

# 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	Preferred means	Major target groups
Partially addressed	Conferences and other fora	Technical personnel / Scientists
	Education and training	Decision / policy-makers (e.g.
	Funding support	Ministers)  • Government regulators /
		administrators
		dammou avors
Development of national biosafety		
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	• [Not specified]
	<ul><li>Funding support</li><li>Conferences and other fora</li></ul>	
Guidance on mainstreaming of bio		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Decision / policy-makers (e.g.
	<ul><li>Funding support</li><li>Conferences and other fora</li></ul>	Ministers)
	Comerences and other fora	<ul> <li>Government regulators / administrators</li> </ul>
		Technical personnel / Scientists
D. 1	11	portonial ( doiningto
Development of a national liability	<u> </u>	Milanton
Extent of implementation	Preferred means  • Education and training	Major target groups
Not addressed	<ul><li>Education and training</li><li>Funding support</li></ul>	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> </ul>
	Technical assistance and advice	Government regulators /
	roommour assistance and advice	administrators
		Customs officials
Current for implementation of the	national biografaty framework	
Support for implementation of the	-	Moion tongot gn
Extent of implementation  • Partially addressed	Preferred means     Education and training	<ul><li>Major target groups</li><li>Government regulators /</li></ul>
Partially addressed	<ul><li>Education and training</li><li>Funding support</li></ul>	Government regulators /     administrators
	Conferences and other fora	Technical personnel / Scientists
	oomoronoos una omor rora	Enforcement officials (e.g. field)
		inspectors)
		d/or release of I MOs
Development of administrative sys	tems for handling applications for import an	
	tems for handling applications for import an	
Extent of implementation	Preferred means	Major target groups
-	Preferred means  • Education and training	Major target groups • Government regulators /
Extent of implementation	Preferred means	Major target groups
Extent of implementation	Preferred means  Education and training  Funding support	Major target groups • Government regulators / administrators
Extent of implementation • Not addressed	Preferred means  • Education and training  • Funding support  • Conferences and other fora	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional	Preferred means  • Education and training  • Funding support  • Conferences and other fora	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional  Extent of implementation	Preferred means  • Education and training  • Funding support  • Conferences and other fora  Communication  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> </ul> Major target groups
Extent of implementation  Not addressed  Mechanisms for inter-institutional	Preferred means  • Education and training  • Funding support  • Conferences and other fora    communication   Preferred means    • Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional  Extent of implementation	Preferred means  • Education and training  • Funding support  • Conferences and other fora  Communication  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> </ul> Major target groups
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed	Preferred means  • Education and training  • Funding support  • Conferences and other fora    communication   Preferred means    • Education and training    • Funding support    • Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>[Not specified]</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records re	Preferred means  • Education and training  • Funding support  • Conferences and other fora  I communication  Preferred means  • Education and training  • Funding support  • Guidance / training materials  elated to LMO import applications and decisi	<ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records r Extent of implementation	Preferred means  • Education and training  • Funding support  • Conferences and other fora  I communication  Preferred means  • Education and training  • Funding support  • Guidance / training materials  elated to LMO import applications and decisis  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> </ul> ons <ul> <li>Major target groups</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records re	Preferred means  • Education and training • Funding support • Conferences and other fora  I communication  Preferred means • Education and training • Funding support • Guidance / training materials  elated to LMO import applications and decisi  Preferred means • Education and training	<ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> </ul> ons <ul> <li>Major target groups</li> <li>Government regulators /</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records r Extent of implementation	Preferred means  • Education and training • Funding support • Conferences and other fora    communication	<ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> </ul> ons <ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records r Extent of implementation	Preferred means  • Education and training • Funding support • Conferences and other fora  I communication  Preferred means • Education and training • Funding support • Guidance / training materials  elated to LMO import applications and decisi  Preferred means • Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> </ul> Ons <ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records records of implementation	Preferred means  • Education and training • Funding support • Conferences and other fora    communication	<ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> </ul> ons <ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> </ul>
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Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records restant of implementation  Not addressed  System for decision-making on LM	Preferred means  • Education and training • Funding support • Conferences and other fora    Communication   Preferred means   • Education and training • Funding support • Guidance / training materials    Preferred means     Education and training     Preferred means     • Education and training     • Funding support     • Conferences and other fora	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>[Not specified]</li> <li>Ons</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> <li>Technical personnel / Scientists</li> </ul>
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records restant of implementation  Not addressed  System for decision-making on LM Extent of implementation	Preferred means  • Education and training • Funding support • Conferences and other fora  I communication  Preferred means • Education and training • Funding support • Guidance / training materials  elated to LMO import applications and decisi  Preferred means • Education and training • Funding support • Conferences and other fora  IOS (procedures and guidelines)  Preferred means	• Government regulators / administrators • Technical personnel / Scientists • Customs officials  • Major target groups • [Not specified]  • Government regulators / administrators • IT, BCH and data / information managers • Technical personnel / Scientists
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records restant of implementation  Not addressed  System for decision-making on LM	Preferred means  • Education and training • Funding support • Conferences and other fora  I communication  Preferred means • Education and training • Funding support • Guidance / training materials  elated to LMO import applications and decisi  Preferred means • Education and training • Funding support • Conferences and other fora  IOS (procedures and guidelines)  Preferred means • Education and training	• Government regulators / administrators • Technical personnel / Scientists • Customs officials  • Major target groups • [Not specified]  ons  • Major target groups • Government regulators / administrators • IT, BCH and data / information managers • Technical personnel / Scientists  Major target groups • Decision / policy-makers (e.g.
