

WATER ASSESSMENT

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water pollution

- Water pollution occurs when harmful substances—often chemicals or microorganisms—pollute a stream, river, lake, ocean, aquifer or other body of water, degrading water quality and making it toxic to humans or the environment. This widespread problem of water pollution puts our health at risk. .
- The spread of effluents or sewage materials in the water system such as rivers and lakes leads to a change in the quality of water.
- Water pollution is divided into several different sources, including nature, such as acidic and thermal effluents from volcanoes, which are present in specific places, and non-natural sources such as household sources, which are primarily sewage and washing waste, generated in homes, apartments and other housing, waste from factories, laboratories, hospitals, and also agricultural waste.

Water pollution

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- from harmful components, heavy metals or pollutants that are produced and discharged into the through channels. Water

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TYPES OF POLLUTION

**Agricultural
pollutants**

Wastewater

Industrial pollution

Agricultural pollutants

Insecticides are used in agriculture to combat weeds, insects and fungi. The runoff of these pesticides can cause water pollution and poisoning aquatic life and soil as well as air. After that, birds, humans and other animals may be poisoned if they eat infected fish, plants and animals.



Wastewater

Agricultural pollutants

Wastewater

Used water, including sewage from ponds, showers and toilets, as well as industrial and agricultural wastewater, contributes to water pollution. Rainwater runoff carrying road salts, oils, grease, chemicals and debris from impermeable surfaces, also adds to the problem. Shockingly, more than 80 percent of the world's wastewater flows back into the environment without treatment or reuse.



Agricultural pollutants

Wastewater

Industrial pollution

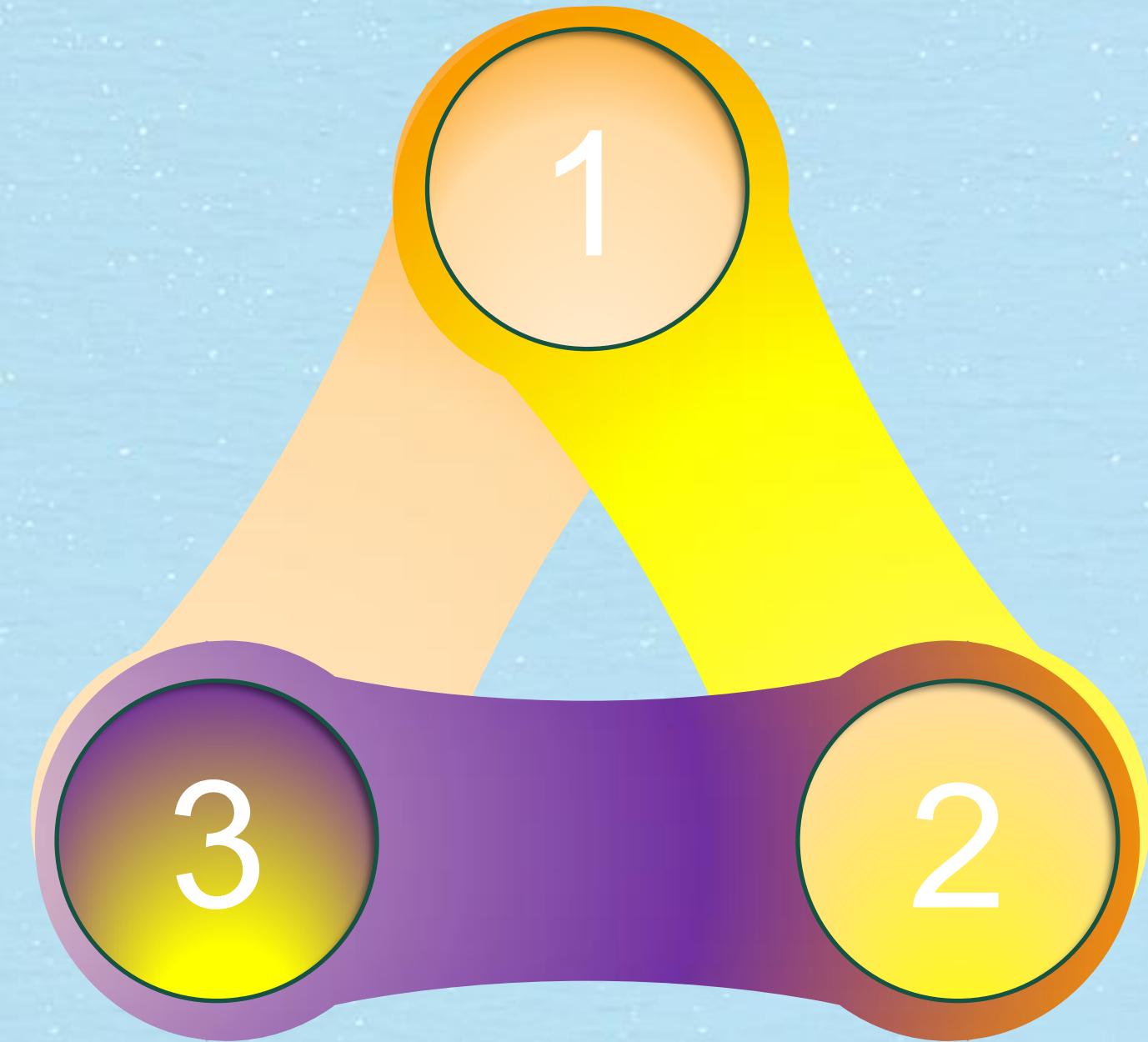
Factories and industrial processes release various pollutants into water bodies. These can include heavy metals, chemicals and toxic substances that harm aquatic ecosystems and human health.



