



# Digitalizing Trade Controls for Waste Management

## A PROJECT PROPOSAL TO SUPPORT PACIFIC ISLANDS CIRCULAR ECONOMY

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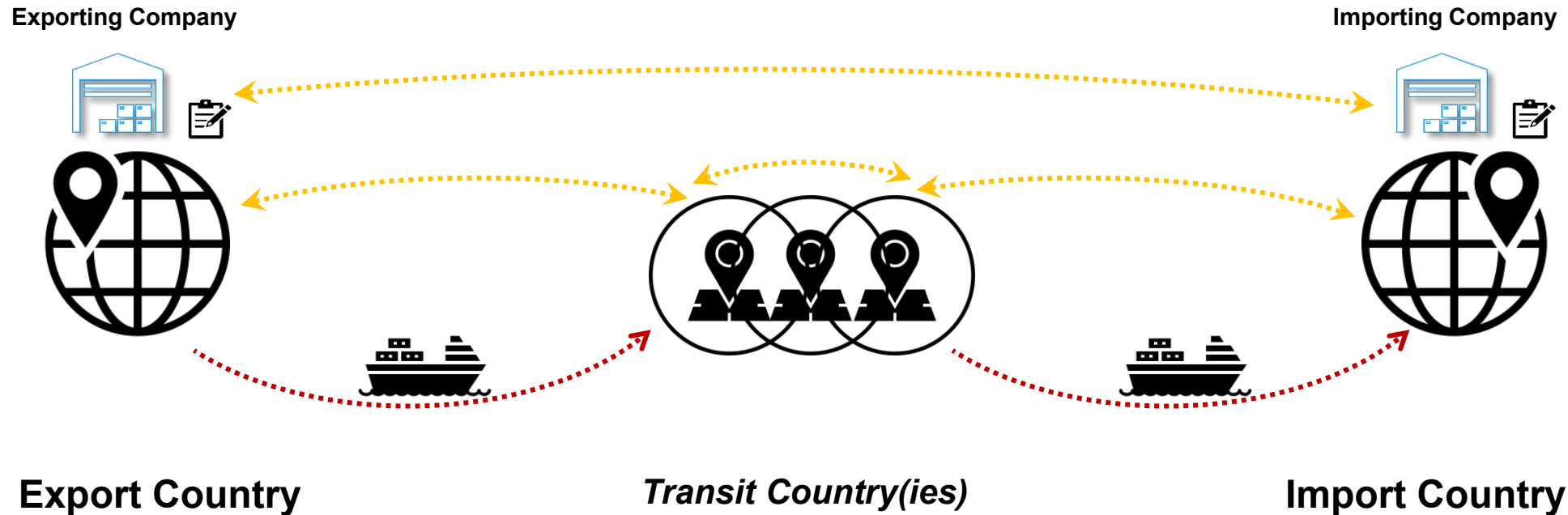
- Global material use has quadrupled in the last 50 years
- 90% of the materials we use today are used then wasted
- That is why the circular economy matters
- Important to reduce, re-use and recycle
- Recycling can also be an important source of secondary materials
- Responsible end-of-life treatment is also key

# Importance for the Pacific



- Within small island nations, waste management presents a unique challenge:
  - Limited space for waste management
  - Unique ocean stewards
  - Limited feedstock to generate recycling industries

# The PIC procedure



- The process engages several stakeholders in the form of importing and exporting companies, and importing and exporting country competent authorities
- Several instances of evolving, time sensitive, and two-way communications make the process more complex



A re-cap of the challenges around the paper-based PIC system:

- Competent Authority (CA) contact details may be out of date (leading to misdirected requests)
- The need for notice and consent from multiple transit countries
- Country variations in data and document requirements around PIC
- Lack of standardised communication channels between notifier, consignee, CA of dispatch, transit and destination
- Unclear and varying decision timeframes
- PIC requests take an average of 105 days to process and in some cases can remain open for over 12 months

**Impact:** Administrative burdens; delayed shipments leading to waste management difficulties

# Problem statement (part 2)

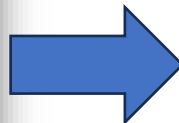


- Delays in the waste trade control system can increase the costs for building circular business models in some materials
- E-waste is the world's fastest growing waste stream, with about 80% mismanaged at end-of-life AND...
- Data from UNEP indicates about 60-90% of that is illegally traded or dumped in the environment
- Yet, to create a “recycled phone” the reverse logistics for the phone at end-of-life are 190% more expensive than a new phone
- That means the recycled product must build in those costs
- Anything that eats into product profit margins has a consequence, including administrative costs for lengthy trade permits (going beyond a reasonable timeframe)

