



# Capacity Building Needs and Priorities

Record information and	d status
Record ID	102829
Status	Published
Date of creation	2011-11-23 21:29 UTC (andrew.bowers@cbd.int)
Date of last update	2011-11-25 14:25 UTC (andrew.bowers@cbd.int)
Date of publication	2011-11-25 14:25 UTC (andrew.bowers@cbd.int)

#### **General Information**

## Country

• Tonga

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## Areas of capacity building

# Broad areas in which capacity is needed

- · Human resources capacity development and training
- · Risk assessment and other scientific and technical expertise
- · Risk management
- · Public awareness, participation and education in biosafety
- · Information exchange and data management including participation in the Biosafety Clearing-House
- · Scientific, technical and institutional collaboration at subregional, regional and international levels
- · Technology transfer
- · Identification of LMOs, including their detection
- Socio-economic considerations
- Implementation of the documentation requirements under Article 18.2 of the Protocol
- · Handling of confidential information
- Measures to address unintentional and/or illegal transboundary movements of LMOs
- · Scientific biosafety research relating to LMOs
- Taking into account risks to human health

## Needs and priorities

## Specific needs and priorities

## · Development of a national biosafety policy

Extent of implementation

Fully addressed

#### Preferred means

- · Education and training
- Technical assistance and advice

## Major target groups

- Customs officials
- Decision / policy-makers (e.g. Ministers)

		Government regulators /     administrators
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<ul> <li>Development of national biosafety la Extent of implementation</li> </ul>	Preferred means	Major tanget groups
Fully addressed	Technical assistance and advice	Major target groups  • Decision / policy-makers (e.g.
- Tuny dudressed	Education and training	Ministers)
	3	Government regulators /
		administrators
		<ul> <li>Customs officials</li> </ul>
• Guidance on mainstreaming of biosa	fety into other sectors	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Technical assistance and advice	Customs officials
	<ul> <li>Education and training</li> </ul>	• Enforcement officials (e.g. field
		inspectors)
• Development of a national liability as	nd redress regime	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Decision / policy-makers (e.g.
	<ul> <li>Education and training</li> </ul>	Ministers)
	Guidance / training materials	Government regulators /
		administrators
		Customs officials
• Support for implementation of the na	ational biosafety framework	
Extent of implementation	Preferred means	Major target groups
<ul> <li>Minimally addressed</li> </ul>	<ul> <li>Funding support</li> </ul>	Government regulators /
		administrators
		General public
• Streamlining of regulatory systems r	related to biosafety	
Extent of implementation	Preferred means	Major target groups
<ul> <li>Minimally addressed</li> </ul>	<ul> <li>Technical assistance and advice</li> </ul>	Enforcement officials (e.g. field
		inspectors)
		Customs officials
		Decision / policy-makers (e.g.
		Ministers)
<ul> <li>Tools for enforcement of biosafety la</li> </ul>	ws and regulations	
Extent of implementation	Preferred means	Major target groups
<ul> <li>Not addressed</li> </ul>	Funding support	<ul> <li>Enforcement officials (e.g. field</li> </ul>
	Technical assistance and advice	inspectors)
	Technical assistance and advice	• Decision / policy-makers (e.g.
	Technical assistance and advice	Decision / policy-makers (e.g. Ministers)
	Technical assistance and advice	• Decision / policy-makers (e.g.
A. Dovalonment of administrative gyete		<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> </ul>
-	ms for handling applications for import and/o	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators  or release of LMOs
Extent of implementation	ms for handling applications for import and/o	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators  or release of LMOs  Major target groups
	ms for handling applications for import and/o	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs      Major target groups     Customs officials
Extent of implementation	ms for handling applications for import and/o	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators  or release of LMOs  Major target groups
Extent of implementation  • Not addressed	ms for handling applications for import and/o  Preferred means  • Funding support	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs      Major target groups     Customs officials     Government regulators /
Extent of implementation  Not addressed  Mechanisms for inter-institutional contents.	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs      Major target groups     Customs officials     Government regulators / administrators
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional context of implementation</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs      Major target groups     Customs officials     Government regulators / administrators  Major target groups
Extent of implementation  Not addressed  Mechanisms for inter-institutional contents.	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs     Major target groups     Customs officials     Government regulators / administrators  Major target groups     Technical personnel / Scientists
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional context of implementation</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs     Major target groups     Customs officials     Government regulators / administrators  Major target groups     Technical personnel / Scientists     Decision / policy-makers (e.g.
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional context of implementation</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs     Major target groups     Customs officials     Government regulators / administrators  Major target groups     Technical personnel / Scientists
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional context of implementation</li> <li>Partially addressed</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means  • Funding support	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs      Major target groups     Customs officials     Government regulators / administrators      Major target groups     Technical personnel / Scientists     Decision / policy-makers (e.g. Ministers)     Customs officials
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional content of implementation</li> <li>Partially addressed</li> <li>Mechanism for coordination among and accordination among and accordination.</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means  • Funding support	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs     Major target groups     Customs officials     Government regulators / administrators  Major target groups     Technical personnel / Scientists     Decision / policy-makers (e.g. Ministers)     Customs officials
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional content of implementation</li> <li>Partially addressed</li> <li>Mechanism for coordination among the Extent of implementation</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means  • Funding support  national regulatory authorities and processes  Preferred means	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs     Major target groups     Customs officials     Government regulators / administrators  Major target groups     Technical personnel / Scientists     Decision / policy-makers (e.g. Ministers)     Customs officials  Major target groups
<ul> <li>Extent of implementation</li> <li>Not addressed</li> <li>Mechanisms for inter-institutional content of implementation</li> <li>Partially addressed</li> <li>Mechanism for coordination among and accordination among and accordination among and accordination among accordination among accordination.</li> </ul>	ms for handling applications for import and/o  Preferred means  • Funding support  ommunication  Preferred means  • Funding support	Decision / policy-makers (e.g. Ministers)     Government regulators / administrators      release of LMOs     Major target groups     Customs officials     Government regulators / administrators  Major target groups     Technical personnel / Scientists     Decision / policy-makers (e.g. Ministers)     Customs officials

