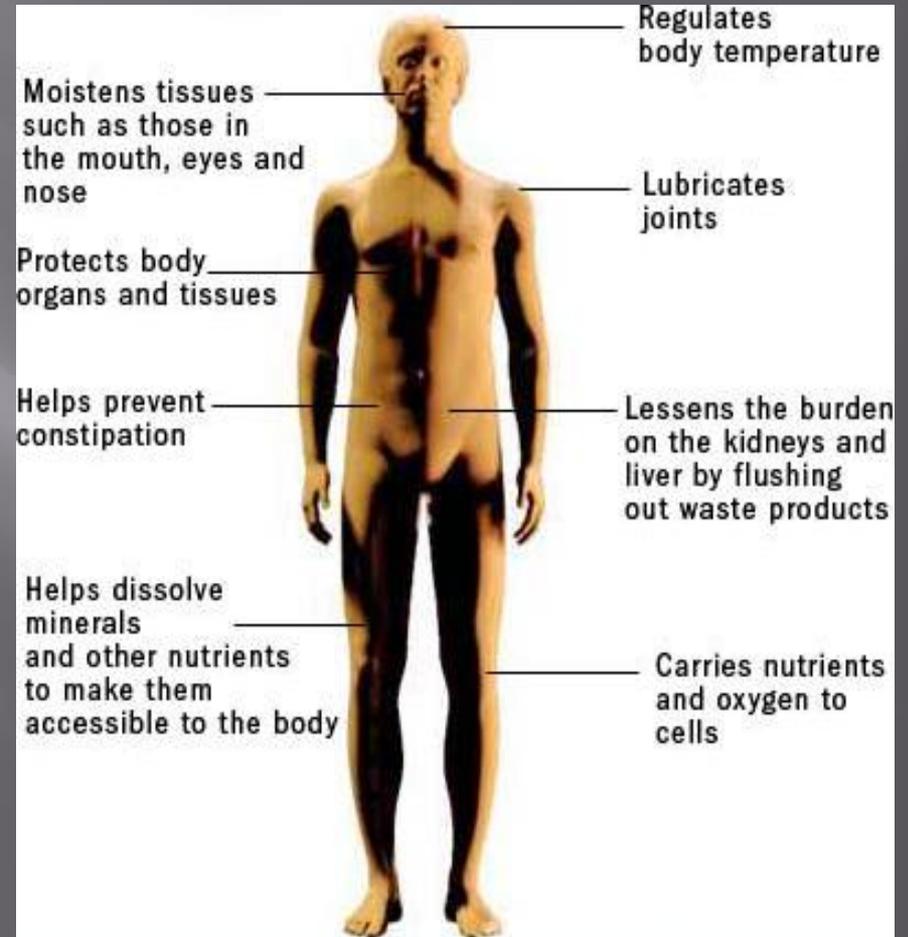


# AVERTING THE WATER CRISIS

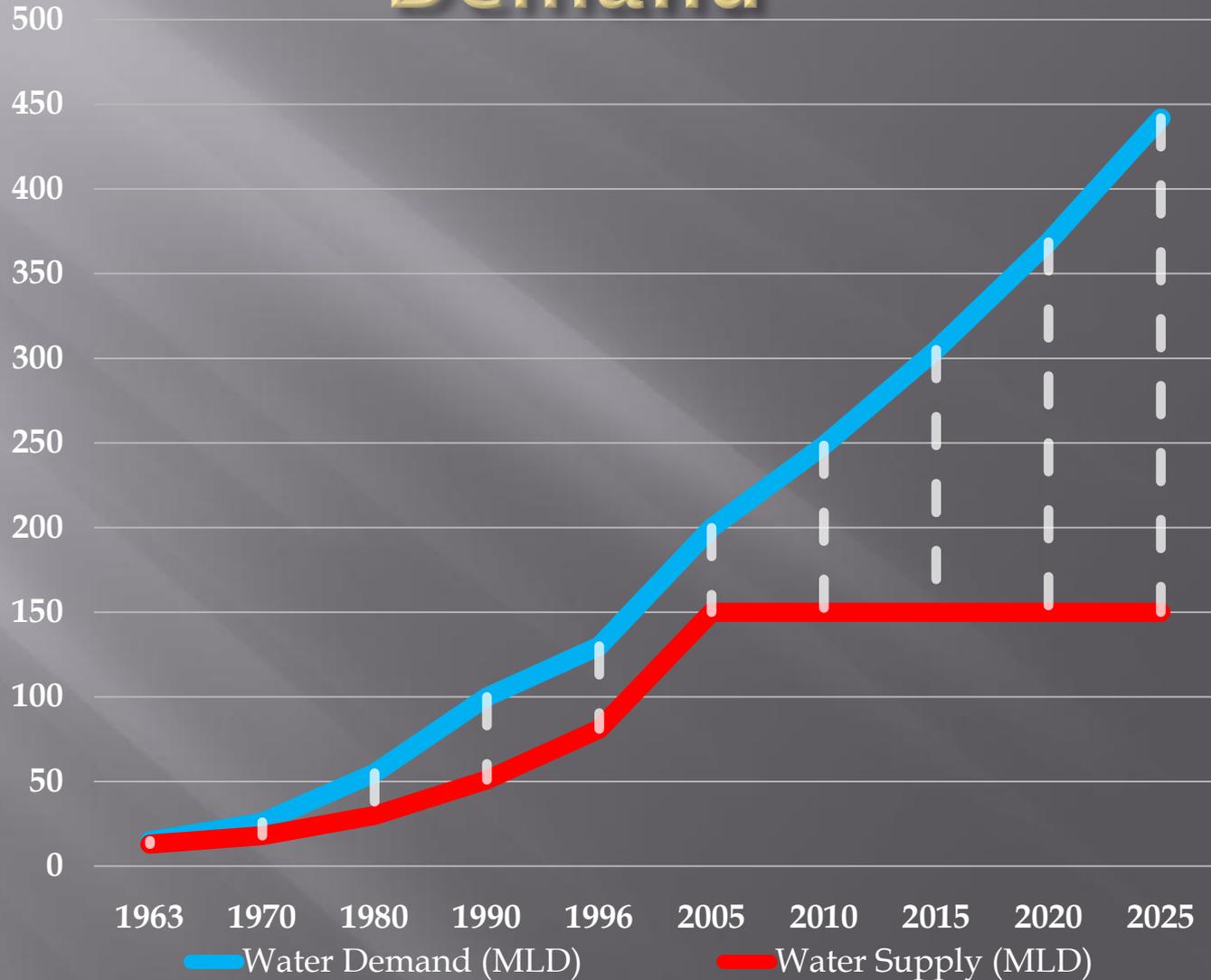


**WASTING WATER WASTES LIVES**

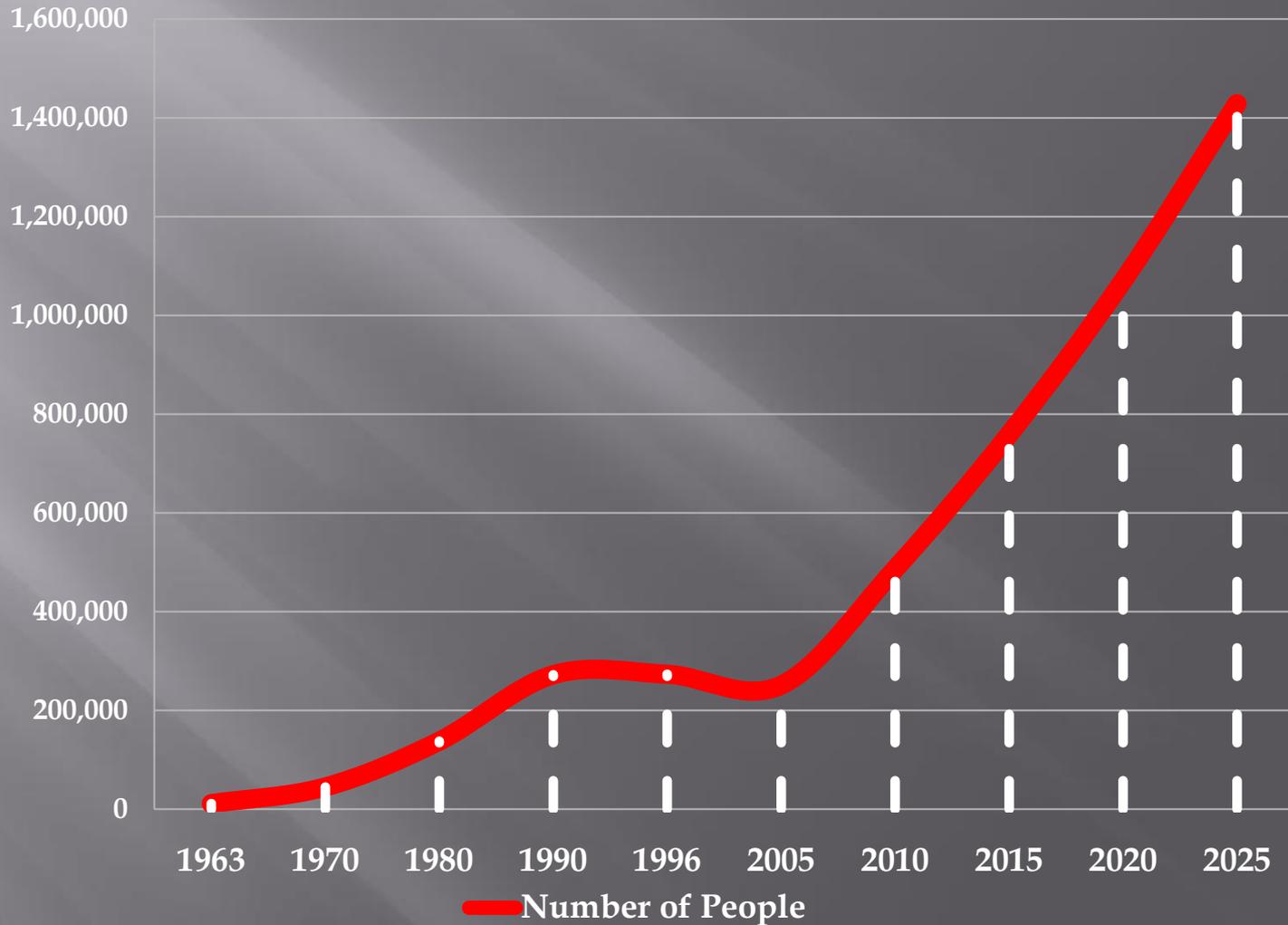
# The Crisis

- ▣ Rapidly increasing demand for water
  - Population was 12,295,278 in 2007
  - Expected to increase to 21,630,000 by 2025
  - Demand per capita is increasing
- ▣ Decreasing supply of clean water
  - Reduced surface water in Dhaka
  - Increasing pollutants making existing resources more unsafe.
  - Ground water is diminishing
  - Arsenic contamination of groundwater

