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INVASIVE ALIEN SPECIES: PROJECT/PROGRAMME LOGICAL FRAMEWORKS FOR ACHIEVING AICHI BIODIVERSITY TARGET 9 IN THE PACIFIC SMALL ISLAND DEVELOPING STATES

Note by the Executive Secretary

1. The Strategic Plan for Biodiversity 2011-2020, with its Aichi Biodiversity Targets, annexed to decision X/2 contains a specific target on invasive alien species, as follows: By 2020, invasive alien species and pathways are identified and prioritized, priority species are controlled or eradicated and measures are in place to manage pathways to prevent their introduction and establishment.

2. In paragraph 17(a) of the same decision, the Conference of the Parties requested the Executive Secretary to promote and facilitate, in partnership with relevant international organizations, activities to strengthen capacity for the implementation of the Strategic Plan for Biodiversity 2011-2020, including through regional and/or subregional workshops on updating and revising national biodiversity strategies and action plans, the mainstreaming of biodiversity, the enhancement of the clearing-house mechanism and the mobilization of resources.

3. Furthermore, in paragraph 9(a) of decision XII/17, the Conference of the Parties requested the Executive Secretary to facilitate, through technical and scientific cooperation, in line with Article 18 of the Convention, the development and implementation of regional projects to manage those pathways and invasive or potentially invasive species that have been identified as priorities at the regional level, for example, through the proposed International Islands Initiative for achieving Aichi Biodiversity Target 9 on Invasive Alien Species.

4. Accordingly, with generous financial support from the Japan Biodiversity Fund, the Executive Secretary organized a capacity-building workshop to facilitate the International Islands Initiative for Achieving Aichi Biodiversity Target 9 for small island developing States in the Pacific region in Apia from 8 to 12 August 2016.¹ At this workshop, representatives of national authorities for the environment, agriculture (primarily national plant protection organizations) and national experts on invasive alien species were convened to formulate a comprehensive invasive alien species management programmes in line with the Strategic Plan for Biodiversity, decisions of the Conference of the Parties on invasive alien species and the "Guidelines for invasive species

^{*} UNEP/CBD/COP/13/1.

¹ <u>https://www.cbd.int/doc/meetings/ais/iasws-2016-01/official/iasws-2016-01-01-add1-1-en.pdf</u>

management in the Pacific"² published by the Secretariat of the Pacific Community (SPC) and the Secretariat of the Pacific Regional Environment Programme (SPREP) in 2009.

5. Technical and scientific support to this workshop was provided by the following organizations through the participation of resource persons or the provision of information on relevant opportunities for capacity development: Secretariat of the Standard for Trade Development Facility (STDF); Secretariat of the Pacific Regional Environment Programme; the Secretariat of the Pacific Community; BirdLife International; Global Biodiversity Information Facility; Island Conservation; International Union for Conservation of Nature-Invasive Species Specialist Group (IUCN-ISSG); Landcare Research New Zealand, Ltd; and Queensland Department of Agriculture and Fisheries, Australia.

6. The outputs of the workshop include comprehensive programme/project logical frameworks that provide a basis for cross-sectoral and participatory management of invasive alien species in the Pacific towards achieving Aichi Biodiversity Target 9 and which may facilitate resource mobilization by the countries concerned.

7. The logical frameworks developed by the workshop participants are annexed hereto for the information of participants in the thirteenth meeting of the Conference of the Parties. They are made available in the form and language in which they were received by the Secretariat,

² <u>https://www.sprep.org/att/publication/000699_RISSFinalLR.pdf</u>

Cook Islands

Cook Islands Invasive Alien Species and Biosecurity Project proposal

Project Title	Cook Islands to effectively prevent, control and manage the movement of invasive species to enhance the survival of Cook Islands biodiversity and improve livelihoods.
Objective	Prevent the movement of invasive alien specices by strengtherning and building national and local capacity to enhance the long term survival of threaterned species and improve livelihoods.
Project duration	4yrs
Possible international funding agency	GEF, Green Climate Fund, Adaptation Fund, STDF, EU=Bilateral Fund, GBIF, FAO, SPC, SPREP, etc
Total project budget	\$1.6million USD
National Supporting documents	NSDP, NESAF, NBSAP, Draft NISSAP, NES & MOA business plans, DRM plan etc

Descripti	Strategic	Outcom	Output	Activitie	Measurab	Sources	Assumptio	Fundina	Source of
on	objectiv	8	s and p are	c	ما	of	ns	estimat	possible funding
on		03	3	5	indiactora	Verificati	ns and ricks	connat	
	es				indicators	verificati	and risks	es	agencies
					/	on			
					targets				
Biosecurity Regulatory framework	1. Development of Regulations for the effective management of invasive species	1.1 Biosecurity regulations as required under the CIs Biosecurity Act 2008 devopled. 1.2 Management of IAS at the national level to reduce the risk of invasive species entering the Cook Islands in particular the outer islands	 1.1.1 A framework in place to manage and enforce biosecurity activities in the Cook Islands. 1.2.1 A priority listing of invasive alien species present in the Cook Islands developed that will have the potential of beeing controlled by biological agents 1.2.2 High risk species and key pathways of IAS that has not yet arrived in the Cook Islands 	1.1.1.1 Carry out public consultation on the biosecurity regulation 1.1.1.2 Assess the opportunities for Island Councils to introduce bylaws to reduce risks posed by invasive species. 1.1.1.3 Biosecurity officers trained on biosecurity legislative requirements 1.2.2.1 High risk pathways identified	1.1.1.1 By 2020 Biosecurity Regulation completed 1.1.1.1.2 Public compliance with biosecurity regulations 1.1.1.3.1 Officers on all islands trained on Biosecurity regulations requirements. 1.2.2.1.1 all high risk pathways identified	Biosecurity regulation endorsed by cabinet and legislatively recorded and enforced IAS incorporated into island bylaws Priority listing developed	Political by in Legal drafter to develop regulation	\$50,000	GEF/STDF
Capacity	2. Strengthen	2.1	2.1.1	2.1.1.1 Build	Officers on all	Training	Training materials	\$700,000	GEF/STDF/SPC/NZAID/AU
Building	biosecurity	Strengthened	Capacity	the capacity of	islands able to	records and	-		SAID
	procedures	and improved	buiding of	Biosecurity	carryout and	reports			
	and	biosecurity	Biosecurity	officers on	enforce				

Capacity	procedures	officers on	biosecurity	biosecurity			
building of	and improve	biosecurity	regulation	regulation			
relevant	survey and	regulations.	requirements.	- .			
agencies on	Identification			Border			
Biosecurity	needs	2.1.2	2.1.1.2	agencies able			
regulation		Capacity for	I rainning on	to comply with			
requirements		surveillance	necessary	biosecurity			
and improve		and	equipment	boarder control			
IA5 identification		prevention	consistant	requirements	IPc understand		
and		d through	with	By 2020 IPs	and able to		
surveillance		nrovision of	biosecurity	able to pass	nass decisions		
needs		necessary	requirement	Biodiversity	according to		
		equipment	and	decisions	biosecurity		
		that are	international		regulation		
		consistant	standards for		Ū		
		with	the				
		biosecurity	preventions				
		requirement	detection and				
		and	control of IAS				
		internationa					
		I standards	2121				
		nor the					
		detection	including Pest				
		and control	& Diseases				
		of IAS	identification				
		01.0.0	training				
	2.2 Relevant		0				
	agencies able						
	to comply with		2.1.3.1				
	Biosecurity	2.1.3	Invasive				
	regulation	Invasive	species				
	requirements	spp	survey training				
		Including	needs				
		Pest &	2122				
		identificatio	2.1.J.Z Surveillance				
		n and	training for				
		survev	new ant				
		training	around the				
		needs	port areas				
			•				
		2.2.1					
		Relevant					
		agencies	2.2.1.1				
		meets	Capacity				
		biosecurity	building of				
		poarder					
		requirement	biosocurity				
		s	boarder				
		J.	control				

		1							
Fradication	3a Eradicata	33.11 000-	2.2.2 Judiciary (JPs) members ability to rule or pass a decision in accordance to biosecurity act.	requirements. 2.2.2.1 Capacity building of judiciary (JPs) about biosecurity enforcement	By 2020	Paports	Community	\$245.000	GEE/Concervation
and Control of invasive species	and control invasive species that has not yet spreed on some islands to improve biodiversity and livelihood. 3b. Eradicate, control and monitor key invasive species on Pukapuka, Mauke and Takutea	term natural restoration of terrestrial ecosystems and their biodiversity through eradication of cockleburr, redpassionfrui t and species not yet widely spread 3b.1 Eradicate and monitor rats on Takutea and Suwarrow to restore and increase the bird population on the islands.	Effectively control and eradicate cockleburr on Pukapuka, red passionfruit on Mauke and relevant invasive species not yet widely spread on islands. 3b.1.2 Feasibility and cost- benefit of eradicating Pacific rats from Takutea and monitoring rats on Suwarrow	Effectively control and eradicate cockleburr on Pukapuka, red passionfruit on Mauke 3a.1.1.2 Relevant invasive species not yet widely spread on islands controlled or eradicated. 3b.1.2.1 Investigate feasibility and cost-benefit of eradicating Pacific rats from Takutea and monitor infestation on Suwarrow 3b.1.2.2 Rat guards and baiting stations at ports	number of cocklebur on pukapuka controlled and red passionfruit eradicated Takutea feasibility and cost benefit study completed Number of bait stations at ports	produced	support	\$2.70,000	International/Birdlife International
Data collection	A Stocktake	4 1 Stocktake	4114	4 1 1 1 Carry	Stocktake	Survey reports	Software	\$360.000	GEE/GBIE/others
	and GIS mapping of invasive alien species distribution in	Stocktaking and GIS mapping of invasive alien species	stocktake stocktaking of invasive species in the Pa	out a stocktake/surv ey of invasive species in the Pa Enua	completed Pa Enua	databases and GIS maps produced	Soliware	φ300,000	GEL /GDIF/OUTEIS

	the Pa Enua	distribution the Cook Islands	Enua 4.1.2 GIS mapping the distribution of invasive species in the Pa Enua	 4.1.1.2 Database of survey developed 4.1.2.1 GIS map the distribution of invasive species in the Pa Enua 	invasive species database produced GIS maps produced for Pa Enua				
Knowledge management to address the impacts caused by IAS	5. Knowledge management to address the impacts of Invasive Species and those that are a potential threat, on the country's biodiversity, economy, livelihoods, food-security and health	5.1 Raise awareness on the impacts of Invasive Species present in Cook Islands, and those that are a potential threat, on the country's biodiversity, economy, livelihoods, food-security and health through various media	5.1.1 Awareness materials of the most damaging terrestrial invasive species not found in Cook Islands but at high risk of arriving from neighbourin g countries developed and utilized 5.1.2 Awareness of Island Governmen ts of the threat posed by invasive species 5.1.3 Provide communitie s with advice to manage problem invasive species	5.1.1.1 Develop and utilise awareness materials of the most damaging terrestrial invasive species not found in Cook Islands but at high risk of arriving from overseas 5.1.2.1 Awareness materials developed and circulated to all islands	Awareness materials developed and widely distributed	Awareness materials circulated	No risk and no assumption?	\$200,000	GEF/STDF/SPC/SPREP/etc
Project	6. Effectively	6.1 Manage	6.1.1 Well	6.1.1.1	I	Mid and end of		\$45.000	GEF/etc

coordinatn	manage biosecurity invasive project	and coordinate biosecurity invasive species	managed project	Coordinate and manage activities on each of the islands	term evaluation		
		species		Islands			
		project					

