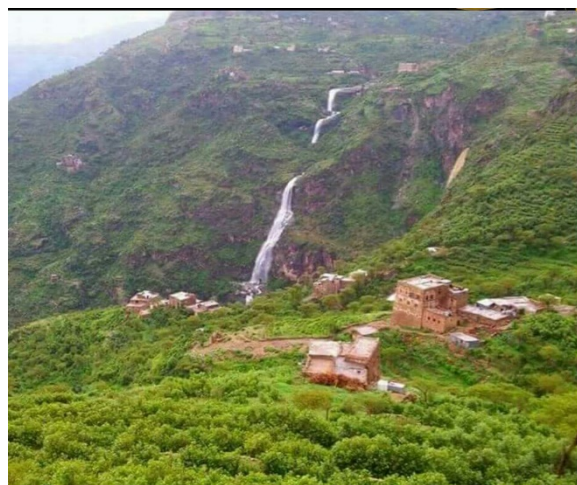


# Yemen Action Plan



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

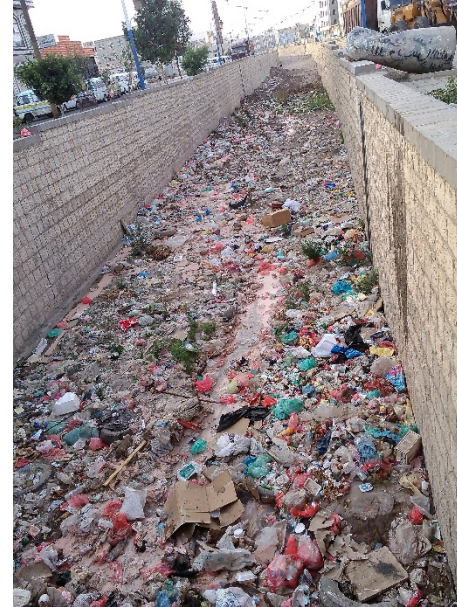
# Yemen Key Takeaways

1. Step by step approach for managing solid waste
2. First focus on collection
3. Disposal to landfill site
4. Recycling is important but comes after waste collection chain is re-established.
5. Waste to energy not feasible at the moment



# Yemen Accomplishments Needed

1. Collection and disposal of “Accumulated Waste”
2. Cleaning of drains, water channels
3. Sustainability of Solid Waste Services – Ensure continuation of basic service
4. Fix damages to transfer stations
5. Basic fixes to landfill sites to bring them to minimum environment standard



# Yemen Actions to be Taken

- **Short-term:**
  - Restore primary collection
  - Manage accumulated municipal waste
  - Disposal of construction waste from war related destruction
- **Medium-term:**
  - Rehabilitate landfill site / transfer stations
  - Update national Solid Waste Management strategy
- **Long-term:**
  - Establish new landfill sites (especially in Sana, Marib)
  - Explore options for incineration / composting



# Yemen Barriers & Challenges to Implementation

1. Ongoing war
2. Financial challenges – lack of resources
3. Institutional challenge, lack of coordination between local and central government
4. Damages to infrastructure / equipment



# Yemen Lending and TA - Active

- Technical Assistance Work Planned:
  - Landfill rehabilitation technical design
- Investment Work Ongoing:
  - Private sector driven out put based contracts for collection (transfer of accumulated waste to landfill, paid per m3)



# Yemen Support Needed

- World Bank:
  - Financing for maintaining solid waste management services
  - Investment in new landfill sites
  - Technical assistance for involvement of youth and civil society organizations
- TDLC Program (Japan)
  - Technical assistance on options to manage construction and **war waste**
  - Study on how to organize already ongoing informal collection and reuse of recyclable materials