




Capacity Building Needs and Priorities

Record information and status

Record ID	101220
Status	 Published
Date of creation	2010-06-04 13:35 UTC (lydia_atutonu@yahoo.fr)
Date of publication	2010-06-04 13:35 UTC (lydia_atutonu@yahoo.fr)

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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

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

Major target groups

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

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

Extent of implementation

- Partially addressed

Preferred means

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

Major target groups

- [Not specified]

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

Extent of implementation

- Minimally 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

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Partially 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)

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

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
- Customs officials

- **Mechanisms for inter-institutional communication**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- [Not specified]

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

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

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

Extent of implementation

- Minimally addressed

Preferred means

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

- Technical personnel / Scientists

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

- Education and training
- Funding support
- Scholarships / fellowships

Major target groups

- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)
- Graduate and undergraduate students

- **Internet connectivity**

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

- [Not specified]

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

Extent of implementation

- Partially addressed

Preferred means

- Funding support

Major target groups

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

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

Extent of implementation

- Partially addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

- **Budgeting and financial management skills**

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

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

Extent of implementation

- Partially addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

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

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)
- Customs officials

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

Extent of implementation

- Not 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)
- Customs officials

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

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

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

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)

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

Extent of implementation

- Partially addressed

Preferred means

- Exchange programmes, internships, study tours, etc.
- Scholarships / fellowships

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Graduate and undergraduate students

- **Access to biosafety training materials**

Extent of implementation

- Minimally addressed

Preferred means

- Guidance / training materials

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

- Membership with professional bodies / networks

Major target groups

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

- **Training in biosafety legislation and policy development and practice**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

- **Training in scientific and technical fields relevant to biosafety**

<i>Extent of implementation</i> <i>◦ [Not specified]</i>	<i>Preferred means</i> <i>◦ [Not specified]</i>	<i>Major target groups</i> <i>◦ [Not specified]</i>
• Training in legal, social and economic fields relevant to biosafety		
<i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Funding support • Guidance / training materials	<i>Major target groups</i> • Government regulators / administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.)
• Training in basics of biosafety and modern biotechnology		
<i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Funding support • Scholarships / fellowships	<i>Major target groups</i> • Technical personnel / Scientists • Technicians (e.g. in the laboratories) • Graduate and undergraduate students
• Training in risk assessment		
<i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships	<i>Major target groups</i> • Government regulators / administrators • Technical personnel / Scientists • Graduate and undergraduate students
• Training in risk management		
<i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships	<i>Major target groups</i> • Government regulators / administrators • Technical personnel / Scientists • Graduate and undergraduate students
• Training in biosafety regulatory issues		
<i>Extent of implementation</i> • Not addressed	<i>Preferred means</i> • Education and training • Funding support • Technical assistance and advice	<i>Major target groups</i> • Decision / policy-makers (e.g. Ministers) • Government regulators / administrators • Technical personnel / Scientists
• Training in biosafety communication		
<i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Funding support • Technical assistance and advice	<i>Major target groups</i> • Government regulators / administrators • Technical personnel / Scientists • IT, BCH and data / information managers
• Training in LMO sampling and detection		
<i>Extent of implementation</i> • Not addressed	<i>Preferred means</i> • Education and training • Funding support • Technical assistance and advice	<i>Major target groups</i> • Technical personnel / Scientists • Technicians (e.g. in the laboratories)
• Training in post-release monitoring of LMOs		
<i>Extent of implementation</i> • Not addressed	<i>Preferred means</i> • Education and training • Funding support • Technical assistance and advice	<i>Major target groups</i> • Technical personnel / Scientists • Technicians (e.g. in the laboratories)
• Biosafety research		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>

- Minimally addressed

- Funding support
- Exchange programmes, internships, study tours, etc.
- Scholarships / fellowships

- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)
- Graduate and undergraduate students

• Training in administrative practices for handling LMO import and release applications

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

• Training in preparation and presentation of LMO export or release applications/dossiers

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
- Technicians (e.g. in the laboratories)

• Training in socio-economic considerations relating to LMOs

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- Decision / policy-makers (e.g. Ministers)
- Government regulators / administrators
- 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
- Technical assistance and advice

Major target groups

- [Not specified]

• Training in documentation and identification requirements for LMO shipments

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
- Customs officials

• Training in compliance requirements under the Protocol

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

• Training in liability and redress issues under the Protocol

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

• Guidance on other international agreements relevant to biosafety

Extent of implementation

- Not 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 /

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

Extent of implementation

- Not addressed

Preferred means

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

administrators

- Technical personnel / Scientists

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

- Funding support
- Technical assistance and advice

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

- **Guidance on how to perform risk assessment**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

- **National risk management system/strategy**

Extent of implementation

- Not addressed

Preferred means

- Funding support
- Technical assistance and advice

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Government regulators / administrators
- Technical personnel / Scientists