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records restant of implementation  Not addressed  System for decision-making on LM Extent of implementation	Preferred means  • Education and training • Funding support • Conferences and other fora  I communication  Preferred means • Education and training • Funding support • Guidance / training materials  Preferred means • Education and training • Funding support • Conferences and other fora  IOS (procedures and guidelines)  Preferred means • Education and training • Funding support	• Government regulators / administrators • Technical personnel / Scientists • Customs officials  • Major target groups • [Not specified]  ons  • Major target groups • Government regulators / administrators • IT, BCH and data / information managers • Technical personnel / Scientists  Major target groups • Decision / policy-makers (e.g. Ministers)
Extent of implementation  Not addressed  Mechanisms for inter-institutional Extent of implementation  Not addressed  System for magement of records research to implementation  Not addressed  System for decision-making on LM Extent of implementation	Preferred means  • Education and training • Funding support • Conferences and other fora  I communication  Preferred means • Education and training • Funding support • Guidance / training materials  elated to LMO import applications and decisi  Preferred means • Education and training • Funding support • Conferences and other fora  IOS (procedures and guidelines)  Preferred means • Education and training	• Government regulators / administrators • Technical personnel / Scientists • Customs officials  • Major target groups • [Not specified]  ons  • Major target groups • Government regulators / administrators • IT, BCH and data / information managers • Technical personnel / Scientists  Major target groups • Decision / policy-makers (e.g.

ccess to information communication	tion technologies (ICTs)	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	<ul><li> Education and training</li><li> Funding support</li><li> Technical assistance and advice</li></ul>	<ul> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
		IT, BCH and data / information managers
Biosafety research facilities (e.g.	greenhouses)	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Education and training</li><li>Funding support</li><li>Scholarships / fellowships</li></ul>	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Graduate and undergraduate students</li> </ul>
nternet connectivity		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	IT, BCH and data / information
	<ul><li>Technical assistance and advice</li><li>Conferences and other fora</li></ul>	managers • Government regulators / administrators
		Technical personnel / Scientists
Office facilities, equipment and s	•	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	<ul><li>Funding support</li><li>Education and training</li></ul>	• [Not specified]
	Technical assistance and advice	
Telecommunication facilities (e.g.		
_	Preferred means	Major target groups
Extent of implementation • Partially addressed	Funding support	Major target groups     Government regulators /
- ar stan, caurooova	anamy support	administrators  • Technical personnel / Scientists
		IT, BCH and data / information managers
Access to information on available	e funding sources	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators /
	Conferences and other fora	administrators
	Technical assistance and advice	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> </ul>
Budgeting and financial managen	nent skills	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Government regulators /
	Funding support	administrators
	Conferences and other fora	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> </ul>
Resource mobilisation skills (incl	uding project proposal writing)	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators /
	Funding support	administrators
	<ul> <li>Technical assistance and advice</li> </ul>	<ul> <li>Technical personnel / Scientists</li> </ul>

Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Technical assistance and advice</li> </ul>	<ul> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Customs officials</li> </ul>
System for tracking and dealing v	with unintentional or illegal transboundary mov	vements
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Conferences and other fora</li> </ul>	<ul> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> <li>Customs officials</li> </ul>
Mechanism for inspections and e	nforcement of biosafety laws	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Funding support</li><li>Conferences and other fora</li><li>Technical assistance and advice</li></ul>	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
System for post-release monitoring	ng of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> <li>Conferences and other fora</li> <li>Technical assistance and advice</li> </ul>	<ul> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul>
Access to information on existing	academic training programmes in biosafety	
Extent of implementation	Preferred means	Major target groups
Partially addressed	<ul> <li>Exchange programmes, internships, study tours, etc.</li> <li>Scholarships / fellowships</li> </ul>	<ul> <li>Government regulators /         administrators</li> <li>Technical personnel / Scientists</li> <li>Graduate and undergraduate         students</li> </ul>
Access to biosafety training mate	rials	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	<ul> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Access to information on staff exc	change/on-the-job-training opportunities	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Membership with professional bodies / networks	<ul> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Training in biosafety legislation a	and policy development and practice	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Education and training</li><li>Funding support</li><li>Guidance / training materials</li></ul>	<ul> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Training in scientific and technic	al fields relevant to biosafety	conomists, etc.)