Federal States of Micronesia

GOAL	Conserve Biodiversity and Protect livelihoods from Threat of Invasive Species								
	PROJECT SUMMAR Y	Outputs	ACTIVITIES	INDICATOR S, BASELINE, TARGET	MEANS OF VERIFICATI ON	RISK & ASSUMPTIO NS	ROLES OF PARTNE RS	INDICATIV E RESOURC ES	
Outcom e	The impacts of priority invasive species on biodiversit y, economies, livelihoods and health, are widely understood and actions to manage and reduce them are supported	1.1 State partners have agreed and develop awareness programs priorities and key AIS awareness message	1.1. Series of workshop/meetin gs to develop awareness programs and key AIS awareness message	# of participants, # of meetings	meeting minutes, workshop notes documents	RISK: Each island state may have different priorities on IAS message and it may delay or take time to agree on the message. Assumptions: partners and people may share the message across the country	FSM National Gov: will take the lead in organizing series of workshop and meetings for all four states members; state members: will be responsible to help FSM bring ideas and develop invasive awareness programs that will	\$25,000	

						help reduce invasive threats to the islands.
	1.2 All four states of FSM received the biosecurity and AIS video	1.2 Produce short biosecurity video for showing at airport terminal	video produced	all four state received final copy of video	RISK: Each Sate may have different ideas and it will take time to review the video script; Assumption: This video might help increase awareness on invasive species impact to the communities and visitors as well	SPC, SPREP, Quarantine, Port Authorities, Airlines (UA, Nauru, Carolines)
	1.3 United Airline in approved and support biosecurity IAS video	1.3 Conduct meeting to negotiate with Pohnpei Port Authority (PPA) and United Airline to get permission to play the Video at the terminals	# of participants, # of meetings	sign copy of agreement between parties	RISKS: If there's not	RISC reps, Quarantine, Airlines (UA and Nauru)

	1.4 IAS potential pathway are identified and included in States IS awareness materials	1.4 Develop in conjunction with States material on IS, including how to identify and potential pathways and vectors	# of materials developed	copy of materials		
	1.5 IS awareness materials are distributed to all parties and supported.	1.5 Distribute material to all involved IS activities (tourism operators, Marine Protected Area committees, coastal communities, Quarantine, Airports)	# of materials distributed, # of parties received materials	copy of awareness materials		
	1.6 IS goals are incorporated and supported in all outreach events	1.6 Support as appropriate goals of the Regional Biosecurity Plan (RBP), Micronesia Challenge (MC), RISC, National IS Strategy	# of invasive events	articles, n short documents	ewsletters and about the events	STDF Intersate

		(NISSAP), etc. during outreach events				
	Desig n and apply best practice standards based on latest information	assist farm techniques to cont invasive species for respective farm sit	ers with IPM rol other ound in their res			
	operati onal plans developed for top priorities of AIS	Initial control appl visits to known sit control where nece	lied,Follow-up es and re-apply essary			
	Management plans for 8 priority Target Species are written and approved for implementatio n: Mile-a- Minute, Kosters curse, African tulip tree, tree sparrow, Eal catfish,	Develop pr species to be targe management in all	rotocol for each ted for FSM states	Fill indicators and verification materials		

	Milkfish (<i>Reference:</i> <i>iSTOP SAP</i> 2013-2017 Final copy)			
	Operat ion plan for eradication species are written and approved for implementatio n: False Sakau Chain of Love, Honolulu Rose Benga I Trumpet,	Develop protocal for each species to be eradicated from all states		
	Gourd Feral Pigeon (<i>Reference:</i> <i>iSTOP</i> <i>SAP2013-</i> <i>2017 Final</i> <i>copy</i>)			

<u>Fiji</u>

	Project description	Measurable indicators / targets	Sources of verification	Assumptions and risks
Goal	Fiji becomes a Centre of Expertise for biodiversity and biosecurity in the Pacific	Trained staff number is sufficient as the regional centre of expertize Equipment required for the work of the regional centre expertise is installed Border measures to halt introduction of alien species, pests and pathogenic agents with high risk of invasions are in place	Record of staff trainings Record of equipment installed at the regional center of expertize Fiji's national legislation to prevent introduction of, and control or eradicate alien species that threaten biodiversity is enacted and effective enforcement is in place	Technical and scientific cooperation should be effective to train staff members The regional and national coordination of relevant authorities, expert institutions, industry and biodiversity stakeholders
Immediate objective (purpose)	To develop strategies and action plans of the regional center of expertise in Fiji	Consultation with NBSAPs revision process	Updated NBSAPs	Collaboration among relevant Government Partners.
	To train the staff at the center of expertise on Pest Risk Analysis and undertake environmental impact risk analysis.	Number of training events	Record of training events, certificate of training completion, procurement records	Trainers for training are available in Fiji, with collaboration from relevant international Partners. Training opportunities are ensured by the relevant

	To train the staff at the center of expertise on rapid species identification for regulated articles, invasive alien species in the Pacific To install necessary equipment for the center of expertise and a needs inventory for equipment is undertaken and necessary procurement of new equipment is done.	Procurement of equipment necessary for the regional center of expertize		authorities for biodiversity and biosecurity measures Strong political will of Fiji to put biosecurity measures in place to achieve Aichi Biodiversity Target 9 on invasive alien species is developed in Fiji
	To prevent the further spread of African Tulip, <i>Spathodea species</i> towards the non- dominating site. To introduce the bio-control agents for management of plant weeds, <i>Spathodea</i> <i>sp</i> and <i>Lantana sp</i> .	Meeting with the crop protection departments on awareness program. Assessment of biological control agents that should not become pests of other endemic plants in Fiji.	Regional workshops and trainings to be carried out in Fiji specifically for the eradication of African Tulips. Special technical meetings / workshops to explore other ways of eradication and share ideas from others regions on successful eradication programs for similar species. Obtaining the biological control - agent test results against the other plant species which is available in Fiji and are found in the same locality as the LAS	The applications of bio-control agents to controlling IAS plants and weeds in Fiji must be actively pursued and feasible mode of applications should be practiced. Proper training to be provided to the field staffs in order to avoid administer lethal doses of weedicides and to use the bio-agents appropriately. Meeting international standard (ISPM 3 on biological control) as a standard for implementation of the activities Ensure that possible negative environmental impact of biological control are properly investigated before being introduced to any environment.
Outputs	Strategies and action plans of the	NBSAPs of Fiji	Updated NBSAPs of	Communication and collaboration among the

	regional center of expertise	includes the strategies and action plans of the center of expertise	Fiji	relevant Governmental sectors and regional organizations (SPREP, SPC and among others in the Pacific) should be well coordinated for inclusion of the regional center of expertise in the NBSAPs of Fiji.
	Updated list of established Invasive species in Fiji Well qualified and well trained analysts available in Fiji to carry out the field activating regarding the control of Alien Invasive species of weeds	To obtain an annotated lists of IAS from the Ministry of Environment and Ministry of Agriculture	Verified and validated annotated list of IAS All staffs are well trained in identifying and managing IAS	Capacity in species identifications at the border and post border areas. Identification of IAS weeds plants while monitoring and surveillance
	Confirmed list of High risk potential Invasive Alien species. This list can be incorporated into the updates.	To identify and recruit a qualified staff to identify IAS	Report on identified gaps to regulate the list of priority IAS weeds in Fiji	
	Quarantine risk assessment of the Bio- control agents will be updated Quarantine systems will be updated and all protocols are in place to prevent risks transmissions to trading partners and Fiji	Publish a confirmed and a complete lists of IAS in Fiji with priority information based on the risk and impacts	Concrete and feasible measures to be in the quarantine system for surveillance and management.	
		Concrete measure will be in place for the Bio agents through Phytosanitary measures		
Activities	High level meetings of relevant authorities in Fiji on biodiversity and	Meeting reports	Project proposals for establishment of the	Support from the Pacific island countries to establish the centre of expertise in Fiji

biosecurity, inviting relevant regional organizations to develop strategies and action plans of the regional center of expertise in Fiji		regional center of expertise in Fiji to be submitted to the targeted donors (at least for feasibility studies)	
 Review the list of IAS of weeds and the action plan Training on pest risk analysis and IMPACT ANALYSIS on potential Invasive Alien species Enhance Biosecurity measures to prevent the spread of the alien invasive species to the neighbouring countries such as New Zealand, Tuvalu, Samoa, Tonga, PNG and other countries Implement the sea container Cleanliness ASSURANCE MEASURES Develop a protocol with appropriate systems with the help of expertise to carry out the biological control of IAS (weeds) Spathodea species and Lantana camara 	Workshops and meetings with relevant department members and the stakeholders to evaluate the Invasive Species List and the presence of IAS weeds in different localities Number of staffs trained for field activities in various localities Pests risk analyses are completed for species and for the Bio control agents Ensure protocols are in placed through peer	Verified and validated list of IAS Trained staffs to conduct risk analysis Train the staffs to carry out the management of weeds with the means of Biological control or with other alternative methods Ensure the weed pests are not spreading to the new localities via surveillance in demarcated buffer zones.	Weed pest emerging at new places will be documented, immediately eradicated and reported High density of weed pests are controlled in a given time frame There will be no contamination of chemicals in environment; as biologically safe materials will be used.

