



Capacity Building Needs and Priorities

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General Information

Country

· Marshall Islands

Contact person



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Areas of capacity building

Broad areas in which capacity is needed

- Institutional capacity
- Risk management
- Public awareness, participation and education in biosafety
- Information exchange and data management including participation in the Biosafety Clearing-House
- Technology transfer
- Implementation of the documentation requirements under Article 18.2 of the Protocol
- Handling of confidential information

Needs and priorities

Specific needs and priorities

· Development of a national biosafety policy

Extent of implementation

Preferred means

- Partially addressed
- Guidance / training materials
- Major target groups · Education and training
 - General public
 - · Mass media / extension workers

Development of national biosafety laws and regulations

Extent of implementation Partially addressed

Preferred means

- · Education and training
- Funding support
- Guidance / training materials

Major target groups

- Government regulators / administrators
- · Technical personnel / Scientists
- · General public

· Guidance on mainstreaming of biosafety into other sectors

 $Extent\ of\ implementation$

Preferred means

Major target groups

Partially addressed	 Education and training Guidance / training materials	General public
Development of a national liab	ility and redress regime	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	General public
Support for implementation of	the national biosafety framework	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Funding support	General public
	 Education and training 	Mass media / extension
	 Conferences and other fora 	workers
		Technical personnel / Scientists
		Scientists
Streamlining of regulatory syst		
Extent of implementation	Preferred means Technical assistance and	Major target groups
Minimally addressed	1ecnnical assistance and advice	Mass media / extension workers
Table for an Control of China		WOLKOLO
Tools for enforcement of biosaf	•	Major tong-t
Extent of implementation Minimally addressed	Preferred means	Major target groups
Minimally addressed	∘ [Not specified]	∘ [Not specified]
-	systems for handling applications for	-
Extent of implementation	Preferred means	Major target groups
Minimally addressed	 Exchange programmes, internships, study tours, etc. 	∘ [Not specified]
26.1		
Mechanisms for inter-institution		26:10.10
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators / administrators
Mechanism for coordination ar	nong national regulatory authorities a	nd processes
Extent of implementation	Preferred means	Major target groups
Partially addressed	Guidance / training materials	 Mass media / extension workers
System for magement of record	ds related to LMO import applications	and decisions
Extent of implementation	Preferred means	Major target groups
Not addressed	∘ [Not specified]	∘ [Not specified]
System for decision-making on	LMOs (procedures and guidelines)	
Extent of implementation	Preferred means	Major target groups
Not addressed	• [Not specified]	○ [Not specified]
Access to information commun	ication technologies (ICTs)	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Guidance / training materials	Government regulators /
V	. <u> </u>	administrators
Internet connectivity		
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Extent of implementation	Preferred means	Major target groups
Adequately addressed	Education and training	Government regulators /
	 Education and training Funding support	
	Education and training	Government regulators / administrators Mass media / extension
	 Education and training Funding support	Government regulators / administrators Mass media / extension workers
	 Education and training Funding support	 Government regulators / administrators Mass media / extension
	Education and trainingFunding supportConferences and other fora	Government regulators / administrators Mass media / extension workers
Adequately addressed Office facilities, equipment and Extent of implementation	 Education and training Funding support Conferences and other fora d supplies for biosafety work Preferred means	 Government regulators / administrators Mass media / extension workers General public Major target groups
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Adequately addressed Office facilities, equipment and Extent of implementation	 Education and training Funding support Conferences and other fora d supplies for biosafety work Preferred means Technical assistance and 	Government regulators / administrators Mass media / extension workers General public Major target groups General public

		Scientists
Telecommunication facilities (e.g. telephone, fax, e-mail)	
Extent of implementation	Preferred means	Major target groups
Fully addressed	 Education and training 	 General public
	Funding support	Government regulators /
	Guidance / training materials	administrators
		Mass media / extension workers
		workers
Access to information on availa	able funding sources	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Funding support	Government regulators /
	Guidance / training materials	administrators
		Customs officials
Budgeting and financial manag	gement skills	
Extent of implementation	Preferred means	Major target groups
 Minimally addressed 	 Guidance / training materials 	 Government regulators /
		administrators
Resource mobilisation skills (in	ncluding project proposal writing)	
Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	Government regulators /
		administrators
System for resource-recovery (e.g. system for collecting fees on applic	cations)
Extent of implementation	Preferred means	Major target groups
Partially addressed	Guidance / training materials	Mass media / extension
		workers
System for tracking and dealin	g with unintentional or illegal transbo	undary movements
Extent of implementation	Preferred means	Major target groups
Not addressed	• [Not specified]	• [Not specified]
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	d enforcement of biosafety laws	3.5.
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Guidance / training materials	Government regulators / administrators
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System for post-release monito		
Extent of implementation	Preferred means	Major target groups
Not addressed	∘ [Not specified]	∘ [Not specified]
Access to information on existi	ng academic training programmes in h	oiosafety
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Mass media / extension
		workers
Access to biosafety training ma	nterials	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Education and training	Mass media / extension
		workers
Access to information on staff	exchange/on-the-job-training opportun	ities
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Education and training	General public
	Funding support	Mass media / extension
	Guidance / training materials	workers
		• Government regulators /
		administrators
Training in biosafety legislatio	n and policy development and practice	
Extent of implementation	Preferred means	Major target groups
 Partially addressed 	 Education and training 	 Government regulators /