Extent of implementation	Preferred means	Major target groups
• [Not specified]	• [Not specified]	• [Not specified]
	• •	, op
Training in legal, social and econo	Preferred means	Major target groups
<ul><li>Extent of implementation</li><li>Minimally addressed</li></ul>	Education and training	<ul><li>Major target groups</li><li>Government regulators /</li></ul>
- William addressed	Funding support	administrators
	Guidance / training materials	Technical personnel / Scientists
		Other professionals (e.g. lawyers, economists, etc.)
Training in basics of biosafety and	modern biotechnology	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Technical personnel / Scientists
	<ul> <li>Funding support</li> </ul>	• Technicians (e.g. in the
	<ul> <li>Scholarships / fellowships</li> </ul>	laboratories)
		Graduate and undergraduate
		students
Training in risk assessment		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Government regulators /
	Exchange programmes, internships,	administrators
	study tours, etc.	Technical personnel / Scientists     Graduate and undergraduate
	Scholarships / fellowships	Graduate and undergraduate     students
		students
Training in risk management		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Government regulators /
	Exchange programmes, internships,	administrators
	study tours, etc. • Scholarships / fellowships	<ul><li>Technical personnel / Scientists</li><li>Graduate and undergraduate</li></ul>
	• Scholarships / Tenowships	students
		Statemes
Training in biosafety regulatory is		
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training     Funding support	Decision / policy-makers (e.g. Ministers)
	<ul><li>Funding support</li><li>Technical assistance and advice</li></ul>	Ministers)  • Covernment regulators /
	- recinical assistance and advice	<ul> <li>Government regulators / administrators</li> </ul>
		Technical personnel / Scientists
Training in biosofate	ion.	1
Training in biosafety communication		Major target graves
Extent of implementation  Minimally addressed	Preferred means	<ul><li>Major target groups</li><li>Government regulators /</li></ul>
Minimally addressed	<ul><li>Education and training</li><li>Funding support</li></ul>	Government regulators /     administrators
	Technical assistance and advice	Technical personnel / Scientists
	roominour assistance and advice	IT, BCH and data / information
		managers
Training in LMO sampling and det	tection	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Technical personnel / Scientists
	Funding support	Technicians (e.g. in the
	<ul> <li>Technical assistance and advice</li> </ul>	laboratories)
Training in post-release monitoring	ng of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Technical personnel / Scientists
	Funding support	• Technicians (e.g. in the
	Technical assistance and advice	laboratories)
Biosafety research		
•	Preferred means	Major target groups
Extent of implementation	Freierreu IIIeans	Major target groups

Minimally addressed	<ul> <li>Funding support</li> <li>Exchange programmes, internships, study tours, etc.</li> </ul>	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> </ul>
	Scholarships / fellowships	<ul> <li>Graduate and undergraduate students</li> </ul>
Training in administrative practic	es for handling LMO import and release applica	ations
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Decision / policy-makers (e.g.
	Funding support	Ministers)
	Technical assistance and advice	Government regulators /
		administrators
		• Technical personnel / Scientists
Training in preparation and prese	ntation of LMO export or release applications/d	lossiers
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Government regulators /
	Funding support	administrators
	<ul> <li>Technical assistance and advice</li> </ul>	• Technical personnel / Scientists
		• Technicians (e.g. in the
		laboratories)
Training in socio-economic consid	lerations relating to LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Decision / policy-makers (e.g.
