Access to safe water is a fundamental human need and therefore, a basic human right. Contaminated water jeopardizes both the physical and social health of all people. It is an affront to human dignity."

-United Nations Development Programme.



GOALS

In September 2000, at the UN millennium summit, world leaders committed themselves to a set of eight time-bound measurable Millennium Development Goals

Goal seven is about ensuring environmental sustainability its target is to halve by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation. This objective will require greater support from developed nations, new policies and new technologies in the developing world. Water was asserted as a Human Right by the United Nations in 2002 in their General Comment No.15. This clarified the obligation for governments to extend access to sufficient, affordable, accessible and safe water supplies and to safe sanitation services as their resources allow. While progress has been made on realizing the MDG goal of halving the number of people without access to safe drinking water and sanitation, population growth has caused the realization of the goals by 2015 to be virtually impossible. In fact at the current rate, the Sub-Saharan Africa is unlikely to meet the MDG sanitation target until 2076.

THE FACTS

The worlds population has tripled in the 20th century, while the use of renewable water resources has grown six-fold. In the UK the expansion of sanitation infrastructure in the 1880s contributed to a 15 year increase in life expectancy in the following four decades.

Global Population Circa 1900



2 billion people



Global Population Circa 2000





6 billion people

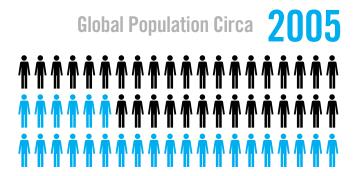


The United Nations estimates that in 2005, 1.1 billion people lacked access to safe, affordable, drinking water

Thats
20%
of the global population



The same year 2.5 billion people lacked access to clean sanitation



Thats 40% of the global population

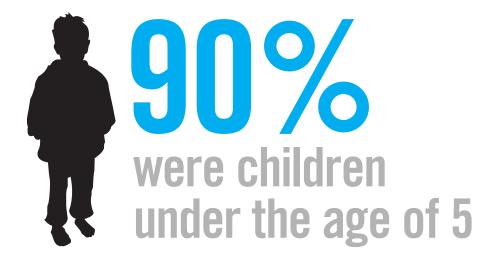
While the world's population tripled in the 20th century, the use of renewable water resources has grown six-fold. Within the next fifty years, the world population will increase by another 40 to 50 %. This population growth, coupled with industrialization and urbanization, will result in an increasing demand for water and will have serious consequences on the environment.



In 2004, 2.2 MILLION PEOPLE DIED due to unsafe drinking water



MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SATURDAY









97.5% OF THE EARTH'S WATER IS SALTWATER? IF THE WORLD'S WATER FITTED INTO A BUCKET, ONLY ONE TEASPOON WOULD BE DRINKABLE.
AT ANY ONE TIME, HALF OF THE DEVELOPING WORLD'S HOSPITAL BEDS ARE OCCUPIED BY PATIENTS SUFFERING FROM WATER-RELATED DISEASES?
WATER-RELATED DISEASES ARE THE SECOND BIGGEST KILLER OF CHILDREN WORLDWIDE, AFTER ACUTE RESPIRATORY INFECTIONS LIKE TUBERCULOSIS?
THE AVERAGE LIFE EXPECTANCY IN DEVELOPED COUNTRIES IS 30 YEARS GREATER THAN IN DEVELOPING COUNTRIES? HALF OF THIS DIFFERENCE IS CREDITED TO SANITATION AND WATER SYSTEMS.
IT'S ESTIMATED THAT A \$9 BILLION INVESTMENT WOULD ACHIEVE UNIVERSAL ACCESS TO CLEAN WATER AND SANITATION. EUROPE SPENDS MORE THAN \$11 BILLION PER YEAR ON ICE CREAM.
THE HUMAN BODY IS 50 TO 70 PER CENT WATER AND NEEDS A REGULAR SUPPLY OF CLEAN WATER TO MAINTAIN HEALTH?
AN ESTIMATED \$9 BILLION INVESTMENT WOULD ACHIEVE UNIVERSAL ACCESS TO CLEAN WATER AND SANITATION? EUROPE AND THE US SPEND MORE THAN \$12 BILLION PER YEAR ON PERFUME.
A CHILD DIES EVERY 15 SECONDS FROM A WATER-RELATED DISEASE?



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The earth is becoming more crowded



Within the next forty-five years, the world population is estimated to increase by 2.6 billion people and the bulk of this increase will occur in areas that are the least developed. This population growth, coupled with continued industrialization and urbanization of developing countries, will result in a heightened demand for water and an increase in polluted water, both of which will have serious adverse consequences on the environment. Sadly, the availability of clean water in many underdeveloped areas of the world is extremely scarce as once dependable rainfall patterns are failing to replenish the local water table. http://en.wikipedia.org/wiki/United_Nations" \o "United Nations" United Nations estimates that in 2005, 1.1 billion people (20% of the global population) lacked access to safe, affordable, drinking water, and 2.6 billion people (40% of the global population) lacked access to safe sanitation. About 80% of those lacking such access live in sub-Saharan Africa, Eastern Asia and Southern Asia. Without creative solutions to increase the availability to clean water, these impoverished communities around the world will continue to languish.

Water related disease



Water-related diseases are one of the most devastating consequences resulting from a pervasive lack of clean water, destroying not only lives but also local economies. In 2004 alone, 2.2 million people died due to unsafe drinking water, most of which were children under the age of 5. This amounts to around 6,000 deaths a day. In addition, it is estimated that 50% of all hospital beds in the developing world are currently occupied by patients with diarrheal illness as a result of exposure to contaminated water. If the world does not act to provide basic access to clean water, as many as 135 million additional people will die from these water-related diseases by 2020. On top of the massive death toll, local economies and household budgets are drained by the constant need to purchase expensive medicines in order to combat the effects of consuming polluted water. The solution to ending the cycle of poverty and disease in these impoverished communities is crystal clear: investment in the creation and strengthening of basic sanitation infrastructures to provide access to clean water. Improving sanitation infrastructure in these impoverished communities could reduce diarrhea-related deaths in young children by more than one-third and if hygiene promotion is added, such as simply teaching proper hand washing, deaths could be reduced by two thirds. Access to water must be a human right that all can enjoy and yet globally, it does not exist.

Women and children are socially disadvantaged.



The lack of available clean water has other detrimental social consequences as well. Without the basic availability of toilets and in order to maintain their social dignity, women are forced to defecate only in secluded areas at night, making them susceptible to violence. Furthermore, in the rural areas of many developing countries, women and children are not able to acquire an elementary education because they are required to provide water each day to their family or village. This can mean up to a 5-mile walk, one way, only to arrive at a river, pond or stream contaminated with bacteria. Furthermore, the containers used to transport water usually hold about 15 liters of water and weigh up to 15 kilograms. Such a physically difficult and time consuming responsibility means that these women and children are not able to go to school due to fatigue or simply because they are not afforded the time. In addition, many young women in these areas are marrying between the ages of 12 and 16 years. By keeping these women in school, they can become educated and potentially avoid marrying at such a young age. This ultimately benefits the local community as older, more educated women might opt for smaller, more economically manageable family sizes resulting in more moderate population growth and

less pressure on available resources. As surprising as it sounds, these positive changes all start with providing clean water to these families and their children so they can sustain safe and healthy lives and have the time and the strength to start and finish school.

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