



# Capacity Building Needs and Priorities

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# Areas of capacity building

#### Broad areas in which capacity is needed

- · Institutional capacity
- Risk assessment and other scientific and technical expertise
- 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
- Scientific biosafety research relating to LMOs

## Needs and priorities

## Specific needs and priorities

· Guidance on mainstreaming of biosafety into other sectors

 $Extent\ of\ implementation$ · Partially addressed

Preferred means

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

Major target groups

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

· Development of a national liability and redress regime

Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Interest groups (consumer
		groups, farmers, NGOs, etc.)
Tools for enforcement of biosafet	y laws and regulations	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	Government regulators /
	<ul> <li>Guidance / training materials</li> </ul>	administrators
	Conferences and other fora	• Enforcement officials (e.g. field
		inspectors)  • Customs officials
		Oustoins officials
Mechanisms for inter-institution		
Extent of implementation	Preferred means	Major target groups
Partially addressed	<ul><li>Guidance / training materials</li><li>Conferences and other fora</li></ul>	<ul> <li>Government regulators / administrators</li> </ul>
	Funding support	Customs officials
		IT, BCH and data / information
		managers
Mechanism for coordination amo	ong national regulatory authorities and p	processes
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Technical personnel / Scientists
, and the second	Funding support	• Enforcement officials (e.g. field
	<ul> <li>Conferences and other fora</li> </ul>	inspectors)
		<ul> <li>Government regulators /</li> </ul>
		administrators
System for decision-making on L	MOs (procedures and guidelines)	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	<ul> <li>Government regulators /</li> </ul>
	Guidance / training materials	administrators
	Scholarships / fellowships	Decision / policy-makers (e.g.
		Ministers)
Access to information communic	ation technologies (ICTs)	
Extent of implementation	Preferred means	Major target groups
Not addressed	Guidance / training materials	Decision / policy-makers (e.g.
		Ministers)  • IT, BCH and data / information
		managers
		managoro
•	· ·	Maintan
Extent of implementation	Preferred means	Major target groups
•	· ·	Government regulators /
Extent of implementation  Not addressed	Preferred means  • Guidance / training materials	
Extent of implementation  Not addressed  System for post-release monitoric	Preferred means  • Guidance / training materials  ng of LMOs	Government regulators /     administrators
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means	Government regulators /     administrators  Major target groups
Extent of implementation  Not addressed  System for post-release monitoric	Preferred means  • Guidance / training materials  ng of LMOs	Government regulators /     administrators  Major target groups     Government regulators /
Extent of implementation  Not addressed  System for post-release monitoric  Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric  Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means	Government regulators /     administrators  Major target groups     Government regulators /
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Major target groups</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means  • Funding support	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic Extent of implementation  Minimally addressed	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means  • Funding support  • Education and training	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Major target groups</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic Extent of implementation  Minimally addressed  Training in legal, social and economic Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means  • Funding support  • Education and training  nomic fields relevant to biosafety	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic Extent of implementation  Minimally addressed  Training in legal, social and econ Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means  • Funding support  • Education and training  nomic fields relevant to biosafety  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> </ul>
<ul> <li>Not addressed</li> <li>System for post-release monitorice.         Extent of implementation     </li> <li>Minimally addressed</li> <li>Training in scientific and technica.         Extent of implementation         Minimally addressed     </li> <li>Training in legal, social and economic and eco</li></ul>	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means  • Funding support  • Education and training  nomic fields relevant to biosafety  Preferred means  • Education and training	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Enforcement officials (e.g. field</li> </ul>
Extent of implementation  Not addressed  System for post-release monitoric Extent of implementation  Minimally addressed  Training in scientific and technic Extent of implementation  Minimally addressed  Training in legal, social and econ Extent of implementation	Preferred means  • Guidance / training materials  ng of LMOs  Preferred means  • Education and training  al fields relevant to biosafety  Preferred means  • Funding support  • Education and training  nomic fields relevant to biosafety  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> </ul>