	Funding support	Ministers)
	<ul> <li>Technical assistance and advice</li> </ul>	Government regulators /
		administrators
		Technical personnel / Scientists
Training in cost/benefit analysis as	s part of the risk management strategy	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> </ul>	∘ [Not specified]
Not addressed	Guidance / training materials	∘ [Not specified]
Not addressed		• [Not specified]
	Guidance / training materials	<ul> <li>[Not specified]</li> </ul>
	<ul><li>Guidance / training materials</li><li>Technical assistance and advice</li></ul>	<ul><li>[Not specified]</li><li>Major target groups</li></ul>
Training in documentation and ide	Guidance / training materials     Technical assistance and advice entification requirements for LMO shipments	
<b>Training in documentation and id</b> Extent of implementation	Guidance / training materials     Technical assistance and advice entification requirements for LMO shipments  Preferred means	Major target groups
<b>Training in documentation and id</b> Extent of implementation	Guidance / training materials     Technical assistance and advice      Preferred means     Education and training	Major target groups Government regulators / administrators Technical personnel / Scientists
Training in documentation and ide	Guidance / training materials     Technical assistance and advice entification requirements for LMO shipments  Preferred means     Education and training     Funding support	Major target groups  • Government regulators / administrators
Training in documentation and identification  Extent of implementation  Not addressed	Guidance / training materials     Technical assistance and advice      Preferred means     Education and training     Funding support     Technical assistance and advice	Major target groups Government regulators / administrators Technical personnel / Scientists
<b>Training in documentation and id</b> Extent of implementation	Guidance / training materials     Technical assistance and advice      Preferred means     Education and training     Funding support     Technical assistance and advice	Major target groups Government regulators / administrators Technical personnel / Scientists
Training in documentation and ide  Extent of implementation  • Not addressed  Training in compliance requirementation	Guidance / training materials     Technical assistance and advice entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice ents under the Protocol	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials	Major target groups  • Government regulators / administrators  • Technical personnel / Scientists  • Customs officials  Major target groups  • Decision / policy-makers (e.g. Ministers)
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training	Major target groups  • Government regulators / administrators  • Technical personnel / Scientists  • Customs officials  Major target groups  • Decision / policy-makers (e.g. Ministers)  • Government regulators /
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials	Major target groups  • Government regulators / administrators  • Technical personnel / Scientists  • Customs officials  Major target groups  • Decision / policy-makers (e.g. Ministers)  • Government regulators /
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice	Major target groups  • Government regulators / administrators  • Technical personnel / Scientists  • Customs officials  Major target groups  • Decision / policy-makers (e.g. Ministers)  • Government regulators / administrators
Training in documentation and ide  Extent of implementation  • Not addressed  Training in compliance requireme  Extent of implementation  • Not addressed	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice	Major target groups  • Government regulators / administrators  • Technical personnel / Scientists  • Customs officials  Major target groups  • Decision / policy-makers (e.g. Ministers)  • Government regulators / administrators
Training in documentation and ide  Extent of implementation  • Not addressed  Training in compliance requireme  Extent of implementation  • Not addressed  Training in liability and redress is	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training  Preferred means  Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Education and training     Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training  Preferred means  Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators /</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Education and training     Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Education and training     Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators /</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation  Not addressed  Guidance on other international a  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  Ints under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  Sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  greements relevant to biosafety  Preferred means  Green to biosafety  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation  Not addressed  Guidance on other international a	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  ents under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  greements relevant to biosafety  Preferred means     Education and training     Education and training     Guidance / training materials     Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul> Major target groups <ul> <li>Decision / policy-makers (e.g.</li> </ul> Major target groups <ul> <li>Decision / policy-makers (e.g.</li> </ul>
Training in documentation and ide  Extent of implementation  Not addressed  Training in compliance requireme  Extent of implementation  Not addressed  Training in liability and redress is  Extent of implementation  Not addressed  Guidance on other international a  Extent of implementation	Guidance / training materials     Technical assistance and advice  entification requirements for LMO shipments  Preferred means     Education and training     Funding support     Technical assistance and advice  Ints under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  Sues under the Protocol  Preferred means     Education and training     Guidance / training materials     Technical assistance and advice  greements relevant to biosafety  Preferred means  Green to biosafety  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>

		administrators
		Technical personnel / Scientists
Access to basic ecological data to  Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training     Conferences and other fora     Technical assistance and advice	<ul> <li>Major target groups</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
Guidance documents on specific a	aspects of risk assessment	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Funding support</li> <li>Technical assistance and advice</li> </ul>	<ul> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> </ul>
Guidance on how to perform risk	assessment	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Technical assistance and advice</li> </ul>	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
National risk management system	n/strategy	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Funding support</li><li>Technical assistance and advice</li></ul>	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
System to detect and appropriate	ly respond to unintentional LMO releases	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> </ul>	Government regulators /
	<ul><li>Funding support</li><li>Technical assistance and advice</li></ul>	<ul><li>administrators</li><li>Government regulators / administrators</li><li>Technical personnel / Scientists</li></ul>
Guidance on different risk manag	gement measures	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Technical assistance and advice</li> </ul>	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
Mechanisms for cooperation in ri	sk management	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Technical assistance and advice</li> </ul>	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
National framework/system for po	ost-release monitoring of LMOs	
Extent of implementation  • Minimally addressed	Preferred means  Funding support  Guidance / training materials	Major target groups  • Decision / policy-makers (e.g. Ministers)
	<ul> <li>Guidance / training materials</li> <li>Technical assistance and advice</li> </ul>	Ministers) • Government regulators /

		administrators
		Technical personnel / Scientists
Tools and methodologies for environ	mental monitoring of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Decision / policy-makers (e.g.
