

Waste to Wealth



Adam Licisko

Dr. Vivek S. Agrawal

Trustee Secretary
Centre for Development Communication



Chair
WGCTT



India's Perception:

1.5 Billion population by 2030

India will be the most populous country in the world by 2030

23 % Increase since 2012 - 2030

India Will Outnumber China's population by 2025

Rapid Urbanization: INDIA



By 2025:

68 Metro cities

58 Urban Districts

115 Semi-Urban Districts

96 Rural Districts

25 % of Global population



Source: dnaindia.com, Mc kinsey

Urban India – Present Scenario

- Every day, Urban India generates around .14 Millions MT of Municipal Solid Waste (MSW)
- This waste generation increases by 50% every decade.
- More than 80% of this generated waste reaches open dumpsites.



Solid Waste Projection: INDIA



Present: .14 Million MT Solid waste produced in Urban India (source – CPCB annual report 2014-2015)

By 2025 : Total Waste Generation will exceed 140 Million Tonnes



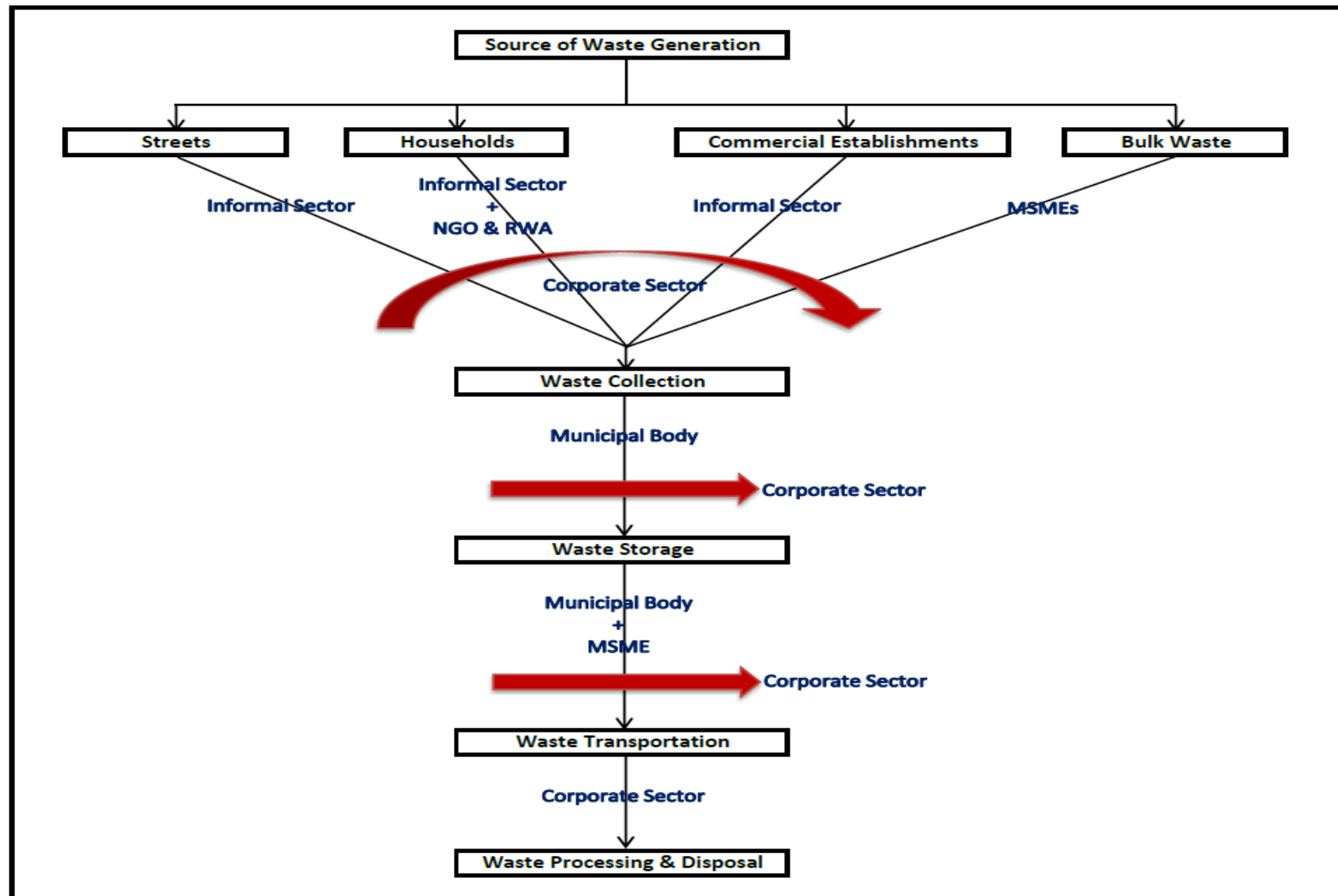
Source: BAU



Stakeholders Involvement



Wrong Players – Wrong Position





Concerns : SWM Current Scenario

- SWM has become a **problem** or **liability** rather than a potent business model
- Continuous **implementation** failure in Class-I and Class-II cities
- Lack of Source **segregation** and **collection**
- Safe disposal and availability of **affordable technology** are the major problems faced by MSWM Sector of India.
- Limited **Land** resource

