

PARTNERSHIP: A TOOL FOR ENHANCING WATER QUALITY IN NIGERIA

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OUTLINE

INTRODUCTION

WATER AND ITS USES

STAKEHOLDERS/PARTNERS

CONCLUSION



WATER

- ✓ Water is the most essential ingredient of Earth's life support system that flows through every human endeavor
 - ✓ When a child is born every second, the demand for fresh water increases by the minute
 - ✓ UNMDG states that access to clean drinking water is a basic human right
 - ✓ Access to reliable water resources determines the health of all nation
- ✓ Water is the driving force behind global and local economies therefore, it crosses all borders
 - ✓ Without water, the wheel of industries will grind to a halt
 - ✓ Water is humble and yet powerful
 - ✓ Lack of water can turn a rich nation into a **thirsty** one



WATER QUALITY

Quick facts

- Over **80%** of wastewater generated in developing countries is discharged without treatment into surface water bodies.
- Globally, **2 million tons** of sewage, industrial and agricultural waste is discharged into the world's waterways.
- Currently **245,000 km²** of marine ecosystems are affected with impacts on fisheries, livelihoods and the food chain.
- Worldwide around **2.2 million** people die each year from diarrhoeal disease, mostly children under five in developing countries. 88% of that burden is attributable to unsafe water supply, sanitation and hygiene.
- An estimated **748 million** people do not use an improved source for drinking water.
- **2.5 billion** people lack access to improved sanitation (more than 35% of the world's population).

Source: UNEP and UN-Habitat (2010), WHO (2014)

