

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

• Fully addressed

Preferred means

· Conferences and other fora

Major target groups

- Decision / policy-makers (e.g. Ministers)
- IT, BCH and data / information managers
- Government regulators / administrators

Development of national biosafety laws and regulations

Extent of implementation
• Adequately addressed

Preferred means

Conferences and other fora

Major target groups

- Technical personnel / Scientists
- · Customs officials
- Other professionals (e.g. lawyers, economists, etc.)

· Guidance on mainstreaming of biosafety into other sectors

Extent of implementation

Preferred means

· Partially addressed

· Conferences and other fora

Major target groups

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

· Development of a national liability and redress regime

 $Extent\ of\ implementation$

Preferred means

Adequately addressed

· Conferences and other fora

Major target groups

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

· Support for implementation of the national biosafety framework

Extent of implementation

Preferred means

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

Major target groups

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

Adequately addressed

Streamlining of regulatory system	s related to biosafety	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	 Conferences and other fora 	Government regulators /
		administrators
		Technicians (e.g. in the laboratories) Technical personnel / Scientists
		Technical personnel / Scientists
Tools for enforcement of biosafety	_	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Exchange programmes, internships,	Decision / policy-makers (e.g.
	study tours, etc.Guidance / training materials	Ministers) • Government regulators /
	Technical assistance and advice	administrators
	reeninear assistance and advice	Customs officials
Dovalonment of administrative sys	stems for handling applications for import and/or	ralesce of LMOs
Extent of implementation	Preferred means	
Adequately addressed	Education and training	Major target groups • Government regulators /
racquatery addressed	Guidance / training materials	administrators
	Conferences and other fora	Technical personnel / Scientists
		Customs officials
Mechanisms for inter-institutional	Communication	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Conferences and other fora	Government regulators /
1		administrators
		Technical personnel / Scientists
Mechanism for coordination amon	g national regulatory authorities and processes	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Conferences and other fora	Government regulators /
1	Technical assistance and advice	administrators
		 Technical personnel / Scientists
		 Customs officials
System for magement of records r	elated to LMO import applications and decisions	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	IT, BCH and data / information
	 Exchange programmes, internships, 	managers
	study tours, etc.	 Government regulators /
	 Guidance / training materials 	administrators
		Customs officials
System for decision-making on LM	Os (procedures and guidelines)	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Conferences and other fora	• Technicians (e.g. in the laboratories)
	Technical assistance and advice	Technical personnel / Scientists
		Interest groups (consumer groups, formers, NCOs, etc.)
		farmers, NGOs, etc.)
Access to information communica		
Extent of implementation	Preferred means	Major target groups
Adequately addressed	 Conferences and other fora 	• Technicians (e.g. in the laboratories)
		Technical personnel / Scientists Congrel public
		General public
Biosafety research facilities (e.g. g	greenhouses)	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	• Exchange programmes, internships,	• Technicians (e.g. in the laboratories)
	study tours, etc.	Technical personnel / Scientists
	Guidance / training materials Tochnical assistance and advice	
	Technical assistance and advice	
Internet connectivity		
Extent of implementation		

