



Panama Action Plan



Solid Waste Management TDD
Tokyo, Kitakyushu- Japan
September 24-28, 2018

Panama Key Takeaways

1. Citizen engagement.
2. Kyoto model – Education and communication outreach approach
3. Kitakyushu overall approach to solid wastes and wastewater (interplay between solid wastes and flood risks!)
4. Technological solutions particularly composting food wastes
5. Road map for policy makers.
6. Reliable Data and Monitoring



Panama Accomplishments Needed

1. Appropriate Institutional Framework for Waste Management
2. Public Awareness and Education Plan
3. Information System for Decision Making
4. Integrated Approach for solid waste and wastewater management
5. Private Sector Engagement (EPR schemes)
6. Suitable Technological Solutions



Panama Actions to be Taken

- **Short-term:** (2019-2020)
 - Development of Policy Laws.
 - Strategy for effective transition between AAUD and Municipality competencies including baseline.
 - Waterfront Resilience Plan with waste management considerations
 - Educational Strategy to raise awareness on solid waste and wastewater.
- **Medium-term:** (2020-2025)
 - Implementation of the Metropolitan Waste Management Plan
 - Implementation of business models of EPR modalities
- **Long-term:** (beyond 2025)
 - Kitakyushu Model water free of pollutants.
 - Monitoring targets (30% decrease in the generation of waste going into final disposal).
 - Continued wide awareness building among citizens to back up the water and waste management plans.

Panama's Barriers & Challenges to Implementation

1. Political (elections are coming)
2. Citizens' lack of engagement
3. Poor institutional coordination
4. Limited resources
5. Private sector inertia to avoid changes



Panama's Lending and TA - Active or Needed

- **Technical Assistance Work:**

- Panama City's Urban Regeneration and Water Front Resilience – US \$ 500.000
- (Concept Plan for a Resilient Waterfront; Flood Risk Evaluation of Tocumen River, Capitalization Plan for Resilient Investment)

- **Investment Work:**

- Wastewater Management Project – US\$53 million
- Integrated Urban Water Management for Tocumen River – US\$12 million

Panama Support Needed

- **World Bank:**
 - Include a the waste institutional framework reform as trigger for next DPL to speed up the process (or prior action for new CAT-DDO under consideration)
 - Waste management considerations included in the Waterfront Resilience concept plan.
 - TORs for the development of the Tocumen River management plan considering waste and flood risks.
- **TDLC Program (Japan)**
 - Action plan for the transition of competencies of waste management to a local/ regional governance
 - Development of a subsector pilot approach for Tocumen River based on Kitakyushu Model Subsector
 - Expert deployment to advice design of a compost focus Eco-Town pilot phase.
 - Assistance to design educational strategy PANAMA-NO-KOKORO (based on Kyoto approach)
 - Design of activities of the Interactive Environmental Education Center
 - Advice to develop EPR modalities.
- **Knowledge Products (Case Studies, Policy Notes, etc.)**
 - An updated study of the JICA 2003 including costing.



ありがとうございました



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