

Better Integration of Ecological Security in Basin Level Approaches : Citarum River Basin

Bali, Indonesia, 22nd May2024

DR. Imam Santoso President of NARBO and CEO of Indonesia Water Company Jasa Tirta II



10th World Water Forum: Political Process, at the segment of Basin Authorities Process

Global Water Quality Problems





WHERE IS CITARUM RIVER BASIN?





Profile Citarum River Basin



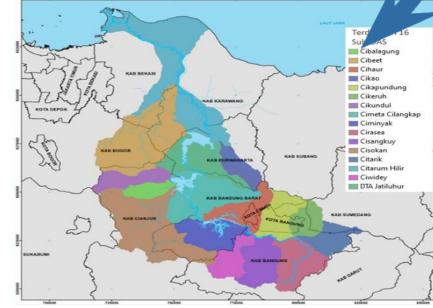
11.323 km² (32% of West Java total area)

±18 million of population

Length 297 km

More th

More than 4.500 Industries



INDONESIA

CITARUM RIVER BASIN IN WEST JAVA PROVINCE

Water Management

Water Supply 47 m³/sec

Drinking Water Municipals and Industries of 1,100 million m3/year for Capital City Jakarta & West Java

Food Security

Through irrigation water for an area of 420,000 Ha.

Energy Security 3.350 MW

Through the provision of ± 5 billion kWh/year raw water for hydropower in Dams of Saguling, Cirata and Ir. H. Juanda

Flood Control 26,500 Ha In North of West Java areas Through the water level control in 3 Dams Reservoirs (Saguling, Cirata & Ir. H. Djuanda)

COMPLEX PROBLEM ISSUES IN CITARUM RIVER BASIN

P

Citarum Water Quality is Heavily Polluted



Prediction **of waste** in Metropolitan **Bandung ±6000 tons / day**



Critical land area in Upstream Citarum watershed 77,000 Ha



North West Java, Bandung regency : **11.750 ha flood** almost every year

https://www.theguardian.com



Indonesia's Citarum: The World's Most Polluted

River

By World Bank, 2018

Rotten river: life on one of the world's most polluted waterways –

https://www.dw.com

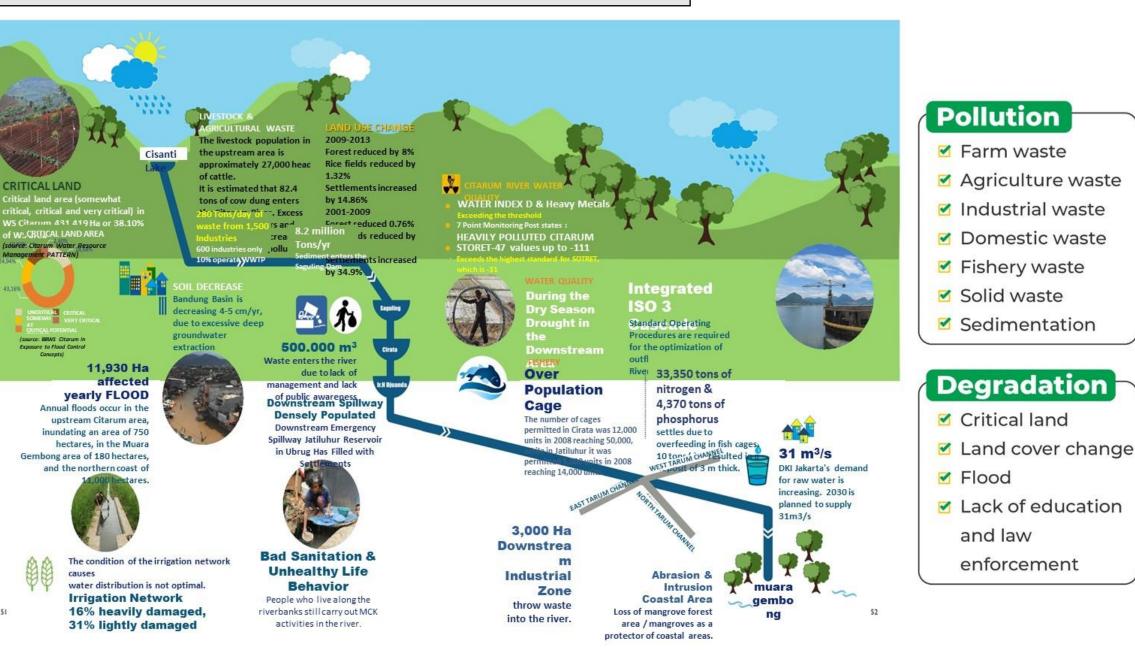
The Citarum river in West Java is considered the dirtiest river in the world. Textile factories discharge tons of untreated toxic waste into the river every day.

Indonesia's Citarum is relied upon by millions, but decades of pollution have choked it with chemicals and rubbish

https://www.idntimes.com/



COMPLEX PROBLEM OF CITARUM RIVER BASIN



NARBO

Perum Jasa Tirta II

Air Untuk Menghidupi Negeri

43.16%

LEADERS COMMITMENT



The Project has to finish within 7 years

Mid-January 2018 we will start from upstream to downstream repairs, revitalization in the Citarum River, because of the information and data that Citarum is very dirty.