review Identification and confirmation of alien species through DNA barcoding practicality Protocols are reviewed and are in placed

<u>Kiribati</u>

Objective: Rodent prevention, control & eradication

A1 Generating support

Outcome A1 - Impacts of Rodents invasive species

are widely understood and actions supported

OUTCOMES	ACTIVITIES	TARGETS AND	VERIFICATION	RESPONSIBILITY	COST AND		
		DATES			SOURCE USD		
1.1Community	Provision and	From 2016 onwards	Print listings and				
awareness on	Printing of Posters	begin process of	distributions reported	IASC, ECD, ALD,			
rodents broadened	for schools, public	designing, then	to Director ECD,	PIPA,			
via targeted	places (shops,	printing and	IASC?				
programmes	hospitals airport sea	replaced as needed					
	port etc) Kiribati						
	versions describing						
	species of rodents in						
	the country and their						
	impacts						
	(biodiversity, human						
	health etc) and						
	alerting the public to						
	watch out for new						
	ones						
	Upload information	From late 2016	Upload information	ECD, ALD, PIPA,			
	of Rodents through	onwards begin	and reported to				
	MELAD, ECD, ALD	process of uploading	Director ECD, IASC				
	website	through existing					
		website(melad, ecd,					
		ald)					
	Encourage and	Alert schools and	Schools provide	IASC, ALD, CDRC			
	support schools in	public to specific	feedback to IASC on				
	undertaking class	useful projects / case	their local surveys				
	projects / case studies	studies locally e.g.					

on Rodents	rodents in parts of South Tarawa and outer islands 2016 onwards			
Give school talks on Rodents	Take opportunities as they arise in 2016 and annually	Lists of schools and dates reported to Director ECD, IASC?	CDRC supported by ECD, ALD, PIPA,	
Integrate with PIPA/ALD awareness programmes and support outer islands awareness plan	2015 and annually building programme in later years	List of programmes achieved reported annually to Director ECD, IASC?	Interim coordination by IASC, PIPA advice	
Radio campaign on rodents, threats and management control	2015 and building annually	Annual list of interviews reported to Director ECD, IASC?	Interim coordination by IASC	
Signage, posters, etc. at focal sites,	2015 and building annually	Details of postings reported to Director ECD, IASC?	Interim coordination by IASC	
Utilize annual occasions and targeted meetings, for displays on rodents, e.g. Independence Day Environment Week, MELAD Week, World Food Day	2015 and annually	Report to Director ECD, IASC?	Interim coordination by IASC	
musical campaign on rodents	2016 and annually	Reports to Director ECD, IASC	Interim coordination by IASC	
Develop local awareness messages for specific sites e.g.	2016 ongoing	Reports to ECD, IASC	IASC with help from WCU	

	rodents, vulnerability						
	of Te Bokikokiko						
	and Kura at						
	Washington						
Rodents awareness	Meetings on site (at	2015 and onwards; at	Report details to	Interim coordination			
raised for domestic	traders) to discuss	CXI build on 2014	Director ALD,	by IASC			
traders and	issues and agree on	stakeholder	IASC?				
registered local	standard procedures	workshops with on-					
vessels distributors		site meetings					
and warehouses, etc.	Consider the need for	2015 onwards	Director ALD,	Interim coordination			
	rewards and		IASC?	by IASC			
	penalties, e.g.						
	publicity, awards,						
	contracts, and						
	implement						
	accordingly						
Local counterparts	Make contact with	Provide awareness	Foreign suppliers etc.	Biosecurity, IASC			
are aware of Kiribati	counterparts and	material from 2016	indicate precautions				
rodents vulnerability	provide information	onward, also provide	to Director ALD				
and take precautions	of rodents from	feedback to suppliers					
with cargo	countries of origin						
preparation	including ., Fiji,						
	Honolulu, etc. and						
	encourage hygiene						
A2 - Building Cap	acity						
OUTCOME 1.2: T	he mechanisms to	manage Rodents	effectively are in pla	ace through refined	technical skills,		
infrastructure, technical support, information management and support networks							
OUTCOMES	ACTIVITIES	TARGETS AND	VERIFICATION	RESPONSIBILITY	COST AND		
		DATES			SOURCE USD		
Kiribati IAS	Meet to discuss	Meet regularly	Minutes of meetings	IASC and quarantine			
Committee and	reviews issues, and	(monthly?	sent to Directors??	- link with regional			
coordinator advise	inter island	Bimonthly?) or more	Reports	partners e.g. SPREP,			
on rodents issues	movement (boat	frequently in		PII SPC, specialists			
spanning biosecurity	operators, Kiribati	emergencies, events					
(inter	port authority,	etc., enable sub-					

island)movements	quarantine) MOU, TOR, links with SPREP, etc.	groups for direct action, awareness etc. 2015 onward			
Rodents database and reports collected and maintained at central point(s)	Review and possibly revise format and content of rodents databases and reports and assign staff member to coordinate	Central depository agreed by 2015, some duplication needed at e.g. Betio quarantine office, CXI etc. Electronic copies assessable from environment websites.	Decisions communicated to stakeholders, Directors	IASC -	
Further staff training brings improved knowledge and effectiveness of rodents management, prevention and eradication	Ensure there are sufficiently trained staff to adequately deal with the increased rodents risks Use regional specialists to advise on specific rodent issues Attend workshops on rodents management, eradication etc Utilize GOK specialists or trained staff on rodents	Review how many trained staff are needed at key weak points e.g. Betio, CXI Linkages with SPREP, SPC, other specialists (ants, cats, etc.) increase 2015 onward Training with PILN, USP, SPC etc. workshops, build from 2015 More staff trained internally from 2016	Report to Minister Schedule of trained staff kept on rodents database Develop link with PILN to capitalize on many training offers	IASC, Director ALD	

Staff are adequately resourced and equipped to do effective rodents	and eradication Attachments to other countries, organisations e.g. NZ, AUS, FJ, SPREP, SPC Determine technical equipment and operating needs of staff and the funding	Links with PII (Souad Boudjelas), SPREP, SPC, etc., for providing details of what is available Develop lists, Seek funding 2016- onward Equip officers 2016	Staff have necessary technical manuals, equipment and operating budget to	Directors ALD, ECD, PIPA			
work	needed to meet this	onward	be effective				
Programmes developed to prevent rodents from invading non infected islands	Facilitate visits by rodents experts to CXI, TRW to advise on species of rodents	Developed programs completed 2017 onwards	Staff are accessible to programs	Quarantine, ECD,			
A3 - LEGISLATION, POLICY, PLANS, PROCEDURES Outcome 1.3 - Appropriate legislation, policies, plans and procedures are being used to drive the effective management of rodents, control and eradication.							
OUTCOMES	ACTIVITIES	TARGETS AND DATES	VERIFICATION	RESPONSIBILITY	COST AND SOURCE USD		
Biosecurity Act adequately addresses the biosecurity needs of Kiribati	Review Biosecurity Act to ensure that management of rodents, is reflected in the biosecurity act.	Quarantine, IASC discuss and identify specific amendments to BA 2016	Act amended 2017	Biosecurity, Director ALD, SPC			
Environment Act adequately addresses biosecurity and rodents management needs	Review components of Act, e.g. EIA needs to ensure biosecurity is addressed in detail	ECD, ALD, IASC meets to discuss and identify specific amendments to EA in 2016	Act amended if needed in 2017	IASC, Director ECD, ALD Director, SPREP			

Ports Act adequately	Review to ensure	IASC or reps meet	Act amended if	IASC, quarantine	
addresses rodents	biosecurity issues are	with Port and	needed in 2017	Unit, KPA	
pathway	addressed	relevant quarantine			
		Officer to identify			
		specific needs			
K-BSAP effectively	Review and revise	IASC 2016	Plan revised and	ECD, MELAD	
addresses	the K-BSAP		incorporates priority		
biodiversity			biodiversity needs in		
management needs			the three archipelagos		
Biosecurity action	Re visit local action	IASC meetings and	Action plans	IASC, Biosecurity,	
plans are live and	plans biennially, or	reviews completed	amended and	WCU (CXI), SPREP,	
relevant documents	sooner if required, to	from 2016 onwards	disseminated to	R Pierce	
	in line with		stakeholders		
	KNISSAP				

THEME B - BETTER UNDERSTANDING OF THE ISSUES

B1 - Baseline and Monitoring							
Outcome 2.1: Actions are in place to determine changes in rodents status and threats							
OUTCOMES	ACTIVITIES	TARGETS AND	VERIFICATION	RESPONSIBILITY	COST AND		
		DATES			SOURCE USD		
Rodent internal	Undertake	Plan developed and	Survey reports to	ALD/ECD			
distribution &	surveillance for	implemented 2016 to	ALD, and shared				
species and hosts is	rodent species, hosts	2017	with ECD & IASC				
updated throughout	and infested areas						
Kiribati							
Data recording is	Compilation of	2017	Survey reports	ALD/ECD			
updated	surveillance report						
	& analyst						
B2 – Priorities							
Outcome 2.2 - Effective systems are implemented to assess risk and prioritise rodent species for management							
OUTCOMES	ACTIVITIES	TARGETS AND	VERIFICATION	RESPONSIBILITY	COST AND		
		DATES			SOURCE USD		
Updated and	The assessment	Plans developed and	Progression	ECD, ALD			
centralized data of	monitoring plan is	protocols followed	assessment report.				

rodent with the ECD desktop.	incorporated with ECD /ALD annual work plan.	2015; ongoing liaison with experts				
Inter island biosecurity are in corporate with communities commitment and enforced.	Continuous community consultation campaign is implemented.	Plan are completed and implemented.	Public feedback	IASC, ALD, ECD		
B3 – Research Needs						
Outcome 2.3 - Knowledge is updated for priority bio bait for rodent that are harmless to environment and sustainable.						