Extent of implementation Preferred means Government regulators administrators	gal, social and economic fields	vant to biosafety	
Training in risk management Extent of implementation Preferred means Extent of implementation Preferred means Preferred means Preferred means Preferred	lementation Preferre	eans Major target g	groups
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gov groups			groups
• Not addressed			

Extent of implementation	Preferred means	Major target groups
Minimally addressed	Education and training	 Government regulators / administrators
Mechanisms for cooperation in	risk management	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	Government regulators / administrators
National framework/system for	post-release monitoring of LMOs	
Extent of implementation	Preferred means	Major target groups
Partially addressed	Education and training	 Government regulators / administrators
Biosafety awareness materials		
Extent of implementation	Preferred means	Major target groups
 Partially addressed 	 Education and training 	General public
	Technical assistance and	Mass media / extension
	advice	workers
	Funding support	Government regulators / administrators
Biosafety awareness and educa	tion programmes	
Extent of implementation	Preferred means	Major target groups
Adequately addressed	Guidance / training materials	Government regulators /
		administrators
Biosafety documentation units	or reference libraries	
Extent of implementation	Preferred means	Major target groups
Fully addressed	Guidance / training materials	 Government regulators / administrators
Facilities for public access to b	iosafety information and means of acc	ess to the Biosafety Clearing-House
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Extent of implementation • Not addressed	Preferred means	Major target groups
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Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] 1 Preferred means	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] Preferred means • [Not specified]	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified]
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] Preferred means • [Not specified] in in biosafety	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified]
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] n in biosafety Preferred means	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified]
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] n in biosafety Preferred means • [Not specified] n in biosafety Preferred means • [Not specified]	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified]
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed Not addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] in in biosafety Preferred means • [Not specified] in in biosafety Preferred means • [Not specified] in in biosafety Preferred means • [Not specified]	Major target groups • [Not specified]
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed National system (policy, proced Extent of implementation	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Itures and mechanisms) for biosafety in Preferred means	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] formation management Major target groups
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed Not addressed Not addressed Not addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] in in biosafety Preferred means • [Not specified] in in biosafety Preferred means • [Not specified] in in biosafety Preferred means • [Not specified]	Major target groups • [Not specified]
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed Not addressed National system (policy, proceded Extent of implementation Partially addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Itures and mechanisms) for biosafety in Preferred means	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] formation management Major target groups O Government regulators / administrators
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed National system (policy, proced Extent of implementation Partially addressed Equipment (hardware and software)	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Fures and mechanisms) for biosafety in Preferred means • Guidance / training materials Ware) to facilitate national participation Preferred means	Major target groups • [Not specified] Iformation management Major target groups • Government regulators / administrators In the BCH Major target groups
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed National system (policy, proced Extent of implementation Partially addressed Equipment (hardware and software)	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Itures and mechanisms) for biosafety in Preferred means • Guidance / training materials Ware) to facilitate national participation	Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Major target groups o [Not specified] Iformation management Major target groups o Government regulators / administrators In the BCH
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed National system (policy, proced Extent of implementation Partially addressed Equipment (hardware and softw Extent of implementation Partially addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Itures and mechanisms) for biosafety in Preferred means • Guidance / training materials ware) to facilitate national participation Preferred means • Guidance / training materials	Major target groups • [Not specified] Major target groups • Government regulators / administrators In the BCH Major target groups • Government regulators /
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed National system (policy, proced Extent of implementation Partially addressed Equipment (hardware and softween the software implementation) Extent of implementation	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Itures and mechanisms) for biosafety in Preferred means • Guidance / training materials ware) to facilitate national participation Preferred means • Guidance / training materials	Major target groups • [Not specified] Major target groups • Government regulators / administrators In the BCH Major target groups • Government regulators /
Extent of implementation Not addressed National biosafety website Extent of implementation Not addressed Biosafety outreach strategy/ co Extent of implementation Not addressed Training in risk-communication Extent of implementation Not addressed Systems for public participation Extent of implementation Not addressed National system (policy, proced Extent of implementation Partially addressed Equipment (hardware and software) Extent of implementation Partially addressed Extent of implementation Partially addressed	Preferred means • [Not specified] Preferred means • [Not specified] mmunication plan Preferred means • [Not specified] Preferred means • [Not specified] In in biosafety Preferred means • [Not specified] Sures and mechanisms) for biosafety in Preferred means • Guidance / training materials vare) to facilitate national participation Preferred means • Guidance / training materials Affety databases	Major target groups • [Not specified] Major target groups • Government regulators / administrators In the BCH Major target groups • Government regulators / administrators