OUTLINE

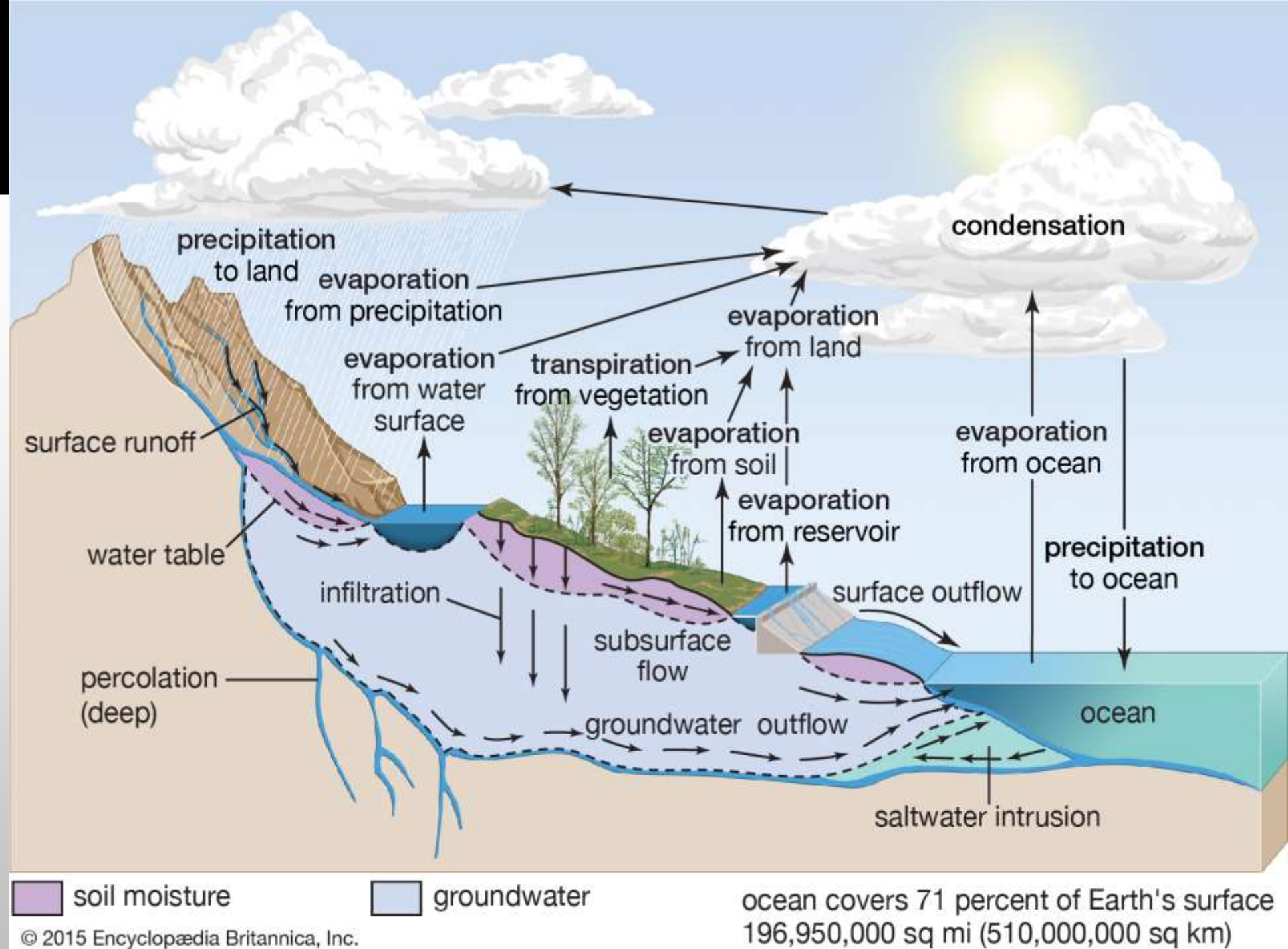
INTRODUCTION

WATER QUALITY , USES AND STANDARDS
STAKEHOLDERS/PARTNERSHIP
CONCLUSION



WATER

- ✓The self tale
- ✓Forensic
- ✓Personal limitation
- ✓Disappearing rivers



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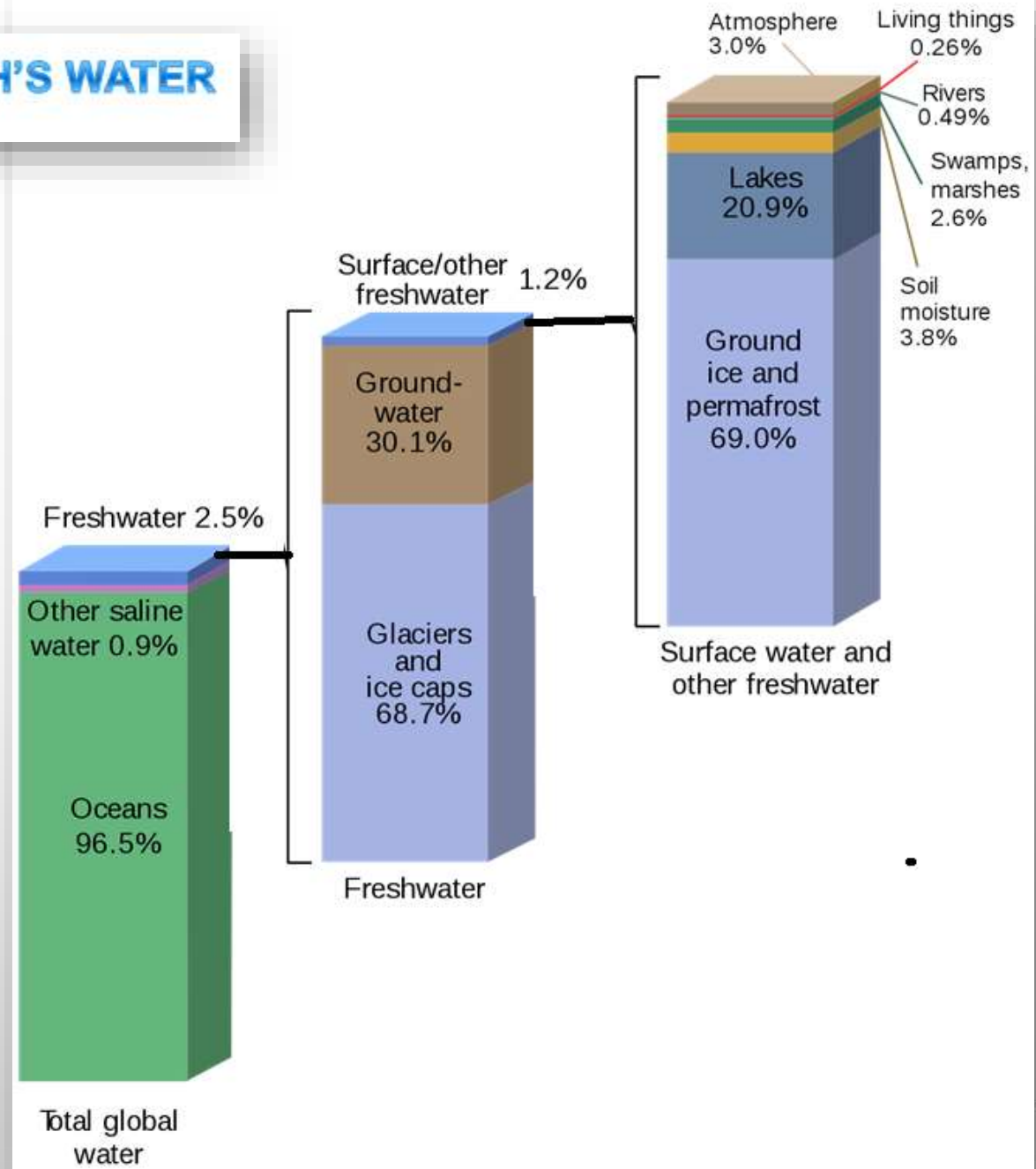
WATER QUALITY , USES AND STANDARDS
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- ✓ 70% of Earth is covered with water
- ✓ 97% is salt water,
- ✓ 3% Fresh as glacier, Snow, lakes, river and deep aquifers
- ✓ 1% of fresh water is available for **all life** on Earth



