

# Regional Approach to Integrated Waste Management in PICTs

David Haynes

JICA-SPREP-IPLA Side Event SIDS Conference  
Expanding Waste Management Services of Pacific Island  
Countries through International PPPs

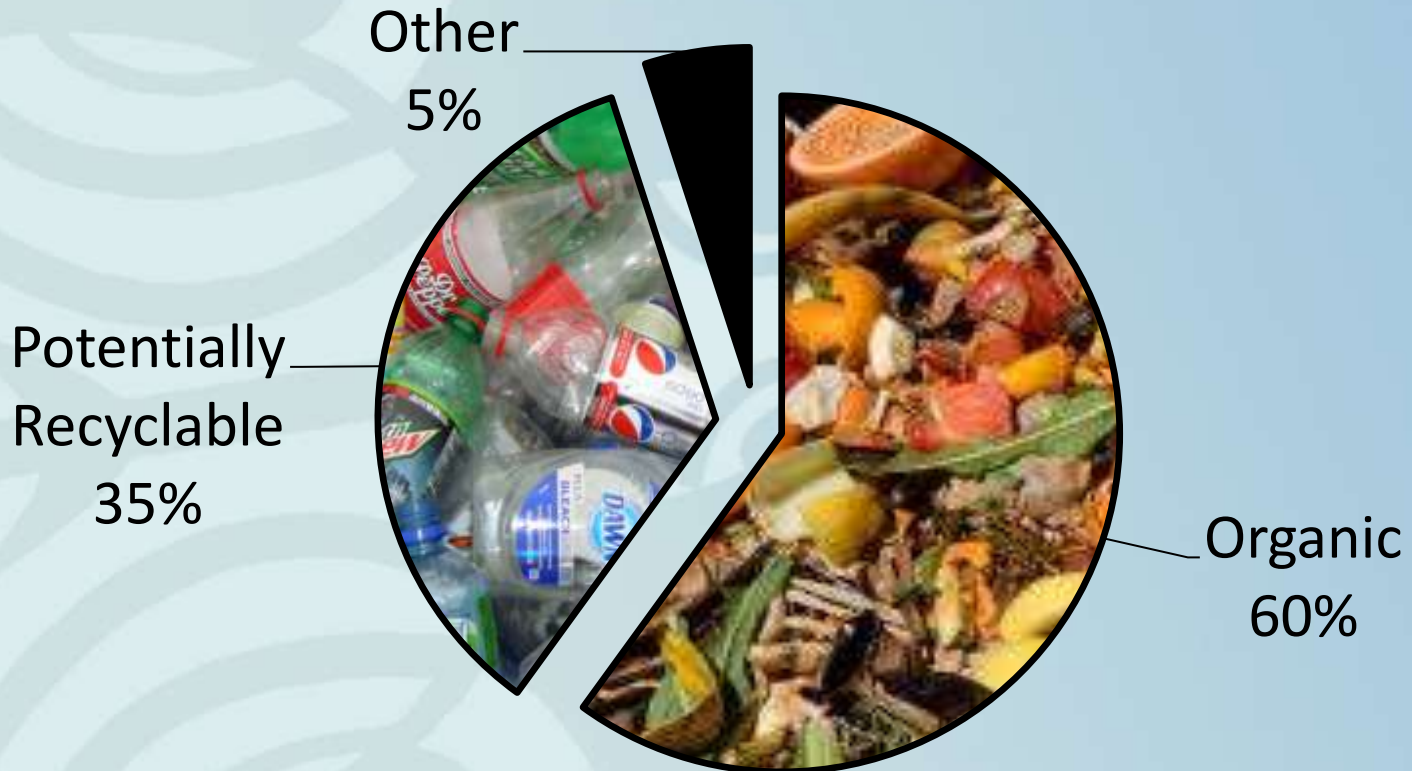
3 September 2014

## Presentation Aims

- Summarize key waste management issues in the Pacific region
- Introduce key regional waste and pollution management strategies
- Present recycling models
- Introduce SPREP and JICA/JPRISM
- Identify key challenges and opportunities for the next 5 years



# Typical Municipal Solid Waste Composition in the Pacific Islands





# Integrated Solid Waste Management

- a. Separation of wastes
- b. Backyard composting of vegetable and food scraps
- c. **Recycling** of glass, plastic, aluminium metal and paper
- d. Disposal of the remainder using the semi-aerobic land fill method (simple, cheap, minimised GHG release)

