Since there have been

water agreements

international

conflicts between states over water

against

Every year We withdraw

in industry cubic km of

freshwater

on domestic purposes

whopping n agriculture

To avoid or resolve water-related conflicts in indigenous communities, indigenous people should be involved in the management of water resources on their territories and their water rights, as well as their social and cultural values should be recognized.

In response to the indigenous people's mobilization and protests, a convention was signed between the ministry and the Mazahua movement, but only for rather short-term measures.

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The Waters of the Mazahi

One-third of the water cons in Mexico City metropolitan comes from Mazahua indige people territories thanks to 300 km-long system of dam canals, tunnels, treatment plants and pumps.

OVER-ABSTRACTION

The Nile Basin Initiative launched in 1999 "seeks to develop the river in a cooperative manner, share substantial socioeconomic benefits, and promote regional peace and security". But discord over the Nile treaties has continued.

However, only Egypt and Sudan are legally entitled to dam the river based on a series of treaties that have strained relations in the basin for over 50 years. Today, the shortages of water have prompted countries including Uganda, Sudan, Ethiopia and Kenya to question the treaties.



The Nile river basin is home to over 160 million people and includes ten countries that rely significantly on its waters, since most have no effective rainfall, but also for fishing and

Tensions over the Nile River

hydroelectricity generation.

The Convention on the Protection and Use of **Transboundary Watercourses** and International Lakes (Water Convention) is intended to strengthen national measures for

sound management of

and groundwaters.

the protection and ecologically

transboundary surface waters

found yet, countries have improved information sharing and scientific and technical cooperation, which is crucial to the sustainability of the river.

Despite tensions, no armed

water is a means for greater

conflict has arisen in the modern

era and countries understand that

cooperation. While a new agreement that satisfies all parties has not been

There are

60%

international river basins and transboundary aquifer systems in the world

> of these lack any type of cooperative management framework

POLLUTION The Water Convention

IREATIES

0

Major industrial accidents may cause far-reaching transboundary effects and may lead to accidental water pollution.

The Convention obliges parties to prevent, control and reduce transboundary impact, use transboundary waters in a reasonable and equitable way and ensure their sustainable management. Initially negotiated as a regional instrument in **UNECE** region, the Convention was amended in 2003 to allow accession by all the United Nations Member States.

Million

of sewage and industrial and agricultural waste is discharged into the world's waterways every year

www.wgtercoopergtion2013.org

Water: Cooperation or Competition?

The following factors often lie at the root of water tensions:

ests of the local n were not addressed ter transfer project, not satisfy their basic cess to water and food n), narrowed their ies for development, egative impacts on ronment.

ımed

area

By 2007, it had declined to 10% of its original size after the rivers that fed it were diverted by Soviet irrigation projects. Impacts include the pollution of surrounding land, lack of fresh water for the population, health problems, destruction of crops due to soil salinity, and the collapse of the fishing industry.

In 1992, the five countries of the basin - Kazakhstan, Uzbekistan, Turkmenistan, Tajikistan and Kyrgyzstan - formed the Interstate Commission for Water Coordination of Central Asia. In 1994, they pledged 1% of their budgets to recover the sea. In 2005, Kazakhstan completed a dam project to replenish the North Aral Sea. In 2008, the water level had risen by 24 m from its lowest level in 2007.

the supply, creating competition between the different water uses

NEGLECT OF TREATIES

OVER-ABSTRACTION

uses may put the water systems at risk

DIVERSION

surface sources is diverted from its

POLLUTION

from diffuse sources (e.g. agriculture, or following an accident

The Aral Sea disaster

In 1960 the Aral Sea was one the four largest lakes in the world with an area of 68,000 square km. Local fisheries represented annual catches of 40,000 tonnes and the area was surrounded with biologically rich marshes and wetlands.

■ The Aral Sea in 1960

■ The Aral Sea today

Today, salinity has dropped, and fish are again found in sufficient numbers for some fishing to be viable but vast parts of the Aral Sea have been lost forever.

to **45,000**

in 2013

The number of large dams worldwide has risen from

500 in 1950

Urban-rural tensions in Zhengzhou, China

39% of Zhengzhou's population live in the city and 61% in the surrounding rural area. Groundwater represents about 70% of the water supply, 50% of which is used for agriculture, 31% for industry and 17% for domestic uses.

Groundwater remains over-exploited despite attempts to conserve water, and the city competes with rural areas for water use. Rural communities feel at a disadvantage especially because they cannot generate comparable financial returns.

SCARCIT

Institutional frameworks are needed for ministries and agencies with differing mandates and goals to share information on the state of groundwater resources and the impacts of use.

Moderate water scarcity Low water scarcity

High water scarcity



Co-management would ensure that more surface water and treated wastewater is used for agriculture while urban users have priority over

of the world population will be living in areas of high water stress

ery Second
the urban population grows

with absolute water scarcity

