

2016-2019 Implementation Plan to implement *Cleaner Pacific 2025*

21 July 2015



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Acronyms and Definitions

AOSIS	Alliance of Small Island States
CI	Cook Islands
CROP	Council of Regional Organisations in the Pacific
E-waste	Electrical and electronic waste
FJ	Republic of Fiji
FSM	Federated States of Micronesia
ITCP	Integrated Technical Cooperation Programme
KI	Republic of Kiribati
MCES	Micronesian Chief Executives Summit
MSG	Melanesian Spearhead Group
NGOs	Non-Governmental Organisations
NA	Nauru
NDMOs	National disaster management organisations
NI	Niue
NZ	New Zealand
ODS	Ozone Depleting Substances
OHS	Occupational Health and Safety
PA	Republic of Palau
PACMA	Pacific Islands Maritime Association
PALM	Pacific Islands Leaders Meeting
PIC	Pacific Island Countries
PICTs	Pacific Island Countries and Territories
PIDF	Pacific Islands Development Forum
PIFS	Pacific Islands Forum Secretariat
PMTA	Pacific Maritime Transport Alliance
PNA	Parties to the Nauru Agreement
PNG	Papua New Guinea
POPs	Persistent Organic Pollutants
PPE	Personal Protective Equipment
PPP	Public Private Partnership
PSSAs	Particularly Sensitive Sea Areas
RMI	Republic of the Marshall Islands
SA	Independent State of Samoa
SI	Solomon Islands
SPREP (Sec)	Pacific Regional Environment Programme (the Secretariat)
TK	Tokelau
TO	Tonga
TV	Tuvalu
UNEP	United Nations Environment Programme
VU	Vanuatu
WCP	Waste, chemicals, and pollutants
WCP departments	Departments and agencies in PICTs with responsibility for management of waste, chemicals and pollution
WF	Wallis and Futuna

Introduction

Cleaner Pacific 2025 is a comprehensive long-term strategy for integrated and sustainable waste management and pollution prevention and control in the Pacific islands region over the next decade (2016-2025). *Cleaner Pacific 2025* provides a strategic management framework to address waste, chemicals and pollutants (WCP) that will reduce the associated threats to sustainable development of the region (Table 1).

This four-year implementation plan (2016-2019) was developed in consultation with Pacific Island Countries and Territories (PICTs) and allocates responsibilities for individual activities to both the Secretariat and PICTs. At the PICT-level, several national entities have been designated as lead agencies, including government departments responsible for waste management, chemicals, and pollution prevention; national departments of health; national departments responsible for bio-security; and national maritime authorities. Successful implementation of *Cleaner Pacific 2025* at the national level will therefore require the establishment of strong national coordination mechanisms. The implementation plan requires PICTs to establish national multi-stakeholder WCP Steering Committees, which should be done as a matter of urgency to ensure ongoing coordination and monitoring support.

Scope

The scope of the present document mirrors that of *Clean Pacific 2025*, and includes: municipal solid waste, asbestos, electrical and electronic waste (E-waste), healthcare waste, chemicals (such as persistent organic pollutants, ozone depleting substances (ODSs), and mercury), used oil and lubricants, marine debris, ship-sourced pollution, disaster waste, and liquid waste.

Implementation Approach

The overall approach to implementing *Cleaner Pacific 2025* is based on six key steps: regional data collection; development of policies and regulations; promotion of public private partnerships; implementation of best practice; improvement of human capacity; and promotion of best practices through regional exchange and community education.

Regional data collection: The status of priority waste and pollutant issues will be assessed at the national level and prioritized at the regional level. This will enable targeted interventions to improve the management of waste and pollutants in an integrated and coordinated process. Governments and other parties will be supported by the provision of high quality scientific and management advice for national (and regional) waste and pollution management.

Development of policies and regulations: National integrated waste and pollution management policies and regulations are required to support long-term, financially sustainable waste and pollution management solutions. National governments will be assisted to identify model institutional arrangements to implement such solutions.

Promotion of public private partnerships (PPP): Promotion of PPP will contribute to the development and use of improved and sustainable economic models for management of waste and pollution in the Pacific. This should include development of both the private and public sectors through professional and technical exchanges within and outside the region.

Implementation of best practice: Cost-effective and sustainable solutions to waste and pollutant management issues will be implemented at priority locations determined through regional surveys. Best-practices options will be promoted through regional guidelines developed for Pacific island and atoll conditions.

Improvement of human capacity: Training in waste, chemical and pollutant best management practices will be integrated as a core requirement for all relevant country personnel at project sites using, where possible, the "train the trainer" model. This will facilitate practical, relevant and on-going training for waste management workers and waste management professionals over the longer-term.

Promotion of best practices through regional exchange and community education: Twinning within and between Pacific ACPs and OCTs will be expanded. Information exchange will also help to promote public-private partnerships to ensure sustainable financing for waste management related activities. This will include maintenance of a network of Pacific waste recyclers to promote exchange of best practices and dissemination of regional lessons learned.