NIUE

GOAL	By 2020, Invasive species in Niue will be reduced by 30% through appropriate mitigation methods that will reduce its threshold level to a level that would not have any severe impacts to the biodiversity and the livelihoods of all Niueans.					
PROJECT SUMMARY	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	RISKS / ASSUMPTIONS	COST and POTENTIAL SOURCE	
Outcomes	 Priority IAS are managed and prevent the spread of IAS across International borders and quickly detects and responds to those that arrive. Knowledge has been updated for priority IAS, including species biology and impacts, and development of effective management techniques. The impacts of priority established IAS have been eliminated or reduced by eradicating or controlling the target species. 	 1.1 The number of detections of new IAS arrivals. 1.2 The number of new IAS that escape detection 1.3 The number and effectiveness of responses recorded annually 2.1 The number of IAS information recorded 2.2 The number of effective management techniques developed 3.1 The number of targeted AIS reduced and/or eliminated 3.2 The number of incidents 	 Incident reports and log books Annual or bi-annual Pest survey reports(authenticated results from Land Care New Zealand) Mid-term review and evaluation report NISSAP revised document Weed Bio-control report Prioritised AIS database Pest management practices related to the pest survey results from annual or bi-annual census Pacific Region Weed Led Management Database /system 	Assumption: Sufficient resources and capacity available. Methods exist to detect all incursions. Baseline data from quarterly/annual/bi-annual census is maintained Biodiversity health status is achieved Food security is maintained Increase in crop production	GEF 6 Potentially GEF 7 STDF GBIF	

		have declined	- SPC Pest List database Terminal evaluation report		
Outputs	 1.1 Effective management methods for priority IAS are in place 2.1 Inspection and treatment procedures are improved to reduce the risk of new IAS threats to Niue 2.2 Measures are in place to control the spread of IAS within Niue 2.3 Early detection and rapid response (EDRR) procedures are established for priority potential invaders (species to be identified based on a pathway review and their potential impact) 3. 3.1 Bio-control programme is developed and released for 	 2.1 Quarantine Holding facility at the port(wharf) is established 2.2 Improved capacity of Quarantine Staff -qualified officers at port for quarantine procedures Equipment are available for pest diagnostics Current Ballast water Regulations or guidelines updated. Beneficial Biological Control agents in the Pacific is available for IAS control in Niue 	Management review and audit reports IS information available DoE annual reports DAFF annual reports Agriculture Census Interception reports Refer to the current NISSAP Survey Results from Quarterly census Pest list database updated	Annual audit and review of management systems. Pest Risk analysis for all imports is documented IAS Management The number of agents released and managed	

	appropriate target IAS		
Activities	1.1a Collate relevant information on the biology and ecology of priority AIS and best practice management methods		700k
	1.1b Review existing pig management strategy, identify achievable management goals, and redesign program		
	2.1a Identify potential AIS threats, based on pathway analysis and risk assessment(s), coming from other countries and develop appropriate pre- border and at-border interventions for priority AIS		
	2.1b Train Quarantine staffin identification ofpotential new AIS2.1c Investigate ways toimprove the enforcementof existing legislation toinclude AIS		

	-	
2.1d Identify and address issues associate with ballast water and		
hull-fouling of commercial of commercial and recreational vessels at port and main vessel routes		
2.1d Ensure EIA is conducted before any live animal imports to the Quarantine Farm		
 2.2a Develop awareness programs to reduce risks of in-country movement of AIS subject to control or eradication programs. Target heavy machinery 		
etc involved in road construction and maintenance 2.2b Carry out regular		
monitoring at distribution centres (Vaipapahi and Mutalau SLM farm) for plants to identify AIS at		
risk of distribution e.g. yellow crazy ants, weeds) 2.3a Adapt the generic		
SPC Emergency Response		

Plan (ERP) to address threats to the natural heritage		
livelihoods of Niueans 2.3b Identify potential invaders associated with the new shipping route and ensure these are addressed in plans and procedures 2.3c Review pathways identified for AIS to reach Niue and carry out risk assessments for any new pathways as they arise 2.3d Carry out surveys for marine invoices around the port 2.3e Establish an on site holding facility at the port		
3.1a Identify existing bio- control agents for priority AIS in priority sites identified		

<u>Palau</u> **Project Title:** Integrating biodiversity safeguards and conservation into development in Palau

Duration: 2 years Possible donors: Palau GEF 6, Micronesia Conservation Trust

	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	RISKS / ASSUMPTIONS	COST AND POTENTIAL SOURCE
Goal	Rehabilitation of coastal and terrestrial ecosystems and responsible management of tourism, fisheries and aquaculture in the Southern Lagoon states of Koror and Peleliu	Percentage of coastal and terrestrial ecosystems, responsible management of tourism, fisheries and aquaculture in the Southern Lagoon of Koror and Peleliu are rehabilitated with native species.	Comparison of records between the Division of Forestry, Division of Fisheries & Aquaculture, Bureau of Tourism, Koror and Peleliu state governments. Database of plant inventory by the Division of Forestry	Decrease of tourism, border biosecurity failure, green fund discontinue to disburse profits	(-Project implementation review -Independent review -Midterm review -Midterm evaluation)
Outcomes	 Reduced invasive species impact on terrestrial and coastal ecosystems The tourism 	Increase of non- invasive native species in ecosystems, tourism sector establishments and aquaculture	Division of Forestry, Division of Fisheries & Aquaculture and Koror and Peleliu state governments	Relate with the Palau SAP GOAL 2: To prevent the introduction and establishment of invasive species.	
	 The tourism sector is replacing invasive species with non-invasive native species. Tourism sector support and apply 			NOTE: Goals 2 and 4 are closely related, and their implementation must be coordinated	
	best			GOAL 3 Reduce negative	

	environmental practices with visitors 4. Reduced impact of tourism, fisheries and aquaculture in the states of Koror and Peleliu			impacts of existing invasive species. GOAL 4 Develop and implement more effective collaboration, coordination and participation in efforts and initiatives for invasive species prevention and management among state, national, regional, and international partners.	
Outputs	 All tour guides and operators complete the biodiversity friendly training certification. Tourism sector funding is channeled to the state governments of 	 Majority of restored areas involve number of native plants are planted in more than 50% percentage of areas. PAN Fund is regularly approving 	 Number of native species provided by the Division of Forestry and Division of Fisheries & Aquaculture. 	Depending on the number of awards by the Recognition Program during the Tourism Symposium of the Belau Tourism Association.	

	Koror and Peleliu ecosystem conservation programs and database 3. Piloting of private- community partnerships for conservation and restoration of mangrove forests and other conservation initiatives, such as working with hotels and tourist resorts to convert landscaped gardens using exotic plants to non-invasive species and ensure non- invasive species used in future.	funds for priority conservation projects 3. The number of awards from the Recognition Program of the Belau Tourism Association to establishments such as hotels, restaurants, tour operations.			1 Outrooch
Activities	 All tour guides take the Tour Guide Certification class 	 A number of tour guides receive recognition awards from the 	 Records from the Dept. Of Conservation & Law 	Native non- invasive species thrive in ecosystems, and biodiversity	awareness, publications & interpretations: \$20k

	 and apply the best practices from the Responsible Tourism campaign 2. Both states run Ecosystem Rehabilitation Programs. 3. Tourism establishments acquire non-invasive native species from the Bureaus of Forestry and Aquaculture. 	Tourism Symposium for applying best practices with guests	Enforcement of Koror State Government 2. Ecosystem inventory database from the Bureaus of Forestry and Aquaculture 3. Best practices criteria	is protected in Koror and Peleliu states.	 Meetings & conferences: \$5k Signs & billboards: \$20k Labour & compensation: \$20k Restoration materials: \$20,000 Total: \$85K
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Papua New Guinea

DEVELOPMENT OF PROJECT PROPOSALS ON AICHI TARGET 9: PNG

1. BACKGROUND: PRIORITY ACTIONS FOR PNG ON INVASIVE ALIEN SPECIES UNDER THE NBSAPS OF PAPUA NEW GUINEA

	Actions in order of Priority	Linkages to National Plans and	Linkages to Regional and
		Strategies	International Policies
1	Prevent and Protect native species and habitats from established and alien invasive species	NBSAP 2007 PNG Protected Areas Policy	UNCBD: Article 8Cartagena Protocol
2	Develop and legislate emergency respond plans and early warning	•NAQIA Act 1997	Guidelines for Invasive
	systems for alien invasive species	• Fauna Control and Protection Act	Species Management in the
3	Develop protocols and strategies to enforce, manage and mitigate	Biosecurity Bill	Pacific
	invasive species	 Biosafety and Biotechnology Bill 	
		•NARI Act 1996	
4	Improving the knowledge and understanding of key stakeholders and	Plant & Animal Disease Control	
	the wider public of invasive species and their impacts	Act 1953	
5	Fostering regional and international cooperation and collaboration		
6	Review biosafety and biotechnological framework and Bill		
7	Enact Biosecurity Bill and Regulations		
8	Seek political support		
9	Training and technical capacity building and enhancement		
10	Improving border control and management		

PAPUA NEW GUINEA: PROGRAMME PROPOSAL TO IMPLEMENT AICHI TARGET 9: SUMMARY

Project Title	"PREVENTION, CONTROL AND MANAGEMENT OF INVASIVE ALIEN SPECIES IN PAPUA NEW GUINEA"
Duration	5 Years (2017-2022)
Implementing	UN Environment Programme (UNEP)

Agency			
Executing Agency	National Agriculture, Quarantine Inspection Authority (NAQIA))	
(ies)	Conservation and Environment Protection Authority (CEPA)		
	Source	Туре	Amount (USD\$)
Budget	Government of PNG	Cash	500,000
		In-kind	500,000
	Other Partners	Cash/In - Kind	
	GEF 6	Trust fund cash	5,000 000
	Pacific IAS Regional Capacity Strengthening Project	Trust Fund grant	
		allocation	
Total			6,000,000

PROGRAMME TITLE: "PREVENTION, CONTROL AND MANAGEMENT OF INVASIVE ALIEN SPECIES IN PAPUA NEW GUINEA"

