training materials</li> <li>Conferences and other fora</li> </ul>	<ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Technical personnel / Scientists</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in biosafety regulatory issues</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>[Not specified]</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>[Not specified]</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>[Not specified]</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in biosafety communication</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Minimally addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Education and training</li> <li>Conferences and other fora</li> <li>Technical assistance and advice</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Mass media / extension workers</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in LMO sampling and detection</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Minimally addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Education and training</li> <li>Technical assistance and advice</li> <li>Conferences and other fora</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Technicians (e.g. in the laboratories)</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in post-release monitoring of LMOs</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Not addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Education and training</li> <li>Guidance / training materials</li> <li>Conferences and other fora</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Technical personnel / Scientists</li> </ul>
<ul style="list-style-type: none"> <li><b>Biosafety research</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Not addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Funding support</li> <li>Technical assistance and advice</li> <li>Guidance / training materials</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Technical personnel / Scientists</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in administrative practices for handling LMO import and release applications</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Minimally addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Education and training</li> <li>Conferences and other fora</li> <li>Exchange programmes, internships, study tours, etc.</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in preparation and presentation of LMO export or release applications/dossiers</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Minimally addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Education and training</li> <li>Guidance / training materials</li> <li>Conferences and other fora</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul>
<ul style="list-style-type: none"> <li><b>Training in socio-economic considerations relating to LMOs</b></li> </ul>		
<i>Extent of implementation</i> <ul style="list-style-type: none"> <li>Not addressed</li> </ul>	<i>Preferred means</i> <ul style="list-style-type: none"> <li>Education and training</li> <li>Conferences and other fora</li> </ul>	<i>Major target groups</i> <ul style="list-style-type: none"> <li>Government regulators / administrators</li> </ul>

- Technical assistance and advice

- Other professionals (e.g. lawyers, economists, etc.)
- Technical personnel / Scientists

• **Training in cost/benefit analysis as part of the risk management strategy**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Other professionals (e.g. lawyers, economists, etc.)

• **Training in documentation and identification requirements for LMO shipments**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

• **Training in compliance requirements under the Protocol**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Decision / policy-makers (e.g. Ministers)
- Enforcement officials (e.g. field inspectors)

• **Training in liability and redress issues under the Protocol**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Other professionals (e.g. lawyers, economists, etc.)
- Enforcement officials (e.g. field inspectors)

• **Guidance on other international agreements relevant to biosafety**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)

• **Access to basic ecological data to support risk assessments**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Funding support
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Guidance documents on specific aspects of risk assessment**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **National risk management system/strategy**

*Extent of implementation*

*Preferred means*

*Major target groups*

- Not addressed

- Funding support
- Guidance / training materials
- Technical assistance and advice

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **System to detect and appropriately respond to unintentional LMO releases**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Funding support
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Guidance on different risk management measures**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Guidance / training materials

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Mechanisms for cooperation in risk management**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Exchange programmes, internships, study tours, etc.

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)

• **National framework/system for post-release monitoring of LMOs**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Funding support
- Guidance / training materials

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

• **Tools and methodologies for environmental monitoring of LMOs**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Education and training

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Biosafety awareness materials**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Guidance / training materials

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Interest groups (consumer groups, farmers, NGOs, etc.)

• **Biosafety awareness and education programmes**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Interest groups (consumer groups, farmers, NGOs, etc.)
- General public

• **Biosafety documentation units or reference libraries**

*Extent of implementation*

*Preferred means*

*Major target groups*



- Not addressed

- Funding support
- Guidance / training materials
- Technical assistance and advice

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

• **Facilities for public access to biosafety information and means of access to the Biosafety Clearing-House**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- IT, BCH and data / information managers
- General public

• **National biosafety website**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

• **Biosafety outreach strategy/ communication plan**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Funding support
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Mass media / extension workers
- Interest groups (consumer groups, farmers, NGOs, etc.)

