

EFFORT TO CONTROL TOTAL POLLUTANS IN THE CITARUM RIVER

2000 000

I INALASSI TAN AMERICAN

November 14, 2023

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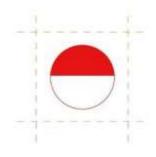


STAKEHOLER COLLABORATION WAS THE KEY SUCCESS FACTOR IN CITARUM HARUM

Provincial Government of West Java



OVERVIEW OF WEST JAVA





Population Growth Rate: **1.48%**

Second States St

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Area: 35,377.76 square kilometres



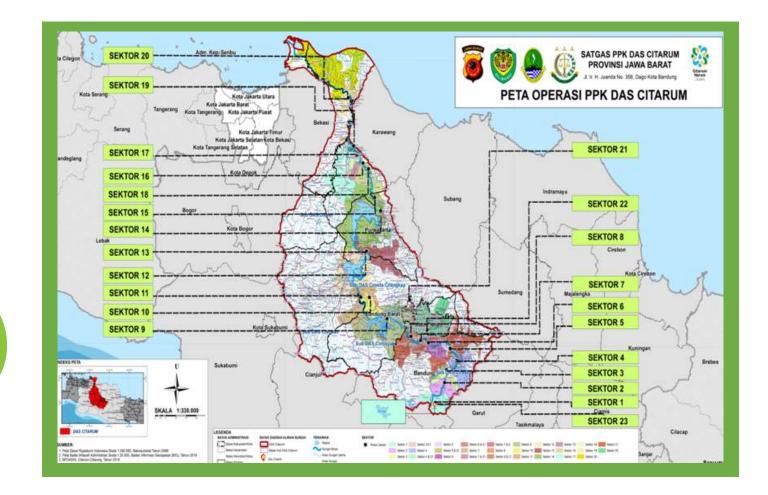
Population: 50 Million Population 2.246/km² Population Density 18 Million Population Live in Citarum Watershed



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CITARUM RIVER





Large area: 11.323 Km²

Constellation: 32% of Large of West Java

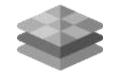
Length of watershed: 297 Km

Total Sub-watershed: 19





PROBLEMS IN CITARUM RIVER



CRITICAL LAND AREA

1. Decrease in the catchment area due to land damage.



FARM WASTE

5. Water pollution due to the disposal of Animal Husbandry.



LAW ENFORCEMENT 9. Environmental law enforcement is not optimal



DOMESTIC WASTE WATER

2. Limited availability of proper domestic wastewater sanitation facilities and infrastructure.



FLOATING NET

Unmanaged/unregistered 6. floating net cages



PUBLIC RELATION

10. public relations is not yet optimal



SOLID WASTE

3. Domestic and Hazardous is poorly waste waste managed.



WATER RESOURCE MANAGEMENT

7. Lack of the water re-Source management and Tourism have not implemented conservation principles.



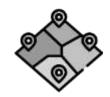
DATA MANAGEMENT

11. The provision of technologybased data and information



INDUSTRIAL WASTE

4. Water pollution due to the disposal of Industry.



LAND MANAGEMENT

8. Incompatibility of land use with spatial planning and weak efforts to supervise, permit and control space use



NO EDUCATIONAL SOCIALIZATION

12. Not yet optimal efforts to educate and empower rural communities

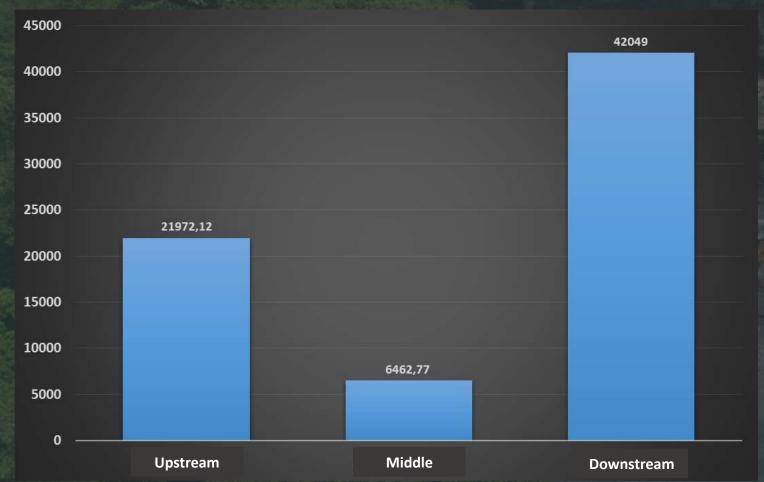




Provincial Government of West Java



AVERAGE OF FECAL COLIFORM IN THE CITARUM RIVER



Source: Upstream : Ministry of Environment and Forestry, Environmental Agency of West Java, Bandung Regency, Bandung City, Cimahi City, West Bandung Regency, Sumedang Regency, Perum Jasa Tirta II Middle : Ministry of Environment and Forestry, Environmental Agency of West Java, Cianjur Regency, Perum Jasa Tirta II, IP Saguling : Ministry of Environment and Forestry, Downstream Environmental Agency of West Java, Karawang Regency, Perum Jasa Tirta II