Programme Objective: "To reduce the environmental, economic and social impacts of invasive alien species in Papua New Guinea"							
Project	Expected	Targets	Actions/Activities	Measurable	Finance		Responsible
Components	Outcome (s)			Indicators	Est Cost Source		Agency (ies)
					(USD \$)	Source	and Partners
1: National	1.1. Institutional,	1.1. An	1.1. Develop Papua	1.1. PNG	1,000,000	Pacific	
Enabling Policy	policy and legal	Institutional and	New Guinea's National	NISSAP		IAS	CEPA
and Institutional	framework for	policy	Invasive Species	2016-2020		project	NAQIA
Framework for	effective	framework for	Strategy and Action	Document			DJAG
Prevention,	coordination and	Prevention,	Plan (2016-2020")			GoPNG	PMNEC
Control and	management of	Control and		1.2. Gazettal			Customs
Management of	IAS operational in	Management of	1.2. Review and Enact	Notice		GEF 6	NMSA
the IAS	the country, are	IAS in PNG is	the Draft Biosafety and				BDA
	strengthened and	upgraded and	Biotechnology Policy	1.3. Gazettal			PNGDF
	enhanced	improved by	and Bill	notice			PNG Ports
		2018					Coorporation
			1.3. Enact the				_
			Biosecurity Bill				
			-	1.4. SOP and			
			 1.4. Review and conduct needs analysis on the existing SOP and Protocols 1.5. Update standard operating procedures and protocols 	Protocol documentation			
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2: Enhance systematic, organizational and individual capacities to manage invasive alien species effectively	2.1. Appropriate Skills , Technologies, tools and expertise to control and manage IAS are strengthened and supported	2.1. Appropriate Skills , tools, Technologies and expertise to control and manage IAS are in place in a coordinated manner by 2020	 2.1. Establish and maintain a system of technical advice and support based on a national register of invasive species experts and their expertise 2.2. Establish an integrated database and information management system on invasive alien species in the country 	 2.1. National Register of IAS experts, tools, skills and technology 2.2. Database of IAS in PNG 	1,500,000	GEF PAS GoPNG GEF 5 & 6	CEPA NAQIA NARI PNGFA NFA DAL DoT Customs PNG Ports NAC PNG Air Services NMSA DNPM
			2.3. Strengthen Institutional capacities in biological research and development.2.4. Cross sector training and enhancement of knowledge in invasive alien species	2.3. Number of biological researches carried out2.4. Number of trainings conducted			

3: Public	3.1. Prevention,	3.1. Awareness	3.1. Identify target		500,000	GEF	NAQIA
Awareness and	control and	programmes and	audience or populace		,	PAS	UPNG
Support	management of	tools are	1 1				NARI
	impacts of IAS are	documented and	3.2. Collate and			GoPNG	PNG
	documented and	available by	conduct baseline				Unitech
	supported at all	2017	studies or surveys on			GEF 5	University of
	levels		IAS information			& 6	Natural
							Resources
			3.3. Documentation of				NRI
			IAS information in the				Binatang
			country				Institute
			, and a g				National
			3.4. Publication of				Forestry
			information on IAS				Research
							Institute
							NFA
							PNGFA
							WCS
							CI
							TNC
							Provincial
							Govts
	3.2. Regional and		3.2.1. Develop	3.2.1.	500,000		
	international		Mechanisms to	Monitoring,	,		
	cooperation and		integrate national IAS	Evaluation			
	collaboration		management	and Reporting			
	established and		strategies/plan into	Template			
	enhanced		regional and	-			
			international	3.2.2.			
			programme framework				
			for technical and				
			funding assistance				
4 NT /4					1 500 000	OFF	
4. National Pilot	4.1. Established	4.1. Total	4.1.1 Public Awareness		1,500,000	GEF	NAQIA
Projects of	alien weeds into	Eradication of	4.1.2. Delimiting			PAS	CEPA

Drovention	watershed and	Miconia Trac	Survey			Customs
Prevention,	watershed and	Miconia Tiee,	A 1.2 Conducting		CODNC	Dravin sis1
Control and	agricultural lands	Miconia	4.1.5.Conducting		GOPING	Provincial
Management of	are eradicated and	<i>calvascens</i> in the	I raining of key			Govts
Priority IAS on	controlled from	Highlands of	personnel /stakeholders		GEF 5	Landowners
specific habits	spreading	Papua New	4.1.4.Acquire		& 6	Communities
and sites in PNG		Guinea by 2019	appropriate equipment			
			and technology			
			4.1.5.Mechanical and			
			chemical control			
			4.1.6.Monitoring and			
			Evaluation			
			4.1.7.Reporting to			
			relevant national,			
			regional and			
			international authorities			
			and organisations			
		4.2. Combined	4.2.1. Conduct	1,000.000	GoPNG	NAQIA
		Biological	Awareness, and Risk			CEPA
		Control of Giant	assessment		GEF 5	Customs
		Sensitive weed,	4.2.2. Importation and		& 6	Provincial
		<i>Mimosa pigra</i> in	Post entry quarantine of			Govts
		the Central, Oro	bio control agent			Landowners
		and Madang	4.2.3.host testing and			Communities
		Provinces of	approval from			
		PNG by 2019	conservator of fauna			
			and flora			
			4.2.4. Training of field			
			and laboratory officers			
			4.2.5. Field releases			
			and augmentation			
			4.2.6. Monitor and			
			Evaluation			
			4.2.7. Reporting to			
			relevant national.			
			regional and			

		and organisations		
Total			6,000,000	

<u>Samoa</u>

SAMOA'S PRIORITY ACTIVITIES FOR THE NEXT 5 YEARS - IMPLEMENTATION OF TARGET 9 . THE PRIORITY ACTIVITIES ARE IDENTIFIED IN THE SAMOA'S NATIONAL BIODIVERSITY STRATEGY AND ACTION PLAN AND THE SAMOA'S NATIONAL INVASIVE SPECIES ACTION PLAN

Objectives	Activities	Timeframe	Targeted Donor	Costing (USD)	Responsible Ministry
1) To eradicate invasive species from selective sites with biodiversity values	1.1) Carry out mammal eradication on Nuutele and Nuulua Islands (biodiversity values)	2018-2020	Island Conservation GEF 6	286,415	MNRE
2) To control target invasive species and restore vulnerable ecosystems	2.1) Control and manage the spread of avian species focusing on common & jungle Myna, and the Red-vented bulbul birds in Samoa	2017-2021	Green Climate Fund (GCF)	500K	MNRE
	2.2) Restore and rehabilitate the native forest of Mt Vaea Reserve, by planting native plant species	2019-2021	Green Climate Fund (GCF) Rainforest Restoration Funds	1M	MNRE
	2.3) Manage Invasive mammals and weeds found on Malololelei Reserve and restore forest by replanting with native plants	2017-2021	Green Climate Fund (GCF) GEF 6 Rainforest Restoration Funds	100K	MNRE
	2.4) Manage the merremia peltata at Le Pupu'e National Park	2017-2021	GEF PAS 6	120К	MNRE
3) To ensure new and already established invasive species are	3.1) Revise and update bio-security protocols and ensure Invasive lists is updated		TDF, NZAid, GEF 7, GEF-SGP	1k	MAF - Quarantine Division

prevented from entering the borders of Samoa	 3.2) Conduct import risk analysis for newly imported species 3.3) All planes and ships entering the borders are monitored through screening process. 3.4) Approve and implement the Samoa Invasive Species Emergency Response Plan (SISERP) strategy 	2017-2020			MNRE
 To monitor the spread of Invasive species 	4.1) Conduct a delimiting survey for the distribution of rattan palm at Papaseea site and district	2017	SPC	30k	MNRE
	4.2) Eradication of newly detected IAS	2015-2020	GEF PAS 6	20К	MAF & MNRE

Samoa Biosecurity – A coordinating process among the Ministry of Agriculture and Fisheries (MAF) and the Ministry of Natural Resources and Environment (MNRE)

	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	TARGETED DONOR	COST (USD)	RISKS / ASSUMPTIONS
Goal	To prevent the introduction of alien species with high risk of invasion.					
Outcomes	Priority alien species with high risk of invasion are (eg: mongoose, cane toad and Red	Number of successful interception.	Interception Reports Incidence Reports	GEF 6, Island Conservation	30k	Lack of Resources (e.g. man power, points of entry)

	Imported Fire Ant) effectively intercepted at the border before they establish					
Outputs	 To strengthen the existing risk analysis procedures and associated import protocols for proposed new introductions. Enhance the current inspection system and procedures to ensure that invasive species are not transferred from one country to another or between islands of the same country (e.g 	 1.1 IRA procedures reviewed and implemented. 1.2 Number of species assessed. Pathway risk assessments made. 2.1 Biosecurity measures in place 2.2 Number of staff working in border protection. 3 Increased in the number of interceptions. 4 Increase inspection and treatments of 	 1.2.1 Import Risk Analysis Reports and Databases 2.2.1 Reports from Biosecurity. 2.2.2 Invasive Species management strategy documents and reports 3.2.1 Community Awareness 4.2.1 Emergency Response implementation and monitoring 	Island Conservation, GEF 6	150k	Staff Turnover. Enhanced staff skills and knowledge in pathway risk assessment should be needed

	 Main Island to Nuulua and Nuutele). 3. Increased awareness, engagement and capacity building for alien species.with high risk of invasion 4. Bed in the Samoa Invasive Species Emergency Respose Plan (SISERP) system so that it is fully operational and able to react to maximum efficiency 	high risk commodities 2.5 Emphasis on biosecurity between islands within a country increased. 3.1 The level of awareness and capacity that exist. 4.1 Relevant Agencies are familiar with the Samoa Invasive Species Emergency Response Plan.			
Activities	identify pathways via which the organisms can		GEF 6,	30K	Capacity of border authority to inspect and

enter new areas			identify alien
(e.g. species			species
spread naturally,			-
species that are			
accidentally			
introduced (e.a.			
hitch hikers).			
Species that are			
deliberately			
introduced. (e.a			
ornamental trade.			
new genetic nurserv			
stock)			
Pre-entry:			
Identify the			
organisms or			
aroups of			
organisms that			
pose risks and			
assess their			
potential impacts.			
Entry (Border):			
inspection of goods:			
checking that goods			
meet conditions of			
entry: treatment if			
required. Post Entry			
Quarantine			
available.			
Post Border			
Action:			
Emergency actions			
Knowing how to			
respond if an			
invasive species is			

detected can minimize the impact that the species has on an area and maximize the potential to control or eradicate it (e.g. ERP).			
Assist other government departments regarding the monitoring, control or eradication of invasive species.			