	Guidance / training materials	Ministers)
	<ul> <li>Technical assistance and advice</li> </ul>	<ul> <li>Government regulators /</li> </ul>
		administrators
		Technical personnel / Scientists
Biosafety awareness materials		
Extent of implementation	Preferred means	Major target groups
<ul> <li>Minimally addressed</li> </ul>	<ul> <li>Education and training</li> </ul>	• Government regulators /
	Funding support	administrators
	Technical assistance and advice	IT, BCH and data / information
		managers  • Mass media / extension workers
D. C. 1.1.		Plass modia, extension workers
Biosafety awareness and education p		16 (10.00)
Extent of implementation	Preferred means	Major target groups
Minimally addressed	<ul><li>Funding support</li><li>Education and training</li></ul>	Government regulators /     administrators
	Guidance / training materials	IT, BCH and data / information
		managers
		Mass media / extension workers
Biosafety documentation units or ref	Ference libraries	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Decision / policy-makers (e.g.
	Technical assistance and advice	Ministers)
		Government regulators /
		administrators
		Technical personnel / Scientists
		Diagrafia Classica II.
	ty information and means of access to the	Biosafety Clearing-House
Extent of implementation	Preferred means	Major target groups
	Preferred means  • Education and training	Major target groups  • Government regulators /
Extent of implementation	Preferred means  • Education and training  • Guidance / training materials	Major target groups  • Government regulators / administrators
Extent of implementation	Preferred means  • Education and training	Major target groups Government regulators / administrators Technical personnel / Scientists
Extent of implementation	Preferred means  • Education and training  • Guidance / training materials	Major target groups  • Government regulators / administrators
Extent of implementation  • Minimally addressed	Preferred means  • Education and training  • Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers,</li> </ul>
Extent of implementation     Minimally addressed  National biosafety website	Preferred means  • Education and training  • Guidance / training materials  • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Extent of implementation  • Minimally addressed	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul> Major target groups
Extent of implementation  • Minimally addressed  National biosafety website  Extent of implementation	Preferred means  • Education and training  • Guidance / training materials  • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Extent of implementation  • Minimally addressed  National biosafety website  Extent of implementation	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means  • Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul> Major target groups <ul> <li>Government regulators /</li> </ul>
Extent of implementation  • Minimally addressed  National biosafety website  Extent of implementation	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means  • Education and training  • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> </ul>
Extent of implementation  • Minimally addressed  National biosafety website  Extent of implementation	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means  • Education and training  • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> </ul>
Extent of implementation  • Minimally addressed  National biosafety website  Extent of implementation	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means  • Education and training  • Funding support  • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information</li> </ul>
• Minimally addressed  National biosafety website  Extent of implementation  • Not addressed	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means  • Education and training  • Funding support  • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information</li> </ul>
• Minimally addressed  National biosafety website  Extent of implementation  • Not addressed  Biosafety outreach strategy/ communication	Preferred means  • Education and training  • Guidance / training materials  • Funding support  Preferred means  • Education and training  • Funding support  • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> </ul>
Minimally addressed  National biosafety website  Extent of implementation     Not addressed  Biosafety outreach strategy/ communication to implementation  Extent of implementation	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  mication plan  Preferred means • Education and training • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> </ul>
Minimally addressed  National biosafety website  Extent of implementation     Not addressed  Biosafety outreach strategy/ communication to implementation  Extent of implementation	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  nication plan  Preferred means • Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information</li> </ul>
Minimally addressed  National biosafety website  Extent of implementation     Not addressed  Biosafety outreach strategy/ communication to implementation  Extent of implementation	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  mication plan  Preferred means • Education and training • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> </ul>
• Minimally addressed  • Minimally addressed  National biosafety website  Extent of implementation • Not addressed  Biosafety outreach strategy/ communication  Extent of implementation  [Not specified]	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  mication plan  Preferred means • Education and training • Funding support	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information</li> </ul>
• Minimally addressed  National biosafety website  Extent of implementation • Not addressed  Biosafety outreach strategy/ communication • [Not specified]	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  nication plan  Preferred means • Education and training • Funding support • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> </ul>
• Minimally addressed  • Minimally addressed  National biosafety website  Extent of implementation • Not addressed  Biosafety outreach strategy/ communication • [Not specified]  Training in risk-communication  Extent of implementation	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  nication plan  Preferred means • Education and training • Funding support • Technical assistance and advice  Preferred means • Education and training • Funding support • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> </ul>
• Minimally addressed  National biosafety website  Extent of implementation • Not addressed  Biosafety outreach strategy/ communication • [Not specified]	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  nication plan  Preferred means • Education and training • Funding support • Technical assistance and advice  Preferred means • Education and training • Funding support • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> </ul> Major target groups <ul> <li>Government regulators /</li> </ul>
• Minimally addressed  • Minimally addressed  National biosafety website  Extent of implementation • Not addressed  Biosafety outreach strategy/ communication • [Not specified]  Training in risk-communication  Extent of implementation	Preferred means  • Education and training • Guidance / training materials • Funding support  Preferred means • Education and training • Funding support • Technical assistance and advice  nication plan  Preferred means • Education and training • Funding support • Technical assistance and advice  Preferred means • Education and training • Funding support • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> </ul>

		managers
		Mass media / extension workers
Systems for public participation in	biosafety	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	• Decision / policy-makers (e.g.
