# The Next Challenge for Cities: Integrating Multiple Sanitary Solutions

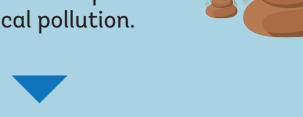
### **CITIES ARE GROWING FAST!**

More than half of the world's people live in cities



...what does it mean for sanitation? More people and

increased density means higher risk of exposure to fecal pollution.



Consider this...



1/3rd of the developing world's urban population is living in slums

people are predicted

to live in cities by 2050



700 million urban dwellers don't have accessto sanitation



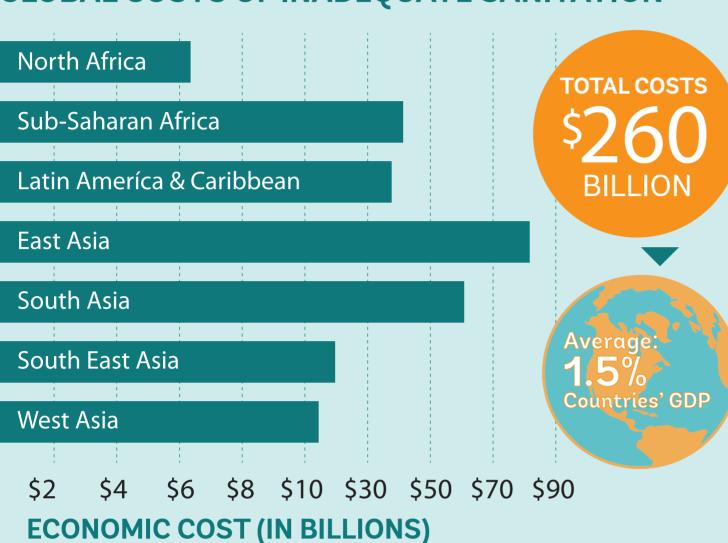
In the last 25 years, sanitation coverage increased by only 3%

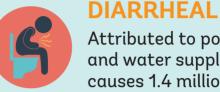


because cities need a reliable system to dispose of human feces in a safe way..

### What are the consequences of a lack of sanitation?

#### **GLOBAL COSTS OF INADEQUATE SANITATION**





#### Attributed to poor sanitation and water supply, diarrhea causes 1.4 million preventable child deaths per year.



**STUNTING** 

India has some of the world's worst stunting as a result of more than half of the population not using a toilet or latrine.



#### LOWER SCHOOL & **WORK PRODUCTIVITY**

Inadequate sanitation has been calculated to have a negative economic impact of 3% of GDP or more.

## Is it possible to provide sanitation for all in cities?

### YES!

But first, let's make it clear: **SEWERS ARE NOT THE ONLY SOLUTION FOR PROVIDING ADEQUATE SANITATION** 

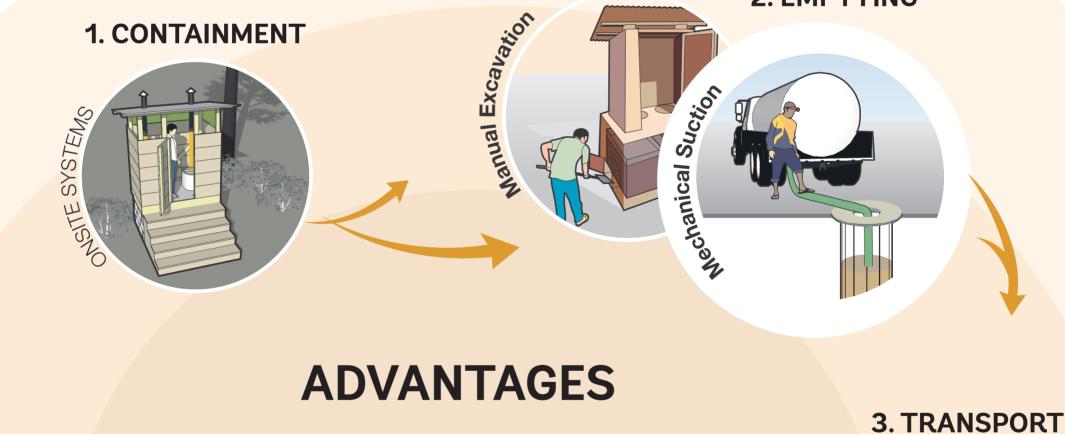




Urban sewers are expensive and require large amounts of water

An adequate alternative for cities

### Fecal Sludge Management (FSM) How does it work?



### · Effective in unplanned areas

- · Improves management of existing onsite facilities
- · Cheaper than sewerage · Can be established quickly
- · Complements city sewerage

· Creates local employment



2. EMPTYING







## According to the

**CHALLENGES** 

World Bank, to promote adequate FSM services in cities, Governments should...

- in city development plans.
- Include onsite sanitation and FSM alongside sewerage
- · Construct and sustainably manage appropriate fecal sludge treatment facilities. • Upgrade onsite facilities to better contain excreta and
- be more easily emptied.
- Provide subsidies to poor users, as appropriate, to promote access to onsite facilities and to encourage the use of hygienic emptiers.
- · Give existing manual emptiers an opportunity to provide more hygienic services.