

ADB Waste Management Projects in Greater Malé (Maldives)

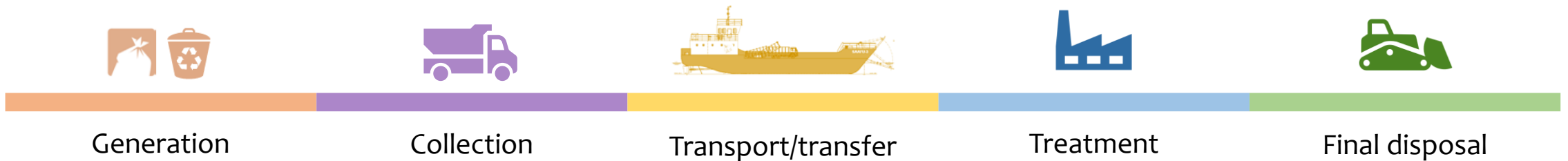
Luca Di Mario



Sustainable Financing for Nature Positive
Investments: Tools for Integrating Economic
and Market-Based Instruments into Projects

The views expressed in this presentation are the views of the author/s and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this presentation and accepts no responsibility for any consequence of their use. The countries listed in this presentation do not imply any view on ADB's part as to sovereignty or independent status or necessarily conform to ADB's terminology.

ADB supported waste management projects in Greater Malé (Maldives)



GM Environmental Improvement and Waste Management Project 2018-2023

\$40.00 million (ADB and JFPR)

1. Improved waste collection, transfer and disposal in Greater Malé including improved site management and logistics on Thilafushi (temporary measure) + constr and demolition waste
2. Improved outer island waste management system
3. Improved awareness and behavioral change

GM Waste to Energy Project 2020-2026

\$151.13 million (ADB, AIIB, JFJCM)

1. Regional waste management facility with WTE plant and landfill for APC and IBA;
2. Institutional capacity & public awareness

Strengthened **institutional capacities for sustainable solid waste service delivery** and **environmental monitoring**

1. Cost-based fee setting for solid waste management

- Waste Management Company (WAMCO - state owned enterprise)
 - charges a fixed monthly fee for different services, but do not follow *causative principle*;
 - limited understanding of cost spent per service.
- The project is:
 - Supporting WAMCO's capacity to calculate cost per service and adopt a more sustainable fee system (pay-as-you throw for commercial and construction and demolition waste?)
 - Strengthening business planning, vision, and systems
 - Designing collection system based on demand for recyclables
 - Exploring extended producer's responsibility (EPR) or cross-subsidy schemes to improve recycling

2.Value for Money: Design build and operate (DBO)

- **Performance-based:** contractor responsible to deliver a fit-for-purpose facility which meets performance requirements
 - 12 performance guarantees and damages – based on international operational and emission standards
- **Life-cycle:** the contractor bears the risk (cost) of more frequent replacements if inefficient design or O&M (or low bid price)
 - Long term operation service period (OSP): 15 years
 - Evaluated price bid takes account of electricity generated rewarding higher efficiency and emissions in operating the plant (waste treatment)