Table 1: Cleaner Pacific 2025 Overview

VISION	A cleaner Pacific environment					
MISSION	To implement practical and sustainable solutions for the prevention and management of waste and pollution in the Pacific.					
GUIDING PRINCIPLES	STRATEGIC GOALS	PERFORMANCE INDICATORS	2014 BASELINE	TARGETS		STRATEGIC ACTIONS
				By 2020	By 2025	
1. Reduce, Reuse, Recycle, Return (3R + Return) 2. Product stewardship 3. Polluter pays principle 4. Proximity principle 5. Transparency 6. Public consultation and participation 7. Multi-sectoral approach 8. Regionalism 9. Sound decision-making 10. Precautionary approach 11. Adherence to regional and international conventions 12. Public-private partnership 13. Selection of appropriate and affordable technology	Prevent and minimise generation of wastes and pollution and their associated impacts	Per capita generation of municipal solid waste (kg/person/day)	1.3	1.3	1.3	Strengthen institutional capacity 1. Undertake regular WCP data collection and management (including storage, interpretation, dissemination, and sharing) 2. Develop and enforce national policies, strategies, plans and legislation and strengthen institutional arrangements Promote public private partnerships 3. Develop new public private partnerships including through strengthened PPP frameworks Implement sustainable best practices in WCP management 4. Implement best practice occupational health and safety measures 5. Implement WCP prevention and reduction programmes 6. Implement resource recovery programmes 7. Remediate contaminated sites and WCP stockpiles 8. Expand user-pay WCP collection services 9. Improve WCP management infrastructure and support sustainable operation and maintenance 10. Implement best practice environmental monitoring and reporting Develop human capacity 11. Implement sustainable human capacity development programmes Improve dissemination of outcomes and experiences in WCP management 12. Utilise project outcomes to implement regional and national WCP education and behavioural change campaigns Promote regional and national cooperation 13. Establish a regional Clean Pacific Roundtable 14. Strengthen national and regional cooperation and coordination 15. Cooperate to ensure timely monitoring of Cleaner Pacific 2025
		No. of marine pollution incidents	6 (2 PICTs)	0	0	
		No. of port waste reception facilities	5	10	20	
	Recover resources from wastes and pollution	Waste recycling rate (=amount recycled, reused, returned/amount recyclable) (%)	47%	60%	75%	
		No. of national or municipal composting programmes	18	30	40	
		No. of national or state container deposit programmes	4 (KI, PA, Kosrae, Yap)	7	10	
		No. of national EPR programmes for used oil	2 (NC, FP)	3	10	
		No. of national EPR programmes for E-waste	1 (NC)	5	8	
		No. of national or state user pays systems for waste collection	9	14	21	
		Waste collection coverage (% of population)	88% (urban) (= 35% nationally)	100% (urban) (= 40% nationally)	60% (nationally)	
	Improve life-cycle management of residuals	Waste capture rate (= amount collected/amount generated) (%)	Insufficient data	Establish baseline & targets		
		No. of temporary, unregulated, and open dumps	Over 213	200	190	
		Quantity of asbestos stockpiles (m³)	> 187,891 m²	159,700 m²	131,500 m²	
		Quantity of healthcare waste stockpiles (tonnes)	> 76 tonnes	< 20 tonnes	0 tonnes	
		Quantity of E-waste stockpiles (tonnes)	Insufficient data	Establish baseline & targets		
		Quantity of used oil stockpiles (m³)	2,960 m³	1,480 m³	0 m³	
		Quantity of pharmaceutical and chemical stockpiles (tonnes)	Insufficient data	Establish baseline & targets		
		Urban sewage treated to secondary standards (%)	65%	Establish after regional assessment		
	Improve monitoring of the receiving environment	No. of water and environmental quality monitoring programmes	~ 3 (AS, CI, GU)	5	7	
		No. of national chemicals and pollution inventories	2 (SA, PA)	3	6	

Potential Partners

Battling waste, chemicals, and pollution in the Pacific islands requires partnership with, and support from strategic partners who are involved in complementary activities. The following list identifies potential collaborators (donors/development partners; international, regional, and national organisations; and non-governmental organisations) who may be approached as partners to potentially provide technical and financial support for implementation of *Cleaner Pacific 2025* activities.

It must be noted that this list is not exhaustive—there may be other potential collaborators that have not been identified – particularly at the national level. When possible, an open and inclusive approach to implementing activities should therefore be adopted to encourage other potential collaborators to step forward. This may include maintaining up-to-date information on WCP programme activities on national and regional websites; issuance of media releases, and calling for partnership expressions of interest.

Donors and Development Partners

Australian Department of Foreign Affairs and Trade (DFAT)
European Union (EU)
Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (German Corporation for International Cooperation) (GIZ)
International Maritime Organisation (IMO)
Japan International Cooperation Agency (JICA)
Pacific Region Infrastructure Facility (PRIF)

Pacific Islands Regional Recycling Initiative Council (PIRRIC)
Pacific Maritime Transport Alliance (PMTA)
Pacific Organic and Ethical Trade Community (POETCOM)
Pacific Power Authority (PPA)
Pacific Water and Wastes Association (PWWA)
Secretariat of the Pacific Community (SPC)
South Pacific Tourism Organisation (SPTO)
Western and Central Pacific Tuna Commission (WCPTC)

Inter-Governmental Organisations

International

Food and Agriculture Organisation (FAO)
International Atomic Energy Agency (IAEA)
International Criminal Police Organisation (INTERPOL)
International Labour Organisation (ILO)
International Whaling Commission (IWC)
United Nations Centre for Regional Development (UNCRD)
United Nations Development Programme (UNDP)
United Nations Environment Programme (UNEP)
United Nations Environment Programme Global Programme of Action (UNEP GPA)
United Nations Environment Programme International Environmental Technology Centre (UNEP IETC)
United Nations Office for Disaster Risk Reduction (UNISDR)
World Health Organisation (WHO)

Regional (Pacific)

Central Pacific Shipping Commission (CPSC)
Forum Fisheries Agency (FFA)
Oceania Customs Organisation (OCO)
Pacific Islands Maritime Association (PACMA)
Pacific Islands Development Forum (PIDF)
Pacific Islands Forum Secretariat (PIFS)
Pacific Islands Law Officers' Network (PILON)
Pacific International Maritime Law Association (PIMLA)
Pacific Invasive Partnership
Pacific Islands Private Sector Organisation (PIPSO)

Government Departments and Agencies

Australian Maritime Safety Authority (AMSA)
French Navy
National Oceanic and Atmospheric Administration (NOAA)
New Zealand Maritime
United States Coast Guard

Educational and Research Organisations

Australian Centre for International Agricultural Research (ACIAR)
Australia Pacific Technical College (APTC)
Commonwealth Scientific and Industrial Research Organisation (CSIRO)
East West Centre
Griffith University
Institute for Global Environmental Strategies (IGES)
National Institute of Water and Atmospheric Research (NIWA)
University of Guam, Centre for Island Sustainability (UoG (CIS))
University of the South Pacific (USP)