Fully addressed	∘ [Not specified]	[Not specified]
Office facilities, equipment and sup	oplies for biosafety work	
Extent of implementation	Preferred means	Major target groups
Fully addressed	∘ [Not specified]	[Not specified]
Telecommunication facilities (e.g.	telephone, fax, e-mail)	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Funding support	 IT, BCH and data / information managers
Access to information on available	funding sources	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Technical assistance and advice	 IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists
Budgeting and financial manageme		Marine to mark and a second
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and trainingFunding support	 IT, BCH and data / information managers Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.)
Resource mobilisation skills (inclu	ding project proposal writing)	
Extent of implementation	Preferred means	Major target groups
Not addressed	 Education and training Funding support	 IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists
System for resource-recovery (e.g.	system for collecting fees on applications)	recimient personner, colonidos
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Technical assistance and advice	 Government regulators / administrators Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.)
Adequately addressed	 Technical assistance and advice th unintentional or illegal transboundary move 	 administrators Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.)
Adequately addressed		 administrators Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.)
Adequately addressed System for tracking and dealing wi	th unintentional or illegal transboundary move	administrators Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.)
 Adequately addressed System for tracking and dealing wi <i>Extent of implementation</i> Partially addressed 	th unintentional or illegal transboundary move Preferred means Funding support Guidance / training materials Conferences and other fora	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors)
 Adequately addressed System for tracking and dealing wi Extent of implementation Partially addressed Mechanism for inspections and enforcementaries 	th unintentional or illegal transboundary move Preferred means Funding support Guidance / training materials Conferences and other fora	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Customs officials
 Adequately addressed System for tracking and dealing wi <i>Extent of implementation</i> Partially addressed 	th unintentional or illegal transboundary move Preferred means • Funding support • Guidance / training materials • Conferences and other fora Forcement of biosafety laws Preferred means • Education and training • Funding support	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Customs officials Major target groups • IT, BCH and data / information managers
 Adequately addressed System for tracking and dealing wi Extent of implementation Partially addressed Mechanism for inspections and enf Extent of implementation 	th unintentional or illegal transboundary move Preferred means • Funding support • Guidance / training materials • Conferences and other fora Forcement of biosafety laws Preferred means • Education and training	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Customs officials Major target groups • IT, BCH and data / information
Adequately addressed System for tracking and dealing wi Extent of implementation Partially addressed Mechanism for inspections and enf Extent of implementation Minimally addressed System for post-release monitoring	th unintentional or illegal transboundary move Preferred means • Funding support • Guidance / training materials • Conferences and other fora Forcement of biosafety laws Preferred means • Education and training • Funding support • Guidance / training materials	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Customs officials Major target groups • IT, BCH and data / information managers • Government regulators / administrators • Enforcement officials (e.g. field
Adequately addressed System for tracking and dealing wi Extent of implementation Partially addressed Mechanism for inspections and end Extent of implementation Minimally addressed System for post-release monitoring Extent of implementation	th unintentional or illegal transboundary move Preferred means • Funding support • Guidance / training materials • Conferences and other fora Forcement of biosafety laws Preferred means • Education and training • Funding support • Guidance / training materials	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Customs officials Major target groups • IT, BCH and data / information managers • Government regulators / administrators • Enforcement officials (e.g. field inspectors) Major target groups
Adequately addressed System for tracking and dealing wi Extent of implementation Partially addressed Mechanism for inspections and enf Extent of implementation Minimally addressed System for post-release monitoring	th unintentional or illegal transboundary move Preferred means Funding support Guidance / training materials Conferences and other fora Forcement of biosafety laws Preferred means Education and training Funding support Guidance / training materials	administrators • Technical personnel / Scientists • Other professionals (e.g. lawyers, economists, etc.) ments Major target groups • Government regulators / administrators • Enforcement officials (e.g. field inspectors) • Customs officials Major target groups • IT, BCH and data / information managers • Government regulators / administrators • Enforcement officials (e.g. field inspectors)