# Dhaka Water – Supply and Demand

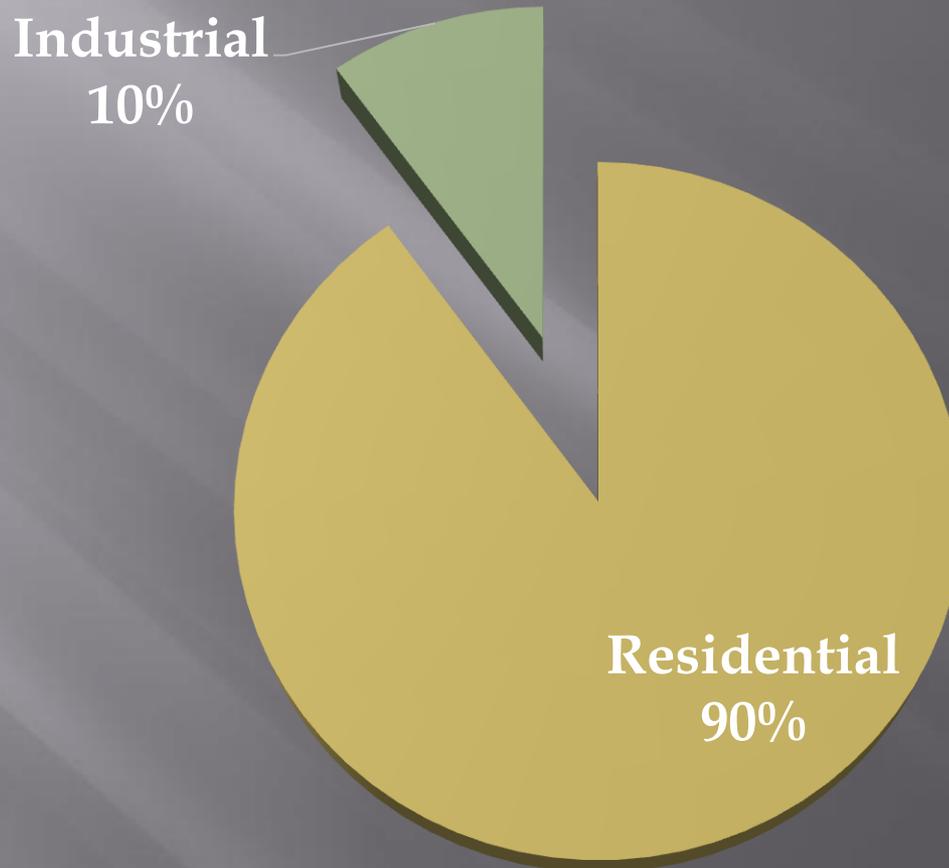


# People without Access to Clean Fresh-Water in Metro Dhaka



# Your Impact

## Proportion of Water Consumption in Metro Dhaka



**Individual households account for 90% of overall consumption**

# What Can You Do to Help?

1. Turn off taps when not using the water
2. Reuse household water
3. Stop leakages and repair breakdowns
4. Collect surface water on your property
5. Reduce latrine and toilet flushing
6. Report illegal water connections
7. Keep water ways and bodies clean
8. Use as little chemical fertilizer as possible

# 1. Turn Off Taps

-Turn off the tap / Faucet when:

-Brushing Teeth

-Lathering with Soap in Shower

-Shaving etc.

*- Turning off the tap can conserve an average of 30 litres / Day.*

*-Making this easy change will save a family of five 30 Taka / Month.*



## 2. Reuse Household Water

-Save your used water in a bucket for:

- Household cleaning
- Rinsing latrines
- Washing your hands
- Shaving
- Bathing

*- It is safe to reuse 4/5ths of all water (water that is not drunk)*

*-The average consumption in Dhaka is 150 litres / day*

*- A household of five can save up to 110 Taka / month by reusing their water.*



# 3. Repair Leakages

-Leaking pipes, taps, faucets, and shower heads are a large source of wasted water and cause:

- Bacterial disease
- Wasted money
- Property Damage
- Structural Damage

-An annoyance

*-Leaks waste about:*

*-faucet - 3 litres / Day*

*-Toilet - 80 litres / Day*



## 4. Collect Surface Water

- a) Store water during the Monsoon to prepare for drought in the dry season:
  - i. Dig ponds
  - ii. Funnel Rain Water into buckets

-This water can be used for:

- Cleaning
- Irrigating crops
- Bathing



# 5. Reduce Toilet and Latrine Flushing

-The average household uses 50 L / day for flushing

-Can maintain good sanitation standards while reducing the amount of water used:

1. Buy a low-flow toilet (save money and water with every flush)
2. Use re-used water to rinse latrines
3. Drop a full bottle of water in toilet tank - reduces water required for each flush
4. Ensure your toilet is working properly (i.e. no leaks)



# 6. Report illegal water connections

- There is no account for 35% of all Dhaka WASA water used
- Dhaka WASA calculates prices partially based on cost recovery.
- 65% of the population of water consumers pay for 100% of water usage.
  
- **The average water bill per household is 130 taka / month**
- **Based on cost recovery pricing if 100% of water usage was metered, the same bill would be 85 taka.**



# 7. Keep Waterways Clean

- Waterways are being used as landfill sites
- This is severely devastating the already depleted waterways
- Water cannot flow making it dangerous for consumption and other uses
- Do not dump garbage and other waste into the waterways close to your home
- Help with initiatives to clean the waterways.



# 7. Reduce Chemical Fertilizer Use

- The application of chemical fertilizers can cause severe respiratory diseases and various cancers
- These fertilizers run into the waterways and create pollution that can have grave health impacts.

- Use Organic Fertilizers
  - They are:
    - Better for the crops
    - Do not contaminate the waterways
    - Can be cheaper than the chemical alternative



# You Can Make a Difference



- ▣ Make these 8 easy changes in your consumption and treatment of water and avert the pending water crisis

# Sources

- ▣ Dhaka WASA
- ▣ *The Daily Green* Online Newspaper
- ▣ The Daily Star
- ▣ *The National Water Management Plan* by the Water Resources Planning Organization (WARPO)
- ▣ *Education for Sustainability* by IUBAT