

Calgaryan de Oro Solid Waste Management: A Work in Progress



Cagayan de Oro City

 Regional Center of Northern Mindanao (Region X)

Annual Average Growth Rate:
 5.8%





Cagayan de Oro City

- 2013: Most Competitive City in the Philippines
- 2014: 2nd Most Competitive City
 - Next to Makati, the country's premier financial district





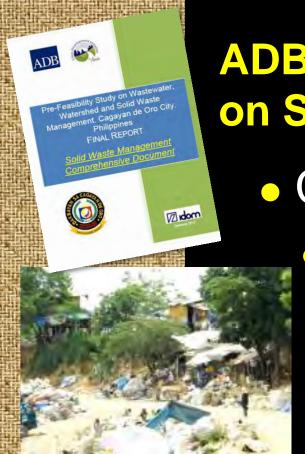




ADB-CDIA Pre-Feasibility Study on Solid Waste Management

Conclusions

- Present system noncompliant with solid waste management law
 - Absence of proper segregation and waste reduction strategies at source
 - Inefficient collection
 - Compounded by poor coordination between waste generators and collectors
 - No specific treatment of solid wastes including medical and hazardous waste.

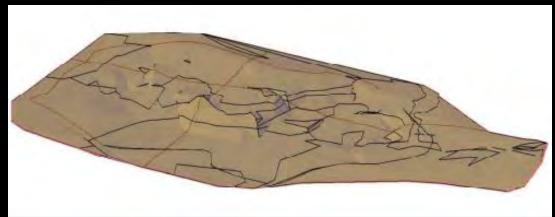


ADB-CDIA Pre-Feasibility Study on Solid Waste Management

Conclusions

- Existing open dumpsite is close to maximum capacity
 - Timely rehabilitation will make it available for waste disposal for the next 3-4 years.







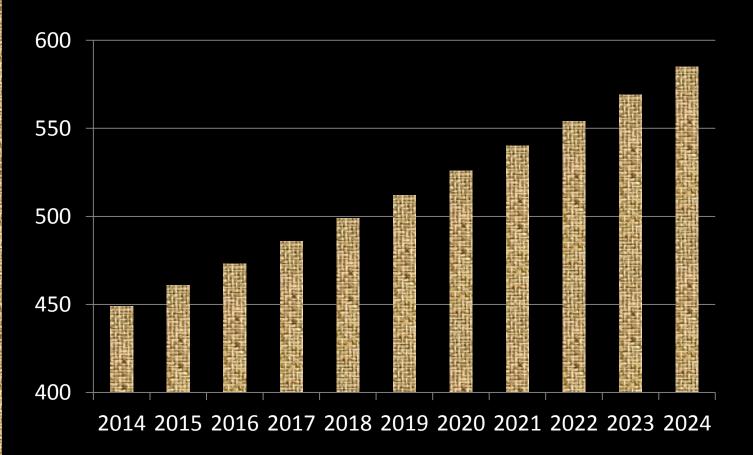
Current Disposal Site



Source: ADB Study, 2012 (Source: Google Earth year 2011)



Projected Solid Waste Generation Without Intervention (in Thousand Kilograms)

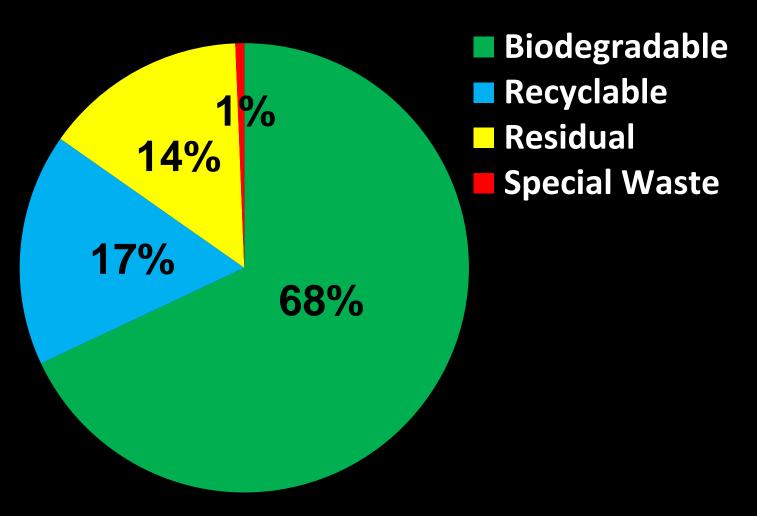


Solid Waste Generation at 0.67 kg/day per capita

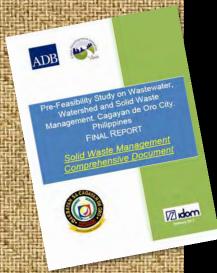
Source: Waste Analysis and Characterization Study, CDO, 2014



Waste Composition 2014



Source: Waste Analysis and Characterization Study, CDO, 2014



ADB-CDIA Pre-Feasibility Study on Solid Waste Management

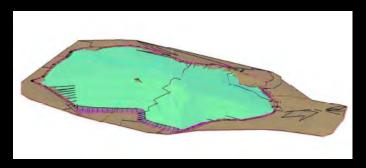
- Recommendations
 - Improvement and Closure of Current Open Dumpsite
 - New Sanitary Landfill
 - Solid Waste Transfer Station
 Construction and Operation



Strategic Projects

- Carmen Dumpsite (Existing Open Dumpsite)
 - Operation improvements
 - Leachate collection
 - Reshaping
 - Landfill gas control
 - Final capping and closure
 - Post-closure maintenance