• **Training in risk-communication**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Mass media / extension workers

• **Systems for public participation in biosafety**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Conferences and other fora
- Technical assistance and advice
- Education and training

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

• **National system (policy, procedures and mechanisms) for biosafety information management**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Funding support
- Guidance / training materials

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

• **Equipment (hardware and software) to facilitate national participation in the BCH**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Guidance / training materials

*Major target groups*

- Government regulators / administrators
- IT, BCH and data / information managers
- Technical personnel / Scientists

• **Establishment of national biosafety databases**

*Extent of implementation*

*Preferred means*

*Major target groups*

- Not addressed

- Funding support
- Guidance / training materials
- Technical assistance and advice

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

#### • Interoperability with the BCH central portal

##### *Extent of implementation*

- Partially addressed

##### *Preferred means*

- Education and training
- Guidance / training materials
- Conferences and other fora

##### *Major target groups*

- Government regulators / administrators
- IT, BCH and data / information managers

#### • Non-Internet access to the BCH

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

- Education and training
- Funding support
- Guidance / training materials

##### *Major target groups*

- Government regulators / administrators
- IT, BCH and data / information managers
- Technical personnel / Scientists

#### • Systems for data and information security and back-up

##### *Extent of implementation*

- Not addressed

##### *Preferred means*

- Funding support
- Technical assistance and advice
- Guidance / training materials

##### *Major target groups*

- Government regulators / administrators
- IT, BCH and data / information managers
- Enforcement officials (e.g. field inspectors)

#### • Systems for data validation and quality control

##### *Extent of implementation*

- Not addressed

##### *Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

##### *Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

#### • Mechanism for biosafety information gathering and reporting

##### *Extent of implementation*

- Not addressed

##### *Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

##### *Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- IT, BCH and data / information managers

#### • Training in the use and management of the BCH central portal

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

- Conferences and other fora
- Guidance / training materials
- Technical assistance and advice

##### *Major target groups*

- IT, BCH and data / information managers
- Government regulators / administrators
- Technical personnel / Scientists

#### • Mechanisms for regional cooperation

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

- Education and training
- Conferences and other fora
- Exchange programmes, internships, study tours, etc.

##### *Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

#### • Training in collaboration techniques and approaches

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Guidance / training materials

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technical personnel / Scientists

- **Training in negotiation skills**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Other professionals (e.g. lawyers, economists, etc.)

- **Access to information on available technologies relevant for biosafety**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Education and training
- Guidance / training materials
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

- **Enabling policy/regulatory framework for technology transfer**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Funding support
- Conferences and other fora

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

- **Establishment of technology information platforms**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

- **National framework and action plan for technology transfer**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Funding support
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Decision / policy-makers (e.g. Ministers)
- Technical personnel / Scientists

- **Public-private partnerships for technology development**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

- **Laboratory for LMO detection and analysis**

*Extent of implementation*

- Not addressed

*Preferred means*

- Education and training
- Funding support
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

- **Guidance on unique identification systems**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

- **Simple/quick LMO test kits**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Education and training
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Customs officials

- **National system for taking into account socio-economic considerations in decision-making regarding LMOs**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

- **Guidance on taking into account socio-economic considerations in decision-making concerning LMOs**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- Technical personnel / Scientists

- **Mechanisms for cooperation on research on socio-economic impacts of LMOs**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Technical personnel / Scientists
- Government regulators / administrators
- Other professionals (e.g. lawyers, economists, etc.)

- **Development of LMO traceability systems**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Customs officials

- **Establishment of identity preservation systems**

*Extent of implementation*

- Not addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

- **National system for inspection and verification of documentation accompanying LMO shipments**

*Extent of implementation*

- Not addressed

*Preferred means*

- Guidance / training materials
- Technical assistance and advice
- Conferences and other fora

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Customs officials

- **National system for managing and protecting confidential information**

*Extent of implementation*

- Not addressed

*Preferred means*

- Guidance / training materials
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

- **Training in biosafety record keeping and information security**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Guidance / training materials
- Conferences and other fora
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Enforcement officials (e.g. field inspectors)

- **Guidance on assessment risks of LMOs to human health**

*Extent of implementation*

- Not addressed

*Preferred means*

- Conferences and other fora
- Guidance / training materials
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)

- **Regulatory framework for addressing human health impacts of LMOs**

*Extent of implementation*

- Not addressed

*Preferred means*

- Guidance / training materials
- Exchange programmes, internships, study tours, etc.
- Technical assistance and advice

*Major target groups*

- Government regulators / administrators
- Enforcement officials (e.g. field inspectors)
- Technicians (e.g. in the laboratories)