Ex	tent of implementation	Preferred means	Major target groups
•	Not addressed	· [Not specified]	[Not specified]
Non	-Internet access to the BCH		
Ex	tent of implementation	Preferred means	Major target groups
	Minimally addressed	Education and training	Government regulators /
		 Funding support 	administrators
		Guidance / training materials	Technical personnel /
			Scientists
			General public
Syst	tems for data and information	security and back-up	
Ex	tent of implementation	Preferred means	Major target groups
•	Minimally addressed	 Education and training 	Government regulators /
			administrators
Syst	tems for data validation and q	quality control	
Ex	tent of implementation	Preferred means	Major target groups
•	Minimally addressed	Education and training	General public
Med	chanism for biosafety informa	tion gathering and reporting	
	tent of implementation	Preferred means	Major target groups
	Minimally addressed	Funding support	General public
	,	J - 11 - 1	Government regulators /
			administrators
Trai	ning in the use and managem	nent of the BCH central portal	
	tent of implementation	Preferred means	Major target groups
	Not addressed	• [Not specified]	• [Not specified]
	ning in collaboration techniq		
	tent of implementation	Preferred means	Major target groups
	Minimally addressed	Education and training	Major target groupsGovernment regulators /
		Zadadon dila training	administrators
Two	ning in negotiation skills		
	ining in negotiation skills tent of implementation	Preferred means	Major target groups
	Not addressed	· [Not specified]	Major target groups • [Not specified]
		-	[1101 opcomou]
		le technologies relevant for biosafety	
	tent of implementation	Preferred means	Major target groups
•	Minimally addressed	Education and training	Mass media / extension workers
_			WOLKELS
	bling policy/regulatory frame		
	tent of implementation	Preferred means	Major target groups
•	Not addressed	· [Not specified]	∘ [Not specified]
Esta	ablishment of technology info	rmation platforms	
Ex	tent of implementation	Preferred means	Major target groups
•	Partially addressed	Guidance / training materials	General public
			Government regulators /
			administrators
Nat	ional framework and action p	lan for technology transfer	
Ex	tent of implementation	Preferred means	Major target groups
•	Minimally addressed	 Education and training 	Government regulators /
			administrators
Pub	lic-private partnerships for to	echnology development	
Ex	tent of implementation	Preferred means	Major target groups
•	Minimally addressed	Guidance / training materials	Government regulators /
			administrators
Lah	oratory for LMO detection an	d analysis	
Lab	-	•	3.6.1
	tent of implementation	Preferred means	Major target groups

Not addressed	∘ [Not specified]	∘ [Not specified]		
	•	· ·		
National system for taking into account socio-economic considerations in decision-making regarding Li				
Extent of implementation	Preferred means	Major target groups		
Not addressed	∘ [Not specified]	∘ [Not specified]		
Mechanisms for cooperation on research on socio-economic impacts of LMOs				
Extent of implementation	Preferred means	Major target groups		
Not addressed	∘ [Not specified]	∘ [Not specified]		
Establishment of identity pres	ervation systems			
Extent of implementation	Preferred means	Major target groups		
Not addressed	∘ [Not specified]	∘ [Not specified]		
National system for inspection	and verification of documentation acco	ompanying LMO shipments		
Extent of implementation	Preferred means	Major target groups		
Not addressed	∘ [Not specified]	∘ [Not specified]		
National system for managing	and protecting confidential informatio	n		
Extent of implementation	Preferred means	Major target groups		
Not addressed	∘ [Not specified]	∘ [Not specified]		
Training in biosafety record ke	eeping and information security			
Extent of implementation	Preferred means	Major target groups		
Partially addressed	Education and training	General public		
	Guidance / training materials	 Government regulators / administrators 		
Regulatory framework for add	ressing human health impacts of LMOs			
Extent of implementation	Preferred means	Major target groups		
Not addressed	∘ [Not specified]	∘ [Not specified]		

Additional Information

Any other relevant information

Date: 2011-11-25