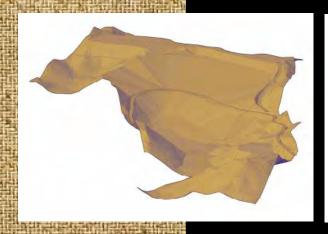


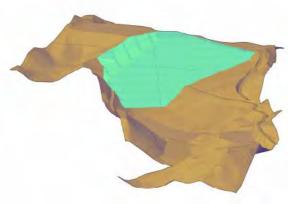


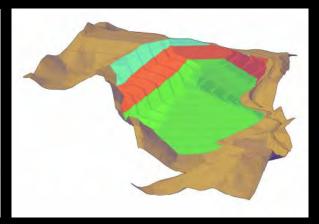


Strategic Projects

- New Sanitary Landfill
 - Construction:
 - New modern sanitary landfill with 3 cells and 4.55 million-cubic meter capacity
 - Operation
 - 21-year lifespan







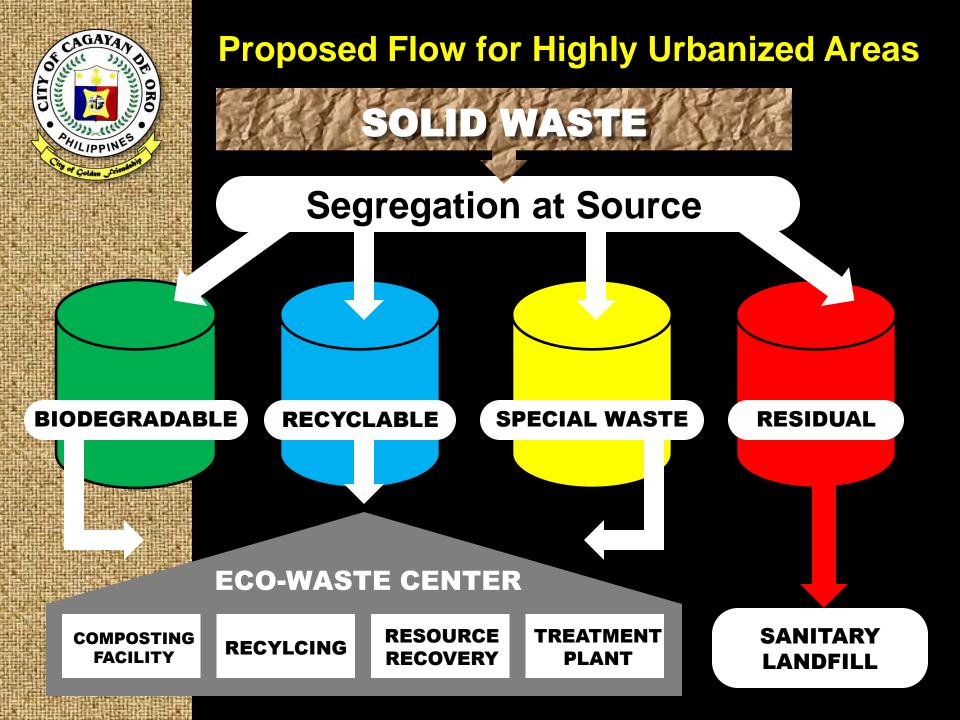


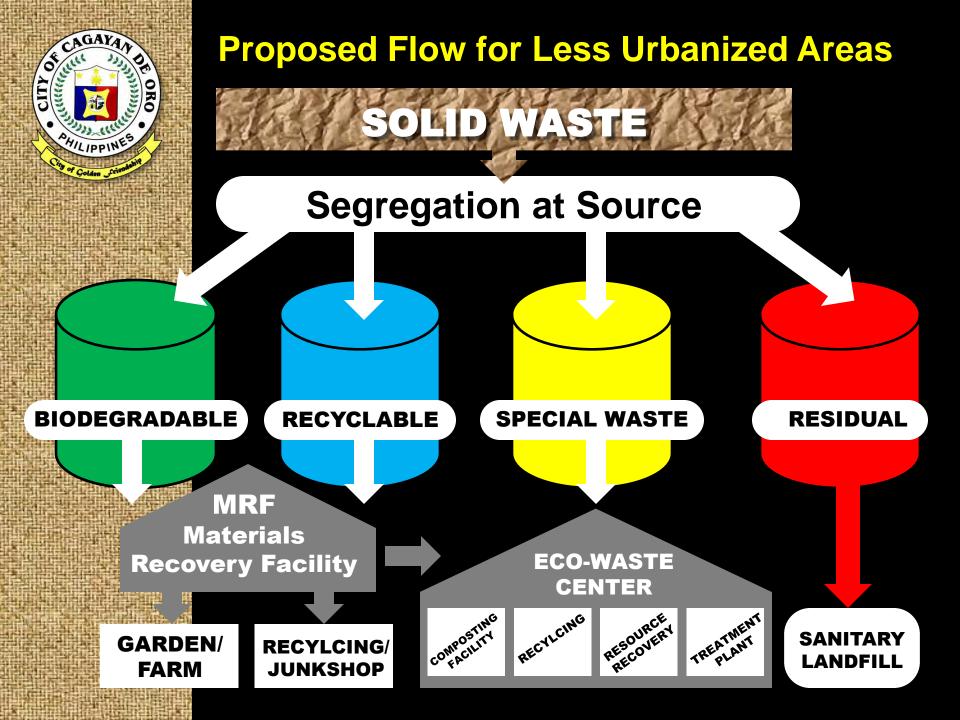
Strategic Projects

- Solid Waste Transfer Station
 - Construction, civil work, supplies and equipment
 - Compaction unit
 - High volume closed containment
 - Operation











ご清聴ありがとうございました