



# Current Situation of Solid Waste Management in Cambodia

Dek Vimeanreaksmey, Deputy Director of Solid Waste Management Department  
General Directorate of Environmental Protection, Ministry of Environment

Nov 14, 2022

# Content

1. Municipal Solid Waste Management
2. Legal Framework and Restructuring in Management
3. Challenges in Municipal Solid Waste Management
4. Supports to Local Administration
5. The Way Forward

# 1. Municipal Solid Waste Management

---

## Waste collection service in the Capital City of “Phnom Penh”

- Khans/Communes (14):
  - 3600T/Day of Municipal Solid Waste (MSW) generated
  - 3 zones for MSW management with 3 different collaborated companies providing service for waste collection.
  - Initiatives of waste separation at sources (two level: as duty, and as voluntary)

# 1. Municipal Solid Waste Management (Cont.)

---

## Waste collection service in 24 provinces (28 cities, 162 districts)

- Cities:
  - MSW generated is about 2423T/Day, of which 77% is collected and transported to dumping site by private companies
  - In general waste collection service covers about 40% of households

# 1. Municipal Solid Waste Management (Cont.)

---

## Waste collection service in 24 provinces (28 cities, 162 districts)

- Districts:
  - 304 downtowns/household concentration, there's about 2466T/Day of MSW generated, of which 43% is collected and transported to dumping site mostly by Market's Management/investor or by contractor
  - In general waste collection service covers about 18% of households
  - Most of the downtown, MSW generated is less than 5T/Day