vetem for magament of records re	elated to LMO import applications and decisions	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Decision / policy-makers (e.g.
1100 aaa10000a	Technical assistance and advice	Ministers)
		Government regulators /
		administrators
System for decision-making on LM	Os (procedures and guidelines)	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Decision / policy-makers (e.g.
	<ul> <li>Technical assistance and advice</li> </ul>	Ministers)
		Customs officials
		Interest groups (consumer groups,  formers, NCOs, etc.)
		farmers, NGOs, etc.)
Biosafety research facilities (e.g. g		
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Government regulators /     administrators
		<ul><li> Technicians (e.g. in the laboratories)</li></ul>
Internet connectivity		(3.9. 11 110 110 110 110 110 110 110 110 110
Extent of implementation	Preferred means	Major target groups
Fully addressed	Funding support	General public
- Tuny dudressed	Exchange programmes, internships,	Mass media / extension workers
	study tours, etc.	IT, BCH and data / information
	Membership with professional bodies	managers
	/ networks	
Office facilities, equipment and su	pplies for biosafety work	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	Government regulators /
		administrators
Telecommunication facilities (e.g.	telephone, fax, e-mail)	
Telecommunication facilities (e.g.  Extent of implementation	<b>telephone, fax, e-mail)</b> Preferred means	Major target groups
_		Major target groups  • Government regulators /
Extent of implementation	Preferred means	
Extent of implementation	Preferred means	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g.</li> </ul>
Extent of implementation	Preferred means	Government regulators /     administrators
Extent of implementation	Preferred means • Funding support	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g.</li> </ul>
Extent of implementation  • Adequately addressed  Access to information on available  Extent of implementation	Preferred means • Funding support  funding sources  Preferred means	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups
Extent of implementation  • Adequately addressed  Access to information on available	Preferred means • Funding support  funding sources	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information
Extent of implementation  • Adequately addressed  Access to information on available  Extent of implementation	Preferred means • Funding support  funding sources  Preferred means	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers
Extent of implementation  • Adequately addressed  Access to information on available  Extent of implementation	Preferred means • Funding support  funding sources  Preferred means	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers     Government regulators /
Extent of implementation  • Adequately addressed  Access to information on available  Extent of implementation  • Partially addressed	Preferred means  • Funding support  funding sources  Preferred means  • Funding support	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers
Extent of implementation  • Adequately addressed  Access to information on available  Extent of implementation  • Partially addressed  Budgeting and financial managem	Preferred means  • Funding support  funding sources  Preferred means  • Funding support	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Government regulators / administrators</li> </ul>
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation	Preferred means  • Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers     Government regulators / administrators  Major target groups
Extent of implementation  • Adequately addressed  Access to information on available  Extent of implementation  • Partially addressed  Budgeting and financial managem	Preferred means  • Funding support  funding sources  Preferred means  • Funding support	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers     Government regulators / administrators  Major target groups     Government regulators /
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation	Preferred means  • Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> </ul>
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation	Preferred means  • Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers     Government regulators / administrators  Major target groups     Government regulators /
Extent of implementation  Adequately addressed  Access to information on available Extent of implementation  Partially addressed  Budgeting and financial managem Extent of implementation  Fully addressed	Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means  • Technical assistance and advice	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers     Government regulators / administrators  Major target groups     Government regulators / administrators  Other professionals (e.g. lawyers,
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation  • Fully addressed	Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means  • Technical assistance and advice  ding project proposal writing)	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation  • Fully addressed  Resource mobilisation skills (inclusive Extent of implementation	Preferred means  • Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means  • Technical assistance and advice  ding project proposal writing)  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> </ul>
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation  • Fully addressed  Resource mobilisation skills (included)	Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means  • Technical assistance and advice  ding project proposal writing)  Preferred means  • Membership with professional bodies	Government regulators / administrators     Decision / policy-makers (e.g. Ministers)  Major target groups     IT, BCH and data / information managers     Government regulators / administrators  Major target groups     Government regulators / administrators  Other professionals (e.g. lawyers, economists, etc.)  Major target groups     Decision / policy-makers (e.g.
Extent of implementation  • Adequately addressed  Access to information on available Extent of implementation  • Partially addressed  Budgeting and financial managem Extent of implementation  • Fully addressed  Resource mobilisation skills (inclusive Extent of implementation	Preferred means  • Funding support  funding sources  Preferred means  • Funding support  ent skills  Preferred means  • Technical assistance and advice  ding project proposal writing)  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Government regulators / administrators</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> <li>Major target groups</li> </ul>