	study tours, etc.	Technical personnel / Scientists
Access to information on existing a	academic training programmes in biosafety	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Conferences and other fora	IT, BCH and data / information
	 Technical assistance and advice 	managers
		 Graduate and undergraduate
		students
		General public
Access to biosafety training materi	als	
Extent of implementation	Preferred means	Major target groups
 Partially addressed 	 Funding support 	 IT, BCH and data / information
	 Guidance / training materials 	managers
	 Technical assistance and advice 	 Technical personnel / Scientists
		 Customs officials
Access to information on staff exch	nange/on-the-job-training opportunities	
Extent of implementation	Preferred means	Major target groups
Not addressed	 Exchange programmes, internships, 	IT, BCH and data / information
	study tours, etc.	managers
	 Scholarships / fellowships 	• Technical personnel / Scientists
	 Conferences and other fora 	Customs officials
Training in biosafety legislation an	d policy development and practice	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Exchange programmes, internships,	Decision / policy-makers (e.g.
	study tours, etc.	Ministers)
	 Guidance / training materials 	 IT, BCH and data / information
	 Conferences and other fora 	managers
		 Government regulators /
		administrators
Training in scientific and technical		
Extent of implementation	Preferred means	Major target groups
Partially addressed	 Exchange programmes, internships, 	 IT, BCH and data / information
1 artially addressed		
- Tartany addressed	study tours, etc.	managers
- Turulany addressed	study tours, etc. • Guidance / training materials	managers • Technicians (e.g. in the laboratories
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	study tours, etc. Guidance / training materials Conferences and other fora	managers • Technicians (e.g. in the laboratories
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Training in legal, social and economic Extent of implementation • Minimally addressed Training in basics of biosafety and Extent of implementation • Partially addressed Training in risk assessment Extent of implementation • Partially addressed Training in risk management	study tours, etc. Guidance / training materials Conferences and other fora mic fields relevant to biosafety Preferred means Education and training Funding support Guidance / training materials modern biotechnology Preferred means Education and training Funding support Exchange programmes, internships, study tours, etc. Preferred means Education and training Funding support Exchange programmes, internships, study tours, etc.	managers Technicians (e.g. in the laboratories Technical personnel / Scientists Major target groups IT, BCH and data / information managers Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.) Major target groups Technicians (e.g. in the laboratories Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories Technicians (e.g. in the laboratories Technicians (e.g. in the laboratories Technical personnel / Scientists Technical personnel / Scientists Technical personnel / Scientists

	 Exchange programmes, internships, study tours, etc. Conferences and other fora 	Technical personnel / Scientists Graduate and undergraduate students
Training in biosafety regulatory issue	es	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Funding support Exchange programmes, internships, study tours, etc. Conferences and other fora 	 Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students
Training in biosafety communication		
Extent of implementation	Preferred means	Major target groups
Partially addressed	 Exchange programmes, internships, study tours, etc. Guidance / training materials Conferences and other fora 	 IT, BCH and data / information managers Technicians (e.g. in the laboratories) Technical personnel / Scientists
Training in LMO sampling and detec	tion	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Exchange programmes, internships, study tours, etc.Conferences and other foraTechnical assistance and advice	 Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students
Training in post-release monitoring of	of LMOs	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Education and training Funding support Exchange programmes, internships, study tours, etc. 	 Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students
Biosafety research		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Education and training Funding support Exchange programmes, internships, study tours, etc. 	 Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students
Training in administrative practices	for handling LMO import and release applicati	ons
Extent of implementation	Preferred means	Major target groups
Adequately addressed	 Conferences and other fora Technical assistance and advice 	 Government regulators / administrators Technical personnel / Scientists Graduate and undergraduate students
Training in preparation and presenta	tion of LMO export or release applications/dos	ssiers
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators /
	 Funding support Conferences and other fora 	administrators Technical personnel / Scientists Graduate and undergraduate students
Training in socio-economic considera	ations relating to LMOs	
Extent of implementation	Preferred means	Major target groups
1	Funding support	Technical personnel / Scientists Graduate and undergraduate
Not addressed	Exchange programmes, internships, study tours, etc.Technical assistance and advice	students • Interest groups (consumer groups, farmers, NGOs, etc.)
 Not addressed Training in cost/benefit analysis as p	study tours, etc. • Technical assistance and advice	• Interest groups (consumer groups,

