



Capacity Building Needs and Priorities

Record information and status

Record ID	101274
Status	 Published
Date of creation	2010-07-22 14:34 UTC (johanne.huppe@cbd.int)
Date of last update	2010-07-23 20:32 UTC (johanne.huppe@cbd.int)
Date of publication	2010-07-23 20:32 UTC (johanne.huppe@cbd.int)

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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

- Guidance on mainstreaming of biosafety into other sectors**

Extent of implementation

- Minimally addressed

Preferred means

- Conferences and other fora
- Education and training

Major target groups

- [Not specified]

- Guidance / training materials

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

Extent of implementation

- Not addressed

Preferred means

- Conferences and other fora
- Guidance / training materials
- Scholarships / fellowships

Major target groups

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

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

Extent of implementation

- Partially addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

- Education and training
- Scholarships / fellowships
- Conferences and other fora

Major target groups

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

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

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

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

Extent of implementation

- Minimally addressed

Preferred means

- Education and training
- Guidance / training materials
- Membership with professional bodies / networks

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists

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

Extent of implementation

- Partially addressed

Preferred means

- Conferences and other fora

Major target groups

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

• **Access to biosafety training materials**

Extent of implementation

- Partially addressed

Preferred means

- Conferences and other fora
- Membership with professional bodies / networks

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists

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

Extent of implementation

- Not addressed

Preferred means

- Conferences and other fora

Major target groups

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

		administrators • Other professionals (e.g. lawyers, economists, etc.)
• Training in scientific and technical fields relevant to biosafety <i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Scholarships / fellowships • Membership with professional bodies / networks	<i>Major target groups</i> • Technical personnel / Scientists • Technicians (e.g. in the laboratories)
• Training in legal, social and economic fields relevant to biosafety <i>Extent of implementation</i> • Not addressed	<i>Preferred means</i> • Education and training • Guidance / training materials • Conferences and other fora	<i>Major target groups</i> • Other professionals (e.g. lawyers, economists, etc.) • Government regulators / administrators
• Training in risk assessment <i>Extent of implementation</i> • Partially addressed	<i>Preferred means</i> • Guidance / training materials • Conferences and other fora • Scholarships / fellowships	<i>Major target groups</i> • Technical personnel / Scientists • Government regulators / administrators
• Training in risk management <i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Guidance / training materials • Conferences and other fora	<i>Major target groups</i> • Government regulators / administrators • Technical personnel / Scientists • Enforcement officials (e.g. field inspectors)
• Training in LMO sampling and detection <i>Extent of implementation</i> • Partially addressed	<i>Preferred means</i> • Education and training • Conferences and other fora • Technical assistance and advice	<i>Major target groups</i> • Enforcement officials (e.g. field inspectors) • 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 • Guidance / training materials • Conferences and other fora	<i>Major target groups</i> • Government regulators / administrators • Technical personnel / Scientists • Enforcement officials (e.g. field inspectors)
• Biosafety research <i>Extent of implementation</i> • Not addressed	<i>Preferred means</i> • Conferences and other fora • Guidance / training materials • Technical assistance and advice	<i>Major target groups</i> • Technical personnel / Scientists
• Training in administrative practices for handling LMO import and release applications <i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Conferences and other fora • Exchange programmes, internships, study tours, etc.	<i>Major target groups</i> • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Technical personnel / Scientists
• Training in preparation and presentation of LMO export or release applications/dossiers <i>Extent of implementation</i> • Minimally addressed	<i>Preferred means</i> • Education and training • Membership with professional bodies / networks	<i>Major target groups</i> • Government regulators / administrators • Customs officials