Waste mass is minimised and collection costs reduced

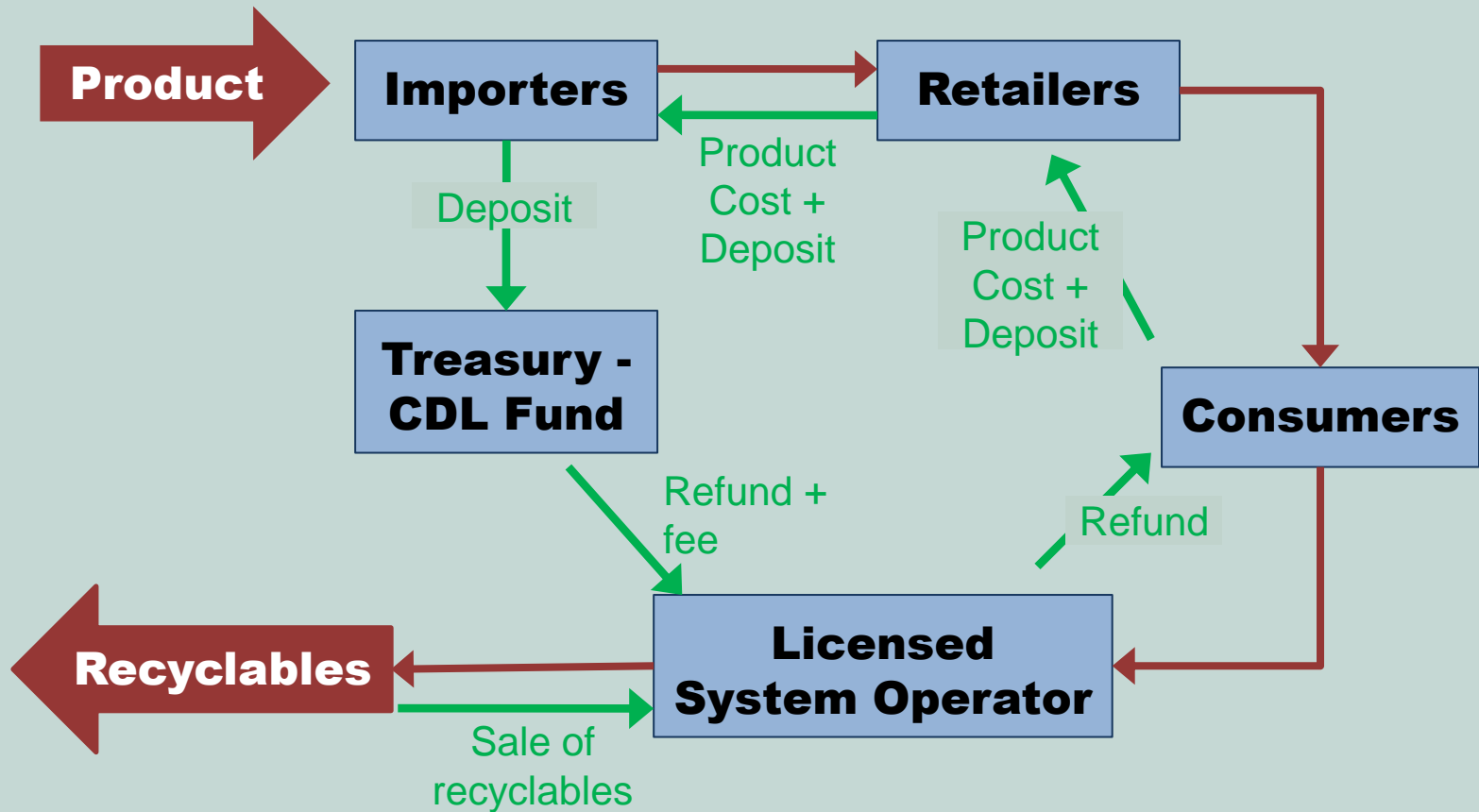




# Recycling is critical

- Container recycling
  - 23 M containers/yr in Palau
  - 2.4 M containers/yr in Yap
  - 8.1 M containers/yr in FSM
  - 3.7 M containers/yr in Kiribati
- Minimise resource use
- Business development
- Job creation, employment
- Reduction in waste to landfill and litter/pollution
- Reduction in household waste collection burden
- Reduced GHG emissions

# Typical Recycling Deposit Legislation System in the Pacific





## Hazardous Waste Management

Integrated waste management includes hazardous waste management

- Asbestos
- E-Waste (electronic wastes)
- Chlorinated organics
- Insecticides and herbicides
- Heavy Metals
- Used Oil
- Healthcare waste



## Recycling: E-waste Management

E-waste is an emerging regional problem due to rapid obsolescence of consumer electronic items