	tent of implementation	Preferred means	Major target groups
•	Not addressed	Funding support	Government regulators /
		<ul><li>Education and training</li><li>Technical assistance and advice</li></ul>	administrators
Sys	tem for tracking and dealing with	unintentional or illegal transboundary moveme	ents
	xtent of implementation	Preferred means	Major target groups
•	Not addressed	Funding support	Decision / policy-makers (e.g.
		Education and training	Ministers)
			<ul><li>Customs officials</li><li>Interest groups (consumer groups,</li></ul>
			farmers, NGOs, etc.)
			14111010, 11000, 0001,
	chanism for inspections and enfor	·	
	extent of implementation	Preferred means	Major target groups
•	Minimally addressed	Funding support	Decision / policy-makers (e.g.  Ministers)
			Ministers) • Government regulators /
			administrators
			Enforcement officials (e.g. field)
			inspectors)
Sve	tem for post-release monitoring o	of LMOs	
-	extent of implementation	Preferred means	Major target groups
	Minimally addressed	Funding support	Technical personnel / Scientists
			Customs officials
		- d	
	_	ademic training programmes in biosafety	
	tent of implementation	Preferred means	Major target groups
•	Adequately addressed	<ul><li>Conferences and other fora</li><li>Membership with professional bodies</li></ul>	<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
		/ networks	Graduate and undergraduate
		Funding support	students
		J. FFF	Customs officials
100	ose to biosafoty training material	6	
	ess to biosafety training material		Major target groups
Ex	xtent of implementation	Preferred means	Major target groups
Ex	•	Preferred means • Funding support	Technical personnel / Scientists
Ex	xtent of implementation	Preferred means  • Funding support  • Guidance / training materials	
Ex	xtent of implementation	Preferred means • Funding support	<ul><li>Technical personnel / Scientists</li><li>Technicians (e.g. in the laboratories)</li></ul>
<i>Ex.</i>	ctent of implementation  Adequately addressed	<ul> <li>Preferred means</li> <li>Funding support</li> <li>Guidance / training materials</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>
Ex.	Adequately addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul>
Acc Ex	Adequately addressed  seess to information on staff exchangement of implementation	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups
Acc Ex	Adequately addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships,	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul>
Acc Ex	Adequately addressed  seess to information on staff exchangement of implementation	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators /</li> </ul>
Acc Ex	Adequately addressed  seess to information on staff exchangement of implementation  Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  • Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> </ul>
Acc Ex	Adequately addressed  sess to information on staff exchangementation  Minimally addressed  ining in biosafety legislation and	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Customs officials</li> </ul>
Acc Ex •	Adequately addressed  sess to information on staff exchangement of implementation  Minimally addressed  ining in biosafety legislation and actent of implementation	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Customs officials</li> </ul> Major target groups
Acc Ex •	Adequately addressed  sess to information on staff exchangementation  Minimally addressed  ining in biosafety legislation and	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators /</li> </ul>
Acc Ex •	Adequately addressed  sess to information on staff exchangement of implementation  Minimally addressed  ining in biosafety legislation and actent of implementation	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> </ul>
Acc Ex •	Adequately addressed  sess to information on staff exchangement of implementation  Minimally addressed  ining in biosafety legislation and actent of implementation	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators /</li> </ul>
Acce Ex.  Trai	Adequately addressed  sess to information on staff exchangementation Minimally addressed  ining in biosafety legislation and extent of implementation Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  nge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field</li> </ul>
Acconstraints   Traints   The Traints   Traints   The Traints   Th	Adequately addressed  sess to information on staff exchangementation  Minimally addressed  ining in biosafety legislation and attent of implementation  Minimally addressed  ining in biosafety legislation and attent of implementation  Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul>
Acce Ex  Trai Ex  Trai	Adequately addressed  sess to information on staff exchange and the standard and the standa	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  • Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</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>
Acce Ex  Trai Ex  Trai	Adequately addressed  sess to information on staff exchangementation  Minimally addressed  ining in biosafety legislation and attent of implementation  Minimally addressed  ining in biosafety legislation and attent of implementation  Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</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>
Acce Ex  Trai Ex  Trai	Adequately addressed  sess to information on staff exchange and the standard and the standa	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  • Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</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>Customs officials</li> </ul>
Acce Ex  Trai Ex  Trai	Adequately addressed  sess to information on staff exchange and the standard and the standa	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  • Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training  • Education and training	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul> Major target groups <ul> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Interest groups (consumer groups,</li> </ul>
Acce Exx  Trai Ex  Trai	Adequately addressed  Sess to information on staff exchangementation  Minimally addressed  Sining in biosafety legislation and extent of implementation  Minimally addressed  Sining in scientific and technical fixtent of implementation  Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training  elds relevant to biosafety  Preferred means  • Funding support	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>Customs officials</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>Customs officials</li> </ul>
Acce Ex.  Train Exx.  Train Train Exx.	Adequately addressed  Seess to information on staff exchange tent of implementation  Minimally addressed  Sining in biosafety legislation and extent of implementation  Minimally addressed  Sining in scientific and technical first tent of implementation  Minimally addressed  Sining in scientific and technical first tent of implementation  Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  • Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training  elds relevant to biosafety  Preferred means  • Funding support	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul> Major target groups <ul> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Acce Ex  Trai Ex  Trai Ex	Adequately addressed  Sess to information on staff exchangementation  Minimally addressed  Sining in biosafety legislation and extent of implementation  Minimally addressed  Sining in scientific and technical fixtent of implementation  Minimally addressed	Preferred means  • Funding support  • Guidance / training materials  • Exchange programmes, internships, study tours, etc.  Inge/on-the-job-training opportunities  Preferred means  • Exchange programmes, internships, study tours, etc.  • Education and training  policy development and practice  Preferred means  • Education and training  elds relevant to biosafety  Preferred means  • Funding support	<ul> <li>Technical personnel / Scientists</li> <li>Technicians (e.g. in the laboratories)</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Customs officials</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> <li>Enforcement officials (e.g. field inspectors)</li> </ul> Major target groups <ul> <li>Technical personnel / Scientists</li> <li>Customs officials</li> <li>Interest groups (consumer groups,</li> </ul>

