**THE THREE ERAS OF WATER**

Illustrated by Carlo Llacar & Evangeline Joo


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**BEGINNING OF CIVILIZATION**
**THE FIRST WATER ERA**
**RELYING ON NATURE’S WATER SOURCES**

- Humans water needs were "cleaned" by nature’s filtering process, i.e., THE HYDROLOGIC CYCLE
- Water-borne diseases like Cholera, responsible for most deaths
- Water-borne diseases like Vibrio cholerae, responsible for most deaths
- The total amount of water on the planet remains fixed—neither growing nor shrinking

**THE SECOND WATER ERA**
**MANIPULATING WATER SOURCES**

- Humans manipulate the water cycle
- New industries, economic growth, and new technology increase demand for water
- Over-development: new industries, economic growth, and new technology add to the demand for water worldwide

**THE THIRD WATER ERA**
**MASSIVE GLOBAL CRISIS**

- Lack of access to water: 1/3rd of the world’s population currently lack access to water
- 2.5 million deaths occur each year with no water
- Earth’s climate is changing: temperatures are rising, and the need for water will too

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**THE CODE OF HAMMURABI**

The first law that dealt with water issues

- The total amount of water on the planet remains fixed—neither growing nor shrinking

THE HYDROLOGIC CYCLE

A collection of wastewater
- Nature "filters" human wastewater

- Major problem: consumption of food
- 40% of all food production of all levels require water
- Nations are fighting for water resources, and not winning.

**THE First WATER ERA**

- Beginning of civilization
- The first water era

**THE SECOND WATER ERA**

- The second water era
- Start of 1800's
- The second water era

**THE THIRD WATER ERA**

- The third water era
- Mass global crisis

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**START OF 1800’s**
**THE SECOND WATER ERA**
**MANIPULATING WATER SOURCES**

- Humans have access to the water cycle
- New industries, economic growth, and new technology increase demand for water
- Over-development: new industries, economic growth, and new technology add to the demand for water worldwide

**WASTEWATER IS COLLECTED & ISOLATED**

- Canals help strain dirty water out of main tanks, thus less deaths occur in the big cities.

**HUMANS MANIPULATE THE WATER CYCLE**

- A higher standard of living is achieved through innovations in water technology such as dams, irrigation, and canals

**POPULATION WAS LIVING LONGER**

- With less water-related diseases affecting communities, less people were dying

**OVER-DEVELOPMENT**

- New industries, economic growth, and new technology add to the demand for water worldwide

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