Leaving no one behind, ensuring the right to sanitation

Dr Lovleen Bhullar
Research Fellow, Edinburgh Law School
lovleen.bhullar@ed.ac.uk
19 November 2019

Right to Sanitation

- Entitles everyone to
 - Physical and affordable access to sanitation, in all spheres of life
 - Safe, hygienic, secure, and socially and culturally acceptable
 - Provides privacy
 - Ensures dignity

Technologies

- Toilet
 - Individual households, public/community, institutional (educational institutions, hospitals, offices)
- On-site sanitation system (OSS)
 - Septic tank, soakage pit
- Off-site sanitation system (OffSS)
 - Sewerage network, sewage pumping station, sewage treatment plant, faecal sludge and septage treatment plant

Right-holders

- Users of toilets
 - Men, women, non-binary gender, children
 - With special needs (pregnant, elderly, young, disabled, convalescing)
- Sanitation workers
 - Desludging, collection and transportation of human waste from OSS
 - Cleaning of sewers
 - Workers at OffSS
- Human beings/ citizens/ residents

Rights, Sanitation and the Environment

- Environment
 - Narrow 'human' environment
 - Broad 'natural' environment
- Relationship between sanitation and the environment
 - Input: availability of land, water and energy influence enjoyment of the right to sanitation
 - Output: measures undertaken for realisation of the right to sanitation adversely affect land, water and air
- Right to environment and right of environment
 - Anthropogenic perspective: some elements of the natural environment receive consideration

 eg fish (aquaculture)
 - Ecological perspective: protection of the natural environment for its own sake (with attendant benefits for human beings)

From Open Defecation to Toilets

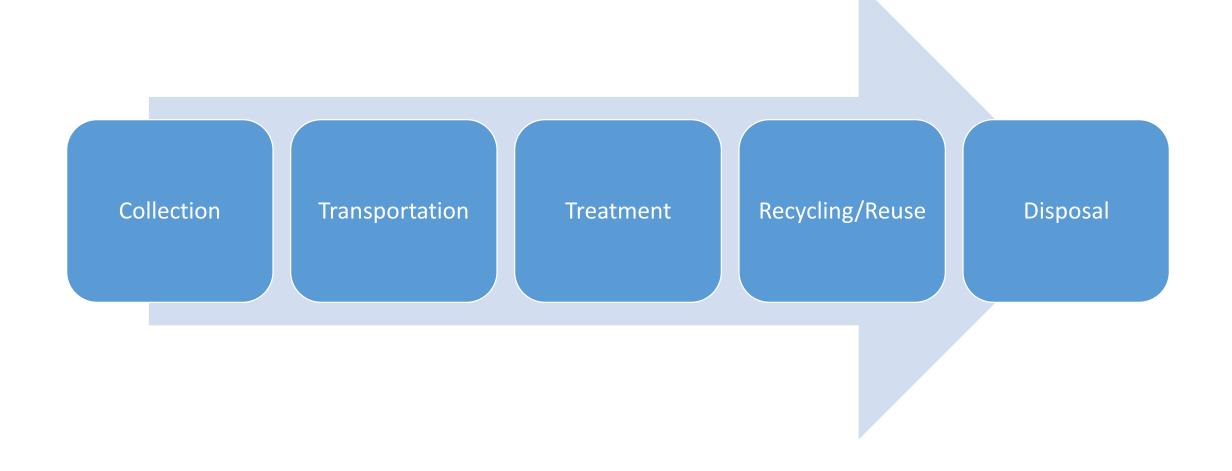
Open defecation

- Lack of proper sanitation facilities
- Raw human waste leaches into underground water resources, runs-off into surface water bodies, contaminates agricultural produce
- Environmental protection as an end in itself; not just an argument to exclude the poor from the urban landscape
- Who is the real polluter?

Toilet

- Design hilly or coastal areas, high water table
- Location distance from source of drinking water supply
- Water supply for flushing/cleaning

'Human Waste' Management



Collection & Transportation

- Collection
 - OSS septic tank/soakage pit
 - Local government, private operator, both
 - Design and location
 - OffSS sewerage network
 - Local government
 - Coverage
- Transportation
 - Septage transporter
 - Local government, private operator, both
 - Accidental spillage
 - Sewerage network
 - Local government
 - Leakage

Treatment

- Sewage treatment plant (co-treatment)
- Faecal sludge and septage treatment plant
- Input
 - Land location
 - NIMBY, proximity to forest, wildlife
 - Water
 - Energy
- Output
 - Environmental pollution
- Standard setting appropriateness
- Design of plant capacity to treat effluents
- Mixing of domestic and industrial effluents (before treatment)

Recycling/Reuse

- Waste as a resource
- Agriculture, floriculture, water for non-potable uses
- Water conservation, reduced energy consumption for water extraction (+)
- Standard setting absence, appropriateness
- Environmental (soil, water) pollution (-)

Disposal

- On land
 - Soil, groundwater
- Into drains that are supposed to carry grey water or rain water and discharge into water bodies
- Directly into rivers, lakes and the sea
- Standard setting appropriateness
- Assimilative capacity of waterbodies
 - Competing pressure water supply for different uses
- Mixing of domestic and industrial effluents (after treatment)

Human Waste Management

- Toilet cleaning agents
 - Chemical residue

- Sanitary napkins/diapers/toilet paper
 - Collection & disposal landfill, incineration

- Medicines
 - Individuals or hospitals
 - Antimicrobial resistance (AMR) in the environment

Action Points

- Recognise the inextricable link between sanitation and the environment
- Expansive regulatory landscape
 - Non-binding policy measures cannot replace binding regulations
 - Design and implementation of binding regulations, monitoring enforcement, punishing violators
- Overcome fragmentation, coordinate actions
- Acknowledge the scale of the challenge but do not postpone action
- Sustainable sanitation and environmental sustainability go hand-in-hand
 - Short term approaches, costly future
 - Change in thinking and behaviour