<ul> <li>Training in risk assessment</li> </ul>		
Extent of implementation	Preferred means	Major target groups
<ul> <li>Partially addressed</li> </ul>	Funding support	Government regulators /
	Exchange programmes,	administrators
	internships, study tours, etc.	Decision / policy-makers (e.g.
	Scholarships / fellowships	Ministers)
<ul> <li>Training in LMO sampling and of</li> </ul>	letection	
Extent of implementation	Preferred means	Major target groups
<ul> <li>Partially addressed</li> </ul>	Guidance / training materials	• Enforcement officials (e.g. field
		inspectors)
		Customs officials
		Technicians (e.g. in the  laboratories)
		laboratories)
Training in post-release monitor		
Extent of implementation	Preferred means	Major target groups
<ul> <li>Not addressed</li> </ul>	Funding support	Government regulators /
	Conferences and other fora	administrators
Biosafety research		
Extent of implementation	Preferred means	Major target groups
<ul> <li>Not addressed</li> </ul>	<ul> <li>Education and training</li> </ul>	Technical personnel / Scientists
Training in socio-economic cons	siderations relating to LMOs	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	Decision / policy-makers (e.g.
	<ul> <li>Conferences and other fora</li> </ul>	Ministers)
• Training in liability and redress	issues under the Protocol	
Extent of implementation	Preferred means	Major target groups
Not addressed	Conferences and other fora	Other professionals (e.g.
	Funding support	lawyers, economists, etc.)
<ul> <li>Guidance on how to perform ris</li> </ul>	k assessment	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators /
, <u> </u>	Funding support	administrators
<ul> <li>Tools and methodologies for env</li> </ul>		
Extent of implementation	Preferred means	Major target groups
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	<ul> <li>Education and training</li> </ul>	Government regulators /
Minimally addressed	<ul><li> Education and training</li><li> Funding support</li></ul>	<ul> <li>Government regulators / administrators</li> </ul>
Minimally addressed	Funding support	<u> </u>
Minimally addressed     Systems for public participation	Funding support     in biosafety	administrators
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation     </li> </ul>	Funding support     in biosafety     Preferred means	administrators  Major target groups
Minimally addressed     Systems for public participation	Funding support     in biosafety	administrators  Major target groups  Decision / policy-makers (e.g.
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation         Partially addressed     </li> </ul>	Funding support     in biosafety     Preferred means     Guidance / training materials	<ul> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> </ul>
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and software)</li> </ul>	<ul> <li>Funding support</li> <li>in biosafety         Preferred means         Guidance / training materials     </li> <li>vare) to facilitate national participation in</li> </ul>	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softwe Extent of implementation</li> </ul>	<ul> <li>Funding support</li> <li>in biosafety         Preferred means         • Guidance / training materials     </li> <li>For a contract of the support of th</li></ul>	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH  Major target groups
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and software)</li> </ul>	<ul> <li>Funding support</li> <li>in biosafety         Preferred means         Guidance / training materials     </li> <li>vare) to facilitate national participation in</li> </ul>	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH  Major target groups  IT, BCH and data / information
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softweextent of implementation         <ul> <li>Partially addressed</li> </ul> </li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials  vare) to facilitate national participation in Preferred means         Funding support	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH  Major target groups
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softweet Extent of implementation</li> <li>Partially addressed</li> <li>Mechanisms for regional cooperation</li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials  vare) to facilitate national participation in Preferred means         Funding support  ration	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH  Major target groups  IT, BCH and data / information managers
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softweet Extent of implementation</li> <li>Partially addressed</li> <li>Mechanisms for regional cooperation of the Extent of implementation</li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials  vare) to facilitate national participation in Preferred means         Funding support  ration  Preferred means	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH  Major target groups  IT, BCH and data / information managers  Major target groups
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softweet Extent of implementation</li> <li>Partially addressed</li> <li>Mechanisms for regional cooperation</li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials  vare) to facilitate national participation in Preferred means         Funding support  ration  Preferred means         Exchange programmes,	Major target groups  • Decision / policy-makers (e.g. Ministers)  • the BCH  Major target groups  • IT, BCH and data / information managers  Major target groups  • Decision / policy-makers (e.g.
<ul> <li>Minimally addressed</li> <li>Systems for public participation         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softw         <ul> <li>Extent of implementation</li> <li>Partially addressed</li> </ul> </li> <li>Mechanisms for regional cooper         <ul> <li>Extent of implementation</li> <li>Not addressed</li> </ul> </li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials          rare) to facilitate national participation in Preferred means         Funding support  ration  Preferred means         Exchange programmes, internships, study tours, etc.	administrators  Major target groups  Decision / policy-makers (e.g. Ministers)  the BCH  Major target groups  IT, BCH and data / information managers  Major target groups
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softweet Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Mechanisms for regional cooper Extent of implementation         <ul> <li>Not addressed</li> </ul> </li> <li>Laboratory for LMO detection and extending the properties of the propertie</li></ul>	Funding support     in biosafety         Preferred means         Guidance / training materials          Tare) to facilitate national participation in Preferred means         Funding support  ration         Preferred means         Exchange programmes, internships, study tours, etc.  and analysis	Major target groups  • Decision / policy-makers (e.g. Ministers)  • the BCH  Major target groups  • IT, BCH and data / information managers  Major target groups  • Decision / policy-makers (e.g.
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softween twenty of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Mechanisms for regional cooper Extent of implementation         <ul> <li>Not addressed</li> </ul> </li> <li>Laboratory for LMO detection at Extent of implementation</li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials          Tare) to facilitate national participation in Preferred means         Funding support  ration  Preferred means         Exchange programmes, internships, study tours, etc.  and analysis  Preferred means	Major target groups  • Decision / policy-makers (e.g. Ministers)  • the BCH  Major target groups  • IT, BCH and data / information managers  Major target groups  • Decision / policy-makers (e.g. Ministers)
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softweet Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Mechanisms for regional cooper Extent of implementation         <ul> <li>Not addressed</li> </ul> </li> <li>Laboratory for LMO detection and extending the properties of the propertie</li></ul>	Funding support     in biosafety         Preferred means         Guidance / training materials          Tare) to facilitate national participation in Preferred means         Funding support  ration         Preferred means         Exchange programmes, internships, study tours, etc.  and analysis	Major target groups  • Decision / policy-makers (e.g. Ministers)  • the BCH  Major target groups  • IT, BCH and data / information managers  Major target groups  • Decision / policy-makers (e.g. Ministers)
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softween twenty of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Mechanisms for regional cooper Extent of implementation         <ul> <li>Not addressed</li> </ul> </li> <li>Laboratory for LMO detection at Extent of implementation</li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials          rare) to facilitate national participation in Preferred means         Funding support  ration  Preferred means         Exchange programmes, internships, study tours, etc.  Ind analysis  Preferred means         Funding support  Funding support	Major target groups  • Decision / policy-makers (e.g. Ministers)  • the BCH  Major target groups  • IT, BCH and data / information managers  Major target groups  • Decision / policy-makers (e.g. Ministers)
<ul> <li>Minimally addressed</li> <li>Systems for public participation         Extent of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Equipment (hardware and softween twenty of implementation         <ul> <li>Partially addressed</li> </ul> </li> <li>Mechanisms for regional cooper Extent of implementation         <ul> <li>Not addressed</li> </ul> </li> <li>Laboratory for LMO detection at Extent of implementation         <ul> <li>Adequately addressed</li> </ul> </li> </ul>	Funding support     in biosafety         Preferred means         Guidance / training materials          rare) to facilitate national participation in Preferred means         Funding support  ration  Preferred means         Exchange programmes, internships, study tours, etc.  Ind analysis  Preferred means         Funding support  Funding support	Major target groups  • Decision / policy-makers (e.g. Ministers)  • the BCH  Major target groups  • IT, BCH and data / information managers  Major target groups  • Decision / policy-makers (e.g. Ministers)

