Forum of Cities that Segregate

8th February 2019

Muzaffarpur, Bihar

Shibu K.N.
Thanal, Kerala
Building incentives to include informal sector in plastic waste management in cities
Global Plastic production **381 million Tonnes** (2015)

Plastic waste generation by industrial sector, 2015

- Packaging: 141 million tonnes
- Other sector: 42 million tonnes
- Textiles: 38 million tonnes
- Consumer & Institutional Products: 37 million tonnes
- Transportation: 17 million tonnes
- Electrical/Electronic: 13 million tonnes
- Building and Construction: 13 million tonnes
- Industrial Machinery: 1 million tonnes

Source: Geyer et al. (2017)
India generates **25,940 TPD**

60 major cities in India produces **4,059 TPD**

Plastics form 3.1% to 12.47% of municipal waste.

On an average it is **6%** of Municipal waste.

*CPCB, 2017*
Challenges

40% of plastics are used for **PACKAGING**
Low value small format plastics
Single use Plastics / Packaging material
Low recycle content
Fluctuations in crude oil prices
Cost of Living
**MIXED WASTE**
Maximising Recovery of Plastics

• Segregation at source
• Decentralized SWM systems
• Integration of Informal Sector
Kagad Kach Patra Kashtakari Panchayat
**Pune Municipal Corporation**
**Pimpri Chinchwad Municipal Corporation**

Door to door segregated collection
Decentralised composting/BG Resource Recovery

Hasiru Dala
**Bruhat Bengaluru Maha Nagara Palike**

Door to door segregated collection
Decentralised Composting/BG Resource Recovery

SMS - Parisar Vikas
**Municipal Corporation of Greater Mumbai**

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Plastic waste management - Kerala

Material Recovery Facilities
Resource Recovery Facilities
Collection / Clean up Drives
Service Providers for door to door pick up
Clean Kerala Company
Scrap Dealer panel
Recyclers Panel
Plastic waste management - Kerala

- Plastic Waste
  - High Value
    - Waste picker cum traders
  - Low Value
    - Service Providers
    - Collection Drive / Drop
  - Scrap Dealers
  - Clean Kerala Company / Recyclers
Thank you