Capacity Building Needs and Priorities

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General Information

Country

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Areas of capacity building

Broad areas in which capacity is needed

- 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	*Preferred means*	*Major target groups*
• Fully addressed	• Education and training • Technical assistance and advice	• Customs officials • Decision / policy-makers (e.g. Ministers)

- Government regulators / administrators

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

  Extent of implementation
  - Fully addressed

  Preferred means
  - Technical assistance and advice
  - Education and training

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

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

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Technical assistance and advice
  - Education and training

  Major target groups
  - Customs officials
  - Enforcement officials (e.g. field inspectors)

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

  Extent of implementation
  - Not addressed

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

  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
  - Minimally addressed

  Preferred means
  - Funding support

  Major target groups
  - Government regulators / administrators
  - General public

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

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Technical assistance and advice

  Major target groups
  - Enforcement officials (e.g. field inspectors)
  - Customs officials
  - Decision / policy-makers (e.g. Ministers)

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Technical assistance and advice

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

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Customs officials
  - Government regulators / administrators

- **Mechanisms for inter-institutional communication**

  Extent of implementation
  - Partially addressed

  Preferred means
  - Funding support

  Major target groups
  - Technical personnel / Scientists
  - Decision / policy-makers (e.g. Ministers)
  - Customs officials

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

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Funding support
  - Technical assistance and advice

  Major target groups
  - Decision / policy-makers (e.g. Ministers)

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

Extent of implementation	*Preferred means*	*Major target groups*
- Not addressed	- Funding support - Technical assistance and advice	- Decision / policy-makers (e.g. Ministers) - Government regulators / administrators

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

Extent of implementation	*Preferred means*	*Major target groups*
- Not addressed	- Funding support - Technical assistance and advice	- Decision / policy-makers (e.g. Ministers) - Customs officials - Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
- Not addressed	- Funding support	- Government regulators / administrators - Technicians (e.g. in the laboratories)

- **Internet connectivity**

Extent of implementation	*Preferred means*	*Major target groups*
- Fully addressed	- Funding support - Exchange programmes, internships, study tours, etc. - Membership with professional bodies / networks	- General public - Mass media / extension workers - IT, BCH and data / information managers

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

Extent of implementation	*Preferred means*	*Major target groups*
- Minimally addressed	- Funding support	- Government regulators / administrators

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

Extent of implementation	*Preferred means*	*Major target groups*
- Adequately addressed	- Funding support	- Government regulators / administrators - Decision / policy-makers (e.g. Ministers)

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

Extent of implementation	*Preferred means*	*Major target groups*
- Partially addressed	- Funding support	- IT, BCH and data / information managers - Government regulators / administrators

- **Budgeting and financial management skills**

Extent of implementation	*Preferred means*	*Major target groups*
- Fully addressed	- Technical assistance and advice	- Government regulators / administrators - Other professionals (e.g. lawyers, economists, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
- Partially addressed	- Membership with professional bodies / networks - Technical assistance and advice	- Decision / policy-makers (e.g. Ministers) - Government regulators / administrators

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

Extent of implementation	Preferred means	Major target groups
• Not addressed	• Funding support • Education and training • Technical assistance and advice	• Government regulators / administrators

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

Extent of implementation	Preferred means	Major target groups
• Not addressed	• Funding support • Education and training	• Decision / policy-makers (e.g. Ministers) • Customs officials • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	Preferred means	Major target groups
• Minimally addressed	• Funding support	• Decision / policy-makers (e.g. Ministers) • Government regulators / administrators • Enforcement officials (e.g. field inspectors)

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

Extent of implementation	Preferred means	Major target groups
• Minimally addressed	• Funding support	• Technical personnel / Scientists • Customs officials

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

Extent of implementation	Preferred means	Major target groups
• Adequately addressed	• Conferences and other fora • Membership with professional bodies / networks • Funding support	• Interest groups (consumer groups, farmers, NGOs, etc.) • Graduate and undergraduate students • Customs officials

- **Access to biosafety training materials**

Extent of implementation	Preferred means	Major target groups
• Adequately addressed	• Funding support • Guidance / training materials • Exchange programmes, internships, study tours, etc.	• Technical personnel / Scientists • Technicians (e.g. in the laboratories) • Customs officials

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

Extent of implementation	Preferred means	Major target groups
• Minimally addressed	• Exchange programmes, internships, study tours, etc. • Education and training	• Government regulators / administrators • Customs officials

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

Extent of implementation	Preferred means	Major target groups
• Minimally addressed	• Education and training	• Government regulators / administrators • Enforcement officials (e.g. field inspectors)

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

Extent of implementation	Preferred means	Major target groups
• Minimally addressed	• Funding support	• Technical personnel / Scientists • Customs officials • Interest groups (consumer groups, farmers, NGOs, etc.)