	Guidance / training materials     Tackwise   position and advise	Ministers)
	Technical assistance and advice	Government regulators /     administrators
		Technical personnel / Scientists
National system (nalisy presedure	c and machanisms) for biografaty information	•
Extent of implementation	s and mechanisms) for biosafety information  Preferred means	_
Not addressed	Funding support	<ul><li>Major target groups</li><li>Government regulators /</li></ul>
- Not dudressed	Technical assistance and advice	administrators
	Education and training	IT, BCH and data / information
	J	managers
		Mass media / extension workers
<b>Equipment (hardware and software</b>	e) to facilitate national participation in the E	ВСН
Extent of implementation	Preferred means	Major target groups
Partially addressed	Funding support	Government regulators /
		administrators
		IT, BCH and data / information
		managers
		Technical personnel / Scientists
Establishment of national biosafet	y databases	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Education and training</li> </ul>	Government regulators /
	<ul> <li>Funding support</li> </ul>	administrators
	<ul> <li>Technical assistance and advice</li> </ul>	Technical personnel / Scientists
		IT, BCH and data / information
		managers
Interoperability with the BCH cent	ral portal	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Education and training	Government regulators /
	<ul> <li>Guidance / training materials</li> <li>Technical assistance and advice</li> </ul>	<ul><li>administrators</li><li>Technical personnel / Scientists</li></ul>
		reclinical personner/ scientists
Systems for data and information s	<u>-</u>	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Education and training</li><li>Guidance / training materials</li></ul>	Government regulators /     administrators
	<ul><li>Guidance / training materials</li><li>Funding support</li></ul>	Technical personnel / Scientists
	r ununig support	IT, BCH and data / information
		managers
Systems for data validation and qu	ality control	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Government regulators /
	Funding support	administrators
	Guidance / training materials	• Technical personnel / Scientists
		IT, BCH and data / information
		managers
Mechanism for biosafety informati	on gathering and reporting	
1 1001141110111 101 B10041009 111101111401	Preferred means	Major target groups
Extent of implementation		
·	Education and training	<ul> <li>Government regulators /</li> </ul>
Extent of implementation	<ul><li> Education and training</li><li> Funding support</li></ul>	Government regulators /     administrators
Extent of implementation	<u> </u>	•

Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators /
	Funding support	administrators
	<ul> <li>Technical assistance and advice</li> </ul>	IT, BCH and data / information
		managers
		Other professionals (e.g. lawyers,
		economists, etc.)
Mechanisms for regional coopera		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Decision / policy-makers (e.g.
	Conferences and other fora     Technical assistance and advice	Ministers) • Government regulators /
	- recumed assistance and advice	dovernment regulators /     administrators
		Technical personnel / Scientists
Training in collaboration to be	use and approaches	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Training in collaboration techniq		Major tanget green
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Education and training</li><li>Guidance / training materials</li></ul>	Government regulators /     administrators
	Guidance / training materials     Technical assistance and advice	Technical personnel / Scientists
	roommour assistance and advice	<ul> <li>Other professionals (e.g. lawyers,</li> </ul>
		economists, etc.)
Training in negotiation skills		
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Government regulators /
	Guidance / training materials	administrators
	Technical assistance and advice	• Decision / policy-makers (e.g.