Non-Governmental Organisations

Agence de l'Environnement et de la maîtrise de l'Energie (Environment and Energy Management Agency) (ADEME)
International Union for the Conservation of Nature (IUCN)

Professional Organisations

Association des Professionnels de Collecte et Traitement des Déchets Pacifique (professional association of waste management companies in New Caledonia) (ACOTRED)

Association of State and Territorial Solid Waste Management Officials (ASTSWMO)

Fenua Ma, French Polynesia

Solid Waste Association of North America (SWANA)

Experts in Solid Waste Management in Asia and Pacific Islands (SWAPI)

Waste Management Association of Australia (WMAA)

Waste Management Institute of New Zealand (WasteMINZ)

Others

Climate and Clean Air Coalition to Reduce Short-lived Climate Pollutants (CCAC)

Regional 3R Forum in Asia and Pacific Islands

Implementation Activities

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
A. Strengthen institutional capacity									
1. SPREP, PICTs and partners shall undertake regular WCP data collection, and management (including storage, interpretation, dissemination, and sharing).	1.1. Develop, disseminate, and provide training in WCP assessment and inventory methods, particularly for solid waste, chemicals, hazardous waste (such as E-waste), and healthcare waste.	SPREP (Secretariat)	All	National and regional educational institutions, JICA, SPC, FAO, WHO					No. of assessment methods developed. No. of persons trained in assessment.
	1.2. Develop and maintain a regional WCP database including water quality and relevant environmental data to support informed decision making. SPC to provide alternative text	SPREP (Sec)/SPC	All	WCP Departments, JICA, NIWA					Completed database available for data input.
	1.3. Develop regional country profile templates to disseminate information on the status and priorities for WCP, including marine pollution and marine litter.	SPREP (Sec)	All	IMO, UNEP (GPA)					Country profile templates for WCP developed and disseminated.
	1.4. Complete comprehensive country profiles on the status and priorities for WCP including marine pollution and marine litter.	WCP departments	All	JICA, IMO, SPREP (Sec), SPC, UNEP (GPA), UoG, GEF Ridge-to-Reef Programme					No. of country profiles submitted to SPREP (Sec).
	1.5. Assess capability of national marine and terrestrial oil spill response and salvage resources, and integrate results into the regional WCP database.	SPREP (Sec)	All	National marine pollution funds/levies, Metropolitan Members, IMO ITCP, local petroleum companies					No. of national capability assessments completed.
	1.6. Complete national WCP assessments of, and inventories for solid waste, hazardous chemicals, and hazardous waste (including E-waste, and healthcare waste).	WCP departments	All	SPREP (Sec), JICA, WHO, SPC, USP					No. of national WCP assessments completed.
	1.7. Complete a regional marine pollution risk assessment to prioritise potential point source pollution risk.	SPREP (Sec)	All	UNEP (GPA)					Regional marine pollution risk assessment completed.
	1.8. Prepare a regional strategic assessment of the status of liquid waste management to identify priority areas for intervention.	SPREP (Sec)/SPC	All	SPC, FAO, PWWA, UoG					Liquid waste regional assessment report completed.
	1.9. Prepare a regional strategic assessment of air pollution management to identify priority areas for intervention.	SPREP (Sec)	All	IMO, East West Centre, CCAC, UNEP					Air pollution regional assessment report completed.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	1.10. Develop and disseminate a research agenda to promote practical research in WCP issues and to develop appropriate environmental standards. <i>Research priorities include the fate, sources and impacts of marine litter and mercury; the application of inert bulky waste in coastal zone protection, atoll landfilling methods (including the Kiribati method) and life cycle analysis of waste management activities.</i>	SPREP (Sec)	All	Regional and national universities and research organisations (such as Griffith University, USP, UoG (CIS), UPNG, NIWA, CSIRO, SROS, CROP ICT Working Group, SPC					Research agenda published and disseminated.
	1.11. Assess GHG footprint of WCP activities (e.g., emissions from WCP collection, disposal, and port operations).	WCP departments	CI, RMI, PA	SPREP (Sec), GIZ					No. of GHG assessments completed.
	1.12. Undertake port waste reception facility gap analyses in accordance with IMO procedures.	SPREP (Sec)	All	IMO ITCP, NZ Maritime, AMSA, French Navy, US Coast Guard, JICA					No. of port waste reception facility gap analyses completed.
	1.13. Implement routine data collection in the following priority areas: coastal and marine water quality status; ecological surveys of lagoon environments; percentage of population with routine waste management collection services; per capita waste diversion rates from landfill; waste composition; and per capita waste generation rates.	WCP departments	All	SPREP (Sec), JICA, UoG, NIWA					No. of data collection programmes implemented.
2. PICTs, supported by SPREP and partners shall develop and enforce national policies, strategies, plans and legislation and strengthen institutional arrangements to support and promote best practice WCP management.	2.1. Conduct a cost benefit analysis of PICTs becoming Parties to relevant conventions and protocols.	Ministries in charge of MEA ratification	Non-Parties	Convention Secretariats, SPREP (Sec)					Cost benefit analysis disseminated to PICTs.
	2.2. Develop model integrated policies with supporting legislation for solid waste (including 3R+Return), healthcare waste, hazardous waste (including E-waste, used oil, and radio-active waste), and chemicals management. <i>Model legislation should include prohibition of hazardous waste and chemicals as required under relevant conventions.</i>	SPREP (Sec)	All	WHO, UNEP IETC, PPA, UNEP Chemicals, JICA, Convention Secretariats, PIMLA, PILON					No. of model policies and supporting legislation completed.
	2.3. Update regional port waste reception facilities plans.	SPREP (Sec)	All	IMO					No. of regional port waste reception plans updated.
	2.4. Prepare a regional template to guide development of national pollution prevention strategies (NATPOLs).	SPREP (Sec)	All	IMO					Regional template disseminated.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	2.5. Develop a regional insurance arrangement (including associated model regulations), for vessels not covered by existing IMO liability and compensation regimes.	SPREP (Sec)	All	IMO, SPC, FFA, Western and Central Pacific Tuna Commission, Parties to the Nauru Agreement, PICT fisheries agencies					Regional insurance arrangement developed. No. of subscriptions to regional insurance arrangement.
	2.6. Develop a regional insurance arrangement for transboundary movement of hazardous wastes under the Waigani and Basel Conventions.	SPREP (Sec)	All Parties	Convention Secretariats					Regional insurance arrangement developed. No. of PICT subscriptions to regional insurance.
	2.7. Review institutional arrangements for WCP management with a view to improving WCP service delivery, private sector engagement, and cost recovery.	WCP departments	CI, PNG, SA, SI	JICA					No. of national institutional reviews completed.