Samoa Offshore islands restoration

	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	RISKS / ASSUMPTIONS
Goal	To restore the biodiversity assets of Samoa through the management of invasive rats and yellow crazy ants on the offshore islands of Aleipata (Nuutele, Nuulua and Namua)			
Outcomes	Population of native fauna of Samoa increases.	Number of endemic and rare birds, invertebrates, reptiles increases.	Project implementation review Mid term review	

	Native vegetation cover restored	Percentage of Native forest cover increases	Mid term evaluation – Terminal evaluation	
Outputs	 Operational Plan for the management of IAS on the offshore islands of Aleipata is developed. Invasive predators (rats and yellow crazy ants) are successfully controlled and/ or eradicated. Increased awareness, engagement and capacity building on management approaches for invasive rats and yellow crazy ants. 	 1.1 Operational Plan for the management of IAS on the offshore islands of Aleipata is effectively implemented. 2.1 No significant reduction on the population of rare species such as the friendly ground dove as a result of the baiting operation 2.2 Species indicator improved and response to the baiting operation 3.1 Number of new incursion on the offshore islands. 3.2 Re-established the MPA Committee 3.3 Strengthen participation and 	 1.1.1 Peer reviewed operational plan 2.1.1 Non target species monitoring results 2.2.1 Monitoring data collected in accordance with the biodiversity monitoring plan. 3.1.1 Surveillance survey report 3.2.1 MPA committee has TOR 3.2.2. guideline on managing developments on island i.e. pigs and chickens 4.1.1 Biosecurity Plan 	Risk: Conduct awareness and educational programs for the community to take ownership of the value of biodiversity 1.1.1.1 Land owners are not cooperative and island restoration is therefore limited 3.1.1.1 Eradication operation fails 3.1.1.2 Lost of community interest and support overtime Assumption4; Community are supportive of conservation efforts for Aleipata islands
		commitment of land		

		owners to effectively manage resources	
4.	Measures/protocols are in place to prevent the predators from getting back to the islands	4.1 Biosecurity protocols established and community supports.4.2 Protocol sign boards installed at the entry points.	

Samoa Management of IAS birds

	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	RISKS / ASSUMPTIONS
Goal	Native ecosystems is restored through the management of priority invasive birds in Samoa			
Outcomes	Myna bird population trend significantly reduced			
Outputs	 Research on the biology of Myna birds 	1.1 Research results on indicator native species population documented	1.1.1 Myna bird population decreases and indicator native species population	1.1.1.1 Re-introduction of mynas

			recovers	
Activities	 Survey of priority sites for myna species population control Set-up community central operation point to monitor each activity 	2.1 Control program progress report3.1 Community operations monitoring reports	2.1.1 Same as above 3.1.1 Community engagement	Control operations disruption due to other factors i.e. funding, control operation is slow compare to population growth, community not helping

Samoa Manumea management

	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	RISKS / ASSUMPTIONS
Goal	To save the Manumea from extinction			
Outcomes	Numbers of Manumea are sufficient to down-list the status of Manumea from Critically Endangered to Vulnerable	Manumea numbers meet criteria for down-listing according to IUCN Standards		
Outputs	2. Four populations of Manumea are stable or increasing by 2020.	 1.1 Survey results from quarterly census 2.1 Number of birds successfully raised to breeding age in captivity and in wild 	1.1.1 Survey results 2.1.1 Breeding records of birds in captivity and in wild	Risk: 1.1.1.1 Land owners are not cooperative and predator control is therefore limited
	3. research and design	and in wild 3.1 Survey results of cat and rat trapping	3.1.1 Predator survey results	2.1.1.1 Captive birds are unable to breed 3.1.1.1 Invasive Predators sometimes

	for developing of captive breeding facility initiated and facilitated by 2018	4.1 The level of awareness and capacity that exist.	4.1.1 Community awareness and capacity survey results documented	don't respond to 5.1.1.1 Lost of community interest and support overtime
4.	Invasive predators (cats and rats) are being successfully controlled over the core range of the	5.1 Number of agreements with communities signed	 4.1.2 Number of communities engaged in Manumea recovery efforts 5.1.1 Number of Community Conservation Areas established 	Assumption4; Community are supportive of conservation efforts for Manumea Assumption5:
5.	Increased community awareness, engagement and capacity building on Manumea conservation.			Assumption: There are enough birds can be caught to establish a captive population
6.	Establish Community Conservation Areas for Manumea recovery and protection			
7.	Develop partnership to assist in recovering of the Manumea through provision of funds support or expertise.			
8.	Re-establish and formalise an existing			

	Threatened Bird		
	Recovery Group to		
	advice on the		
	implementation of		
	Manumea		
	conservation efforts in		
	Samoa		
Activities	1.1 Census and monitoring		
	threatened bird populations		
	every 3 months		
	1 2 Nest identification		
	surveys are conducted		
	weekly at known breeding		
	sites		
	1.3 Landowners are		
	engaged and educated in		
	species and habitat recovery		
	programs		
	2. 1 Captive breeding facility		
	approved by 2018 according		
	to best-practice		
	3.1 Intensive cat trapping in		
	known breeding areas		
	3.2 Rodent bait stations		
	maintained across the known		
	range of Manumea.		
	4.2 Work with communities		
	to establish community		

conservation areas in Manumea range.		
4.3 Training and awareness for MRNE staff and local communities on Manumea conservation and survey techniques,		
4.4 Review Manumea Recovery Plan in 2016		

Solomon Islands

Solomon Islands: National Invasive Species Strategic Action Plan

Target :(Solomon Islands' revised NBSAPs 2016)

By 2020, invasive alien species and pathways in Solomon Islands have been identified and, measures are in place to control potential entry of new invasive species. Developed and adopted an implementation plan to control or eradicate current invasive species that are threatening food security, trade and biodiversity including human health. Strategic Goal: To ensure biodiversity of the Solomon Islands is protected from introduced and modified species through legislation, monitoring, research and awareness.

Themes	Objectives	Priority	Timeframe	Partner	Targeted	Cost
		Activities/Actions			Donor	
1. National Coordination and collaboration	To improve coordination and collaboration at national level for effective management of invasive species through strengthening of responsible authorities (public and private sectors).	Establish a national invasive species committee and to develop a National Invasive Species Strategic Plan.	2016 - 2017	MAL, MFMR, MoF, MoF	SIG, GEF 6	USD 20 k
		Strengthen coordination & collaboration (intra-island biosecurity) between responsible authorities.	2016 2020			USD 50 k
		VVORK CLOSELY WITH SPREP	2016-2020			USD 10K

(PIILN), SPC, and other regional organisations to strengthen invasive species planning and management in the country.		
Protocols governing the importation and distribution of all organisms reviewed and strengthened.	2016-2017	USD 10k
Rapid-response plans and procedures developed overtime and implemented to deal with new incursions of invasive species and prevent them from becoming established in the country.	2016-2018	USD 50k

2. Capacity Building	To strengthen appropriate border control legislations (e.g. Quarantine) to reduce threats from new invasive species and genetically modified organisms being introduced into the country.	Improve capacity to Enforce Biosecurity Act 2013 and other relevant legislation to improve protection against introduction of invasive species and negative impacts.	2016-2018	USD 30K
		Supporting and strengthening border control through training and improved facilities.	2017-2020	USD 100 K
3.Research and Monitoring		Monitoring programme are designed and implemented to identify pathways and monitor the arrival of new invasive species at ports of entry (e.g. airports, sea ports).	2017- 2020	USD 20 K
		Undertake studies and continue to monitor potential entry of marine invasive species especially within ports, marinas and locations where logs are loaded onto ships	2017 -2020	USD 50 K
		Undertake research on introduced and native invasive species under	2018 - 2020	USD 50 K

(
		changing conditions such as			
		waste and climate change.			
		Undertake research on the	2017- 2020		USD 50 K
		intra specific effects of			
		invasive species on their			
		native counterparts such as			
		the effect of cane toad on			
		indigenous frogs; the			
		Common Myna, Acridotheres			
		tristis and the European			
		House Sparrow, Passer			
		domesticus on native birds.			
		Develop research and study	2017-2020		USD 50 K
		on economic, social, health			
		and environment impacts of			
		IAS.			
4. Education		Develop Education and	2017- 2020		USD 30 K
and		awareness programme			
Awareness		(tools, kits) for schools and			
		communities			
		raise awareness on the			USD 20 K
		impacts of invasive species			
		on biodiversity, economy,			
		human health and cultural			
		values.			
5.	Develop and implement	Review available information	2017 - 2020		USD 50 K
Establishment	national invasive	on invasive species and their			
of baseline	species management	impacts in the Solomon			
data	strategy to manage	Islands; identify priority			
	established invasive	threats, species and actions			

	species within the country.	to manage them which will be implemented during the next five years.		
		IAS national database to be developed and update baseline information on the status and distribution of IAS and a programme to detecting range change & emerging impacts.	2016-2020	USD 35 K
6. Management and Eradication of IAS.		Document & promote locally known biological control for IAS, e.g. GAS from red ants, Makira millipede, earth flatworm(Platymus Manokwarii)	2017-2020	USD 30 K
		Support programs for Management and restoration of target species especially GAS, CRB, CB	2017-2020	USD 70 K
		Use introduced Bio-control agents to manage and eradicate invasive species using appropriate best practices.	2017-2020	USD 20 K

Solomon Islands: project logical framework

Project Summary	Indicators	Means of Verification	Risks/Assumptions
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Goal	To protect biodiversity, enhance food security and reduce negative economic impacts caused by invasive species in the Solomon Islands. (About 70% of GAS and CRB are contained and eradicated from affected site size of 22-30km ² (within Honiara & surrounding)).	-Ecosystem health restored, -Recovery of affected food crops (e.g coconuts, slippery cabbage, and cassava) -Negative economic effects of commercial crops (e.g copra & cocoa) avoided or reduced (60%).	-Comparison on the health of previously affected ecosystem and the restored ecosystem. - comparison on the scale of previously affected food crops and the recovered food crops - Comparison on the Number of previously affect plants and the rehabilitated plants.	-
Outcomes	 Biodiversity protected (better management), food crops secured and negative economic impacts/effects on commercial crops reduced through holistic and integrated management approach. (A multi-stakeholder eradication and management programme in place to effectively manage GAS and CRB). 	-Better protection of biodiversity from invasive species -Healthy food crops due to eradication of invasive species. -Commercial crops are healthy from invasive species effects.	-Status of Biodiversity in the SOE assessment/report documented. - Market produce are healthy and abundant. -Local and National economy earn maximum profits from sale of products.	-Other impacts on biodiversity, foods crops and causes of negative economic impacts needs to be identified or are under control.
Outputs	 1.0. Collaborative work plan on management and eradication of invasive species developed. 2.1 Coordination mechanism between national government, provincial gov't and other stakeholders is in place and effective. 2.2 Engagement of shipowners and 	-Work plan for management and eradication of invasive species is in place. -Agreement and MoUs in place for stakeholder's cooperation and support.	 Records and reports on strategic activities done for invasive eradication in a timely manner. Obtain record on agreements and MoUs signed by National, Provincial government and other stakeholders. Quarantine inspection 	 -Management is necessary for better management of IS in the country(A) -Risks of need for political stability, other priorities and agenda etc.