		administrators
		<ul> <li>Other professionals (e.g. lawyers,</li> </ul>
		economists, etc.)
		• Interest groups (consumer groups, farmers, NGOs, etc.)
Training in basics of biosafety and mo	odern biotechnology	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Funding support</li> </ul>	<ul> <li>Interest groups (consumer groups,</li> </ul>
	Guidance / training materials	farmers, NGOs, etc.)
		<ul><li>Customs officials</li><li>Technicians (e.g. in the laboratories</li></ul>
		• reclinicians (e.g. in the laboratories
Training in risk assessment		
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Customs officials
		<ul><li>Technicians (e.g. in the laboratories</li><li>Interest groups (consumer groups,</li></ul>
		farmers, NGOs, etc.)
Training in risk management		
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Customs officials
	Guidance / training materials	• Technicians (e.g. in the laboratories
		• Interest groups (consumer groups,
		farmers, NGOs, etc.)
Training in biosafety regulatory issue	s	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Government regulators /
		administrators
		<ul> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Training in biosafety communication		
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	IT, BCH and data / information
		managers
		<ul> <li>Mass media / extension workers</li> </ul>
Training in LMO sampling and detect	ion	
Extent of implementation	Preferred means	Major target groups
	T 1'	
<ul> <li>Not addressed</li> </ul>	<ul> <li>Funding support</li> </ul>	<ul> <li>Customs officials</li> </ul>
Not addressed	Funding support	• Technicians (e.g. in the laboratories
Not addressed	Funding support	<ul><li>Technicians (e.g. in the laboratories</li><li>Graduate and undergraduate</li></ul>
	U 11	• Technicians (e.g. in the laboratories
Training in post-release monitoring o	f LMOs	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> </ul>
<b>Training in post-release monitoring o</b> Extent of implementation	<b>f LMOs</b> Preferred means	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> </ul> Major target groups
Training in post-release monitoring o	f LMOs	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> </ul> Major target groups <ul> <li>Customs officials</li> </ul>
<b>Training in post-release monitoring o</b> Extent of implementation	<b>f LMOs</b> Preferred means	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> </ul>
<b>Training in post-release monitoring o</b> Extent of implementation	<b>f LMOs</b> Preferred means	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> </ul> Major target groups <ul> <li>Customs officials</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed	<b>f LMOs</b> Preferred means	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups,</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed	<b>f LMOs</b> Preferred means	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups,</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed  Biosafety research	f LMOs  Preferred means  • Funding support	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed  Biosafety research  Extent of implementation	f LMOs  Preferred means  • Funding support  Preferred means	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed  Biosafety research  Extent of implementation	f LMOs  Preferred means  • Funding support  Preferred means  • Funding support	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed  Biosafety research  Extent of implementation	f LMOs  Preferred means  Funding support  Preferred means  Funding support  Education and training	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups,</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed  Biosafety research Extent of implementation  Not addressed  Training in administrative practices for the second	f LMOs  Preferred means  Funding support  Preferred means  Funding support  Education and training  Technical assistance and advice  For handling LMO import and release applications	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Customs officials</li> </ul>
Training in post-release monitoring of Extent of implementation  Not addressed  Biosafety research Extent of implementation  Not addressed	Funding support  Preferred means  Funding support  Preferred means  Funding support  Education and training  Technical assistance and advice	<ul> <li>Technicians (e.g. in the laboratories</li> <li>Graduate and undergraduate students</li> <li>Major target groups</li> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Major target groups</li> <li>Technicians (e.g. in the laboratories</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>Customs officials</li> </ul>