	2.8. Develop integrated national policies with supporting legislation and implementation strategies for WCP management to include solid waste, 3R+ Return, hazardous waste (including healthcare waste, E-waste, used oil), and chemicals. <i>Legislation must be compliant with relevant Convention obligations.</i>	WCP departments	All	Attorney General Offices, SPREP (Sec), WHO, health departments, PPA, JICA					No. of integrated national policies with supporting legislation and strategies developed and endorsed.
	2.9. Develop or update, endorse, and implement healthcare waste management plans for each healthcare facility.	Healthcare facilities	All	Health departments					No. of facility healthcare waste management plans developed.
	2.10. Develop national disaster waste management plans.	NDMOs/WCP departments	All	SPREP (Sec), SPC, WCP Departments/NDMOs					No. of disaster waste management plans endorsed.
	2.11. Update national oil spill contingency plans.	Maritime agencies	FSM, FJ, KI, RMI, NA, NI, PA, PNG, SA, SI, TK, TV, VU	SPREP (Sec), AMSA, New Zealand Maritime, US Coast Guard, French Navy, Petroleum operators					No. of updated national oil spill contingency plans endorsed.
	2.12. Adopt tools to support marine environmental protection, such as designation of PSSAs.	Maritime departments	All	SPREP (Sec), IMO, UoG,					No. of PSSAs declared.
	2.13. Develop and implement national licencing or certification programmes for WCP management service providers.	WCP departments	All	SPREP (Sec), JICA					No. of licencing or certification programmes implemented.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	2.14. Adopt the World Customs Organisation Harmonised System (HS) codes for WCP including for ODS and other chemicals.	Customs departments/ WCP departments	CI, KI, RMI, FSM, NA, NI, PA, SA, SI, TO, TV, VU	OCO					No. of PICTs that adopt HS codes for WCP.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
B. Promote public private partnerships									
3. SPREP, PICTs, and partners shall develop new public private partnerships including through strengthened PPP frameworks.	3.1. Prepare regional guidance on private sector participation in WCP management activities (linked to 5.2.1).	SPREP (Sec)	All	PIPSO					Regional guidance on private sector participation in WCP published.
	3.2. Apply regional guidance in developing and implementing incentives to encourage private sector participation in WCP management.	WCP and Finance departments	All	Waste service providers, JICA					No. of private sector organisations participating in national WCP management.
	3.3. Develop agreements with private sector organisations to facilitate cooperation in planning, consultation, and implementation of WCP management activities, and in the dissemination of relevant best practices.	SPREP (Sec)	All	PIPSO					No. of agreements signed (and active) with private sector organisations.
	3.4. Develop an agreement with the Chamber of Commerce or other appropriate national organisations to facilitate cooperation in planning, consultation, and implementation of WCP management activities, and in the dissemination of relevant best practices.	WCP departments	All	Chambers of Commerce, Commercial Agents					No. of agreements signed (and active) with private sector organisations.
	3.5. Maintain an updated national focal point list of private sector organisations involved in WCP management, and provide relevant details to SPREP (Sec) for the regional focal point list.	WCP departments	All	Chamber of Commerce					No. of PICTs that provide details of WCP private sector organisations.
	3.6. Maintain a regional focal point list of private sector organisations involved in WCP management.	SPREP (Sec)	All	WCP departments					SPREP focal point list of national private sector organisations published.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
C. Implement sustainable best practices in WCP management									
4. SPREP, PICTs, and partners shall implement best practice occupational health and safety measures for formal and informal workers in the WCP management sectors.	4.1. Prepare regional guidance on the identification, assessment, and management of occupational health and safety risks associated with WCP management. <i>Regional guidance on management (in the form of a regional code of practice) should include minimum PPE standards to prevent or reduce occupational exposure to WCP.</i>	SPREP (Sec)	All	WHO, ILO					Regional guidance on the identification, assessment, and management of occupational health and safety risks published and disseminated.
	4.2. Enforce the use of appropriate PPE in all WCP management activities.	Labour departments	All	WCP departments, WHO, OHS departments, health depts., private contractors					
	4.3. Implement monitoring regimes for asbestos-containing and radioactivity-emitting materials.	Health/ Environment departments	CI, RMI, PNG, SA, SI	Environment, labour, works, and WCP departments, construction companies, IAEA					No. of monitoring regimes implemented.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
5. PICTs, supported by SPREP and partners, shall implement WCP prevention and reduction programmes.	5.1. Prepare regional guidance on options to implement polluter pays programmes to address proper management of problematic waste streams and encourage sustainable WCP management.	SPREP (Sec)	All	JICA, IMO, WCP departments, NC South Province and TRECODEC (information sharing)					Regional guidance on waste reduction options for disposable nappies and packaging waste disseminated.
	5.2. Review regional guidance to identify suitable options for national implementation of polluter pays programmes	WCP departments	All	SPREP (Sec)					No. of polluter pays programmes implemented.
	5.3. Undertake a national cost benefit analysis of options to implement polluter pays programmes.	WCP departments	All	SPREP (Sec), Pacific Cost Benefit Analysis Initiative, NC South Province and TRECODEC (information sharing)					No. of PICTs that complete cost-benefit analyses.
	5.4. Prepare a Cabinet paper on implementation of the recommendations of the cost benefit analysis.	WCP departments	All	SPREP (Sec), JICA, waste services providers					No. of PICTs that present cost-benefit analysis outcomes to Cabinet.
	5.5. Prepare regional guidance on importation standards for durable energy-efficient products (e.g. white goods).	SPREP (Sec)	All	Consumer advocate groups, UNEP Ozone Secretariat, National Ozone Units					Regional guidance on energy efficient products disseminated.
	5.6. Prepare guidance on best practices to minimise waste arising from imported used products (tyres, vehicles, and computers) and from donated pharmaceuticals and disaster relief supplies.	SPREP (Sec)	All	Donor Agencies					Regional guidance on reducing waste from imported used goods disseminated.
	5.7. Adopt best practices to minimise waste arising from imported used products.	WCP departments	All						No. of PICTs that adopt best practices to reduce waste from imported used products.
	5.8. Assist PICTs with the reduction, management, and monitoring of unintentional POPs (UPOPs).	SPREP (Sec)	All	Stockholm Convention Secretariat					No. of instances of assistance in UPOPs management delivered.
	5.9. Evaluate options to identify lost fishing gear in order to allocate cleanup costs.	Fisheries departments/ Coastal management agencies	All	FFA					Evaluation report published and disseminated.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	5.10. Convene a regional workshop to consider options to reduce the amount of abandoned and lost fishing gear, such as through tagging of fishing gear.	SPREP (Sec)	All	Metropolitan Members, FFA, WCPFC, PNA, IWC, Pew Charitable Trust, Centre for Marine Conservation					