# What an e-PIC System could look like

**Notification document for transboundary movements/shipments of waste**

<b>1. Exporter - notifier</b> Registration No: Name: Address: Contact person: Tel: Fax: E-mail:	<b>3. Notification No:</b> Notification concerning A.(i) Individual shipment: <input type="checkbox"/> (ii) Multiple shipments: <input type="checkbox"/> B.(i) Disposal (1): <input type="checkbox"/> (ii) Recovery: <input type="checkbox"/> C. Pre-consented recovery facility (2,3) Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>2. Importer - consignee</b> Registration No: Name: Address: Contact person: Tel: Fax: E-mail:	<b>4. Total intended number of shipments:</b> <b>5. Total intended quantity (4):</b> Tonnes (Mg): m <sup>3</sup> :
<b>8. Intended carrier(s)</b> Registration No: Name(7): Address: Contact person: Tel: Fax: E-mail:	<b>6. Intended period of time for shipment(s) (4):</b> First departure: Last departure: <b>7. Packaging type(s) (5):</b> Special handling requirements (6): Yes <input type="checkbox"/> No: <input type="checkbox"/>
<b>9. Waste generator(s) - producer(s) (1;7;8)</b> Registration No: Name: Address: Contact person: Tel: Fax: E-mail:	<b>11. Disposal / recovery operation(s) (2)</b> D-code / R-code (5): Technology employed (6): Reason for export (1,6):
<b>10. Disposal facility (2):</b> <input type="checkbox"/> or <b>recovery facility (2):</b> <input type="checkbox"/> Registration No: Name: Address: Contact person: Tel: Fax: E-mail:	<b>12. Designation and composition of the waste (6):</b> <b>13. Physical characteristics (5):</b>
Actual site of disposal/recovery: <b>15. (a) Countries/States concerned, (b) Code no. of competent authorities where applicable, (c) Specific points of exit or entry (border crossing or port)</b> State of export - dispatch: State(s) of transit (entry and exit): State of import - destination:	<b>14. Waste identification (fill in relevant codes)</b> (i) Basel Annex VIII (or IX if applicable): (ii) OECD code (if different from (i)): (iii) ECU list of wastes: (iv) National code in country of export: (v) National code in country of import: (vi) Other (specify): (vii) Y-code: (viii) H-code (5): (ix) UN class (5): (x) UN Number: (xi) UN Shipping name: (xii) Customs code(s) (HS):
<b>16. Customs offices of entry and/or exit and/or export (European Community):</b> Entry: Exit: Export:	<b>17. Exporter's - notifier's / generator's - producer's (1) declaration:</b> I certify that the information is complete and correct to my best knowledge. I also certify that legally enforceable written contractual obligations have been entered into and that any applicable insurance or other financial guarantee is or shall be in force covering the transboundary movement. Exporter's - notifier's name: Date: Signature: Generator's - producer's name: Date: Signature:
<b>18. Number of annexes attached</b>	<b>19. Acknowledgement from the relevant competent authority of countries of import - destination / transit (1) / export - dispatch (9):</b> Country: Notification received on: Acknowledgement sent on: Name of competent authority: Stamp and/or signature:
<b>FOR USE BY COMPETENT AUTHORITIES</b>	<b>20. Written consent (1;8) to the movement provided by the competent authority of (country):</b> Consent given on: unit: Consent valid from: unit: Specific conditions: No <input type="checkbox"/> If Yes, see block 21 (6): <input type="checkbox"/> Name of competent authority: Stamp and/or signature:



Country: Dune

Review PIC

PIC ID - 77

🏠 Dashboard

Section 1 of 1

**Exporter (1)**

Importer (2)

Notification Concerning (3)

Shipment Information (4-7)

Carrier Information (8)

Waste Generators (9)

Disposal (10-11)

Waste Information (12-14)

Countries Concerned (15)

Attachments

PIC Description

Shipment of Waste from Dune to Narnia

Exporter Name  
 Sample Exporter

Address  
 5678 Anywhere Street

Contact Person  
 John Smith

E-mail  
 john.smith@exporter.com

Registration No  
 Sample Number

Telephone  
 999-999-999

Fax

← Exit

✓ Transmit

? Request Further Information

✗ Reject

✓ Approve

Next ➤

# What an e-PIC System could look like



Country: Dune

## PIC Dashboard

- Dashboard
- Country Details
- PIC List
- Help Desk
- Print & Download

PIC ID	Submitted Date	Age (days)	Review Status	Review Type	Company	PIC Description
77	5/7/2023	1	New	Export	Sample Company 1	Shipment of Waste from Dune to Narnia
77	5/7/2023	1	New	Export	Sample Company 1	Shipment of Waste from Dune to Narnia
68	5/5/2023	3	New	Import	Sample Company 1	Waste batteries to Dune
32	2/1/2023	96	Pending Review	Import	Sample Company 1	Shipment of waste widgets to Dune

New Notification

Country: Dune

## Review PIC

PIC ID - 77

- Dashboard
- Exporter (1)
- Importer (2)
- Notification Concerning (3)
- Shipment Information (4-7)
- Carrier Information (8)
- Waste Generators (9)
- Disposal (10-11)
- Waste Information (12-14)
- Countries Concerned (15)
- Attachments

Section 1 of 1

PIC Description  
Shipment of Waste from Dune to Narnia

Exporter Name: Sample Exporter      Registration No:

Sample Number:

Address  
5678 Anywher Street

Contact Person: John Smith      Telephone: 999-999-999      Fax:

E-mail  
john.smith@exporter.com

← Exit
✓ Transmit
? Request Further Information
✗ Reject
✓ Approve
Next →



# Project overview



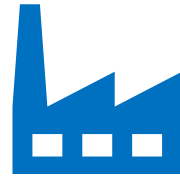
- Implement a voluntary, digitalised PIC system within the Southern Pacific
- The electronic system will be built out based on an initial design incorporating user feedback from initial participating countries during an **investigation phase**
- The live digital solution will then be put into practice with interested competent authorities during an **implementation phase**
- The system will be used to facilitate legitimate transboundary movement of Waigani covered wastes (by using the regional e-PIC system to process consignments). Feedback from the project will be used to improve the system and training provided
- Learnings will also be shared at a global level with the Basel Convention which is examining steps towards PIC digitalisation

# Project benefits



## Government

- Efficient oversight
- Ensure proper controls
- Enable ESM
- Centralised management of waste movements
- Facilitate annual reporting



## Industry/Traders

- Increase efficiency in movement
- Improved recycling of e-waste and plastics
- Circular materials sourcing



## Environment

- Enable ESM and circularity
- Energy efficient
- Reduce emissions
- Protect biodiversity



For more information contact:

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