# 1. Municipal Solid Waste Management (Cont.)

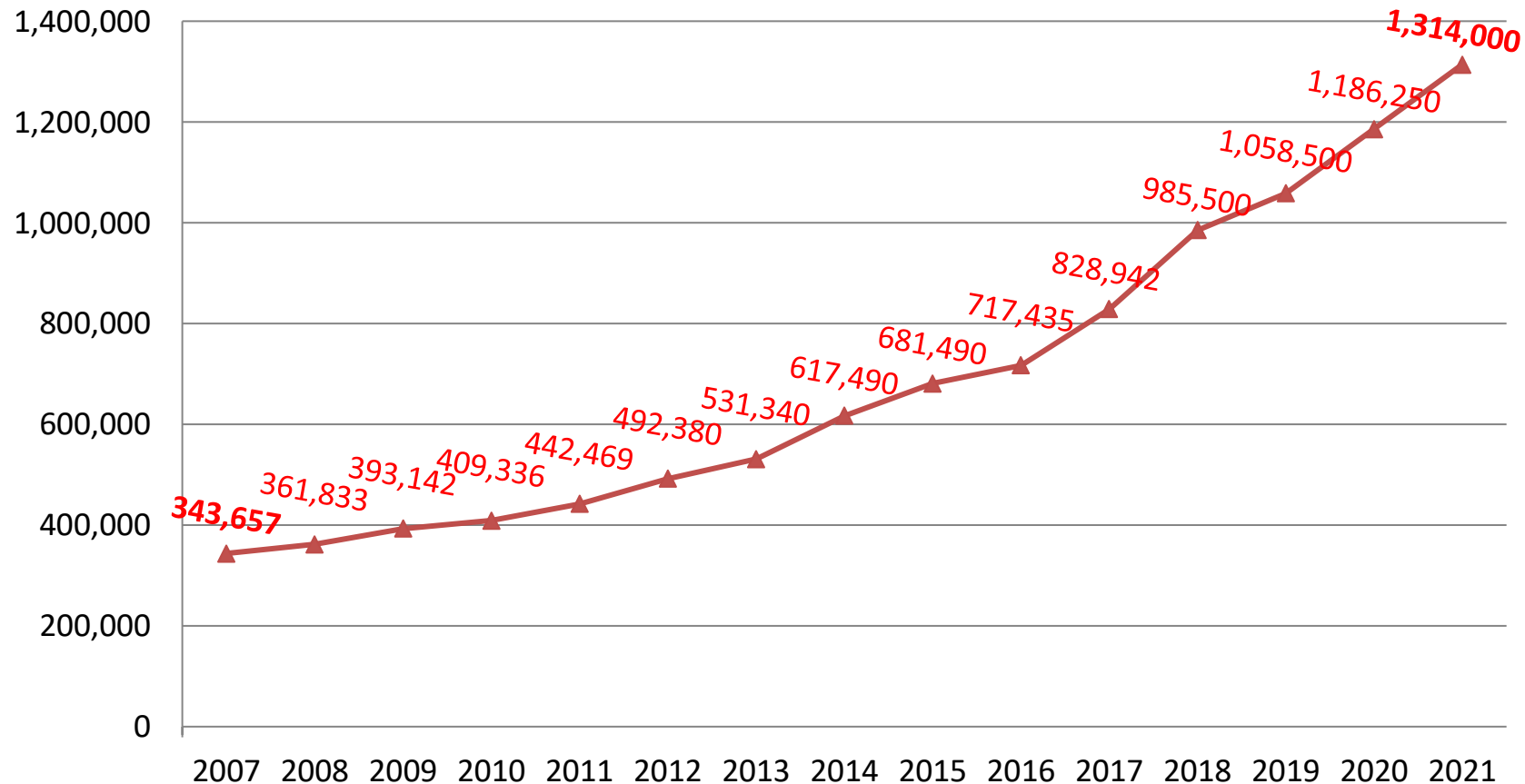
---

## Final Disposal/Landfill

- Phnom Penh: current dumping site is surrounded by household and nearly full. The new regional landfill development is in the process (located in Kandal province, about 40Km from center of the city)
- Cities: all are open dumping sites, except at Preah Sihanuk City
- District: all are open dumping site and can be accessed difficultly in rainy season

# 1. Municipal Solid Waste Management (Cont.)

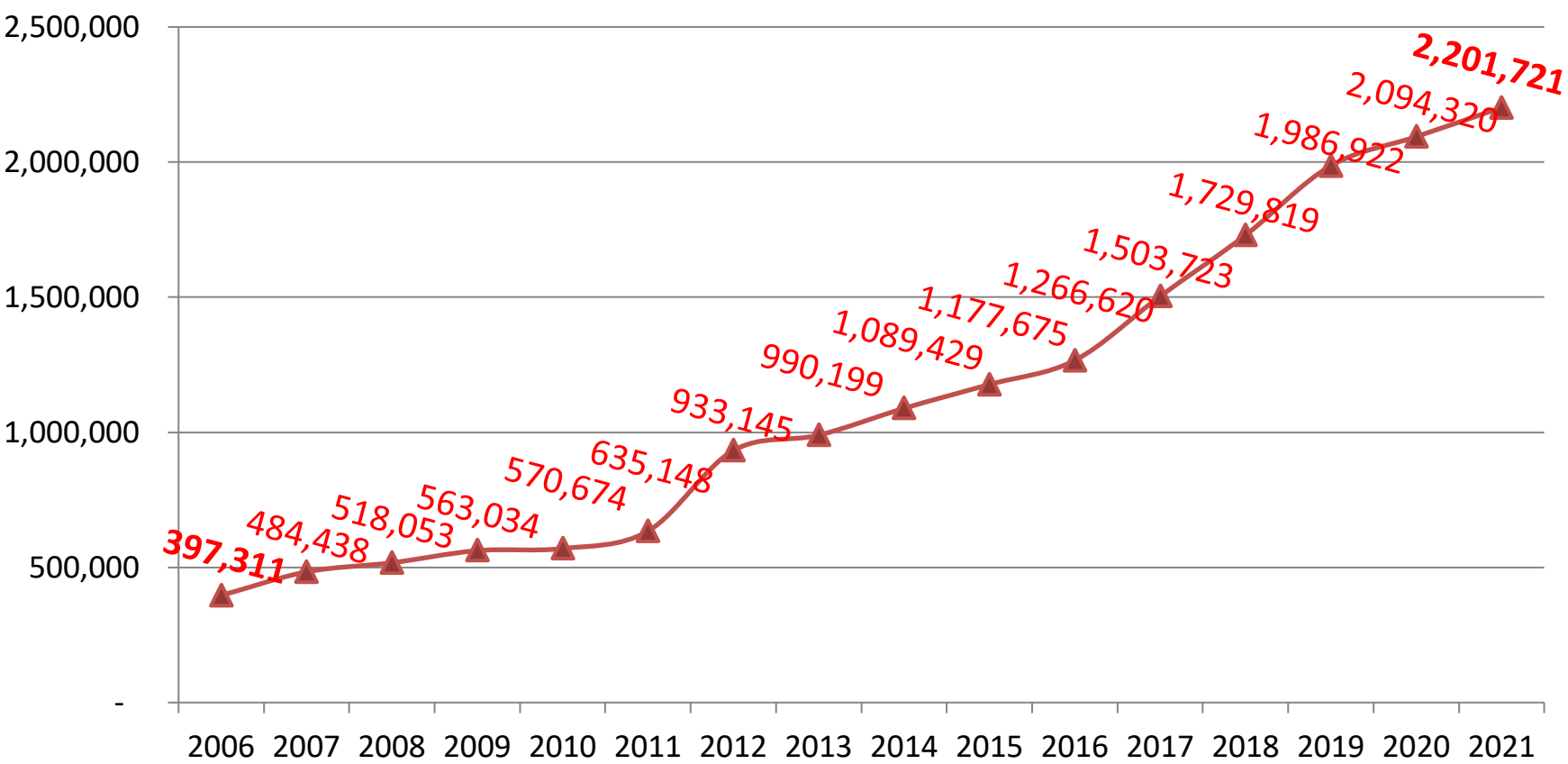
## Growing Volume of Municipality Solid Waste Disposal at Dongkor (Phnom Penh City)