Total revamping until completion in the form of land revilization and things related to tributaries, factory waste we see thoroughly. In order for Citarum to really benefit agriculture, raw water will be clean again enjoyed for life.



NARBO



Jokowi Sebut Pembenahan Sungai Citarum Dimulai Awal 2018

Perum Jasa Tirta II Air Untuk Menghidupi Negeri

Oleh: Muhammad Fikry Mauludy: 28 Desember, 2017 - 16:23

BANDUNG RAY

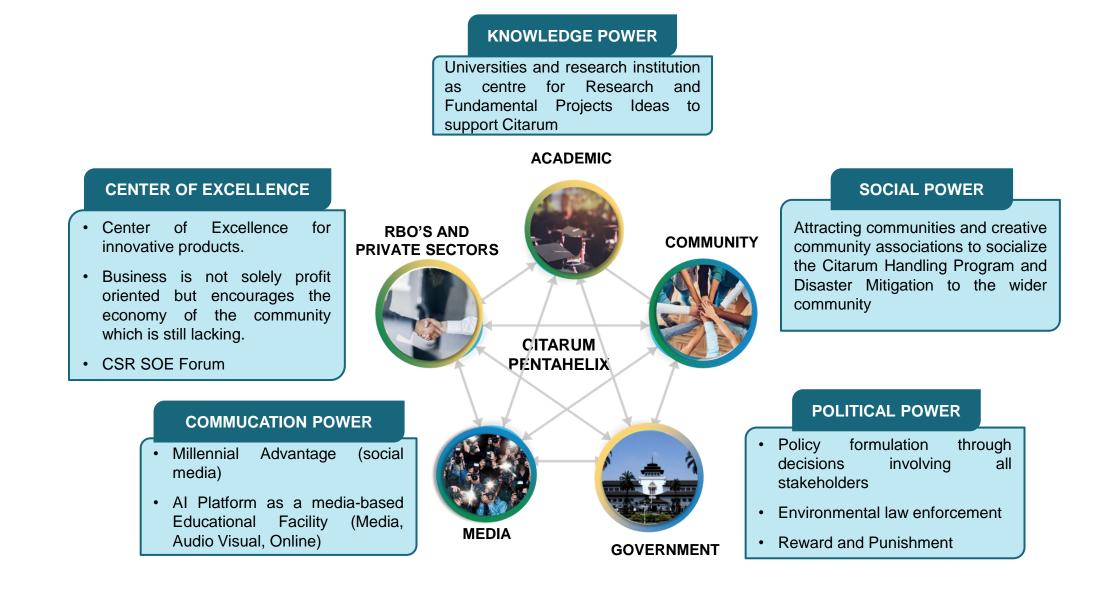


INTEGRATED WATER RESOURCES MANAGEMENT





STRATEGIC POLICY – CITARUM PENTAHELIX



PROGRESS PROBLEM SOLVING OF CITARUM RIVER BASIN



1. Critical Land



Before

After

After

4. Industrial Waste



Before

7. Law Enforcement



Before



2. Domestic Waste



Before

After

5. Farm Waste



Before

After

8. Education & Community



3. River Restoration



Before

After

6. River restoration



Before

After

9. Research and Information



ULTIMATE GOAL

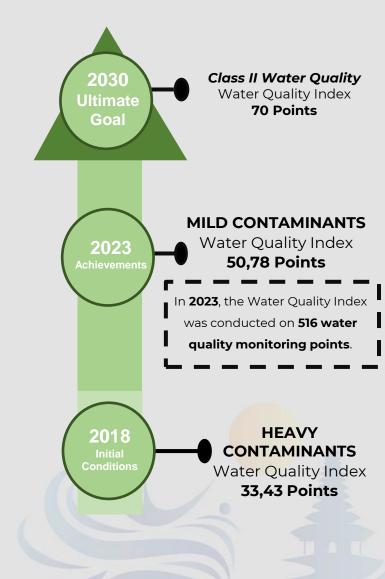






27 Jun 2023 14.32.5 Jalan Gono Tirtowidjoj Kutapohac Kecamatan Ciampe Jawa Rar





WORLD

Source : West Java Development Planning Agency,2024

SUMMARY



Access to clean water is **extremely important** for people to survive and stay healthy. However, the **worldwide problem** of **water pollution**, caused a significant threat to **ecosystems, human health**, and **sustainable development worldwide**.



Perum Jasa Tirta I



CITARUM RIVER BASIN (CRB) WATER QUALITY INITIATIVE

The government's commitment as well as Jasa Tirta II as a water company in facing the complex issues of water quality in the Citarum River Basin are by implementing IWRM through the Citarum Pentahelix program, managing domestic, industry, and farm waste, river restoration, law enforcement, and other activities.

ACHIEVEMENT AND ULTIMATE GOALS OF WATER QUALITY IN CRB

Since 2018, the water quality index in the Citarum River Basin has improved, with its category declining from **heavy contaminants to mild contaminants**. We are hoping that in the following years, the water quality index will reach the set target, aiming for 70 points or equivalent with the category of **Class 2 water quality by 2030**.