Extent of implementation	Preferred means	Major target groups
Adequately addressed	Funding support	<ul> <li>Technical personnel / Scientists</li> </ul>
National system for taking into	account socio-economic considerations in	n decision-making regarding LMOs
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	<ul> <li>Decision / policy-makers (e.g.</li> </ul>
	<ul> <li>Conferences and other fora</li> </ul>	Ministers)
Guidance on taking into accoun	nt socio-economic considerations in decisi	ion-making concerning LMOs
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	<ul> <li>Decision / policy-makers (e.g.</li> </ul>
	<ul> <li>Conferences and other fora</li> </ul>	Ministers)
	<ul> <li>Funding support</li> </ul>	
Mechanisms for cooperation on	research on socio-economic impacts of L	MOs
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	∘ [Not specified]
	<ul> <li>Funding support</li> </ul>	
	<ul> <li>Conferences and other fora</li> </ul>	
Development of LMO traceability	ty systems	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Guidance / training materials	Government regulators /
	<ul> <li>Exchange programmes,</li> </ul>	administrators
	internships, study tours, etc.	
National system for managing a	and protecting confidential information	
Extent of implementation	Preferred means	Major target groups
Not addressed	Guidance / training materials	Government regulators /
	<ul> <li>Funding support</li> </ul>	administrators
	<ul> <li>Conferences and other fora</li> </ul>	