The contribution of domestic waste to the Citarum River is quite high



Provincial Government of West Java

> West Java as a Highest Waste Producer in Indonesia

24.790 Ton/Day

15.838 Ton/Day

CITARUM Watershed Waste Receiver



Q SEARCH







CTOBER 21, 2021 ndia Hits 1 **Billion Vaccine** oses



CTOBER 20, 2021 hailand to Cease Using inovac **accines** After Supplies Are xhausted

Indonesia's Citarum: The World's Most **Polluted River**

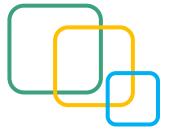
By Dikanaya Tarahita and Muhammad Zulfikar Rakhmat April 28, 2018

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Suratmo, a fisherman living on the banks of the Citarum River, could only laugh softly when asked about his catch today. He replied that he could no longer be called a fisherman. For the last five years, his income has no longer come from catching fish, but fishing used items such as glass bottles from the mountains of garbage in what is often called the world's most

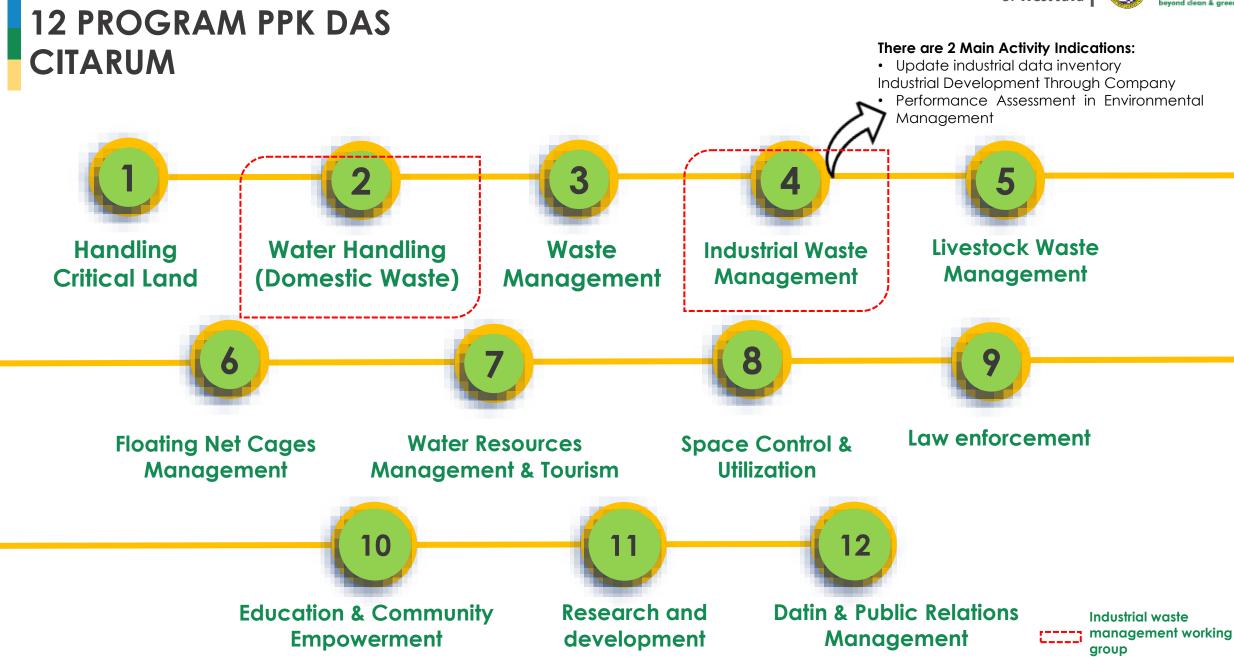






People in Citarum Watershed produced 15 tons of waste every day, 55% is organic waste and 15% is plastic waste. Others Textile Rubber Glass **Metal Scrap** Organic Plastic Paper 54,73% 15,35% 10,6% 9,81% 3,64% 1,99% 2,98% 0,9%





HANDLING DOMESTIC WASTE IN CITARUM WATERSHED

Provincial Government of West Java



SCOPE AREA

Handling of domestic wastewater in the 2020 – 2024 reaction period refers to the overlay results of several studies, namely:

SK MenLHK No. 300 tahun 2017

The study area covers 1,391 villages in 10 districts/cities

Spatial Data for the Citarum Watershed

The study area covers 1,286 villages/subdistricts in 13 districts/cities

After overlaying the two data, it is determined The scope of Citarum Harum's activity area covers 1,243 villages/subdistricts, 157 sub-districts, in 10 districts/cities.