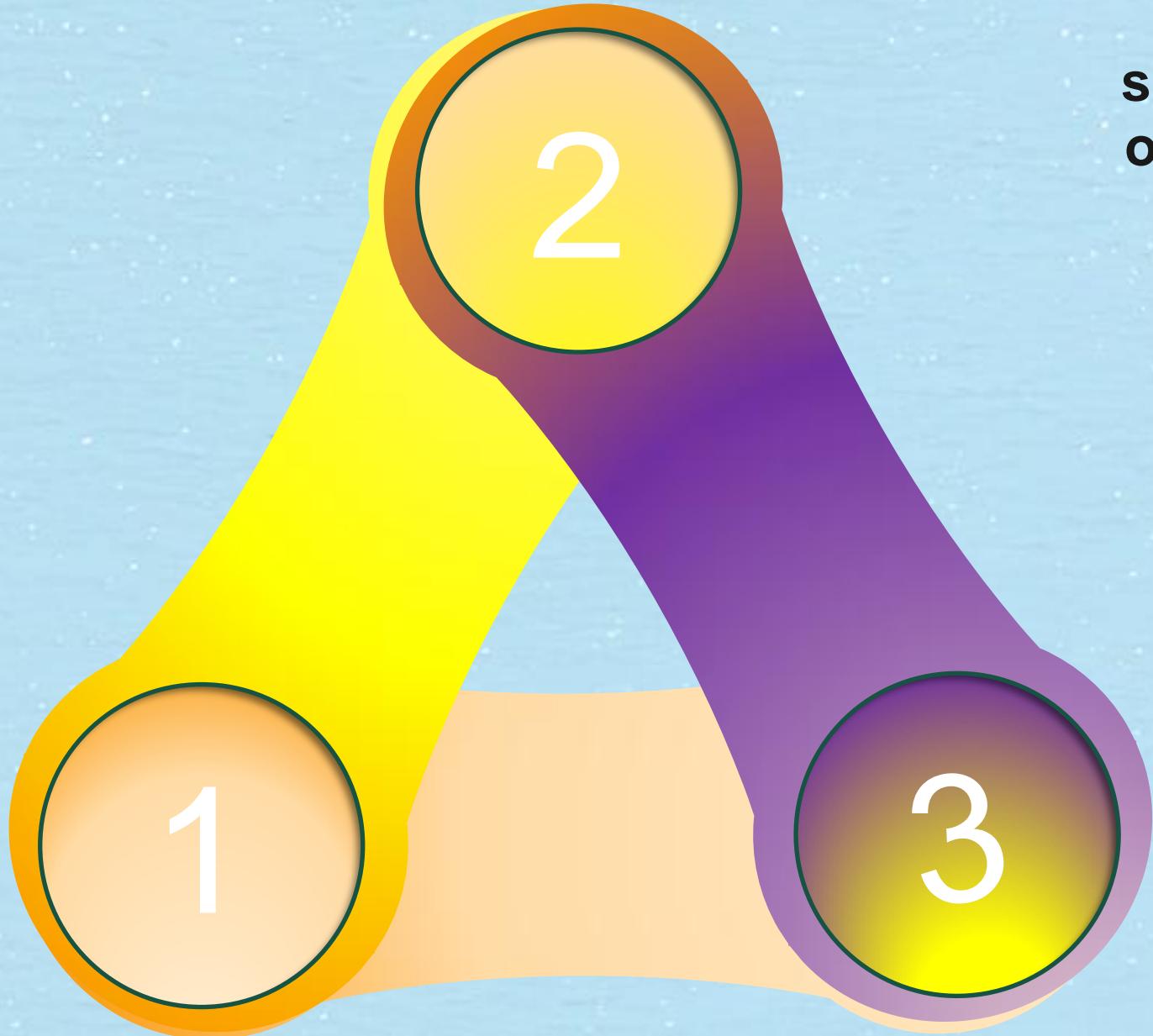
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