- **Training in legal, social and economic fields relevant to biosafety**

Extent of implementation	Preferred means	Major target groups
• Minimally addressed	• Funding support	• Government regulators /

administrators
- Other professionals (e.g. lawyers, economists, etc.)
- Interest groups (consumer groups, farmers, NGOs, etc.)

- **Training in basics of biosafety and modern biotechnology**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Guidance / training materials

  Major target groups
  - Interest groups (consumer groups, farmers, NGOs, etc.)
  - Customs officials
  - Technicians (e.g. in the laboratories)

- **Training in risk assessment**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Customs officials
  - Technicians (e.g. in the laboratories)
  - Interest groups (consumer groups, farmers, NGOs, etc.)

- **Training in risk management**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Guidance / training materials

  Major target groups
  - Customs officials
  - Technicians (e.g. in the laboratories)
  - Interest groups (consumer groups, farmers, NGOs, etc.)

- **Training in biosafety regulatory issues**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Government regulators / administrators
  - Other professionals (e.g. lawyers, economists, etc.)

- **Training in biosafety communication**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - IT, BCH and data / information managers
  - Mass media / extension workers

- **Training in LMO sampling and detection**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Customs officials
  - Technicians (e.g. in the laboratories)
  - Graduate and undergraduate students

- **Training in post-release monitoring of LMOs**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Customs officials
  - Technicians (e.g. in the laboratories)
  - Interest groups (consumer groups, farmers, NGOs, etc.)

- **Biosafety research**

  Extent of implementation
  - Not addressed

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

  Major target groups
  - Technicians (e.g. in the laboratories)
  - Interest groups (consumer groups, farmers, NGOs, etc.)
  - Customs officials

- **Training in administrative practices for handling LMO import and release applications**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Technical assistance and advice

  Major target groups
  - Government regulators / administrators

- • Technical personnel / Scientists

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support	• Technical personnel / Scientists • Customs officials • Interest groups (consumer groups, farmers, NGOs, etc.)

- **Training in socio-economic considerations relating to LMOs**

Extent of implementation	*Preferred means*	*Major target groups*
◦ [Not specified]	• Funding support	• Customs officials • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support • Education and training	• Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support • Technical assistance and advice • Education and training	• Customs officials • Technicians (e.g. in the laboratories)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support • Technical assistance and advice • Education and training	• Government regulators / administrators • Customs officials • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support	• Customs officials • Technicians (e.g. in the laboratories) • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Minimally addressed	• Funding support • Guidance / training materials	• Government regulators / administrators • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Minimally addressed	• Education and training • Guidance / training materials	• IT, BCH and data / information managers • Technicians (e.g. in the laboratories) • Customs officials

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support • Guidance / training materials	• Customs officials • Technicians (e.g. in the laboratories) • Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation
- Not addressed

Preferred means
- Funding support
- Technical assistance and advice

Major target groups
- Customs officials
- Technicians (e.g. in the laboratories)
- Graduate and undergraduate students

- **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
- Other professionals (e.g. lawyers, economists, etc.)

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

Extent of implementation
- Not addressed

Preferred means
- Funding support
- Technical assistance and advice

Major target groups
- Government regulators / administrators
- Customs officials
- Interest groups (consumer groups, farmers, NGOs, etc.)

- **Guidance on different risk management measures**

Extent of implementation
- Not addressed

Preferred means
- Education and training
- Exchange programmes, internships, study tours, etc.

Major target groups
- Customs officials

- **Mechanisms for cooperation in risk management**

Extent of implementation
- Not addressed

Preferred means
- Membership with professional bodies / networks
- Exchange programmes, internships, study tours, etc.
- Technical assistance and advice

Major target groups
- Customs officials
- Other professionals (e.g. lawyers, economists, etc.)

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

Extent of implementation
- Minimally addressed

Preferred means
- Funding support

Major target groups
- Government regulators / administrators
- Customs officials

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

Extent of implementation
- Not addressed

Preferred means
- Education and training
- Guidance / training materials

Major target groups
- Customs officials
- Technicians (e.g. in the laboratories)

- **Biosafety awareness materials**

Extent of implementation
- Minimally addressed

Preferred means
- Funding support
- Guidance / training materials

Major target groups
- IT, BCH and data / information managers
- Mass media / extension workers
- General public

- **Biosafety awareness and education programmes**

Extent of implementation
- Minimally addressed

Preferred means
- Funding support

Major target groups
- Customs officials
- Government regulators / administrators
- Interest groups (consumer groups, farmers, NGOs, etc.)

- **Biosafety documentation units or reference libraries**

Extent of implementation

Preferred means

Major target groups

- Not addressed

Funding support	• Government regulators / administrators • Decision / policy-makers (e.g. Ministers) • Other professionals (e.g. lawyers, economists, etc.)

- **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

  Major target groups
  - Government regulators / administrators
  - IT, BCH and data / information managers
  - Interest groups (consumer groups, farmers, NGOs, etc.)