WATER

THE EARTH'S WATER



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WATER QUALITY, USES AND STANDARDS

Daily life: basic nutrient of human body (**critical to human life**)
quality? *Controls to a large extent, health status*

Agriculture: Overall use of fresh water
quality ? *Salinity (inhibit water uptake, soil structure, affect yield) study*

Industry: Many use water for production (product treatment, processing, cooling, transport potential, heat exchangers etc)

Fisheries: Artificial hatching, water re-use is essential
quality ? *Appropriate quality require to avoid adverse effect on cultivation and consumers)*

Medicine: Treatment of certain illness (insomnia, balneotherapy, geothermal water, steam from mineral water)

Transportation: Sea transport (heavy facilities, cargo)

Recreation: Re-creation eg coastal areas, lakes resort. Catering

ALL THESE USES REQUIRE WATER OF CERTAIN QUALITY (STANDARD)

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WATER CONTAMINATION

- ✓ **AGRICULTURE:** (Fertilizer, Pesticides, Chemicals, Animal waste)
results: soil degradation, GW quality and quantity
- ✓ **INDUSTRIES:** Effluents, municipal wastes
- ✓ **HOMES:** Sewage, illegal processing of mine product
- ✓ **WAR:** Fissile materials of warfare
- ✓ **MEDICAL GEOLOGY:** Untreated used water (LLW, MLW)
- ✓ **OIL EXP AND EXPT:** Spill, pipeline leakage,
- ✓ **MINING:** Heavy metal contamination (Zamfara case)
- ✓ **ENERGY:** Nuclear accident (Chernobyl) whole city evacuated



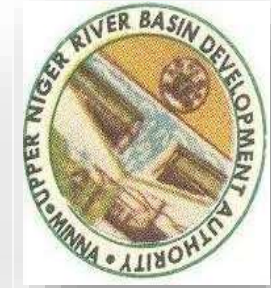
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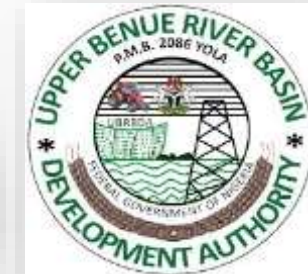
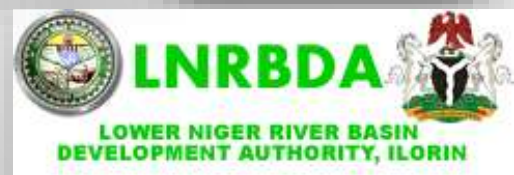


PARTNERS/STAKE HOLDERS



FEDERAL MINISTRY OF
HEALTH

CLANS



United Nations
Educational, Scientific and
Cultural Organization

MANY MORE



FEDERAL MINISTRY OF
ENVIRONMENT

Environment is your life, keep it safe



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**Partnership seeks to
accelerate improved
water quality by
collaborating to provide
outreach, education,
technical and financial
assistance**

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PARTNERSHIP.....

- ✓ Partnerships, stakeholder participation and administrative decentralization is critical in water sector reform
- ✓ Early and transparent consultation, inclusiveness and responsiveness are important characteristics of engaging partners
- ✓ As it is, policies and structures do not generally penetrate to the poorer and less powerful partners
- ✓ The present structure tend be dominated by existing powerful partners
- ✓ Though government may not be reluctant to devolve decision-making to partners
- ✓ As a result, there would be limited participation in water quality management at the lower level
- ✓ Some communities do participate in informal community-base water quality management

 NIGERIAN INDUSTRIAL STANDARD NIS-554-2015

Nigerian Standard for Drinking Water Quality

ICS 13.060.20

Price Group C
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Partnerships in water quality management

Despite the difficulties of engaging diverse partnership, it is an importance tool in water quality management

It plays an important role in national security, food security, growth and the health of a nation

It provide the avenue to develop common knowledge that is necessary for making decision that affect water quality

It is an avenue that ensures a shared experience and good practice transfer

It serves as an avenue that provide alternative approach to addressing water quality related issue

It will lead to a flexible and sustainable process for reaching common goals

It translates to sustainable water quality document and compliance



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Partnership is the strongest pillar in any water quality enhancement program

It help the water quality program maintain a dialogue with key interests

It give key interests regular access to decision makers on the water quality program.

The more the partners, the merry



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WATER IS LIFE
USE IT
DON'T ABUSE IT

THANK YOU
FOR YOUR ATTENTION