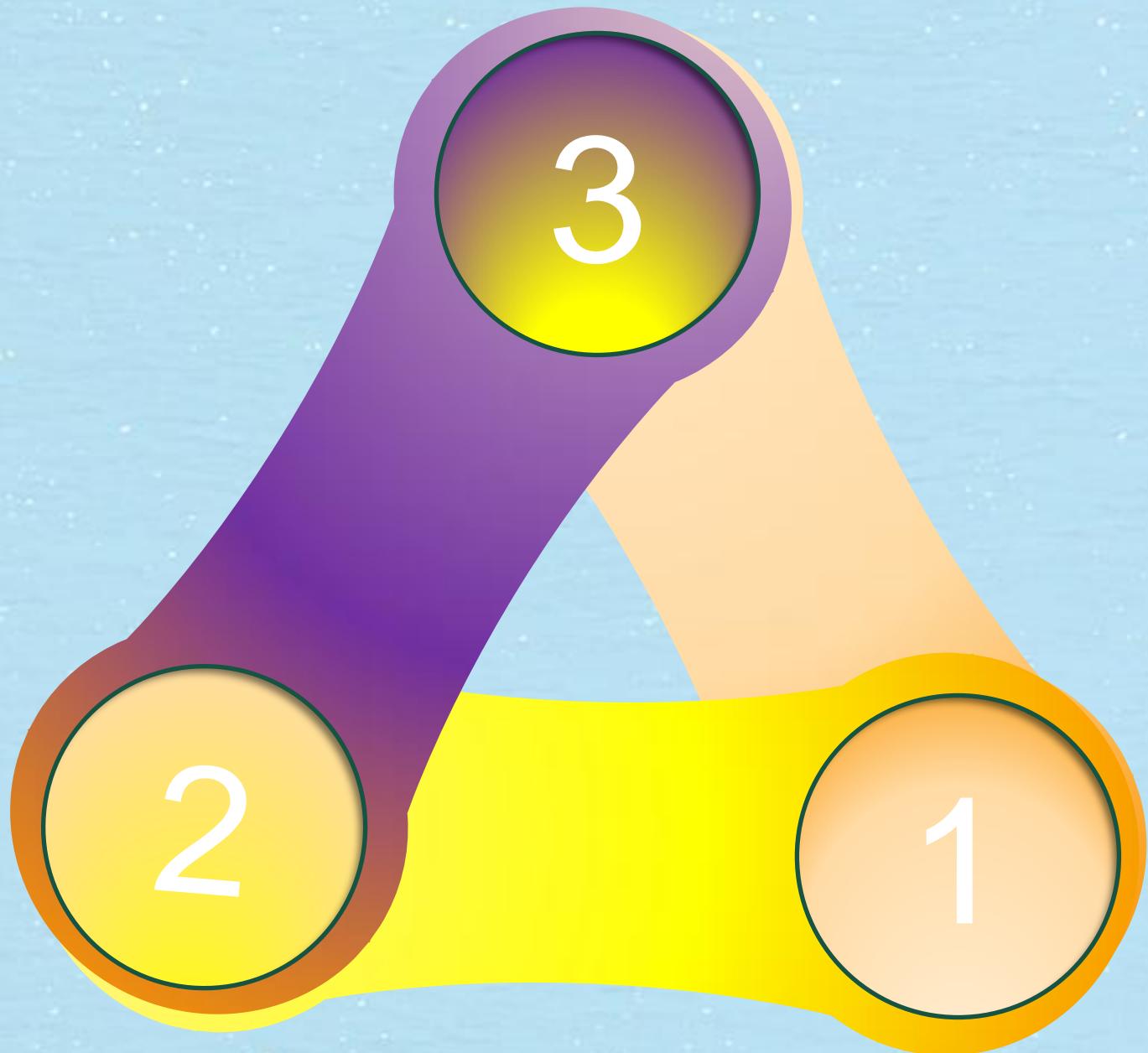