Not addressed	Education and training	Technical personnel / Scientists
	Funding supportTechnical assistance and advice	Graduate and undergraduate students
	• reclinical assistance and advice	Other professionals (e.g. lawyers,
		economists, etc.)
 Training in documentation and ide 	entification requirements for LMO shipments	
Extent of implementation	Preferred means	Major target groups
 Minimally addressed 	Education and training	Technical personnel / Scientists
	• Funding support	Graduate and undergraduate
	 Exchange programmes, internships, study tours, etc. 	students • Customs officials
	·	Oustoins officials
 Training in compliance requireme 		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Technical personnel / Scientists
	Funding support Fundange programmes intermediae	Graduate and undergraduate
	 Exchange programmes, internships, study tours, etc. 	studentsOther professionals (e.g. lawyers,
	study tours, etc.	economists, etc.)
Training in liability and redress is:	sues under the Protocol	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Technical personnel / Scientists
	 Funding support 	 Customs officials
	 Exchange programmes, internships, 	 Other professionals (e.g. lawyers,
	study tours, etc.	economists, etc.)
 Guidance on other international a 	greements relevant to biosafety	
Extent of implementation	Preferred means	Major target groups
 Minimally addressed 	Exchange programmes, internships,	IT, BCH and data / information
	study tours, etc.	managers
	Guidance / training materialsConferences and other fora	Technical personnel / ScientistsGraduate and undergraduate
	Connecences and other ford	students
 Access to basic ecological data to 	support risk assessments	
Extent of implementation	Preferred means	Major target groups
Not addressed	Exchange programmes, internships,	IT, BCH and data / information
	study tours, etc.	managers
	 Conferences and other fora 	 Technical personnel / Scientists
	Technical assistance and advice	Graduate and undergraduate
		students
Guidance documents on specific a		
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	• Technicians (e.g. in the laboratories)
	Funding supportExchange programmes, internships,	Technical personnel / ScientistsGraduate and undergraduate
	study tours, etc.	students
 Guidance on how to perform risk a 	assessment	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	IT, BCH and data / information
	Funding support	managers
	 Exchange programmes, internships, 	• Technicians (e.g. in the laboratories)
	study tours, etc.	Technical personnel / Scientists
 National risk management system 		
Extent of implementation	Preferred means	Major target groups
 Fully addressed 	 Conferences and other fora 	IT, BCH and data / information
		managers
		Technical personnel / Scientists Graduate and undergraduate
		Graduate and undergraduate

	respond to unintentional LMO releases	
Extent of implementation	Preferred means	Major target groups
Not addressed	Education and training	IT, BCH and data / information
	• Funding support	managers
	 Exchange programmes, internships, study tours, etc. 	Technicians (e.g. in the laboratories)Technical personnel / Scientists
Guidance on different risk manage	ement measures	
Extent of implementation	Preferred means	Major target groups
Partially addressed	 Exchange programmes, internships, 	IT, BCH and data / information
	study tours, etc.	managers
	Conferences and other foraTechnical assistance and advice	Technical personnel / Scientists Graduate and undergraduate students
Mechanisms for cooperation in ris	k management	
Extent of implementation	Preferred means	Major target groups
Not addressed	Exchange programmes, internships,	IT, BCH and data / information
	study tours, etc.	managers
	Guidance / training materials	Technical personnel / Scientists
	Conferences and other fora	 Graduate and undergraduate students
National framework/system for pos	st-release monitoring of LMOs	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Exchange programmes, internships, 	IT, BCH and data / information
	study tours, etc.	managers
	Guidance / training materials	Technical personnel / Scientists
	Technical assistance and advice	 Graduate and undergraduate students
Cools and methodologies for enviro	onmental monitoring of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	 Education and training 	• Technicians (e.g. in the laboratories)
	Funding support	Technical personnel / Scientists
	 Exchange programmes, internships, study tours, etc. 	 Graduate and undergraduate students
Biosafety awareness materials		
Extent of implementation	Preferred means	Major target groups
 Adequately addressed 	 Exchange programmes, internships, 	IT, BCH and data / information
	study tours, etc.	managers
	Conferences and other fora	Technical personnel / ScientistsInterest groups (consumer groups,
		farmers, NGOs, etc.)
Biosafety awareness and education		Maior townst and
Extent of implementation	Preferred means • Education and training	Major target groups IT, BCH and data / information
Partially addressed	Education and trainingFunding support	11, BCH and data / information managers
	• Exchange programmes, internships,	Technical personnel / Scientists
	study tours, etc.	Graduate and undergraduate students
Biosafety documentation units or 1	reference libraries	000001100
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Exchange programmes, internships,	IT, BCH and data / information
	study tours, etc.	managers
	Guidance / training materials	Government regulators /
	 Conferences and other fora 	administrators
		 Technical personnel / Scientists