Fraining in preparation and presen	tation of LMO export or release applications/d	Technical personnel / Scientists  ossiers
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Technical personnel / Scientists
		<ul> <li>Customs officials</li> </ul>
		<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Training in socio-economic conside	erations relating to LMOs	
Extent of implementation	Preferred means	Major target groups
• [Not specified]	Funding support	<ul><li>Customs officials</li><li>Interest groups (consumer groups, farmers, NGOs, etc.)</li></ul>
Training in cost/benefit analysis as	part of the risk management strategy	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Funding support</li><li>Education and training</li></ul>	<ul> <li>Technical personnel / Scientists</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
		<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Fraining in documentation and ide	ntification requirements for LMO shipments	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Customs officials
	<ul><li>Technical assistance and advice</li><li>Education and training</li></ul>	Technicians (e.g. in the laboratories)
Training in compliance requiremen	ts under the Protocol	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Government regulators /
	Technical assistance and advice     Education and training	administrators
	Education and training	<ul> <li>Customs officials</li> </ul>
		<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Training in liability and redress iss	ues under the Protocol	Interest groups (consumer groups, farmers, NGOs, etc.)
Training in liability and redress iss  Extent of implementation	ues under the Protocol  Preferred means	
-		farmers, NGOs, etc.)
Extent of implementation	Preferred means	farmers, NGOs, etc.)  Major target groups  • Customs officials
Extent of implementation	Preferred means	farmers, NGOs, etc.)  Major target groups  • Customs officials
Extent of implementation	Preferred means • Funding support	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups,
Extent of implementation  Not addressed  Guidance on other international agentation	Preferred means • Funding support  reements relevant to biosafety  Preferred means	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups
Extent of implementation  Not addressed  Guidance on other international ag	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators /
Extent of implementation  Not addressed  Guidance on other international agentation	Preferred means • Funding support  reements relevant to biosafety  Preferred means	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators
Extent of implementation  Not addressed  Guidance on other international agentation	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators /
Extent of implementation  Not addressed  Guidance on other international agentation	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups,
Extent of implementation  Not addressed  Guidance on other international ag Extent of implementation  Minimally addressed  Access to basic ecological data to s Extent of implementation	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups
Extent of implementation  Not addressed  Guidance on other international ag  Extent of implementation  Minimally addressed  Access to basic ecological data to s	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means  • Education and training	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups IT, BCH and data / information
Extent of implementation  Not addressed  Guidance on other international ag Extent of implementation  Minimally addressed  Access to basic ecological data to s Extent of implementation	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups IT, BCH and data / information managers
Extent of implementation  Not addressed  Guidance on other international ag Extent of implementation  Minimally addressed  Access to basic ecological data to s Extent of implementation	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means  • Education and training  • Guidance / training materials	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories
Extent of implementation  Not addressed  Guidance on other international agentation Extent of implementation  Minimally addressed  Access to basic ecological data to sent acceptance of implementation  Extent of implementation  Minimally addressed	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means  • Education and training  • Guidance / training materials	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories)
Extent of implementation  Not addressed  Guidance on other international ag  Extent of implementation  Minimally addressed  Access to basic ecological data to s  Extent of implementation  Minimally addressed	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means  • Education and training  • Guidance / training materials  pects of risk assessment	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories) Customs officials
Extent of implementation  Not addressed  Guidance on other international age Extent of implementation  Minimally addressed  Access to basic ecological data to see Extent of implementation  Minimally addressed  Guidance documents on specific as Extent of implementation	Preferred means  • Funding support  reements relevant to biosafety  Preferred means  • Funding support  • Guidance / training materials  upport risk assessments  Preferred means  • Education and training  • Guidance / training materials  pects of risk assessment  Preferred means	farmers, NGOs, etc.)  Major target groups  Customs officials Technicians (e.g. in the laboratories) Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups Government regulators / administrators Interest groups (consumer groups, farmers, NGOs, etc.)  Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories) Customs officials