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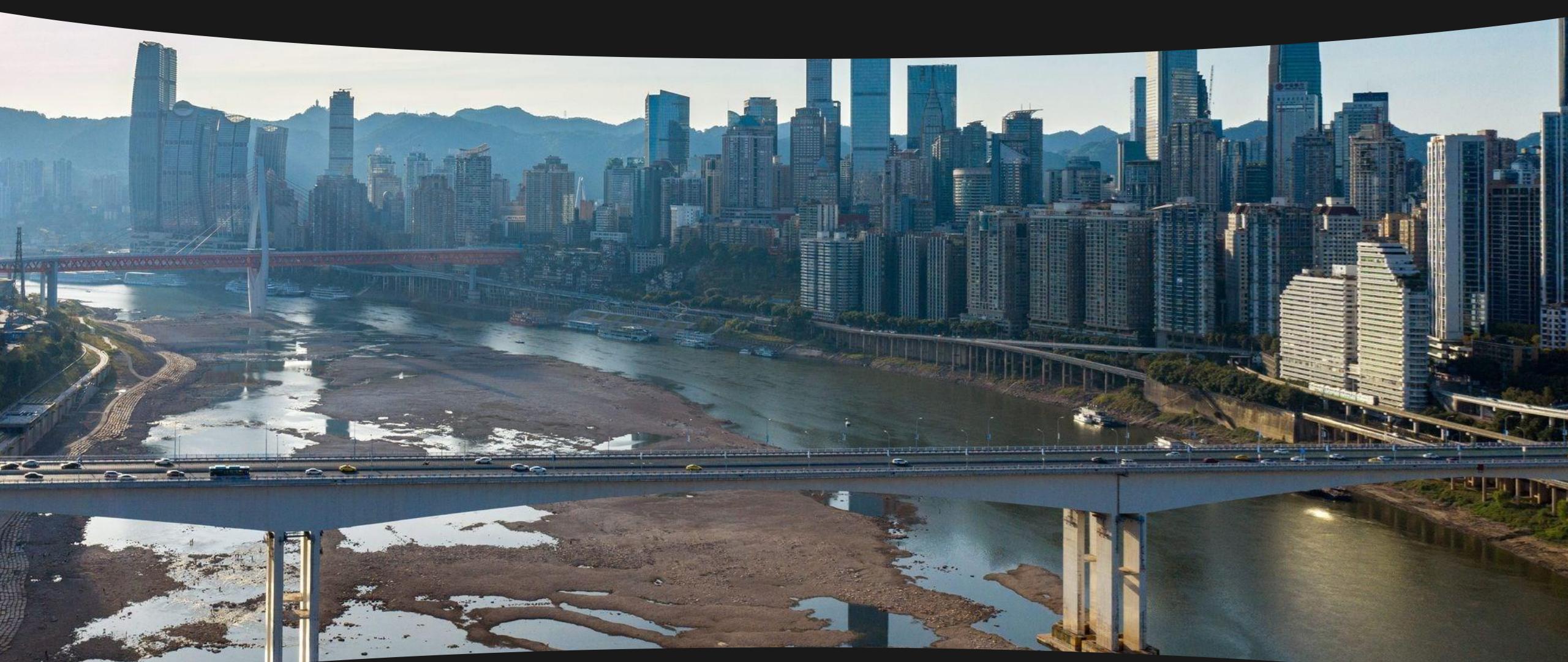
Heat pollution: Hot water discharge from industrial processes or power plants can raise water temperatures, affecting aquatic ecosystems and reducing oxygen levels.