		Martin day of the control of the con
Extent of implementation	Preferred means	Major target groups
Partially addressed	Guidance / training materials	Interest groups (consumer groups,
	 Conferences and other fora 	farmers, NGOs, etc.)
	Technical assistance and advice	Mass media / extension workersGeneral public
National biosafety website		•
Extent of implementation	Preferred means	Major target groups
Fully addressed	Conferences and other fora	IT, BCH and data / information
Tuny dudressed	Comercinees and other ford	managers
		Graduate and undergraduate
		students
		General public
Biosafety outreach strategy/ comm	unication plan	
Extent of implementation	Preferred means	Major target groups
 Not addressed 	 Funding support 	 IT, BCH and data / information
	 Exchange programmes, internships, 	managers
	study tours, etc.	Government regulators /
	 Conferences and other fora 	administrators
		Technical personnel / Scientists
Training in risk-communication		
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Exchange programmes, internships,	IT, BCH and data / information
	study tours, etc.	managers
	Conferences and other fora	• Technicians (e.g. in the laboratories)
	Technical assistance and advice	Technical personnel / Scientists
Systems for public participation in		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	IT, BCH and data / information
	Guidance / training materials	managers
	. Confirmence and all an form	Toohnigal pargannal / Cajantists
	 Conferences and other fora 	Technical personnel / Scientists
	Conferences and other fora	General public
	s and mechanisms) for biosafety information ma	General public nagement
Extent of implementation	s and mechanisms) for biosafety information ma	General public nagement Major target groups
	s and mechanisms) for biosafety information ma Preferred means • Exchange programmes, internships,	General public nagement Major target groups IT, BCH and data / information
Extent of implementation	s and mechanisms) for biosafety information man Preferred means • Exchange programmes, internships, study tours, etc.	General public nagement Major target groups IT, BCH and data / information managers
Extent of implementation	s and mechanisms) for biosafety information ma Preferred means • Exchange programmes, internships,	General public nagement Major target groups IT, BCH and data / information managers Government regulators /
Extent of implementation	s and mechanisms) for biosafety information man Preferred means • Exchange programmes, internships, study tours, etc.	General public nagement Major target groups IT, BCH and data / information managers Government regulators / administrators
Extent of implementation • Adequately addressed	s and mechanisms) for biosafety information management of the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora	General public nagement Major target groups IT, BCH and data / information managers Government regulators /
Extent of implementation • Adequately addressed Equipment (hardware and software)	s and mechanisms) for biosafety information management of the second sec	 General public nagement Major target groups • IT, BCH and data / information managers • Government regulators / administrators • Technical personnel / Scientists
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation	s and mechanisms) for biosafety information manager of the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means	General public nagement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups
Extent of implementation • Adequately addressed Equipment (hardware and software)	s and mechanisms) for biosafety information management of the Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships,	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation	s and mechanisms) for biosafety information many and the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc.	General public nagement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation	s and mechanisms) for biosafety information management of the Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships,	General public nagement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation	s and mechanisms) for biosafety information many preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators /
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed	s and mechanisms) for biosafety information many and the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety	s and mechanisms) for biosafety information many preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials
 Extent of implementation Adequately addressed Equipment (hardware and software Extent of implementation Adequately addressed Establishment of national biosafety Extent of implementation 	s and mechanisms) for biosafety information managements • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety	s and mechanisms) for biosafety information many preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups IT, BCH and data / information
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety Extent of implementation	s and mechanisms) for biosafety information managements • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups
Extent of implementation Adequately addressed Equipment (hardware and software Extent of implementation Adequately addressed Establishment of national biosafety Extent of implementation Adequately addressed	es and mechanisms) for biosafety information managements Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora to facilitate national participation in the BCH Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials Conferences and other fora databases Preferred means Technical assistance and advice	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups IT, BCH and data / information managers IT, BCH and data / information managers
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety Extent of implementation • Adequately addressed Interoperability with the BCH cent	s and mechanisms) for biosafety information many and the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • to facilitate national participation in the BCH Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora • databases Preferred means • Technical assistance and advice	General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups IT, BCH and data / information managers Technical personnel / Scientists
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety Extent of implementation • Adequately addressed Interoperability with the BCH cent Extent of implementation	s and mechanisms) for biosafety information many and the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • It of facilitate national participation in the BCH and appropriate means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora • databases Preferred means • Technical assistance and advice ral portal Preferred means	 General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups IT, BCH and data / information managers Technical personnel / Scientists
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety Extent of implementation • Adequately addressed Interoperability with the BCH cent	s and mechanisms) for biosafety information many and the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • It of facilitate national participation in the BCH and preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora • databases Preferred means • Technical assistance and advice ral portal Preferred means • Funding support	 General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups IT, BCH and data / information managers Technical personnel / Scientists Major target groups IT, BCH and data / information managers Technical personnel / Scientists
Extent of implementation • Adequately addressed Equipment (hardware and software Extent of implementation • Adequately addressed Establishment of national biosafety Extent of implementation • Adequately addressed Interoperability with the BCH cent Extent of implementation	s and mechanisms) for biosafety information many and the preferred means • Exchange programmes, internships, study tours, etc. • Conferences and other fora • It of facilitate national participation in the BCH and appropriate means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora • databases Preferred means • Technical assistance and advice ral portal Preferred means	 General public magement Major target groups IT, BCH and data / information managers Government regulators / administrators Technical personnel / Scientists Major target groups IT, BCH and data / information managers Government regulators / administrators Customs officials Major target groups IT, BCH and data / information managers Technical personnel / Scientists