	5.11. Increase observer coverage of active fishing vessels in the region.	Fisheries departments	All	FFA					Percentage expansion in observer coverage.
	5.12. Establish a taskforce of stakeholders from the public and private sectors and civil society (or used established groups) to develop and implement voluntary WCP reduction schemes in the private sector.	WCP departments	All	NGOs, private sector, departments of tourism, agriculture, finance, health, and environment					No. of voluntary WCP reduction schemes implemented.
	5.13. Enforce recognised standards for prohibiting the sale of perishable goods beyond their expiry date.	Health departments, EPAs	CI, SA, SI	WCP departments, customs departments					No. of PICT implementing enforcement initiatives.
	5.14. Implement measures to restrict and regulate importation, handling, storage and sales of chemicals and hazardous substances.	WCP departments	All	UNEP Ozone Secretariat, Customs departments, importers					No. of different chemicals and hazardous substances regulated per PICT.
6. PICTs, supported by SPREP and partners, shall implement resource recovery programmes.	6.1. Evaluate existing resource recovery initiatives and make recommendations for improvements and potential replication (regionally and nationally). <i>Initiatives include Palau's waste plastic-to-oil; and Fiji's paper recycling, ULAB recycling, and used oil reuse.</i>	SPREP (Sec)	CI, NC,PNG, SA, SI	JICA, WCP departments					No. of resource recovery initiatives evaluated.
	6.2. Seek funding to implement resource recovery recommendations in partnership with the private sector.	SPREP (Sec)	CI, NC,PNG, SA, SI	WCP departments, JICA, EU, DFAT, NZ Aid Programme, PRIF					No. of funding proposals submitted.
	6.3. Complete a cost benefit study of regional options for waste-to-energy systems.	SPREP (Sec)	All	JICA, EU, climate change departments, energy departments					Regional cost-benefit analysis of waste-to-energy published.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	6.4. Explore and implement practical options for extended producer responsibility programmes (including compliance options) for packaging waste and bulky waste. <i>Packaging waste includes plastic bags, glass beverage containers, plastic bottles, food tin containers, and Styrofoam food/drink packaging, and used pesticide containers. Bulky waste includes tyres, end-of-life vehicles, heavy construction equipment, white goods, shipping containers, and gas cylinders.</i>	WCP departments	All	Attorney General Offices, Ministries of Finance, Industry, and Labour, JICA, SPREP (Sec), FAO, Palau, CPSC					No. of EPR programmes for packaging and bulky waste implemented.
	6.5. Evaluate existing pilot and full scale organic waste recycling activities (production of compost, mulch, and charcoal, biochar and biogas), and scale up where appropriate.	WCP departments	CI, NC, SA	Agriculture departments, JICA, SPC, UNDP, POETCOM, ADEME, ACIAR					Evaluation report with concrete recommendations published and disseminated.
	6.6. Implement pilot projects at the community-level for the integrated management of organic waste streams (household organic waste, market and animal waste).	WCP departments	CI, PNG, SA, SI	SPREP (Sec), SPC, JICA					No. of community-level pilot projects for organic waste recycling successfully implemented.
	6.7. Develop and implement “Clean Schools” and “Clean Campus” programmes to encourage adoption of waste reduction and recycling best practices in schools and educational institutions.	WCP departments, Education departments	All	JICA, SPREP (Sec), private sector					No. of “Clean Schools” and “Clean Campus” programmes implemented.
7. PICTs, supported by SPREP and partners, shall remediate contaminated sites and WCP stockpiles in	7.1. Undertake a comprehensive national survey (including geo-location) and risk assessment of WCP stockpiles and contaminated sites (to be implemented with 9.8).	WCP departments	All	SPREP (Sec), American Samoa, French Polynesia, private sector					No. of national surveys and risk assessments completed.
	7.2. Compile, maintain, and share data with SPREP (Sec) and other PICTs on verified contaminated sites and WCP stockpiles.	WCP departments	All	Provincial and local authorities, private sector					No. of PICTs that provide data on verified contaminated sites and stockpiles to SPREP.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
accordance with best practices.	7.3. Develop programmes to collect, remove and dispose of legacy wastes, in particular asbestos, vessels and wrecks, end-of-life vehicles, tyres, shipping containers, E-waste (including from construction and demolition activities), obsolete chemicals, radioactive waste, and healthcare waste stockpiles. <i>Programmes must include implementation of national legislation and policies to prevent re-accumulation of stockpiles.</i>	SPREP (Sec)	All	EU, IMO, Shipping agencies, FAO, JICA, American Samoa and Guam (information sharing), IAEA, private sector					Quantity of legacy wastes removed. No. of supporting national policies and legislation implemented.
	7.4. Develop programmes to remediate contaminated sites, in particular disused dumpsites, abandoned sites, petroleum contaminated sites (including sites contaminated from accidental spills), and hazardous waste and chemicals storage sites.	SPREP (Sec)	All	EU, IMO, Shipping agencies, FAO, JICA, American Samoa and Guam (information sharing, private sector)					No. of contaminated sites remediated.
8. PICTs, supported by SPREP and partners, will expand user-pay WCP collection services.	8.1. Prepare regional guidance on options for sustainable financing of WCP collection services.	SPREP (Sec)	All	JICA, PRIF, NC (information)					Regional guidance on sustainable financing of WCP collection disseminated.
	8.2. Undertake a cost benefit analysis of options to increase national coverage and financing of WCP collection services.	WCP departments	AS, FP, NC, NI, PNG, SI, TO	SPREP (Sec), JICA, waste services providers					No. of PICTs that complete a cost benefit analysis.
	8.3. Prepare a Cabinet paper on implementation of the recommendations of the cost benefit analysis.	WCP departments	AS, FP, NC, NI, PNG, SI, TO	SPREP (Sec), JICA, waste services providers					No. of PICTs that present cost-benefit analysis outcomes to Cabinet.
	8.4. Undertake ongoing government and community awareness programmes on outcomes of the cost benefit analysis.	WCP departments	AS, FP, NC, NI, PNG, SI, TO						No. of awareness initiatives implemented.
9. PICTs, supported by SPREP and partners, shall improve WCP management infrastructure and support sustainable operation and maintenance.	9.1. Develop funding proposals in partnership with PICTs to address priority areas identified by the strategic assessments and gap analyses conducted under Strategic Action 1.	SPREP (Sec)/SPC	All	JICA, WCP departments, private sector organisations, PRIF, Metropolitan Members					No. of funding proposals submitted. No. of facilities improved.