business industries to prevent spread of	-Ship inspection and	certificate and awareness	
invasive species to Provinces.	invasive species	reports submitted.	-Inspection process might
	awareness programme		delay business & shipping
3.0 Capacity to implement ISPM 3 is	in place	- Reports on meeting	schedules.
developed and in place (within the	-Training on ISPM 3	-ISPM 3 is in place.	
country).	undertaken.		-
		-Responsible respond	
4.0 All nine (9) Province (responsible	-Emergency respond	effectively to incursion	
authorities) develop emergency responds	plan are in place and	and possible invasive	-Scattered and isolation of
plans for incursions of invasive species.	mock exercises done	emergencies.	Islands (time &
	for all nine Provinces.	-Presence of biosecurity	resources).
5.0 Border control and monitoring	-Border control	officers stationed in	
mechanism developed.	mechanism in place	major port of entries for	
		monitoring.	-
		- Availability of Scan	
6.0 The facilities for biosecurity border	-Improved facilities in	machines, fumigation	
control are provided and improved.	place.	equipment, Bio-control	
		agents, and surveillance	-Maintenance issues and
		boats.	costs for replacements.
		- Pathways identified and	
7.0 Pathways of the invasive species has	-List of pathways	monitored.	
been identified and plan for mitigation	developed and		
established.	mitigation plan in		-All sources of entry is
	place.		monitored and remains
			under control
			(assumption) & risks of
8.0 Study and regular monitoring of		-Seaport marine	illegal entry.
seaports in all provinces.	-Reports produced on	environment is free of	
	the status of the seaport	invasive and reported.	-Limited funding to do
9.0 Study done on introduced and native	marine environment.	-Records and knowledge	study.
invasive species in relation to climate	-Report produced on	on the status of	
change and waste.	the status of introduced	Introduced and native	Climate change and waste
	and native invasive	invasive species	issues might divert the
	species in relation to	improved.	focus of invasive species
10.0 Inter-specific effects between	CC & waste.		issue.

Invasive species and target species		-Records & work done to	
documented.	-Documentation of the	address interspecific	-Interspecific effects is a
	inter specific effects	effects between IS and	priority(assumption)
	between invasive and	Target species.	
	target species.	o o r	
11.0 Environmental, social, economic		-Decisions (using	
health and cultural impacts of Invasive	-Reports on	guideline developed)	-Political influences can
species study produced for better decision	environment social	made in consideration of	be a risk to decision
making at the national level	economic health and	environment social	making
maxing at the national level.	cultural impacts is	economic & cultural	muxing.
	produced(used for	impacts	
	SOF)	impacts.	
12 Invasive species Educational Toolkit	SOL)	-Invasive knowledge	
developed for Schools		amongst students and	
developed for Schools.		schools improved using	-Duplication of school
	-Brochures posters	these materials	curricula and
13 Invasive Species National Awareness	namphlets and stickers	-Do survey on the	programmes(risks)
nrogram has been developed	available for schools	awareness of invasive at	programmes(msks)
program nas been developed.	avaluate for senoors.	the national level	-Passive attitudes of the
14 National Invasive Species Database	-Radio talk back show	- Availability of invasive	public on certain issues
developed and Managed	and programmes done	species lists etc	public on certain issues.
developed and managed.	und programmes done.	species lists etc.	_
15. Maps of invasive species affected	-National invasive	-Maps are available for	
areas identified and developed.	species(IS) database in	planning andon	
1	place	eradication activities.	_
	-GIS maps produced on		
16. Establish locally known Bio-control	the distribution of IS.	-Invasive species	
agents.		eradicated using bio-	-Risks of side unknown
		control agents.	effects and impacts on the
	-List of locallv known		use of bio-control.
	bio-control agents.		
17. Programs for Restoration and	generated(awareness &		
Management of impacted targeted species	promoted)	-Reports on the effective	
have been developed.	1	restoration of the target	-
r		invasive species.	
			I

	18. Introduced bio-control agents are certified and approved to be used for managing and eradication of IS	 -Restoration and management of impacted target species is in place. - List of Certified Introduced bio-control agents is in place 	-Introduced bio-control agents is effectiveness reported.	-
Activities (National Coordination and Collaboration)	1. Establish a national invasive species committee and develop a National Invasive Species Strategic Action Plan through collaborative networking.	1. IS committee and NISSAP is in place	1-Committee is in place and NISSAP is implemented.	-Limited monitoring and reporting on the implementation.
	2.1 Regular meetings of purpose task of technical committee with outcomes.2.2 Inspection of ships and other marine vessels at main loading and landing ports of the nine provinces.	 2.1 Minutes and Conclusions of Meetings made available 2.2 Inspection certificates issued by 	2.1- Meeting tasks and purposes fulfilled.2.2- Records of certificates issued.	 Process in regular meetings and workload. Shipping and business schedules and time issues
	3. Protocols governing the importation and distribution of biological control agents has been produced, disseminated and verifi y for effective advocacy.	Quarantine office. 3. Protocols governing the importation and distribution of biological control	3. Report on processes in place and followed.	-Urgency & nature of certain invasive issues could be a factor.
	4. Rapid-response plans and procedures developed overtime and implemented to deal with new incursions of invasive species and prevented from establishment.	agents in place. 4. Rapid-Responds Plan in place.	4- Refresher/mocking Exercise on Emergency Responds Plan.	-Might be a confusion to other disaster emergency exercises.
Capacity Building	5. Improve capacity to Enforce Biosecurity Act 2013 and other relevant legislation to improve protection against	5. Training done and enforcement of Biosecurity Act.	5. Number of Trainingsdone and Biosecurity Act2013 effectively	-Staffing capacity could be an issue.

	introduction of invasive species and negative impacts.	6. Training workshops	implemented.6. Biosecurity Officers	-Assume that other
	6. Training workshops done to support and strengthen border control with improve standard facilities in place.	conducted to support border control.	effectively monitored and controlled.	factors are also under control.
Research and Monitoring	7. Identify pathways and monitor the arrival of new invasive species at ports of entry (e.g. airports, sea ports).	7. IS pathway are identified and monitoring program in	7. IS pathways are under control.	-Lack or limited collaborations.
	8. Undertake studies and continue to monitor potential entry of marine invasive species especially within ports, marinas and locations where logs are loaded onto	8. Reports and Monitoring program for IS entry at sea ports in	8. Records of IS point of entry at sea ports in place and work done.	-Limited capacity.
	ships 9. Undertake research on introduced and native invasive species under changing	place.9. Reports onIntroduced and native	9. Records of Introduced and Native IS	-Cross cutting issues.
	conditions such as waste and climatechange.10. Undertake research on the interspecific effects of invasive species on	invasive species in place. 10. Reports on inter specific effects of IS on	10. Records of inter specific effects of IS on Native counter parts.	-Delay process in undertaking researches.
	their native counterparts such as the effect of cane toad on indigenous frogs; the Common Myna, <i>Acridotheres tristis</i> and the European House Sparrow, <i>Passer</i>	Native counterparts in place.	11. Reports is in place to	This could be part of the
	<i>domesticus</i> on native birds. 11. Develop research and study on economic, social & health and environment impacts of IAS with intend	11. EIA report on IAS is in place.	in terms of the various impacts & effects.	EIA process (assumption).
	of informing control and eradication, and policy directions.			
Education and Awareness	12. Develop education and awareness programme (tool kits) for schools and communities.	12. Materials for Posters, brochures, pamphlets and Stickers produced.	12. Schools and communities are using the tool kits to improve knowledge.	-Assume that this can be part of the school curriculum(<i>Risks:</i> <i>Repetition</i>)

	13. Raise awareness on the impacts of invasive species on biodiversity, economy, human health and cultural values etc.	13. Radio live broadcast done at SIBC.	13. Radio talk done & populace heard and informed on IAS.	-Coverage limitation and not accessible to radio.
Establishment	14. IAS national database to be developed	14. IAS National	14. Records of IAS ID,	-Database requirement
of Baseline	and update baseline information on the	Database is in place	Biology and Invasive	changes overtime.
data	status and distribution of IAS	D'autouse is in place.	status easily identified	changes overanie.
uata	status and distribution of 1745.		status casity identified.	
	15. IAS mapping for all Islands(Provinces	15. GIS Maps produced	15. Spatial Records of	-Mapping exercise
		showing the	IAS distribution in maps	expensive (shortage of
		distribution of IAS	and easily followed	man power)
Management	16 Document & promote locally known	16 Report on locally	16 Records of locally	-Risks of unverified
wanagement	high signal control for IAS a s. CAS from	In sum his sentral	Ite assesses in a sectoral	-Risks of unvertiled
	biological control for IAS, e.g. GAS from	known bio-control	known bio-control	information & its side
Eradication of	red ants, Makira millipede, earth	agents for IAS in place.	agents.	effects.
IAS .	flatworm(Platymus Manokwarii)			
	17. Support programmes for the	17. Restoration		-Capacity and finances
	management and restoration of target	program for IAS in	17. Target species	might be an issue.
	species, especially GAS, CRB & Cocoa	place.	eradicated & restored.	_
	borer etc.	1		
	18. Introduced bio-control agents to			-Unknown side effects
	manage and eradicate invasive species	18 List of introduced	18 Records of	might be available
	using appropriate best practices	bio-control agents	introduced bio-control	inght be uvunuble.
	using appropriate best practices.	produced	agents and used	
		produced.	agents and used	
			enectively.	