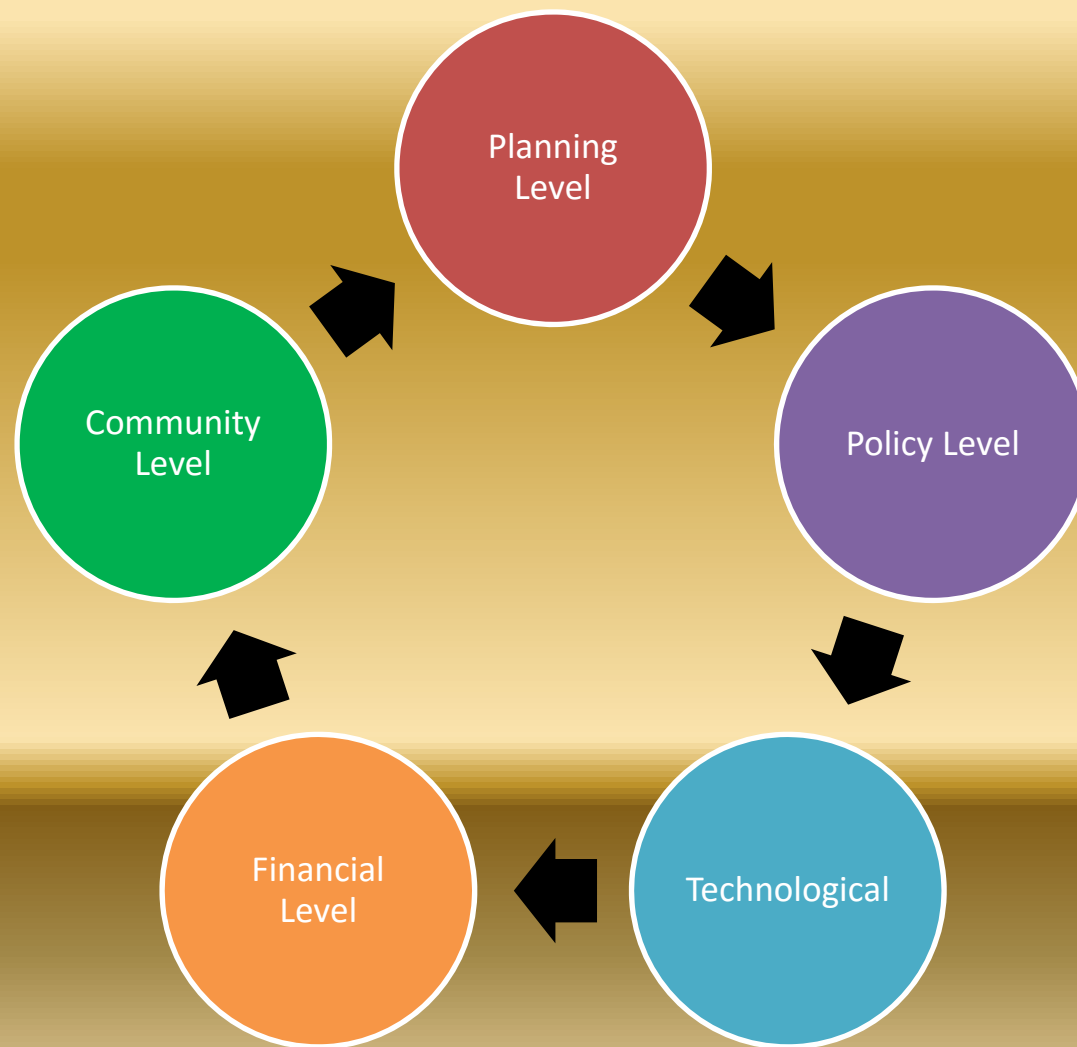


Corporate Sector in SWM

- Just on footsteps of western world
- Only strength is availability of large capital
- No attention to needs and requirements of Indian conditions and related SWM



Challenges





Challenges

- Lack of data that leads to miscalculations by private parties and awareness and qualified human resource.
- Lack of professional expertise with ULBs leading to abstractly scoped, copied or superficial tender documents without considering local requirements.



Partnerships and Options

- **Partnerships**
 - Public Private Partnership
 - Public Private People's Partnership
- **Options**
 - Contract
 - Cooperative
- Private sector participation should be viewed as a possible opportunity for covering a portion of urban solid waste service needs.





Way Ahead for Solid Waste Management

- Proper **planning** and Policy Development along with rigorous **implementation** and **monitoring** criteria
- By training and employing waste pickers to conduct door to door collection of waste and allowing them to **sell the recyclables** they collect.
- Front end waste separation facility
- Careful selection and operation of solid **waste collection vehicles** and equipment
- **Integration of informal sector**
- Community **awareness** generation and integration with SWM System



Way Ahead for Solid Waste Management

- Understanding the **dynamics of the sector**
- Changing our perception of **Informal Sector**
- **Awareness generation** among various stakeholders
- **Authorization** of informal sector as a **Micro-Entrepreneurs**
- Facilitating their **registration** with **statutory compliances**



Conclusion

- The practices of waste management are **different** in **developed & developing** countries
- All Emerging economies are undergoing **Rapid Urban development** which leads to **Drastic increase** in waste generation.
- Organizing the INFORMAL sector in emerging economies is the key.
- Solutions have to be designed according to each site and local conditions.
- There is a need for government to design a reasonable and **strong regulatory framework** for emissions monitoring and policy for integrating informal recycling sector.
- A holistic change can be brought only by periodic review of the performance of waste management system in meeting its goals which need to be practical, achievable and measurable.



Thank You..!!!

For further contact:

Vivek.agrawal@cdcindia.org

Phone: 0141-2502299

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