# 1. Municipal Solid Waste Management (Cont.)

## Growing volume of Municipality Solid Waste Disposal in Cambodia





# 1. Municipal Solid Waste Management (Cont.)

---

Open dumping site in Phnom Penh

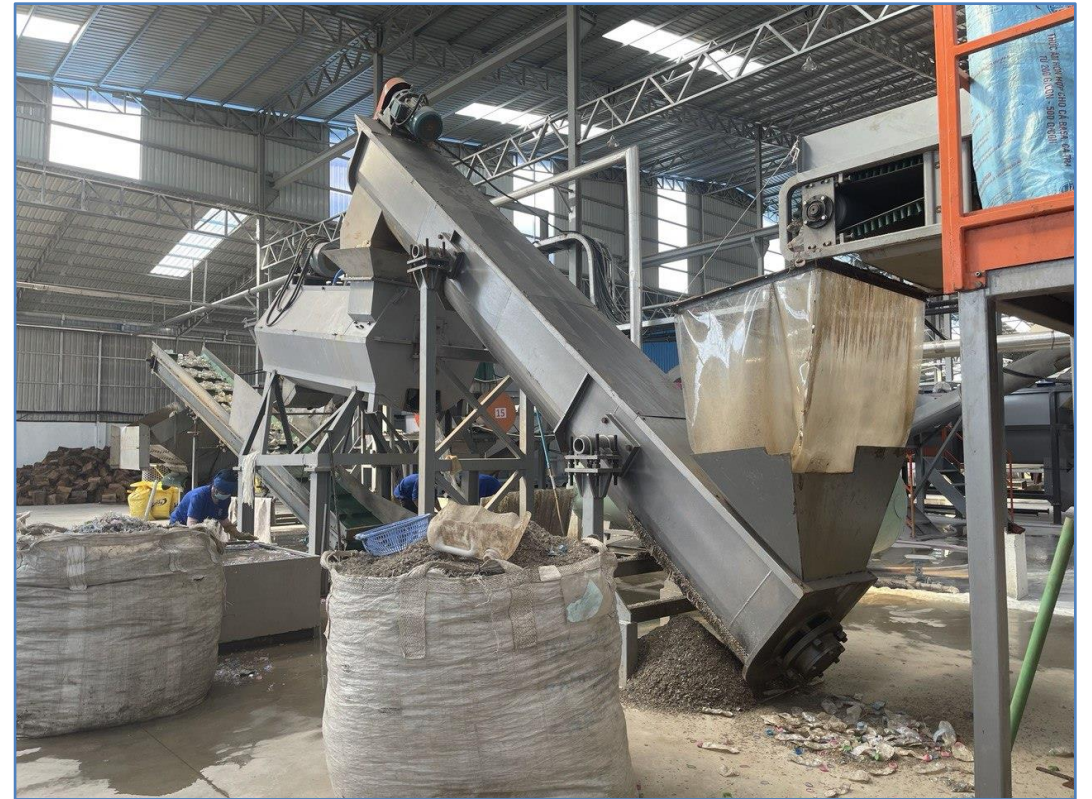




# 1. Municipal Solid Waste Management (Cont.)

---

## Plastic recycling activities in Cambodia





# 1. Municipal Solid Waste Management (Cont.)

---

## Compost processing facility



## 2. Legal Framework and Restructuring in Management

---

### Legal Framework and Regulations





## 2. Legal Framework and Restructuring in Management (Cont.)

---

### Restructuring in Management

- Transfer function of MSW management to sub-national administration (Capital City, City and District administration)
- Set up the Committee for MSW Management (national) to steering from the upstream to downstream of management
- Set up State Enterprise for Managing Transfer Station and Landfill

### 3. Challenges in Municipal Solid Waste Management

---

- Limitation of resources for MSW management;
- Lack of infrastructures and means (from collection to final disposal)
- Lack of investment (as amount of waste generated of each downtown is not much, revenue resources is limited)
- Limited access to technologies and innovation
- Some gaps in policies and regulations
- Limitation of public awareness and people's willingness in participation in MSW management.

## 4. Supported to Local Administration

---

- Environmental Budget (Levy from the importation of plastic & electronic products): 2M USD/year is provided to all 28 Cities for MSW management
- Providing equipment and materials to local administration: 58 waste collection trucks, 118 of 3-wheels vehicles for waste collection, 60 incinerators, 68 dumpsters, 129 water fountains, etc.
- Capacity building and technical assistance in solid waste management
- Construct new sanitation landfill in each cities



## 4. Supported to Local Administration (Cont.)

---

Providing equipment and materials to sub-national administration



## 4. Supported to Local Administration (Cont.)

---

### Sanitation Landfills





## 5. The Way Forward

---

- Develop a new sub-decree on plastic products and waste management.
- Promote 3R activities (plastic recycling business model in Cambodia).
- Action plan and Roadmap on plastic management for Cambodia.
- Develop the principal guideline for the management of sanitation landfill.
- Plastic alternative for producers in Cambodia.

Thanks for Your Attention!