<u>Tonga</u>

	Project	Measurable indicators /	Sources of verification	Assumptions
	description	targets		and risks
Goal	Enhance management of Invasive Aliens species on biodiversity, economies, livelihood and human health.	Tonga's NBSAP, NISSAP and Biosecurity Bill approved by the Cabinet.	External experts review the Tonga NBSAP, NISSAP and Biosecurity Bill.(NISSAP is a live part of NBSAP) in line of the CBD and WTO SPS Agreement Biosecurity services in compliance with IPPC ISPMs.	Funds available from International or regional organisations. Climate Change Change of political system
Immediate objective (purpose)	Invasive species management is improved for a healthier communities and their environment.	IAS management program included in the Corporate Planning of PMO-Prime Minister Office, MEIDECC – Ministry of Meteorology, Environment, Information, Disaster Management, Energy, Climate Change and Communication, MOI-Ministry of Infrastructure, MOE- Ministry of Education & MAFFF-Ministry of Agriculture, Food,Forestry, Fisheries.	Tonga NBSAP, NISSAP and Biosecurity Bill reviewed by an Independent agencies.(Biosecurity was in revise version)	Local governments Ministries include budget for IAS management program. Lack of cross sectorial communications and coordination is a risk Unforeseen financial commitments and staff turnover are risks
Expected results (outputs)	Negative impact of invasive species on biodiversity is widely understood and included in the legal framework and government policies. Biosecurity Bill reviewed and enacted by 2018	Increased numbers of endangered species (flora and fauna) restored - eradication National Invasive species information tools in place. Biosecurity and Conservation Acts enacted.	Records of invasive, endangered species and restoration projects updated and evaluate by IUCN and SPREP. National Invasive species information tools implemented and reviewed once a year in collaboration with experts in SPREP or Bird Life International. Biosecurity Services audited in collaboration with NZ MPI-	Border security services improved due to increased skilled staff and appropriate equipment available. Some invasive species may not be manageable due to lack of funding available

				Ministry of Prime Industry or Australia DAF-Documentary Australia Fountation.	
Activities	1)	Community trainings on negative impacts posed by IAS and possible management	1. Number of workshops/surveys and community participants.	1. Publications by SPREP or SPC of workshop reports and surveys records.	Co-financed with the government from the GEF-PAS Invasive Species Project.
	2)	program.	2. IAS information printed in schools syllabus.	2. Inclusion of IAS in school curriculum to be reported to	Technical Expert and resources available from SPREP and SPC.
	2)	Identification, Impact and management information into the	 No. of radio & TV programs conducted and posters printed 	3.In collaboration with SPREP and SPC public	No budget allocated for Invasive Species by Ministry of Education.
	3)	school curriculum. Public awareness	4. Biosecurity Bill and Conservation Bill approved by	awareness materials are produced.	Lack of commitment from community due to lack of funding.
		such as radio and television programs	Cabinet of Tonga.	4. New Biosecurity bill and government policies prioritize IAS management.	 Legal work is time consuming. High cost of transport and bad
	4)	Review and harmonise Biosecurity bill with international standards and	included number of endangered species and ecosystem servicesimproved	5. Survey data recorded and updated to National and Regional Information	weather can delay work.6. Equipment required is installed7. The surrent relevant logislations.
		IAS management.	includes Interception Records of prohibited species.	6. Regional organisations	are updated.
	5)	Control population of rats in Late, Kao, Tofua, 'Ata and few small islands in Vava'u and	7. Increased no. of skilled staff for PRA-Pest Risk Assesment process	7. Compliance with IPPCStandards	needs to be reviewed.
	6)	Border security – increase no. of staff and x-ray scanner is	8. Pest Survey Records and appropriate controls.	8. Compliance with available measures, referring to the guidance under the CBD and the IPPC supported by	
	7)	installed. Biosecurity – Pest Risk Analysis training completed for border		Queensland Department of Agriculture and Fisheries,Australia; Landcare Research,New Zealand	
	8)	Trainings on			

integrated approach on IAS control using biological control agent and pesticide/herbicide, for Environment officers, Forestry officers and Quarantine officers	
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Vanuatu

	PROJECT SUMMARY	INDICATORS	MEANS OF VERIFICATION	RISKS / ASSUMPTIONS
Goal	Enhance the protection of biodiversity by managing Invasive species in selected sites. (Lake Letes, Luganville and Port Vila harbour, ELMA and Aneityum) as well as strengthening border control throughout Vanuatu.			
Outcomes	1 - The infestation of invasive species in selected sites is reduced by at least 60%	•	1.1. Decreased coverage of merremia on forests1.2. Recolonising of forest by planted trees	Land dispute by communities Natural disaster (Cyclone, bush fire)
	2 – Vanuatu is free from new arrivals of invasive species as a result of effective border control compliance measures.		2.1. Report of invasive species survey2.2. Decentralization of Biosecurity regulations2.3. Presence of biosecurity officers and agents throughout Vanuatu	Risk: Invasive species introduction through uncleared vessels and aircrafts Assumption: Efficient reporting system of all incoming vessels and

Outputs 1. Merremia infestation is managed by establishing agro-forestry plots in lake 1.1. Number of agro- forestry plots established 1.1.1. Activity report released Risk: Land dispute 0.1.1.1. Activity report released Assumption: Cleated Assumption: Cleated Assumption: Cleated 0.1.2. Availability of before and after photos of the Customary land	the islands cal nd 3 : Strong legal
2. Merremia is eradicated at Aneityum by 2019 2.1.1 Number of native and high valued trees planted 2.1.1 Report on the number of COT in census	Jisputes : Clear and ind of active by members
 3. Establishment of a sustainable management system for Crown of Thorns starfish in Port Vila and Luganville Harbour. 4. Establish a user friendly 4. Establish a user friendly 5. Establishment of a sustainable management system for Crown of Thorns starfish in Port Vila and Luganville Harbour. 5. Establishment of a sustainable management system for Crown of Thorns starfish in Port Vila and Luganville Harbour. 4. Establish a user friendly 6. COT In Centrus of Corr In Centrus of Corral starts and sustainable management system for Crown of Thorns starfish in Port Vila and Luganville Harbour. 5. Establishment of a mini corral farm (mariculture) 6. COT In Centrus of Corral starts of Corral starts and the selected starts of Corral farm (mariculture) 6. COT In Centrus of Corral starts of Corral starts of Corral farms 6. COT In Centrus of Corral farms 6. COT In Centrus of Corral farms 6. COT In Centrus of Corral farms 6. COT Startish for the selected starts of COT startish removed from the selected sites 6. COT Startish for the selected sites 7. Establishment of a mini corral farm (mariculture) 7. Establishment of a mini corral farm (mariculture) 	Assumption: Existing community is already actively involved in commercial farming Risk: Lack of human resource Assumption: Diving communities already involved in removing COT

	Marine invasive species by 2018.	COT management & Mariculture training	5.1.1 LFA management plan	predators (sharks) Assumption: COT presence limited to shallow water
	 Establishment of a sustainable LFA treatment procedure 	4.1. Number of staff and organisation accessing and using the Information System	6.1.1. Report of Cost Benefit Analysis	Risk: Database stolen or burnt Assumption: Database kept in well secure premises
	 Cost Benefit Analysis conducted on selected invasive species 	5.1. LFA treatment management	7.1.1. Active Border control operations	Risk: Long rainy periods Assumption: There will still be 1 or 2 sunny days
	 Biosecurity border control security strengthened 	6.1.Cost Benefit Analysis		Risk: Shortage of Treatment chemicals Assumption: Procurement plan will prevent shortage of chemicals
		7.1. Establishment of border control facilities at all Ports of Entry		
Activities	1. Merremia control & eradication			
	 1.1 Awareness/ and Training 1.2 Survey 1.3 Merremia eradication and management model 1.4 Fencing of targeted plots in 	Number of awareness raising events and trainings conducted Number of surveys conducted Number of hectares	Posters and pamphlets available Survey report available Model design and protocol documented	

 the reserve areas 1.5 Integrated management practices 1.6 Farming of sweet potato 1.7 Planting of native and high value trees 1.8 Clearing of merremia in clear forest and planting of trees 1.9 Injection of herbicides in merremia vines 1.10 Encourage natural regeneration of indigenous tree species 1.11 Improve invasive species database through data entry 	fenced Number of gardens established within the fenced area Number of high value native trees planted Number of hectares cleared from merremia. % of regeneration of indigenous species Quality of IS data base	Targeted fenced plot available Record of number of planted trees available Site map of the management area available. Site map of the regenerated indigenous species available Invasive species database installed and operational	
 1.12 Inter villages/reserve border security 2. Little fire ant eradication at Lake Letes. 2.1 Awareness /Training 2.2 Survey 2.3 Baseline data collection on the infestation of LFA in the area 	improved Number of community leaders appointed and trained as Biosecurity Agents Number of reports submitted	Letter of appointment List of the trained Biosecurity agents	
 2.4 First application of LFA baits (granules and paste) in the infested area 2.5 Ongoing LFA baits application every 6 weeks 2.6 Monitoring of efficiency 	Number of awareness and training conducted. Number of training participants recorded Percentage of LFA infestation coverage	Training report available Survey report available LFA monitoring report available	

of the bait application every 6 weeks 2.7 Improve invasive species database through data	on baits applied Number of other ants species recorded		
 entry 2.8 Inter villages border security 3. Baseline data collection for marine invasive species and COT management in Port-Vila and Luganville harbor. 3.1 Awareness / training 3.2 Survey 3.3 Identify marine invasive 	LFA population coverage trend recorded Quality invasive	Invasive species database developed and operational List of approved Biosecurity agents	
 species 3.4 Kill crown of thorn through mixture of lemon and vinegar injection 3.5 Remove the crown of thorns with assistance from secondary school (Malapoa college) 3.6 Improve invasive species database through data entry 	improved Number of reports submitted	Report of the training and awareness List of marine invasive species Report on COT remove	
	Number of awareness and training conducted Survey report	activity Letter of engagement of the college	
	Quantity/number of crown of thorns removed	Improved invasive species database operational	
	Number of participating students	Record sheet of ballast water discharge by	

3.7 Strengthen ballast water management system for international and local vessels	Quality invasive species database improved	incoming vessels	
3.8 Initiate ballast water management for domestic vessels	Legal framework on ballast water management available	Policy and legal documents	
 4 . Vanuatu secured from invasive species 4.1 Establish and strengthen Border control facilities and systems at all Ports of Entry 	Ballast water management outlined in relevant government authorities policies	Border control operations functional Annual and monthly reports Training report	
 4.2 Train Biosecurity staff and communities Biosecurity agents on invasive alien species identification 4.3 Establish efficient reporting systems on invasive alien species 	Presence of Biosecurity facilities at all Ports of Entry	Reporting network document Report on Emergency Response operation	
4.4 Implement Emergency Response Operation of newly introduced invasive species	Number of trainings conducted	Record of undeclared materials	
4.5 Detain undeclared imported materials.		Record of spot fines imposed	
4.6 impose spot fines on			
undeclared imported articles			
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	Number/quantity of undeclared materials detained		
	Number of spot fines imposed		