- Public awareness campaigns
- Monitor and record imports
- Charge a small import levee
- Establish collection points at electronic repair centers
- Small refund on return for recycling
- Repair or separate and sort components on site
- Store and export sorted bulk lots of E-waste for recycling offshore







## Recycling: uLAB Management

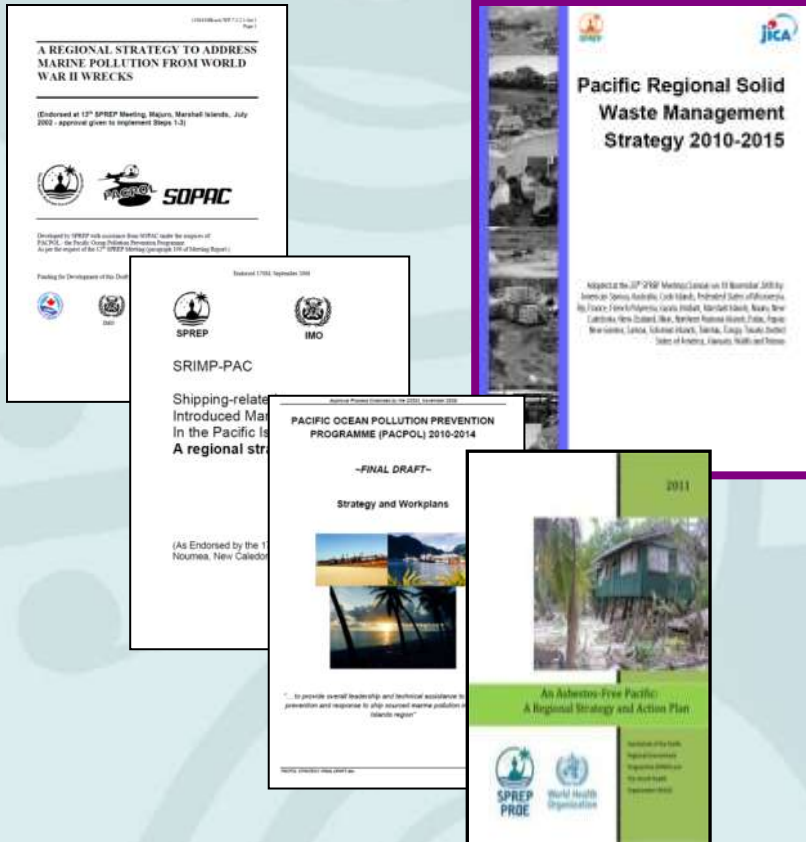
- An emerging regional problem due to import of cars and uptake of solar power
- Monitor and record imports
- Establish recognised collection points
- Public awareness campaigns
- Small refund on return for recycling
- Export bulk lots to Fiji or to Australia/NZ/Asia
- Recycler makes a profit due to value of lead

## Recycling: (Used) Oil Recycling



- Disposal of used oil is a significant pollution issue in the Pacific region, little regional management in place at present
- Supply of used oil collection and separation equipment to PICs
- This will allow collection & temporary storage of used oil in each country before reuse/export/recycling
- Reuse, used oil as a diesel extender in power generation for next 5 years
- Will need to be exported when countries become self sustaining in electricity generation

# Regional Solid Waste Management Strategy 2010-2015



Vision: A healthy and a socially, economically and environmentally sustainable Pacific for future generations

Overall Goal: PICTs adopt cost-effective and self-sustaining waste management systems

Supported by Regional Asbestos, E-waste and Marine Pollution strategies





## The role of JICA/J-PRISM and SPREP

- Human capacity for solid waste management is strengthened through training and workshops
- Solid waste management strategies are finalised
- Landfills are improved and better managed
- Waste segregation and recycling improved

## Integrated Waste Management: Recycling Challenges and Opportunities

- Dispersed island populations, and dispersed waste
- Small volumes of recyclable waste
- Poor inter-island transportation network and high freight costs
- Poor understanding and prioritization of CDL & waste management by politicians, policy-makers
- Expand existing CDL frameworks to include other recyclable materials (tyres, end-of-life vehicles, used oil, E-waste)
- Establish Network of Pacific Recyclers to support CDL
- Explore partnerships with Manufacturers/Producers
- Establish long-term partnerships with Recyclers to potentially secure preferential access



# THANKS FOR LISTENING!

SPREP and J-PRISM

Waste Management and Pollution Control Team,

Apia, Samoa

[wasteteam@sprep.org](mailto:wasteteam@sprep.org)