Extent of implementation	Preferred means	Major target groups
Not addressed	<ul><li>Funding support</li><li>Technical assistance and advice</li></ul>	<ul><li>Customs officials</li><li>Technicians (e.g. in the laboratories)</li><li>Graduate and undergraduate</li></ul>
		students
National risk management system/	strategy	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Decision / policy-makers (e.g.
	<ul> <li>Technical assistance and advice</li> </ul>	Ministers)
		Government regulators /
		<ul><li>administrators</li><li>Other professionals (e.g. lawyers,</li></ul>
		economists, etc.)
	and the standard stan	00011011111000, 0001,
· ·	respond to unintentional LMO releases	Maior toward warms
Extent of implementation  • Not addressed	Preferred means • Funding support	<ul><li>Major target groups</li><li>Government regulators /</li></ul>
Not dudressed	Technical assistance and advice	administrators
	Toomson apploanted and advice	Customs officials
		• Interest groups (consumer groups,
		farmers, NGOs, etc.)
Guidance on different risk manage	ment measures	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Customs officials
	<ul> <li>Exchange programmes, internships,</li> </ul>	
	study tours, etc.	
Mechanisms for cooperation in risk	s management	
Extent of implementation	Preferred means	Major target groups
Not addressed	<ul> <li>Membership with professional bodies</li> </ul>	Customs officials
	/ networks	<ul> <li>Other professionals (e.g. lawyers,</li> </ul>
	Exchange programmes, internships,	economists, etc.)
	study tours, etc.  • Technical assistance and advice	
National framework/system for pos	_	Maior townst success
Extent of implementation     Minimally addressed	Preferred means • Funding support	<ul><li>Major target groups</li><li>Government regulators /</li></ul>
- Minimally dudlessed	· I unumg support	administrators
		Customs officials
Tools and methodologies for enviro	nmental monitoring of LMOs	
10015 and methodologies for enviro	illiental monitoring of LP105	
_	Preferred means	Major target groups
Extent of implementation  Not addressed	Preferred means  • Education and training	Major target groups • Customs officials
Extent of implementation	Preferred means  Education and training  Guidance / training materials	Customs officials
Extent of implementation  Not addressed	Education and training	Customs officials
Extent of implementation • Not addressed  Biosafety awareness materials	<ul><li>Education and training</li><li>Guidance / training materials</li></ul>	<ul><li>Customs officials</li><li>Technicians (e.g. in the laboratories)</li></ul>
Extent of implementation • Not addressed  Biosafety awareness materials  Extent of implementation	<ul> <li>Education and training</li> <li>Guidance / training materials</li> </ul> Preferred means	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> </ul> Major target groups
Extent of implementation • Not addressed  Biosafety awareness materials	<ul><li>Education and training</li><li>Guidance / training materials</li></ul>	<ul><li>Customs officials</li><li>Technicians (e.g. in the laboratories)</li></ul>
Extent of implementation • Not addressed  Biosafety awareness materials  Extent of implementation	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Preferred means</li> <li>Funding support</li> </ul>	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information</li> </ul>
Extent of implementation • Not addressed  Biosafety awareness materials  Extent of implementation	<ul> <li>Education and training</li> <li>Guidance / training materials</li> <li>Preferred means</li> <li>Funding support</li> </ul>	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> </ul> Preferred means <ul> <li>Funding support</li> <li>Guidance / training materials</li> </ul>	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> </ul> Preferred means <ul> <li>Funding support</li> <li>Guidance / training materials</li> </ul>	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed  Biosafety awareness and education	Education and training     Guidance / training materials  Preferred means     Funding support     Guidance / training materials  programmes	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> </ul> Major target groups <ul> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>General public</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed  Biosafety awareness and education  Extent of implementation	Education and training     Guidance / training materials  Preferred means     Funding support     Guidance / training materials  programmes  Preferred means	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>General public</li> <li>Major target groups</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed  Biosafety awareness and education  Extent of implementation	Education and training     Guidance / training materials  Preferred means     Funding support     Guidance / training materials  programmes  Preferred means	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>General public</li> <li>Major target groups</li> <li>Customs officials</li> <li>Government regulators / administrators</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed  Biosafety awareness and education  Extent of implementation	Education and training     Guidance / training materials  Preferred means     Funding support     Guidance / training materials  programmes  Preferred means	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>General public</li> <li>Major target groups</li> <li>Customs officials</li> <li>Government regulators / administrators</li> <li>Interest groups (consumer groups,</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed  Biosafety awareness and education  Extent of implementation	Education and training     Guidance / training materials  Preferred means     Funding support     Guidance / training materials  programmes  Preferred means	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>General public</li> <li>Major target groups</li> <li>Customs officials</li> <li>Government regulators / administrators</li> </ul>
Extent of implementation  Not addressed  Biosafety awareness materials  Extent of implementation  Minimally addressed  Biosafety awareness and education  Extent of implementation	Education and training     Guidance / training materials  Preferred means     Funding support     Guidance / training materials  programmes  Preferred means     Funding support	<ul> <li>Customs officials</li> <li>Technicians (e.g. in the laboratories)</li> <li>Major target groups</li> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>General public</li> <li>Major target groups</li> <li>Customs officials</li> <li>Government regulators / administrators</li> <li>Interest groups (consumer groups,</li> </ul>