Non-Internet access to the BCH		
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	IT, BCH and data / information
	Conferences and other fora	managers
	Technical assistance and advice	 Technical personnel / Scientists Interest groups (consumer groups, farmers, NGOs, etc.)
C	a souther and he also are	Idi M013, 14003, 010.)
Systems for data and information s		36.1
Extent of implementation	Preferred means	Major target groups
Adequately addressed	 Exchange programmes, internships, study tours, etc. 	 IT, BCH and data / information managers
	Conferences and other fora	Government regulators /
	Technical assistance and advice	administrators
		 Customs officials
Systems for data validation and qua	ality control	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Exchange programmes, internships,	IT, BCH and data / information
	study tours, etc.	managers
	 Conferences and other fora 	Technical personnel / Scientists
	Technical assistance and advice	 Other professionals (e.g. lawyers, economists, etc.)
Mechanism for biosafety information	on gathering and reporting	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	IT, BCH and data / information
	 Funding support 	managers
	Technical assistance and advice	Government regulators /
		administrators
		Technical personnel / Scientists
Training in the use and managemen		
Extent of implementation	Preferred means	Major target groups
Partially addressed	 Exchange programmes, internships, study tours, etc. 	 IT, BCH and data / information managers
	Conferences and other fora	Technical personnel / Scientists
	Technical assistance and advice	
Mechanisms for regional cooperation	on	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	IT, BCH and data / information
	 Exchange programmes, internships, 	managers
	study tours, etc.	Government regulators /
	 Conferences and other fora 	administrators
		Technical personnel / Scientists
Training in collaboration technique	es and approaches	
Extent of implementation	Preferred means	Major target groups
Not addressed	 Education and training 	IT, BCH and data / information
	Funding support	managers
	Exchange programmes, internships,	Government regulators /
	ctudy tours of	administrators
	study tours, etc.	Technical personnel / Scientists
	study tours, etc.	Technical personnel / Scientists
Training in negotiation skills		
Extent of implementation	Preferred means	Major target groups
	Preferred means • Education and training	Major target groups IT, BCH and data / information
Extent of implementation	Preferred means Education and training Funding support	Major target groups IT, BCH and data / information managers
Extent of implementation	Preferred means Education and training Funding support Exchange programmes, internships,	Major target groups IT, BCH and data / information managers Government regulators /
Extent of implementation	Preferred means Education and training Funding support	Major target groups IT, BCH and data / information managers

