




## 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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Guidance / training materials
- Exchange programmes, internships, study tours, etc.

*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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

• **Mechanisms for inter-institutional communication**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Conferences and other fora
- Education and training

*Major target groups*

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

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

*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)
- 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)
- Customs officials

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Technical assistance and advice
- Funding support
- Membership with professional bodies / networks

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

- Government regulators / administrators
- Technicians (e.g. in the laboratories)
- IT, BCH and data / information managers

• **Internet connectivity**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Exchange programmes, internships, study tours, etc.

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Exchange programmes, internships, study tours, etc.
- Technical assistance and advice

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Budgeting and financial management skills**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*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*

- Minimally addressed

*Preferred means*

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

*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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Technical assistance and advice
- Membership with professional bodies / networks
- Scholarships / fellowships

*Major target groups*

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

- **Access to biosafety training materials**

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Technical assistance and advice
- Conferences and other fora
- Membership with professional bodies / networks

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

- Technical assistance and advice
- Exchange programmes, internships, study tours, etc.
- Scholarships / fellowships

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Training in risk assessment**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Training in risk management**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

**• Training in biosafety regulatory issues***Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

**• Training in biosafety communication***Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

**• Training in LMO sampling and detection***Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

**• Training in post-release monitoring of LMOs***Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

**• Biosafety research***Extent of implementation*

- Minimally addressed

*Preferred means*

- Funding support
- Technical assistance and advice
- Exchange programmes, internships, study tours, etc.

*Major target groups*

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

**• Training in administrative practices for handling LMO import and release applications***Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

**• Training in socio-economic considerations relating to LMOs***Extent of implementation**Preferred means**Major target groups*

- Minimally addressed

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

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **National risk management system/strategy**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Guidance on different risk management measures**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Mechanisms for cooperation in risk management**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Biosafety awareness materials**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Biosafety awareness and education programmes**



*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Biosafety documentation units or reference libraries**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- [Not specified]

*Preferred means*

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

*Major target groups*

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

- **National biosafety website**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Biosafety outreach strategy/ communication plan**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Training in risk-communication**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Mass media / extension workers

- **Systems for public participation in biosafety**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

- Government regulators / administrators
- Mass media / extension workers
- General public

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

*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

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

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

- Minimally addressed

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

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

#### • Establishment of national biosafety databases

##### *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

#### • Interoperability with the BCH central portal

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

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

##### *Major target groups*

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

#### • Non-Internet access to the BCH

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

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

##### *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*

- 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
- Enforcement officials (e.g. field inspectors)

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

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

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

##### *Major target groups*

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

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

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

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

##### *Major target groups*

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

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

##### *Extent of implementation*

- Minimally addressed

##### *Preferred means*

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

##### *Major target groups*

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

- **Mechanisms for regional cooperation**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

inspectors)

*Major target groups*

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

- **Training in collaboration techniques and approaches**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Training in negotiation skills**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Establishment of technology information platforms**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Laboratory for LMO detection and analysis**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Simple/quick LMO test kits**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

- Government regulators / administrators
- Technical personnel / Scientists
- Interest groups (consumer groups, farmers, NGOs, etc.)

- **Development of LMO traceability systems**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

- **Establishment of identity preservation systems**

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*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*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*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
- Enforcement officials (e.g. field inspectors)

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

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

*Extent of implementation*

- Minimally addressed

*Preferred means*

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

*Major target groups*

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

## Additional Information

### Any other relevant information

Vanuatu is not a signatory yet to the Cartagena Protocol on Biosafety but the country is in the process of signing the Protocol very soon