

WATER

21ST CENTURY CHALLENGES

1 TOTAL VOLUME OF WATER AVAILABLE

THE TOTAL VOLUME OF WATER ON EARTH IS

1.424.192.640 Km³



97.5% salt water

2.5% fresh water

→ 70%* of the planet's fresh water is frozen in the icecaps of Antarctica and Greenland

→ 30% is mostly found underground

2 DEMOGRAPHIC BOOM AND URBANIZATION



1 second = 2 more people

Every second, the urban population grows by 2 people



7 billion people with 50% in urban areas



9 billion people with 70% in urban areas



3 CLIMATE FACTORS



4 billion

4 billion people may be facing water scarcity or flooding, that is: half of the global population



< 100 liters

993 million city inhabitants may be living with less than 100 liters of fresh water to satisfy their basic needs



2 billion m³

2 billion m³ of water a year: this would be the fresh water deficit to meet actual irrigation, industry and domestic needs



4 FRESH WATER USE BY SECTOR



IRRIGATION
70%



INDUSTRY
22%



DOMESTIC USE
8%



5 HUMAN WATER NEEDS

2-4 L

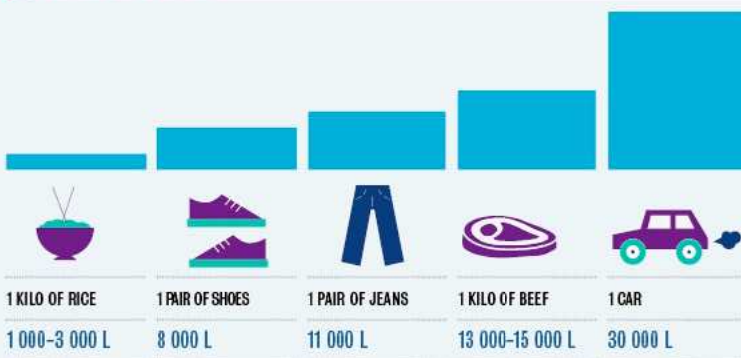
The daily drinking water requirement per person is 2-4 liters



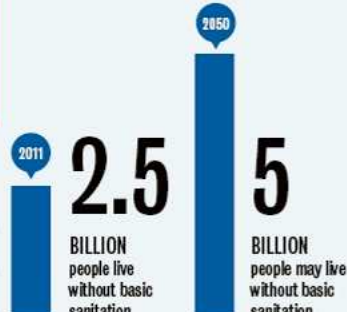
2 000+ L

It takes 2 000 to 5 000 liters of water to produce one person's daily food

6 WATER FOOTPRINT



7 WASTEWATER TREATMENT



8 ACCESS TO DRINKING WATER

783 000 000

people don't have access to safe fresh water...



9 HEALTH

3 600 000

people die each year from water-related diseases



10 CONSERVING WATER RESOURCES