	<ul style="list-style-type: none"> • Exchange programmes, internships, study tours, etc. 	<ul style="list-style-type: none"> • Enforcement officials (e.g. field inspectors)
<ul style="list-style-type: none"> • Training in socio-economic considerations relating to 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 • Conferences and other fora • Technical assistance and advice 	<ul style="list-style-type: none"> • Government regulators / administrators • Interest groups (consumer groups, farmers, NGOs, etc.) • General public
<ul style="list-style-type: none"> • Training in cost/benefit analysis as part of the risk management strategy 		
<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 • Exchange programmes, internships, study tours, etc. • Technical assistance and advice 	<ul style="list-style-type: none"> • Other professionals (e.g. lawyers, economists, etc.) • Government regulators / administrators • Technical personnel / Scientists
<ul style="list-style-type: none"> • Training in documentation and identification requirements for LMO shipments 		
<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"> • Customs officials • Government regulators / administrators • Enforcement officials (e.g. field inspectors)
<ul style="list-style-type: none"> • Training in liability and redress issues under the Protocol 		
<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"> • Conferences and other fora • Guidance / training materials 	<ul style="list-style-type: none"> • Other professionals (e.g. lawyers, economists, etc.) • Government regulators / administrators
<ul style="list-style-type: none"> • Access to basic ecological data to support risk assessments 		
<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 • Technical assistance and advice • Conferences and other fora 	<ul style="list-style-type: none"> • Government regulators / administrators • Technical personnel / Scientists • IT, BCH and data / information managers
<ul style="list-style-type: none"> • Guidance documents on specific aspects of risk assessment 		
<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 • Conferences and other fora 	<ul style="list-style-type: none"> • Technical personnel / Scientists • Government regulators / administrators
<ul style="list-style-type: none"> • Guidance on how to perform risk assessment 		
<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 • Scholarships / fellowships • Exchange programmes, internships, study tours, etc. 	<ul style="list-style-type: none"> • Government regulators / administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.)
<ul style="list-style-type: none"> • National risk management system/strategy 		
<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 • Technical assistance and advice • Membership with professional bodies / networks 	<ul style="list-style-type: none"> • Decision / policy-makers (e.g. Ministers) • Technical personnel / Scientists
<ul style="list-style-type: none"> • Guidance on different risk management measures 		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>

- Minimally addressed

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

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

• **Mechanisms for cooperation in risk management**

Extent of implementation

- Not addressed

Preferred means

- Conferences and other fora
- Guidance / training materials

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

- Education and training
- Exchange programmes, internships, study tours, etc.
- Technical assistance and advice

Major target groups

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

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

Extent of implementation

- Minimally addressed

Preferred means

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

Major target groups

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

• **Biosafety awareness materials**

Extent of implementation

- Partially addressed

Preferred means

- Conferences and other fora

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists

• **Biosafety awareness and education programmes**

Extent of implementation

- Partially addressed

Preferred means

- Education and training

Major target groups

- General public
- Graduate and undergraduate students
- Mass media / extension workers

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

Extent of implementation

- Partially addressed

Preferred means

- Guidance / training materials
- Education and training

Major target groups

- Mass media / extension workers
- General public

• **Biosafety outreach strategy/ communication plan**

Extent of implementation

- Adequately addressed

Preferred means

- Funding support
- Guidance / training materials

Major target groups

- IT, BCH and data / information managers

• **Training in risk-communication**

Extent of implementation

- Not addressed

Preferred means

- Conferences and other fora
- Guidance / training materials

Major target groups

- Government regulators / administrators
- Technical personnel / Scientists

• **Training in negotiation skills**

Extent of implementation

- Not addressed

Preferred means

- Conferences and other fora
- Guidance / training materials

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- Technical personnel / Scientists
- Government regulators / administrators

- **Guidance on unique identification systems**

Extent of implementation

- Not addressed

Preferred means

- Conferences and other fora
- Funding support

Major target groups

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

- **Simple/quick LMO test kits**

Extent of implementation

- Partially addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

- Funding support
- Technical assistance and advice

Major target groups

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

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

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 / administrators
- Technical personnel / Scientists

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

- Government regulators / administrators
- Interest groups (consumer groups, farmers, NGOs, etc.)
- General public

- **Development of LMO traceability systems**

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

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

Major target groups

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

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

Extent of implementation

- Not addressed

Preferred means

- Guidance / training materials

Major target groups

- Government regulators /

	<ul style="list-style-type: none"> Guidance / training materials 	administrators <ul style="list-style-type: none"> IT, BCH and data / information managers
<ul style="list-style-type: none"> Guidance on assessment risks of LMOs to human health 		
<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 Guidance / training materials Membership with professional bodies / networks 	<ul style="list-style-type: none"> Technical personnel / Scientists Government regulators / administrators
<ul style="list-style-type: none"> Regulatory framework for addressing human health impacts of LMOs 		
<i>Extent of implementation</i>	<i>Preferred means</i>	<i>Major target groups</i>
<ul style="list-style-type: none"> Adequately addressed 	<ul style="list-style-type: none"> Education and training Conferences and other fora Scholarships / fellowships 	<ul style="list-style-type: none"> Decision / policy-makers (e.g. Ministers) Government regulators / administrators General public