Drought and climate change

- Drought is long periods of abnormally low rainfall, leading to water scarcity and environmental stress. It has significant impacts on ecosystems, agriculture and human communities.
- The climate changes that have occurred in the past years, represented by the scarcity of rainfall, rising temperatures and land drought, are mainly caused by the increase in greenhouse gas emissions, which are mainly produced from fossil fuels. .
- For example, clearing land and deforestation can emit carbon dioxide, and agriculture and oil and gas extraction are major sources of methane emissions.
- Energy, industry, transport, buildings, agriculture and land use are the main greenhouse gas emitters.



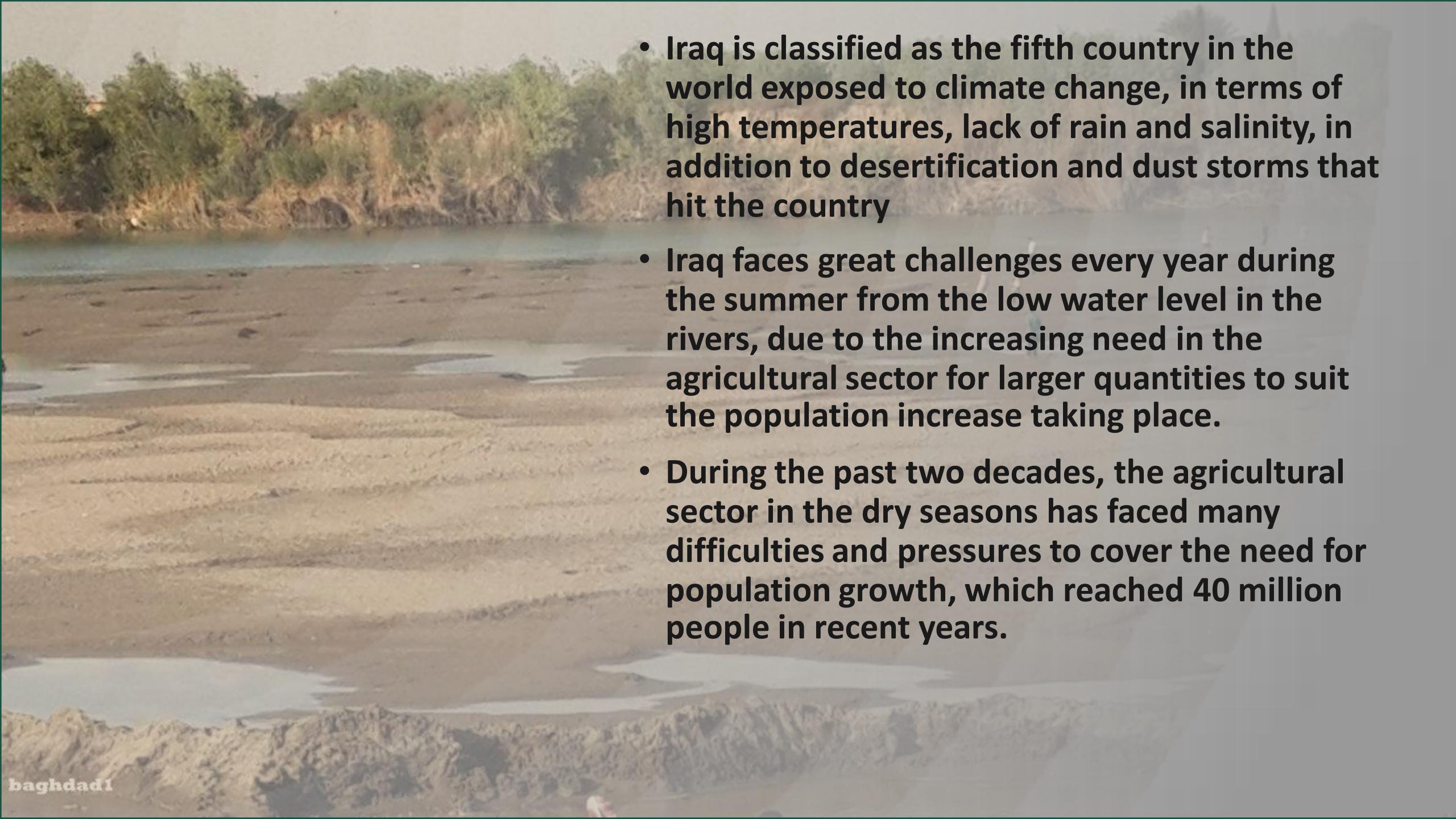