- 644 Location Sector of Acceleration of Control and Damage to River Watersheds (PPK DAS)
- **251 High and Very High Sanitation Risk Areas**
- 205 Child Stunting Villages
- 448 ODF (Open Defecation Free) / Stop BABS
- 795 Villages Open Defecation (BABS), 648.603 Head of Family
- > Infrastructure Development : 643.563 Head of Familiy (692 Villages)

Stimulants of Community Based Total Sanitation (Sanitasi Total Berbasis Masyarakat) 5.040 Head of Family (103 Villages)

INITIAL CONDITIONS OF DOMESTIC WASTE MANAGEMENT IN THE CITARUM WATERSHED

Based on Smart STBM data for December 2019

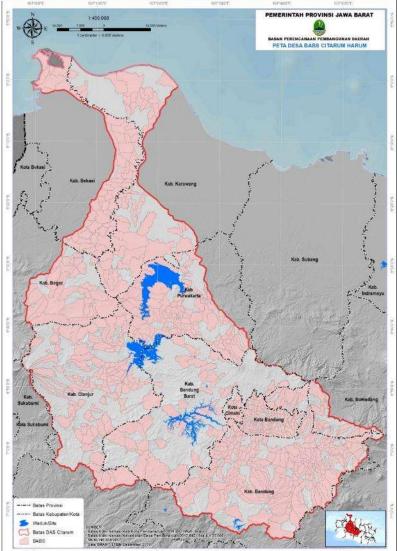
2,352,098 people or 648,603 community families spread across 795 villages/districts still practice open defecation (open defecation)

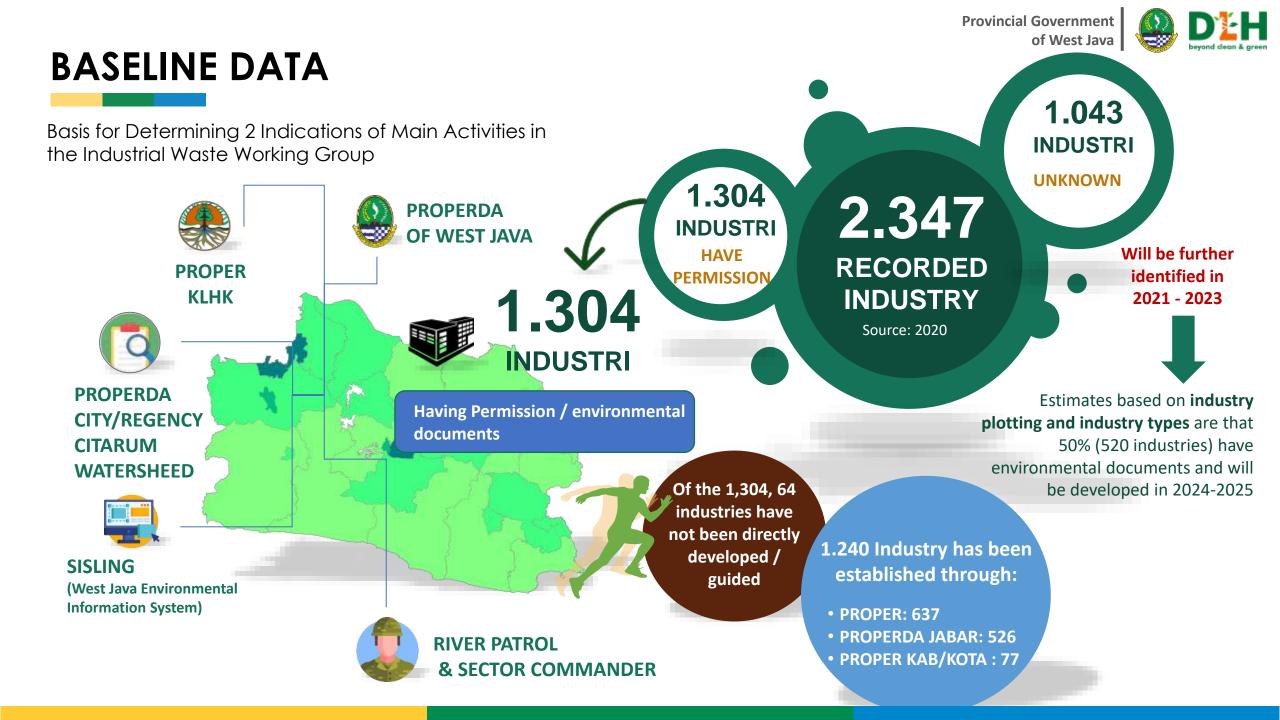


Dengan demikian, beban pencemaran BOD pada limbah domestik yang perlu diturunkan di Sungai Citarum sebesar 94.084 kg/hari