Preferred means	Major target groups
 Exchange programmes, internships, study tours, etc. 	IT, BCH and data / information
Guidance / training materials	managers • Technical personnel / Scientists
Technical assistance and advice	Graduate and undergraduate students
ork for technology transfer	
Preferred means	Major target groups
Exchange programmes, internships,	IT, BCH and data / information
study tours, etc.	managers
	Government regulators /
Conferences and other fora	administratorsTechnical personnel / Scientists
	• Technical personner / Scientists
	Mojor torget groups
	Major target groups IT, BCH and data / information
r anamy support	managers
	Technicians (e.g. in the laboratories)
	Technical personnel / Scientists
n for technology transfer	
Preferred means	Major target groups
Funding support	IT, BCH and data / information
	managers
	 Technicians (e.g. in the laboratories) Technical personnel / Scientists
	reclinical personner/ Scientists
	Major target groups
	IT, BCH and data / information managers
Conferences and other ford	Technical personnel / Scientists
	Other professionals (e.g. lawyers,
	economists, etc.)
nnalysis	
Preferred means	Major target groups
 Exchange programmes, internships, 	Technicians (e.g. in the laboratories)
study tours, etc.	 Technical personnel / Scientists
Conferences and other fora	Graduate and undergraduate
Conferences and other fora Technical assistance and advice systems	Graduate and undergraduate students
Conferences and other fora Technical assistance and advice systems Preferred means	Graduate and undergraduate students Major target groups
Conferences and other fora Technical assistance and advice systems Preferred means Exchange programmes, internships,	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories)
Conferences and other fora Technical assistance and advice Preferred means Exchange programmes, internships, study tours, etc.	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists
Conferences and other fora Technical assistance and advice systems Preferred means Exchange programmes, internships,	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories)
Conferences and other fora Technical assistance and advice ystems Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate
Conferences and other fora Technical assistance and advice ystems Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students
Conferences and other fora Technical assistance and advice Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate
Conferences and other fora Technical assistance and advice Freferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories Technical personnel / Scientists Graduate and undergraduate students Major target groups
Conferences and other fora Technical assistance and advice Freferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories)
Conferences and other fora Technical assistance and advice Freferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists
Conferences and other fora Technical assistance and advice Freferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students
Conferences and other fora Technical assistance and advice Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means Conferences and other fora Preferred means Technical assistance and advice	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students making regarding LMOs Major target groups
Conferences and other fora Technical assistance and advice Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means Conferences and other fora Ount socio-economic considerations in decision-	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students making regarding LMOs Major target groups Decision / policy-makers (e.g.
Conferences and other fora Technical assistance and advice Preferred means Exchange programmes, internships, study tours, etc. Conferences and other fora Technical assistance and advice Preferred means Conferences and other fora Preferred means Technical assistance and advice	 Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students Major target groups Technicians (e.g. in the laboratories) Technical personnel / Scientists Graduate and undergraduate students making regarding LMOs Major target groups
	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Conferences and other fora nation platforms Preferred means • Funding support In for technology transfer Preferred means • Funding support Preferred means • Guidance / training materials • Conferences and other fora In for technology transfer Preferred means • Funding support