	9.2. Update and disseminate guidance on landfill improvement, operation, and maintenance (including climate change adaptation and GHG mitigation considerations) based on methods such as the Fukuoka semi-aerobic landfill method, and the atoll landfill method utilised in Kiribati.	SPREP (Sec)	All (except NC)	JICA, Guam					Landfill management guidance disseminated.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	9.3. Identify and disseminate market information for recyclable commodities, and appropriate transboundary disposal facilities for hazardous waste.	SPREP (Sec)	All	Private sector, recycling organisations, Metropolitan Members, JICA					Information on commodity markets disseminated. Information on transboundary disposal facilities disseminated.
	9.4. Submit information on national WCP equipment to SPREP and other PICTs.	WCP departments	All	Provincial, State, and local authorities					No. of PICTs that submit information on WCP equipment to SPREP (Sec).
	9.5. Compile and disseminate information on suitable national WCP equipment and provide advice on request to encourage equipment standardisation across PICTs.	SPREP (Sec)	All	WCP departments, private sector, waste services providers					Regional WCP equipment inventory disseminated.
	9.6. Develop WCP equipment maintenance capacity in PICTs.	WCP departments	All	SPREP (Sec), JICA, PRIF					No. of relevant capacity building initiatives implemented.
	9.7. Prepare and disseminate a regional 3R+Return and other waste management guidelines	SPREP (Sec)	All	JICA					Guidelines for 3R+Return and management of other priority WCP issues developed and disseminated.
	9.8. Complete inventories of existing national WCP facilities particularly near coastal and riverine areas (to be implemented with 7.1).	WCP departments	All	JICA, SPREP (Sec), SPC, Metropolitan Members					No. of inventories completed.
	9.9. Improve national dumpsites (when appropriate) according to regional and existing guidance, and incorporate best-practice sustainable financing measures.	WCP departments	All	SPREP (Sec), JICA, PRIF, Metropolitan Members					No. of national dumps and landfills improved.
	9.10. Construct national secure storage facilities (including provision of relevant equipment) to support effective chemical and hazardous waste management.	WCP departments	All	SPREP (Sec), JICA, PRIF, Metropolitan Members					No. of national secure storage facilities available for use.
	9.11. Construct sludge treatment facilities.	WCP departments	SA	PRIF, SPREP (Sec), SPC					No. and capacity of best practice sludge treatment facilities available.
	9.12. Improve healthcare waste treatment and disposal facilities and incorporate best-practice sustainable financing measures.	Health departments	AS, CI, FJ, FP, KI, RMI, NA, NI, PA, PNG, SA, SI, TO, TV, VU	SPREP (Sec), EU, JICA, WHO, SPC, PRIF, WCP departments					No. and capacity of best practice healthcare waste treatment and disposal facilities available.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	9.13. Improve bio-security waste treatment facilities and incorporate best-practice sustainable financing measures.	Biosecurity authorities	AS, FP, NI, SI, TO	SPREP (Sec), EU, JICA, SPC, PRIF, WCP departments, Pacific Invasive Partnership, FAO					No. and capacity of best practice bio-security waste treatment facilities available.
	9.14. Commit human and financial resources to the stepwise improvement of WCP infrastructure and services that incorporate best-practice sustainable financing measures.	WCP departments	All	SPREP (Sec), JICA, WHO, SPC, EU, PRIF					Amount of national and local waste management budgets.
10. PICTs, supported by SPREP and partners, shall implement best practice environmental monitoring and reporting programmes.	10.1. Undertake a regional assessment of water quality status, trends and monitoring capacity to identify specific areas for strategic monitoring intervention.	SPREP (Sec)/SPC	All	Regional and national research and educational institutions (such as NIWA, Australian Institute of Marine Science, USP)					Regional assessment of water quality status disseminated.
	10.2. Prepare regional water quality standards	SPREP (Sec)/SPC	All	Regional and national research institutions					Regional water quality standards published and disseminated.
	10.3. Provide national training in environmental monitoring and reporting (including waste disposal site, waste and chemical stockpile, and marine debris monitoring).	SPREP (Sec)	All	JICA, PWWA, SPC, USP, NIWA					No. of persons trained in environmental monitoring.
	10.4. Implement national environmental monitoring, compliance and reporting programmes (including procurement and installation of equipment when possible), with a particular focus on point source monitoring.	WCP departments	All	JICA, PWWA, SPC, SPREP (Sec), USP, NIWA					No. of national environmental monitoring reports published.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
D. Develop human capacity									
11. SPREP, PICTs, and partners shall implement sustainable human capacity development programmes for WCP management stakeholders.	11.1. Conduct national and regional training in the implementation of obligations and accessing other opportunities under the Basel, Waigani, Noumea, Rotterdam, Stockholm, and Minamata Conventions and the Montreal Protocol.	SPREP (Sec)	Relevant Parties	Convention Secretariats					No. of persons trained in applicable Conventions.
	11.2. Conduct national and regional training in the implementation of marine pollution conventions in accordance with the IMO ITCP.	SPREP (Sec)	Relevant Parties	IMO, NZ Maritime, US Coast Guard, French Navy, AMSA, SPC, Training institutions					No. of persons trained in applicable Conventions.
	11.3. Update and support further delivery of the regional waste management training course, with inclusion of competency-based assessments and hands-on modules.	SPREP (Sec)	All	Griffith University, JICA, Training Institutions, AFD, UNEP, Private Sector					No. of persons trained through the regional waste management training course
	11.4. Conduct national and regional training in waste disposal site improvement, operation, and maintenance in accordance with best practices (such as the Fukuoka semi-aerobic landfill method), and the atoll method utilised in Kiribati as appropriate.	SPREP (Sec)	CI, FSM, FJ, KI, NA, NI, RMI, PA, PNG, SA, SI, TO, TV, VU, WF	JICA, EU, regional and national educational institutions					No. of persons trained in management of waste disposal sites.
	11.5. Conduct national training in asbestos management and radioactivity monitoring for waste handlers, managers, and emergency responders.	SPREP (Sec)	All	WHO, ILO, private sector, WCP departments, construction companies					No. of persons trained in asbestos monitoring and radioactivity monitoring.
	11.6. Conduct national and regional training in ODS capture and management for recyclers, equipment repair technicians, and others involved in ODS management.	SPREP (Sec)	All	APTC, UNEP, WCP departments, Environment Departments, Customs departments, JICA					No. of persons trained in ODS capture and management.
	11.7. Conduct national and regional training in chemical life-cycle management.	SPREP (Sec)	All	UNEP Chemicals					No. of persons trained in chemical life-cycle management.
	11.8. Conduct national and regional training in mercury management.	SPREP (Sec)	All	Minamata Secretariat					No. of persons trained in mercury management.
	11.9. Conduct national and regional training in used oil	SPREP (Sec)	All	SPC, PPA, WCP					No. of persons trained in used