	• Not addressed	Funding support	<ul> <li>Government regulators / administrators</li> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
F	acilities for public access to biosafety	information and means of access to the B	iosafety Clearing-House
	Extent of implementation	Preferred means	Major target groups
	Not addressed	Funding support	<ul> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
N	ational biosafety website		
	Extent of implementation	Preferred means	Major target groups
•	• Minimally addressed	Funding support	<ul> <li>Government regulators /         administrators</li> <li>IT, BCH and data / information         managers</li> <li>Graduate and undergraduate         students</li> </ul>
• B	iosafety outreach strategy/ communic	ation plan	
	Extent of implementation	Preferred means	Major target groups
•	Not addressed	<ul><li>Funding support</li><li>Technical assistance and advice</li></ul>	Government regulators /     administrators     IT, BCH and data / information     managers
• T	raining in risk-communication		
	Extent of implementation	Preferred means	Major target groups
	Not addressed	<ul><li>Funding support</li><li>Guidance / training materials</li></ul>	<ul> <li>IT, BCH and data / information managers</li> <li>Mass media / extension workers</li> <li>Customs officials</li> </ul>
• 5	ystems for public participation in bios	afety	
	Extent of implementation	Preferred means	Major target groups
	• Minimally addressed	<ul><li>Funding support</li><li>Education and training</li></ul>	<ul> <li>Customs officials</li> <li>IT, BCH and data / information managers</li> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
• N	ational system (policy, procedures and	l mechanisms) for biosafety information n	nanagement
	Extent of implementation	Preferred means	Major target groups
	Not addressed	Technical assistance and advice     Funding support	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> </ul>
• E	quipment (hardware and software) to	facilitate national participation in the BC	н
	Extent of implementation	Preferred means	Major target groups
	• Minimally addressed	Funding support	<ul> <li>IT, BCH and data / information managers</li> <li>Government regulators / administrators</li> </ul>
	stablishment of national biosafety data	abases	
• E			
	Extent of implementation	Preferred means	Major target groups

		Technical assistance and advice	administrators  IT, BCH and data / information managers  Other professionals (e.g. lawyers, economists, etc.)
	Interoperability with the BCH central por	rtal	
-			Maiontonaton
	Extent of implementation	Preferred means	Major target groups
	Partially addressed	<ul> <li>Education and training</li> <li>Guidance / training materials</li> </ul>	<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> <li>IT, BCH and data / information managers</li> <li>General public</li> </ul>
	Non-Internet access to the BCH		
	Extent of implementation	Preferred means	Major target groups
	Minimally addressed	Education and training	General public
	• Minimany addressed	• Education and training	Interest groups (consumer groups, farmers, NGOs, etc.)
•	Systems for data and information securit	y and back-up	
	Extent of implementation	Preferred means	Major target groups
	Not addressed	Education and training	Government regulators /
		Exchange programmes, internships,	administrators
		study tours, etc.	IT, BCH and data / information managers
•	Systems for data validation and quality of	ontrol	
	Extent of implementation	Preferred means	Major target groups
	Not addressed	Funding support	Government regulators /
			administrators
			<ul> <li>IT, BCH and data / information</li> </ul>
			managers
			<ul> <li>Technical personnel / Scientists</li> </ul>
	Mechanism for biosafety information gat	hering and reporting	
	Extent of implementation	Preferred means	Major target groups
	Minimally addressed	Funding support	IT, BCH and data / information
	• Minimally addressed	Membership with professional bodies	managers
		/ networks	Mass media / extension workers
		,	Table mean, enconcier werners
•	Training in the use and management of t		
	Extent of implementation	Preferred means	Major target groups
	Adequately addressed	Funding support	IT, BCH and data / information
		Education and training	managers
			<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
•	Mechanisms for regional cooperation		
	Extent of implementation	Preferred means	Major target groups
	Minimally addressed	Conferences and other fora	Government regulators /
		<ul> <li>Membership with professional bodies</li> </ul>	administrators
		/ networks	<ul> <li>Technical personnel / Scientists</li> <li>IT, BCH and data / information managers</li> </ul>
	Training in collaboration techniques and	approaches	
	Extent of implementation	Preferred means	Major target groups
	Minimally addressed	Funding support	Government regulators /     administrators
	Training in negotiation skills		ddiminos deolo
	Extent of implementation	Preferred means	Major target groups
	Not addressed	Funding support	Government regulators /
		<ul> <li>Technical assistance and advice</li> </ul>	administrators