uidance on taking into account s	ocio-economic considerations in decision-making	concerning LMOs
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding support	 Government regulators / administrators Other professionals (e.g. lawyers, economists, etc.) General public
Mechanisms for cooperation on re	search on socio-economic impacts of LMOs	
Extent of implementation	Preferred means	Major target groups
Not addressed	 Guidance / training materials Conferences and other fora 	 IT, BCH and data / information managers Technical personnel / Scientists Other professionals (e.g. lawyers, economists, etc.)
Development of LMO traceability s	systems	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Education and training Funding support	 Technicians (e.g. in the laboratories) Technical personnel / Scientists
Establishment of identity preserva	ation systems	
Extent of implementation	Preferred means	Major target groups
Not addressed	Funding supportExchange programmes, internships,	IT, BCH and data / information managers
	study tours, etc. Technical assistance and advice	Technicians (e.g. in the laboratories)Technical personnel / Scientists
National system for inspection and	d verification of documentation accompanying LM	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Exchange programmes, internships,	Government regulators /
2 0	study tours, etc.	administrators
	Conferences and other fora	Technical personnel / Scientists
Jational avatom for managing and	protecting confidential information	Customs officials
Extent of implementation	Preferred means	Major target groups
Fully addressed	Conferences and other fora	IT, BCH and data / information managers
		Government regulators /
		administrators
		 Customs officials
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
_	Preferred means • Exchange programmes, internships,	IT, BCH and data / information
Extent of implementation	Preferred means Exchange programmes, internships, study tours, etc.	IT, BCH and data / information managers
Extent of implementation	 Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials 	 IT, BCH and data / information managers Technical personnel / Scientists
Extent of implementation • Partially addressed	 Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials Technical assistance and advice 	IT, BCH and data / information managers
Extent of implementation • Partially addressed Guidance on assessment risks of I	Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials Technical assistance and advice MOs to human health	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials
Extent of implementation • Partially addressed Guidance on assessment risks of I Extent of implementation	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Technical assistance and advice LMOs to human health Preferred means	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups
Extent of implementation • Partially addressed Guidance on assessment risks of I	Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials Technical assistance and advice MOs to human health Preferred means Funding support	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information
Extent of implementation • Partially addressed Guidance on assessment risks of I Extent of implementation	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Technical assistance and advice LMOs to human health Preferred means	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers
Extent of implementation • Partially addressed Guidance on assessment risks of I Extent of implementation	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Technical assistance and advice MOs to human health Preferred means • Funding support • Guidance / training materials	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers
Extent of implementation Partially addressed Guidance on assessment risks of I Extent of implementation Partially addressed	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Technical assistance and advice MOs to human health Preferred means • Funding support • Guidance / training materials	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories)
Extent of implementation Partially addressed Guidance on assessment risks of I Extent of implementation Partially addressed	Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials Technical assistance and advice MOs to human health Preferred means Funding support Guidance / training materials Technical assistance and advice	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories)
Extent of implementation Partially addressed Guidance on assessment risks of I Extent of implementation Partially addressed Regulatory framework for address	Preferred means Exchange programmes, internships, study tours, etc. Guidance / training materials Technical assistance and advice MOs to human health Preferred means Funding support Guidance / training materials Technical assistance and advice	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories) Technical personnel / Scientists
Extent of implementation Partially addressed Guidance on assessment risks of I Extent of implementation Partially addressed Regulatory framework for address Extent of implementation	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Technical assistance and advice MOS to human health Preferred means • Funding support • Guidance / training materials • Technical assistance and advice ing human health impacts of LMOs Preferred means	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories) Technical personnel / Scientists Major target groups IT, BCH and data / information managers
Extent of implementation Partially addressed Guidance on assessment risks of I Extent of implementation Partially addressed Regulatory framework for address Extent of implementation	Preferred means • Exchange programmes, internships, study tours, etc. • Guidance / training materials • Technical assistance and advice MOs to human health Preferred means • Funding support • Guidance / training materials • Technical assistance and advice ing human health impacts of LMOs Preferred means • Exchange programmes, internships,	 IT, BCH and data / information managers Technical personnel / Scientists Customs officials Major target groups IT, BCH and data / information managers Technicians (e.g. in the laboratories) Technical personnel / Scientists Major target groups IT, BCH and data / information

		economists, etc.)
stablIishment of the national net	work of the laboratories for GMO detect	ion
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	 IT, BCH and data / information managers Technicians (e.g. in the laboratories)
		 Technical personnel / Scientists
stablishment of the national met	hodological information centre on GMO	detection issues
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Funding support 	IT, BCH and data / information
		managers
		 Technical personnel / Scientists
reation of the national methodol	ogical information database on GMO det	ection and identification issues
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	IT, BCH and data / information
		managers
		 Technical personnel / Scientists