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
	management.			departments, waste service providers, private sector					oil management.
	11.10. Conduct national and regional training in healthcare waste management.	SPREP (Sec)	All	WHO, health departments, WCP departments, waste service providers, private sector					No. of persons trained in healthcare waste management
	11.11. Conduct national and regional training in bio-security waste management.	SPREP (Sec)	All	Customs and biosecurity departments, SPC, OCO, waste service providers					No. of persons trained in bio-security waste management.
	11.12. Conduct national and regional training in E-waste management.	SPREP (Sec)	All	Waste service providers, UNEP					No. of persons trained in E-waste management.
	11.13. Conduct national and regional disaster waste management training	SPREP (Sec)	All	SPC, NDMOs, UNISDR, AS, FP, JICA					No. of persons trained in disaster waste management.
	11.14. Promote WCP capacity building exchanges among all SPREP members (PICTs and metropolitan members) in the public and private sectors.	SPREP (Sec)	All	JICA, SPC, EU, training institutions, WCP departments, Metropolitan Members (USEPA Region 9),					No. of capacity development exchange programmes implemented.
	11.15. Conduct a national training needs assessment (against required competency levels) for integrated WCP management and enforcement (including redundancy to cope with high staff turnovers).	WCP departments	All	Training institutions, JICA, SPREP (Sec), private sector					No. of national training needs assessment completed and communicated to Cabinet.
	11.16. Conduct national training on litigation, enforcement, compliance, monitoring and prosecution of WCP legislation, including marine pollution.	WCP departments	AS, FP, GU, NI, PNG, TO, TV, VU	AG's Offices, SPREP (Sec), ADEME, IMO, IUCN, INTERPOL, Pacific Police commissioners, OCO, SPC, FFA, PILON, PIMLA					No. of persons trained in WCP legislation enforcement.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
E. Improve dissemination of outcomes and experiences in WCP management									
12. SPREP, PICTs, and partners shall utilise project outcomes to implement regional and national WCP education and behavioural change programmes.	12.1. Develop and disseminate a model regional WCP communication plan.	SPREP (Sec)	All	NC South Province					Model WCP communication plan disseminated.
	12.2. Develop and implement national WCP communication action plans.	WCP departments	All	SPREP (Sec), NGOs, Community/women's Groups					No. of national WCP communication action plans developed and implemented.
	12.3. Develop a regional WCP tool kit (including teaching methods) for primary, secondary, and tertiary schools.	SPREP (Sec)	All	WCP departments, NGOs					Regional tool kit for school WCP education disseminated.
	12.4. Apply regional tool kits at the national level to deliver WCP education programmes in primary, secondary, and tertiary schools.	WCP departments	All	Ministry of Education, NGOs, Chambers of commerce					No. of PICTs delivering WCP awareness programmes based on regional tool kit.
	12.5. Develop a regional WCP education tool kit (including teaching methods) for the private sector.	SPREP (Sec)	All	PIPSO, ADEME, New Caledonia, Chambers of commerce					Regional tool kit for private sector WCP education disseminated.
	12.6. Apply regional tool kit at the national level to deliver WCP awareness programmes in the private sector.	WCP departments	All	NGOs, Chambers of commerce					No. of PICTs delivering WCP awareness programmes based on regional tool kit.
	12.7. Provide training to WCP departments in the development and delivery of WCP awareness materials and programmes.	SPREP (Sec)	All	USP, JICA					No. of persons trained in development and delivery of WCP awareness programmes.
	12.8. Develop and disseminate case studies of WCP best practices.	SPREP (Sec)	All	CROP Agencies, Metropolitan Members, JICA					No. of case studies of WCP best practices published.
	12.9. Implement community-based demonstration projects (such as installation of litter booms and litter bins, and assessment of the collected litter) to raise awareness of marine litter.	SPREP (Sec)	AS, PNG, SA, SI	WCP department, UNEP					No. of community-based demonstration projects implemented
	12.10. Prepare annual briefing notes for Ministers and Heads of Governments seeking the inclusion of priority WCP issues into leader's forum such as MSG, MCES, PIFS, PIDF, and ministerial forums on climate change, economy, transport, energy, and education.	WCP departments	All	SPREP (Sec), SPC, PIFS, PIDF					No. of PICTs preparing annual briefing notes.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
F. Promote regional and national cooperation									
13. SPREP, PICTs, and partners shall establish a regional Clean Pacific Roundtable to coordinate and facilitate waste management and pollution control dialogue and networking in the region.	13.1. Prepare a detailed concept note on the Clean Pacific Roundtable and obtain views from members, donors, partners, and others. <i>The Roundtable may be tasked to develop a Cleaner Pacific 20205 resource mobilisation plan (that includes co-financing from national governments).</i>	SPREP (Sec)	All	WCP departments, Metropolitan Members					Clean Pacific roundtable concept note disseminated.
	13.2. Convene an in-house committee to progress planning for the first Clean Pacific Roundtable meeting. <i>PICTs will require advanced notice of meeting dates to include attendance costs in national budgets.</i>	SPREP (Sec)	All	-					In-house committee meetings conducted.
	13.3. Participate fully in the establishment and implementation of the Clean Pacific roundtable (for example, by providing timely input and feedback on the Clean Pacific Roundtable concept note).	WCP departments	All	-					No. of PICTs providing feedback during the process. No of PICTs participating in Roundtable meeting(s).
	13.4. Allocate resources through national budgeting process (where possible) to support attendance costs to the first Clean Pacific Roundtable (to be held tentatively in early 2016).	WCP departments	All	-					No. of self-funded PICT representatives participating in the Clean Pacific Roundtable meeting.
	13.5. Conduct the first Clean Pacific Roundtable meeting.	SPREP (Sec)	All	WCP departments, all partners					Clean Pacific Roundtable meeting convened.
14. SPREP, PICTs, and partners shall strengthen national and regional cooperation and coordination on waste and pollution management	14.1. Develop database of PICTs' and Metropolitan Members' WCP capacity (WCP expertise, main contacts, WCP stakeholders, WCP case studies, etc.).	SPREP (Sec)	All	JICA, training institutions, WCP departments, Metropolitan Members (USEPA Region 9), SPC, EU					Database developed and populated.
	14.2. Increase the profile of WCP issues and best practices through existing forums such as the CROP Marine Sector Working Group, PACMA, PMTA, AOSIS, MSG, MCES, PALM.	SPREP (Sec)	All	WCP departments					No. of forums with priority WCP issues on the agenda.