بحيرة بينويلاس في تشيلي



ظهر قاع نهر جيالينغ الذي يلتقي بنهر اليانغتسي في
تشونغتشينغ بالصين



شمال كينيا



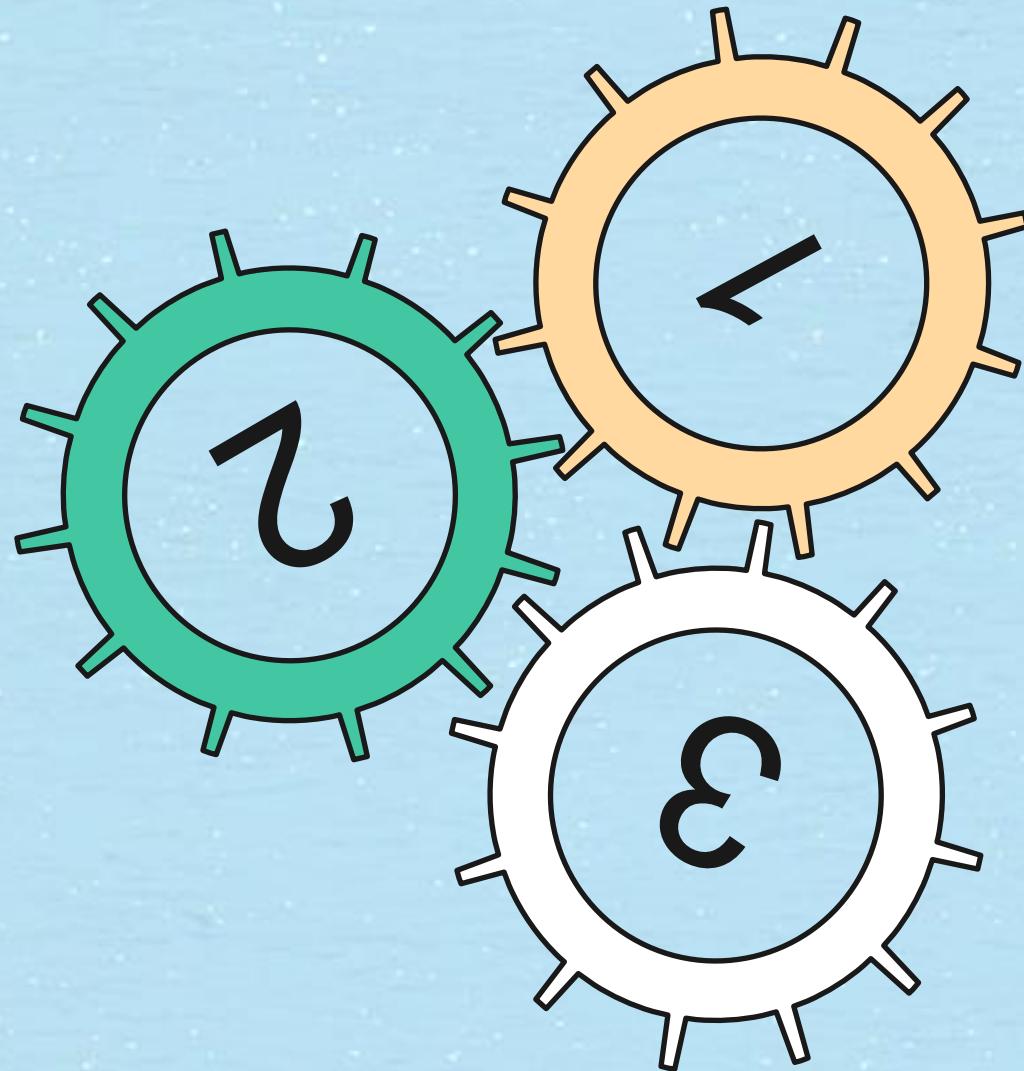
- Iraq is classified as the fifth country in the world exposed to climate change, in terms of high temperatures, lack of rain and salinity, in addition to desertification and dust storms that hit the country
- Iraq faces great challenges every year during the summer from the low water level in the rivers, due to the increasing need in the agricultural sector for larger quantities to suit the population increase taking place.
- During the past two decades, the agricultural sector in the dry seasons has faced many difficulties and pressures to cover the need for population growth, which reached 40 million people in recent years.

