Private Participation in Infrastructure Municipal Solid Waste (MSW)

MSW projects being recorded

MSW projects being recorded in the PPI database are the infrastructure projects related to the collection, transfer, treatment and disposal of municipal solid waste as a public service, with minimum 20% private participation and US\$ 1 million investment size.



Collection & Transport Facilities involved in either or both collection and transfer and transport of solid waste.



Treatment & Disposal

Facilities for sorting and recycling, mechanical and biological treatment, incineration or generating waste to energy, as well as sanitary landfills.



Integrated Municipal Solid Waste

Facilities which combine collection and transport of solid waste as well as treatment and disposal.

In The Numbers



US\$35.2 BILLION



Total investment commitments in MSW Sector with private participation in emerging market and developing economies (EMDEs), 2009 - 2018.

Accounts for 2 percent of global investment in PPI.



MSW projects with private participation worldwide from 2009 to 2018.



invested into the largest MSW project in Brazil called Sao Bernardo do Campo Integrated MSW.

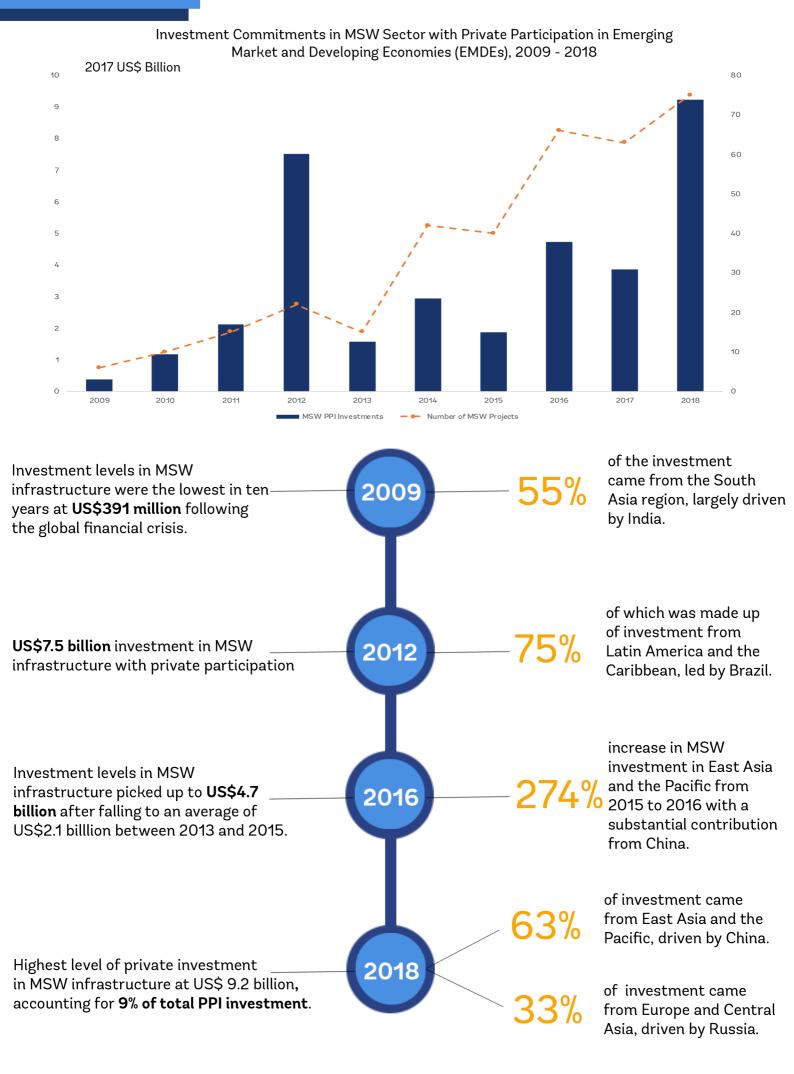


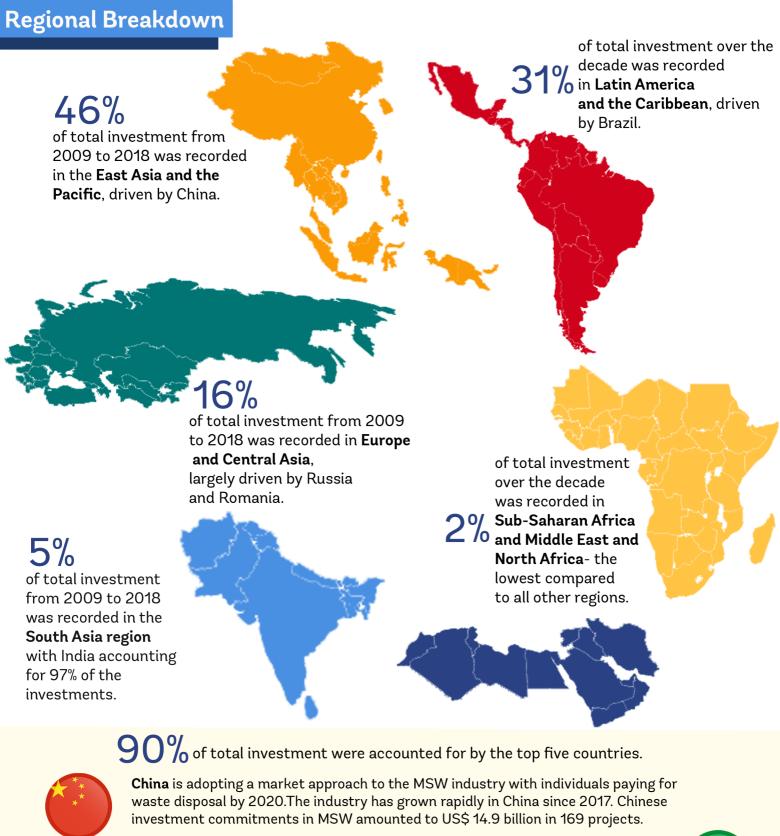
tonnes of throughput of MSW processed with private sector participation over ten years.