Strategic Action	Activities	Lead Agency	Priority PICTs	Potential Partners	Timeframe				Key Performance Indicators
					2016	2017	2018	2019	
activities.	14.3. Conduct an annual national WCP forum, or participate in existing forums to support and promote experience sharing and dissemination of best practices.	WCP departments	All	Departments of tourism, agriculture, fisheries, environment, private sector, waste providers					No. of national annual WCP forums conducted.
	14.4. Proactively seek opportunities to engage with regional organisations in WCP-related areas of water and sanitation, transport, energy, disaster risk reduction, agriculture, tourism, health, forestry, and fisheries.	SPREP (Sec)	All	FFA, SPC, SPTO, WCPFC, PPA, PIPSO, CROP agencies					No. of WCP activities involving other regional organisations.
	14.5. Establish a network of WCP recyclers, shippers, and related stakeholders across PICTs to champion resource recovery from packaging waste, e-waste, used oil, used lead acid batteries, used shipping containers, and other WCP.	SPREP (Sec)	All	JICA, SPC, WCP departments, ACOTRED, Fenua Ma, Metropolitan Members, PIRRIC					WCP recycling network established. No. of members of WCP recycling network.
	14.6. Develop a directory of endorsed WCP professional bodies for potential Member participation.	SPREP (Sec)	All	JICA, WMAA, SWANA, WasteMINZ, ACOTRED, PACMA, PMTA, ASTSWMO					Directory of endorsed WCP professional bodies disseminated to PICTs.
	14.7. Encourage employees to participate in endorsed WCP professional bodies.	WCP departments	All	-					No. of persons participating in WCP professional bodies.
	14.8. Establish a national WCP Steering Committee to support coordination and monitoring of WCP activities across responsible agencies.	WCP departments	All	Departments of tourism, agriculture, fisheries, environment, private sector, waste providers					No. of functional national WCP Steering Committees.
15. SPREP, PICTs, and partners shall cooperate to ensure timely monitoring of the Integrated Regional Waste Management and Pollution Control Strategy 2016-2025.	15.1. Prepare annual national reports of WCP activities and outcomes.	WCP departments	All	SPREP (Sec), other national departments and agencies, JICA					No. of annual regional reports of WCP activities prepared.
	15.2. Prepare an annual regional report of WCP activities and outcomes (with support for online national reporting).	SPREP (Sec)	All	WCP Departments, PRIF, development partners					No. of annual national reports of WCP activities prepared and submitted to SPREP (Sec).