- **Guidance on different risk management measures**

Extent of implementation

- Not addressed

Preferred means

- Education and training
- 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 in risk management**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

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

administrators

- Technical personnel / Scientists

Major target groups

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

- **Biosafety awareness materials**

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- IT, BCH and data / information managers
- Mass media / extension workers

- **Biosafety awareness and education programmes**

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- IT, BCH and data / information managers
- Mass media / extension workers

- **Biosafety documentation units or reference libraries**

Extent of implementation

- Not addressed

Preferred means

- Funding support
- Technical assistance and advice

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

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

- **National biosafety website**

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
- IT, BCH and data / information managers

- **Biosafety outreach strategy/ communication plan**

Extent of implementation

- [Not specified]

Preferred means

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

Major target groups

- Government regulators / administrators
- IT, BCH and data / information managers
- Mass media / extension workers

- **Training in risk-communication**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

- **Systems for public participation in biosafety**

Extent of implementation

- Minimally addressed

Preferred means

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

managers

- Mass media / extension workers

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- IT, BCH and data / information managers
- Mass media / extension workers

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

Extent of implementation

- Partially addressed

Preferred means

- Funding support

Major target groups

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

- **Establishment of national biosafety databases**

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
- IT, BCH and data / information managers

- **Interoperability with the BCH central portal**

Extent of implementation

- Adequately addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists

- **Systems for data and information security and back-up**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

- **Systems for data validation and quality control**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

- **Mechanism for biosafety information gathering and reporting**

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Customs officials

- **Training in the use and management of the BCH central portal**

Extent of implementation

- Partially addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- IT, BCH and data / information managers
- Other professionals (e.g. lawyers, economists, etc.)

- **Mechanisms for regional cooperation**

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
- Technical personnel / Scientists

- **Training in collaboration techniques and approaches**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

- **Training in negotiation skills**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Graduate and undergraduate students

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

Extent of implementation

- Minimally addressed

Preferred means

- Education and training
- Technical assistance and advice

Major target groups

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

- **Establishment of technology information platforms**

Extent of implementation

- Not addressed

Preferred means

- Funding support

Major target groups

- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

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

Extent of implementation

- Not addressed

Preferred means

- Funding support

Major target groups

- Decision / policy-makers (e.g. Ministers)
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

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

*Extent of implementation**Preferred means**Major target groups*

<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Technical assistance and advice 	<ul style="list-style-type: none"> • Decision / policy-makers (e.g. Ministers) • Technical personnel / Scientists • Technicians (e.g. in the laboratories)
• Laboratory for LMO detection and analysis		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Minimally addressed 	<ul style="list-style-type: none"> • Education and training • Funding support • Scholarships / fellowships 	<ul style="list-style-type: none"> • Technical personnel / Scientists • Technicians (e.g. in the laboratories) • Graduate and undergraduate students
• Guidance on unique identification systems		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Education and training • Guidance / training materials • Technical assistance and advice 	<ul style="list-style-type: none"> • Government regulators / administrators • Technical personnel / Scientists • Technicians (e.g. in the laboratories)
• Simple/quick LMO test kits		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Funding support • Education and training • Technical assistance and advice 	<ul style="list-style-type: none"> • Technical personnel / Scientists • Customs officials • Technicians (e.g. in the laboratories)
• National system for taking into account socio-economic considerations in decision-making regarding LMOs		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Partially addressed 	<ul style="list-style-type: none"> • Education and training • Funding support 	<ul style="list-style-type: none"> • Government regulators / administrators • Other professionals (e.g. lawyers, economists, etc.) • Interest groups (consumer groups, farmers, NGOs, etc.)
• Guidance on taking into account socio-economic considerations in decision-making concerning LMOs		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Guidance / training materials • Education and training 	<ul style="list-style-type: none"> • Government regulators / administrators • Other professionals (e.g. lawyers, economists, etc.) • Interest groups (consumer groups, farmers, NGOs, etc.)
• Mechanisms for cooperation on research on socio-economic impacts of LMOs		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Membership with professional bodies / networks • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships 	<ul style="list-style-type: none"> • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) • Graduate and undergraduate students
• Development of LMO traceability systems		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Education and training • Funding support • Technical assistance and advice 	<ul style="list-style-type: none"> ◦ [Not specified]
• Establishment of identity preservation systems		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> • Not addressed 	<ul style="list-style-type: none"> • Funding support 	<ul style="list-style-type: none"> • Technical personnel / Scientists

- Technical assistance and advice

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

- Education and training
- Funding support

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

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

Extent of implementation

- Not addressed

Preferred means

- Education and training
- Scholarships / fellowships

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Graduate and undergraduate students

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists
- Technicians (e.g. in the laboratories)

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

Extent of implementation

- Not addressed

Preferred means

- Funding support
- Technical assistance and advice

Major target groups

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