		Ministers)
		Technical personnel / Scientists
Access to information on availabl	e technologies relevant for biosafety	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Conferences and other fora	Government regulators /
	Exchange programmes, internships,	administrators
	study tours, etc.	Technical personnel / Scientists     Graduate and undergraduate
		Graduate and undergraduate students
English and the Control of the Contr	and for to have been also as a first form	oudono
Enabling policy/regulatory frame		Maiantana
Extent of implementation	Preferred means	Major target groups
Minimally addressed	<ul> <li>Education and training</li> <li>Technical assistance and advice</li> </ul>	Government regulators /     administrators
	• reclinical assistance and advice	<ul><li>Decision / policy-makers (e.g.</li></ul>
		Ministers)
		Technical personnel / Scientists
Establishment of technology info	rmation platforms	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	• Technical personnel / Scientists
1101 auai 03364	r anamy support	Technicians (e.g. in the
		laboratories)
	an for technology transfer	
National framework and action of	an for securiology dansier	Major target groups
_	Preferred means	ragor target groups
Extent of implementation	Preferred means  • Funding support	Decision / nolicy-makers (e.g.)
_	Preferred means • Funding support	Decision / policy-makers (e.g. Ministers)
Extent of implementation		Ministers)
		Ministers) • Technical personnel / Scientists
Extent of implementation		Ministers)
Extent of implementation • Not addressed	Funding support	Ministers) • Technical personnel / Scientists • Technicians (e.g. in the
Extent of implementation	Funding support	Ministers) • Technical personnel / Scientists • Technicians (e.g. in the

Not addressed	Technical assistance and advice	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Technical personnel / Scientists</li> </ul>
		Technicians (e.g. in the laboratories)
Laboratory for LMO detection and	analysis	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Technical personnel / Scientists
	<ul> <li>Funding support</li> </ul>	• Technicians (e.g. in the
	<ul> <li>Scholarships / fellowships</li> </ul>	laboratories)
		Graduate and undergraduate students
Guidance on unique identification	systems	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Government regulators /
	Guidance / training materials	administrators
	<ul> <li>Technical assistance and advice</li> </ul>	<ul> <li>Technical personnel / Scientists</li> </ul>
		• Technicians (e.g. in the
		laboratories)
Simple/quick LMO test kits		
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Technical personnel / Scientists
	Education and training  Table in the second se	Customs officials
	Technical assistance and advice	Technicians (e.g. in the
		laboratories)
National system for taking into ac	count socio-economic considerations in decisio	on-making regarding LMOs
Extent of implementation	Preferred means	Major target groups
<ul> <li>Partially addressed</li> </ul>	<ul> <li>Education and training</li> </ul>	<ul> <li>Government regulators /</li> </ul>
	<ul> <li>Funding support</li> </ul>	administrators
		• Other professionals (e.g. lawyers,
		economists, etc.)
		<ul> <li>Interest groups (consumer groups,</li> </ul>
		farmers, NGOs, etc.)
Guidance on taking into account s	ocio-economic considerations in decision-maki	ing concerning LMOs
Guidance on taking into account s	ocio-economic considerations in decision-maki	ing concerning LMOs Major target groups
_		
Extent of implementation	Preferred means	Major target groups  • Government regulators / administrators
Extent of implementation	Preferred means  • Guidance / training materials	<ul><li>Major target groups</li><li>Government regulators / administrators</li><li>Other professionals (e.g. lawyers,</li></ul>
Extent of implementation	Preferred means  • Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Extent of implementation	Preferred means  • Guidance / training materials	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups,</li> </ul>
Extent of implementation  • Not addressed	Preferred means  • Guidance / training materials  • Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Extent of implementation  • Not addressed  Mechanisms for cooperation on re	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Extent of implementation  Not addressed  Mechanisms for cooperation on re	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul> Major target groups
Extent of implementation  • Not addressed  Mechanisms for cooperation on re	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional	<ul> <li>Major target groups</li> <li>Government regulators /         administrators</li> <li>Other professionals (e.g. lawyers,         economists, etc.)</li> <li>Interest groups (consumer groups,         farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> </ul>
Extent of implementation  Not addressed  Mechanisms for cooperation on re	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers,</li> </ul>
Extent of implementation  Not addressed  Mechanisms for cooperation on re	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks  • Exchange programmes, internships,	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul> Major target groups <ul> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Extent of implementation  Not addressed  Mechanisms for cooperation on re	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers,</li> </ul>
<ul> <li>Extent of implementation</li> <li>Not addressed</li> </ul> Mechanisms for cooperation on real extent of implementation <ul> <li>Not addressed</li> </ul>	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks  • Exchange programmes, internships, study tours, etc.  • Scholarships / fellowships	Major target groups Government regulators / administrators Other professionals (e.g. lawyers, economists, etc.) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.) Graduate and undergraduate