Completed Projects



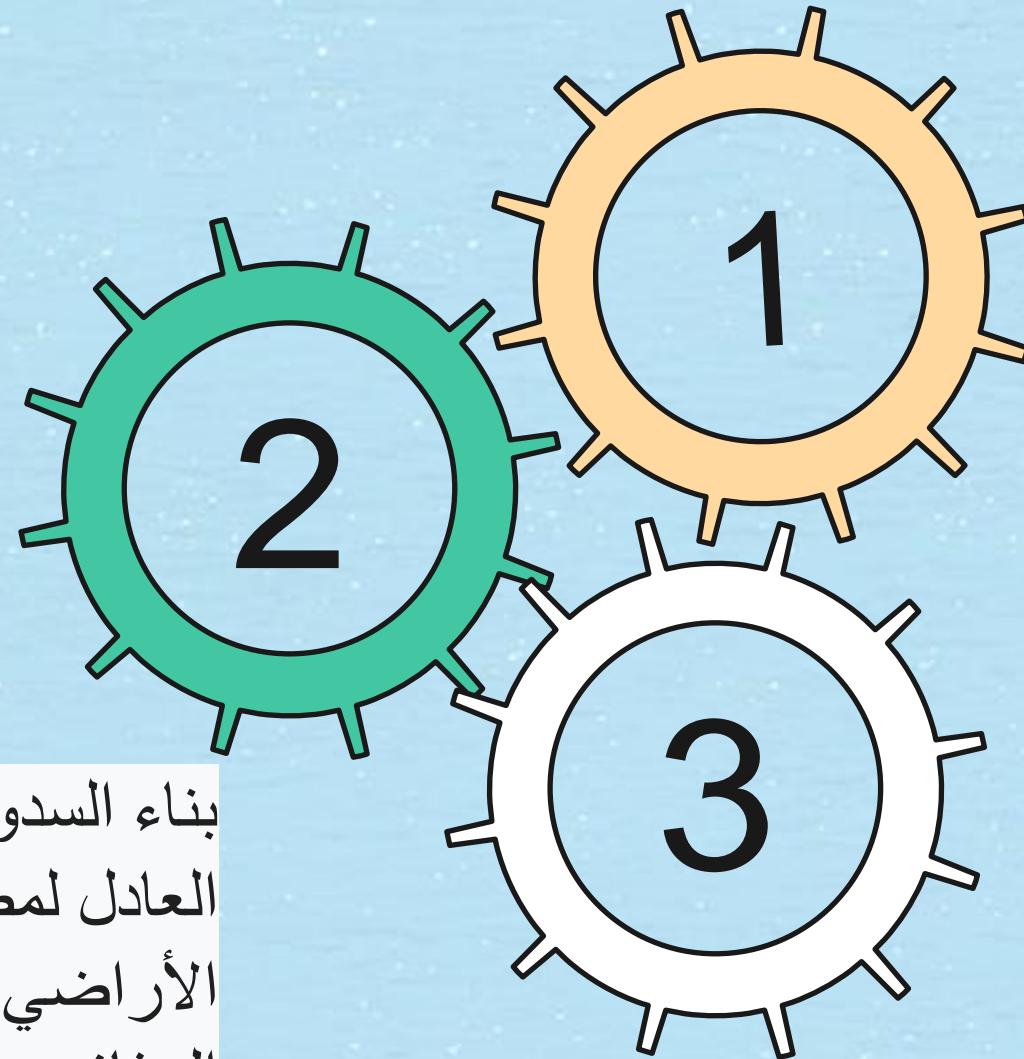






النوصيات

تطوير وتحسين الأراضي الزراعية
باستخدام طرق الري الحديثة



بناء السدود والخزانات والتوزيع العادل لمصادر المياه على الأراضي الزراعية للتقليل من أزمة الجفاف

تحسين وزيادة كمية المحاصيل بدلًا من زيادة الأراضي الزراعية لتوفير منتجات أفضل

Thank you
for listening