Access to information on available	technologies relevant for biosafety	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	<ul> <li>Membership with professional bodies / networks</li> </ul>	IT, BCH and data / information managers
	<ul> <li>Exchange programmes, internships,</li> </ul>	Mass media / extension workers
	study tours, etc.	<ul> <li>Interest groups (consumer groups, farmers, NGOs, etc.)</li> </ul>
Enabling policy/regulatory framew	ork for technology transfer	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Government regulators / administrators</li> </ul>
Establishment of technology infor	mation platforms	
<del></del>		Major tanget groups
• Not addressed	Preferred means	Major target groups
• Not addressed	Funding support	<ul> <li>Government regulators / administrators</li> <li>IT, BCH and data / information managers</li> </ul>
National framework and action pla	nn for technology transfer	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Government regulators /     administrators
Public-private partnerships for te	chnology development	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	<ul> <li>Other professionals (e.g. lawyers,</li> </ul>
		economists, etc.)
		Government regulators /
		<ul><li>administrators</li><li>Interest groups (consumer groups,</li></ul>
		farmers, NGOs, etc.)
Laboratory for LMO detection and	analysis	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Technicians (e.g. in the laboratories)
1000 dad10000d	r unumy support	Customs officials
		Technical personnel / Scientists
Guidance on unique identification	systems	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	Government regulators /
	Funding support	administrators
	Guidance / training materials	Customs officials
		Technicians (e.g. in the laboratories)
Simple/quick LMO test kits		
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	Customs officials
		• Technicians (e.g. in the laboratories)
National system for taking into ac	count socio-economic considerations in decision-	making regarding LMOs
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Technical assistance and advice	Other professionals (e.g. lawyers,
	<ul> <li>Funding support</li> </ul>	economists, etc.)
		Government regulators /
		administrators
		<ul> <li>Decision / policy-makers (e.g. Ministers)</li> </ul>
Guidance on taking into account s	ocio-economic considerations in decision-making	
_	_	_
Extent of implementation	Preferred means	Major target groups

Minimally addressed	Education and training	<ul> <li>Decision / policy-makers (e.g. Ministers)</li> <li>Other professionals (e.g. lawyers, economists, etc.)</li> </ul>
Mechanisms for cooperation on re	esearch on socio-economic impacts of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	<ul><li>Other professionals (e.g. lawyers, economists, etc.)</li><li>Customs officials</li></ul>
Development of LMO traceability	systems	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	∘ [Not specified]
Establishment of identity preserva	ation systems	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	• [Not specified]
	Education and training	
National system for inspection an	d verification of documentation accompanying l	LMO shipments
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	· [Not specified]
	<ul> <li>Technical assistance and advice</li> </ul>	
National system for managing and	l protecting confidential information	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Decision / policy-makers (e.g.
	<ul> <li>Funding support</li> </ul>	Ministers)
		<ul> <li>Government regulators / administrators</li> </ul>
Training in biosafety record keepi	ng and information security	
Training in biosafety record keepi Extent of implementation	ng and information security  Preferred means	Major target groups
		Major target groups  • Government regulators /
Extent of implementation	Preferred means	
Extent of implementation	Preferred means  • Funding support	<ul><li>Government regulators / administrators</li><li>Customs officials</li></ul>
Extent of implementation	Preferred means  • Funding support	<ul> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>IT, BCH and data / information</li> </ul>
Extent of implementation	Preferred means  • Funding support	<ul><li>Government regulators / administrators</li><li>Customs officials</li></ul>
Extent of implementation  • Not addressed	Preferred means  • Funding support  • Education and training	<ul> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>IT, BCH and data / information</li> </ul>
Extent of implementation  Not addressed  Guidance on assessment risks of I  Extent of implementation	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>IT, BCH and data / information managers</li> </ul> Major target groups
Extent of implementation  • Not addressed  Guidance on assessment risks of I	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means  • Funding support	Output  Government regulators / administrators  Customs officials  IT, BCH and data / information managers  Major target groups Government regulators /
Extent of implementation  Not addressed  Guidance on assessment risks of I  Extent of implementation	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means	<ul> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>IT, BCH and data / information managers</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> </ul>
Extent of implementation  Not addressed  Guidance on assessment risks of I  Extent of implementation	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means  • Funding support	Government regulators / administrators     Customs officials     IT, BCH and data / information managers  Major target groups     Government regulators /
Extent of implementation  Not addressed  Guidance on assessment risks of I  Extent of implementation  Not addressed	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means  • Funding support	<ul> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>IT, BCH and data / information managers</li> </ul> Major target groups <ul> <li>Government regulators / administrators</li> </ul>
Extent of implementation  Not addressed  Guidance on assessment risks of I  Extent of implementation  Not addressed  Regulatory framework for address  Extent of implementation	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means  • Funding support  • Education and training  Sing human health impacts of LMOs  Preferred means	Government regulators / administrators     Customs officials     IT, BCH and data / information managers      Major target groups     Government regulators / administrators     General public  Major target groups
Extent of implementation  Not addressed  Guidance on assessment risks of I  Extent of implementation  Not addressed  Regulatory framework for address	Preferred means  • Funding support  • Education and training  LMOs to human health  Preferred means  • Funding support  • Education and training  sing human health impacts of LMOs	<ul> <li>Government regulators / administrators</li> <li>Customs officials</li> <li>IT, BCH and data / information managers</li> <li>Major target groups</li> <li>Government regulators / administrators</li> <li>General public</li> </ul>