- **National biosafety website**

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Funding support

  Major target groups
  - Government regulators / administrators
  - IT, BCH and data / information managers
  - Graduate and undergraduate students

- **Biosafety outreach strategy/ communication plan**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Technical assistance and advice

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

- **Training in risk-communication**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Guidance / training materials

  Major target groups
  - IT, BCH and data / information managers
  - Mass media / extension workers
  - Customs officials

- **Systems for public participation in biosafety**

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Funding support
  - Education and training

  Major target groups
  - Customs officials
  - IT, BCH and data / information managers
  - Interest groups (consumer groups, farmers, NGOs, etc.)

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Technical assistance and advice
  - Funding support

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

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

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Funding support

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

- **Establishment of national biosafety databases**

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Funding support

  Major target groups
  - Government regulators /

	Technical assistance and advice	administrators
		• IT, BCH and data / information managers
		• Other professionals (e.g. lawyers, economists, etc.)

- **Interoperability with the BCH central portal**

Extent of implementation	*Preferred means*	*Major target groups*
• Partially addressed	• Education and training	• Interest groups (consumer groups, farmers, NGOs, etc.)
	• Guidance / training materials	• IT, BCH and data / information managers
		• General public

- **Non-Internet access to the BCH**

Extent of implementation	*Preferred means*	*Major target groups*
• Minimally addressed	• Education and training	• General public
		• Interest groups (consumer groups, farmers, NGOs, etc.)

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Education and training	• Government regulators / administrators
	• Exchange programmes, internships, study tours, etc.	• IT, BCH and data / information managers

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

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support	• Government regulators / administrators
		• IT, BCH and data / information managers
		• Technical personnel / Scientists

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

Extent of implementation	*Preferred means*	*Major target groups*
• Minimally addressed	• Funding support	• IT, BCH and data / information managers
	• Membership with professional bodies / networks	• Mass media / extension workers

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

Extent of implementation	*Preferred means*	*Major target groups*
• Adequately addressed	• Funding support	• IT, BCH and data / information managers
	• Education and training	• Interest groups (consumer groups, farmers, NGOs, etc.)

- **Mechanisms for regional cooperation**

Extent of implementation	*Preferred means*	*Major target groups*
• Minimally addressed	• Conferences and other fora	• Government regulators / administrators
	• Membership with professional bodies / networks	• Technical personnel / Scientists
		• IT, BCH and data / information managers

- **Training in collaboration techniques and approaches**

Extent of implementation	*Preferred means*	*Major target groups*
• Minimally addressed	• Funding support	• Government regulators / administrators

- **Training in negotiation skills**

Extent of implementation	*Preferred means*	*Major target groups*
• Not addressed	• Funding support	• Government regulators / administrators
	• Technical assistance and advice	

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

  Extent of implementation
  - Adequately addressed

  Preferred means
  - Membership with professional bodies / networks
  - Exchange programmes, internships, study tours, etc.

  Major target groups
  - IT, BCH and data / information managers
  - Mass media / extension workers
  - Interest groups (consumer groups, farmers, NGOs, etc.)

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

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

- **Establishment of technology information platforms**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

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

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Government regulators / administrators

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Other professionals (e.g. lawyers, economists, etc.)
  - Government regulators / administrators
  - Interest groups (consumer groups, farmers, NGOs, etc.)

- **Laboratory for LMO detection and analysis**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Technicians (e.g. in the laboratories)
  - Customs officials
  - Technical personnel / Scientists

- **Guidance on unique identification systems**

  Extent of implementation
  - Not addressed

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

  Major target groups
  - Government regulators / administrators
  - Customs officials
  - Technicians (e.g. in the laboratories)

- **Simple/quick LMO test kits**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Customs officials
  - Technicians (e.g. in the laboratories)

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

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Technical assistance and advice
  - Funding support

  Major target groups
  - Other professionals (e.g. lawyers, economists, etc.)
  - Government regulators / administrators
  - Decision / policy-makers (e.g. Ministers)

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

  Extent of implementation

  Preferred means

  Major target groups

- Minimally addressed
- Education and training
- Decision / policy-makers (e.g. Ministers)
- Other professionals (e.g. lawyers, economists, etc.)

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - Other professionals (e.g. lawyers, economists, etc.)
  - Customs officials

- **Development of LMO traceability systems**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support

  Major target groups
  - ◦ *[Not specified]*

- **Establishment of identity preservation systems**

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Education and training

  Major target groups
  - ◦ *[Not specified]*

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Technical assistance and advice

  Major target groups
  - ◦ *[Not specified]*

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

  Extent of implementation
  - Minimally addressed

  Preferred means
  - Education and training
  - Funding support

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

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Education and training

  Major target groups
  - Government regulators / administrators
  - Customs officials
  - IT, BCH and data / information managers

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Education and training

  Major target groups
  - Government regulators / administrators
  - General public

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

  Extent of implementation
  - Not addressed

  Preferred means
  - Funding support
  - Education and training

  Major target groups
  - ◦ *[Not specified]*