<ul> <li>Extent of implementation</li> <li>Not addressed</li> </ul> Mechanisms for cooperation on real extent of implementation <ul> <li>Not addressed</li> </ul>	Preferred means  • Guidance / training materials  • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks  • Exchange programmes, internships, study tours, etc.  • Scholarships / fellowships	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate</li> </ul>
Extent of implementation  Not addressed  Mechanisms for cooperation on re  Extent of implementation  Not addressed  Development of LMO traceability seeparts.	Preferred means  • Guidance / training materials • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks  • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate students</li> </ul>
Extent of implementation  Not addressed  Mechanisms for cooperation on re  Extent of implementation  Not addressed  Development of LMO traceability see Extent of implementation	• Guidance / training materials • Education and training  search on socio-economic impacts of LMOs  Preferred means • Membership with professional bodies / networks • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships  systems  Preferred means • Education and training	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate students</li> </ul> Major target groups
Not addressed  Mechanisms for cooperation on re  Extent of implementation     Not addressed  Development of LMO traceability seems of implementation  Extent of implementation	Preferred means  • Guidance / training materials • Education and training  search on socio-economic impacts of LMOs  Preferred means  • Membership with professional bodies / networks • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships  systems  Preferred means	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate students</li> </ul> Major target groups
<ul> <li>Extent of implementation</li> <li>Not addressed</li> </ul> Mechanisms for cooperation on reaction of implementation <ul> <li>Not addressed</li> </ul> Development of LMO traceability of Extent of implementation <ul> <li>Not addressed</li> </ul>	Preferred means  • Guidance / training materials • Education and training  search on socio-economic impacts of LMOs  Preferred means • Membership with professional bodies / networks • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships  systems  Preferred means • Education and training • Funding support • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate students</li> </ul> Major target groups
Extent of implementation  Not addressed  Mechanisms for cooperation on re Extent of implementation  Not addressed  Development of LMO traceability s Extent of implementation  Not addressed  Establishment of identity preserva	Preferred means  Guidance / training materials Education and training  Preferred means Membership with professional bodies / networks Exchange programmes, internships, study tours, etc. Scholarships / fellowships  Preferred means Education and training Funding support Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>[Not specified]</li> </ul>
Not addressed  Mechanisms for cooperation on re  Extent of implementation     Not addressed  Development of LMO traceability seems to see the second seed.	Preferred means  • Guidance / training materials • Education and training  search on socio-economic impacts of LMOs  Preferred means • Membership with professional bodies / networks • Exchange programmes, internships, study tours, etc. • Scholarships / fellowships  systems  Preferred means • Education and training • Funding support • Technical assistance and advice	<ul> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Graduate and undergraduate students</li> </ul> Major target groups

	Technical assistance and advice	
National system for inspection an	d verification of documentation accompanyin	g LMO shipments
Extent of implementation	Preferred means	Major target groups
<ul> <li>Not addressed</li> </ul>	<ul> <li>Education and training</li> </ul>	<ul> <li>Enforcement officials (e.g. field</li> </ul>
	<ul> <li>Funding support</li> </ul>	inspectors)
	<ul> <li>Technical assistance and advice</li> </ul>	<ul> <li>Customs officials</li> </ul>
		<ul> <li>Government regulators /</li> </ul>
		administrators
National system for managing and	l protecting confidential information	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Government regulators /
	Funding support	administrators
	5 11	Technical personnel / Scientists
		Technicians (e.g. in the
		laboratories)
Training in biosafety record keepi	ng and information cocurity	
		Mains to see to
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training  Colored to the desired	Government regulators /
	Scholarships / fellowships	administrators
		Technical personnel / Scientists
		Graduate and undergraduate students
		students
Guidance on assessment risks of l	LMOs to human health	
Extent of implementation	Preferred means	Major target groups
<ul> <li>Not addressed</li> </ul>	<ul> <li>Education and training</li> </ul>	<ul> <li>Government regulators /</li> </ul>
	<ul> <li>Guidance / training materials</li> </ul>	administrators
	<ul> <li>Technical assistance and advice</li> </ul>	<ul> <li>Technical personnel / Scientists</li> </ul>
		<ul> <li>Technicians (e.g. in the</li> </ul>
		laboratories)
Regulatory framework for address	sing human health impacts of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Decision / policy-makers (e.g.
	Technical assistance and advice	Ministers)
		Government regulators /
		administrators
		Technical personnel / Scientists
		•