7 25.7

years in the average contract period across 197 projects based on available information.





In 2010, **Brazil** established a national policy requiring the development of integrated solid waste management municipal plans for all municipalities. Brazil invested US\$ 10.8 billion into the MSW sector with only 24 projects.



In response to local pressure, **Russia** overhauled its approach to waste management and has adopted a policy of processing 80% of its waste by 2030. Russia had US\$ 3.1 billion worth of investment in MSW with 7 projects.

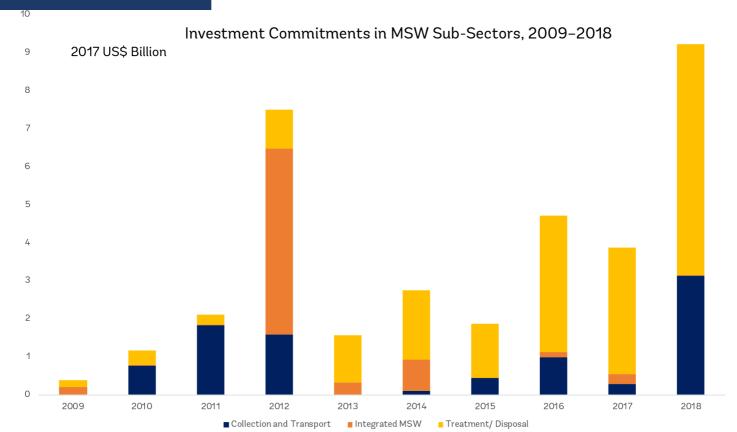
India's Swach Bharat campaign has increased investment into MSW infrastructure. Municipal level policies have also aided in increasing investment levels in the country. India reported US\$ 1.6 billion of investment commitments to MSW with 41 projects.





Romania has increased investment into MSW projects as it improves compliance with EU standards and meets the required conditions set out. Romanian investment commitments in MSW amounted to US\$ 1.2 billion in 42 projects.

Subsector Overview





Collection & Transport*



Treatment & Disposal*



Integrated MSW*

*the figures represent the share of total investment commitments in MSW.

Collection & Transport



US\$5.6

billion worth of investment commitments to collection and transport in Latin America and the Caribbean, the highest among all regions. 64%

of all investment commitments in Europe and Central Asia were to collection and transport services.

100%

nearly all investment commitments in EastAsia and the Pacific were in treatment and disposal services.

Treatment & Disposal



"includes projects that combine multiple forms of waste treatment.

98%

of investment commitments in Sub-Saharan Africa and 93% in Middle East and North Africa were in treatment and

disposal services.

47%

of investment commitments in Latin America and the Caribbean were in integrated MSW.

70%

South Asia region showed a clear preference for integrated MSW, accounting for 70% of regional investment commitments.

Integrated Municipal Solid Waste



Contract Analysis



53% of MSW investments globally were in greenfield projects.

87%
of MSW investments in
East Asia and the Pacific
were in greenfield projects.

99%
of MSW investments in
the South Asia region
were in greenfield projects.

PPI Project Type



6%
MSW investments globally were in brownfield projects.

46% of MSW investments in Middle East & North Africa were in brownfield projects.



of MSW investments globally were management and lease contracts.

97%
of MSW investments in Latin
America and the Caribbean
were management
and lease contracts.

64%
of MSW investments in
Europe and Central
Asia were management
and lease contracts.

Government Contracting Authority



91%

of investment commitments in MSW were made at the local and municipal level.*

2%

only 2% of investment commitments in MSW projects were made at the **national level.***

* Figures based on information available on 86% of MSW projects in the PPI database.

Main Revenue Source



99%

of investment commitments in MSW have revenue supported by the **government** through fixed availability payments or purchase agreements with the government.*

1%

only 1% of investment commitments in MSW projects have revenue from **users** or sales to wholesale market.*

Figures based on information available on 90% of MSW projects in the PPI database.

This analysis was prepared by a team comprising Deblina Saha (Task Team Leader), Seong Ho Hong and Apala Bhattacharya. The team is very grateful for the support and guidance received from Fatouma Toure Ibrahima (Manager, Global Infrastructure Programs and Analytics). The team is thankful to Darwin Marcelo (Senior Infrastructure Economist, IPG Group), Fernanda Ruiz-Nuñez (Senior Economist, IPG Group), Bernard Atlan (Principal Investment Officer, PPP Transactions Advisory Services, IFC) and Frank Van Woerden (Lead Environmental Engineer, Sustainable Development Global Practice) for providing valuable comments which helped shape the analysis.

The PPI Database represents the best efforts of the team to compile publicly available information, and should not be seen as a fully comprehensive resource. Some projects—particularly those involving local and small-scale operators—tend to be omitted because they are usually not reported by major news sources, databases, government websites, and other sources used by the PPI database staff. This is particularly true in the case of MSW projects, many of which may be sub US\$ 1 million in size and hence, will not be captured in the data.