BABS

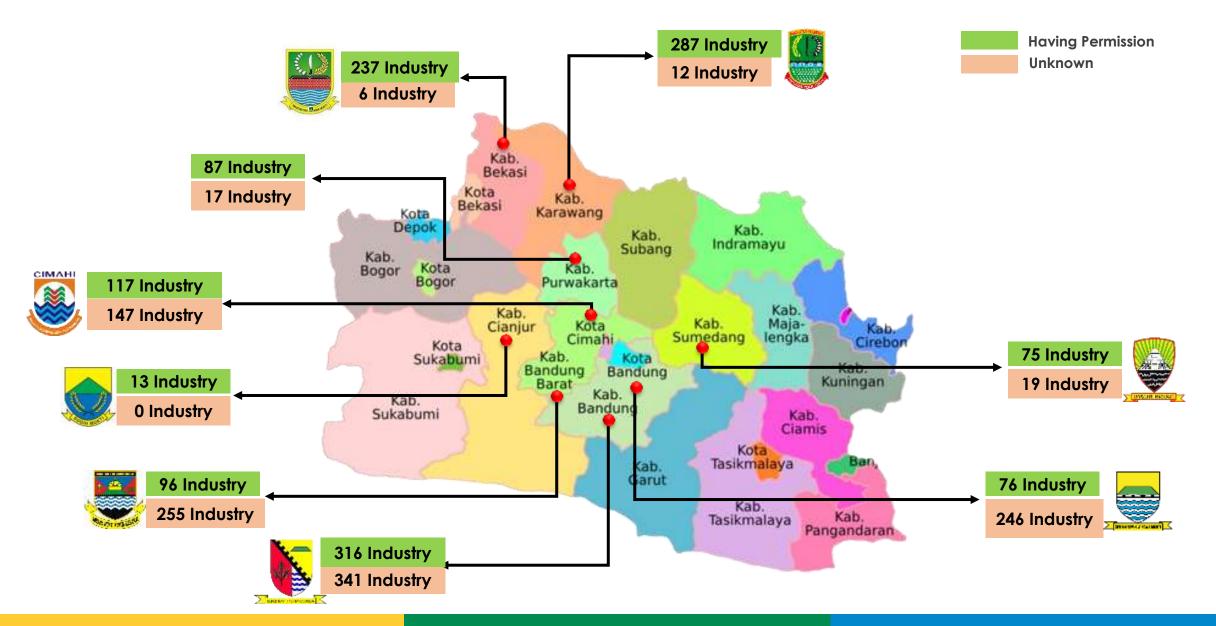
No	Kab/Kota	Jml Kecamatan BABS	Jml Desa BABS	Jml Penduduk BABS		Emission Factor:
				(jiwa)	(КК)	BOD = 0,04 kg/orang/hari
1	Kab. Bandung	31	209	747.290	184.941	1.5/010115/11011
2	Kab. Bandung Barat	9	29	56.628	16.467	
3	Kab. Bekasi	12	68	109.210	32.541	
4	Kab. Bogor	7	34	85.209	47.950	
5	Kab. Cianjur	18	99	216.010	72.074	
6	Kab. Karawang	13	56	133.026	26.905	
7	Kab. Purwakarta	14	121	98.590	20.487	
8	Kab. Sumedang	4	22	9.133	4.577	
9	Kota Bandung	30	144	811.578	210.738	
10	Kota Cimahi	3	13	85.424	31.923	
	Total	141	795	2.352.098	648.603	BAB





DISTRIBUTION OF INDUSTRIAL WASTE HANDLING LOCATIONS BASED ON REGENCY/CITY IN THE CITARUM WATERSHED





INDUSTRIAL DEVELOPMENT OBSTACLES 2022

Provincial Government of West Java



Of the participants who have been proposed by the District/City, their progress is reduced, due to:

- Resigned because it is no longer operational
- Currently in Law Enforcement
- Does not collect data and cannot be contacted*

MECHANISM FOR IMPLEMENTING THE 2019-2025 INDUSTRIAL DEVELOPMENT PROGRAM





- PARTICIPANT DETERMINATION MEETING



SOCIALIZATION TO PARTICIPANTS



SELF ASSESSMENT DATA

COLLECTION

TO REGENCY/CITY

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EVALUATION / ASSESSMENT FORM



FIELD VERIFICATION



PREPARATION OF TEMPORARY SUBMISSION OF TEMPORARY REPORTS REPORTS BY DISTRICT/CITY

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DISCLAIMER



DISCUSSION COORDINATION FINAL REPORT

*For participants who **did not respond or could not be contacted**, a list of participants' names has been submitted to the West Java **enforcement department** to be used as a priority for further supervision.



ORGANIZATION FINAL REPORT



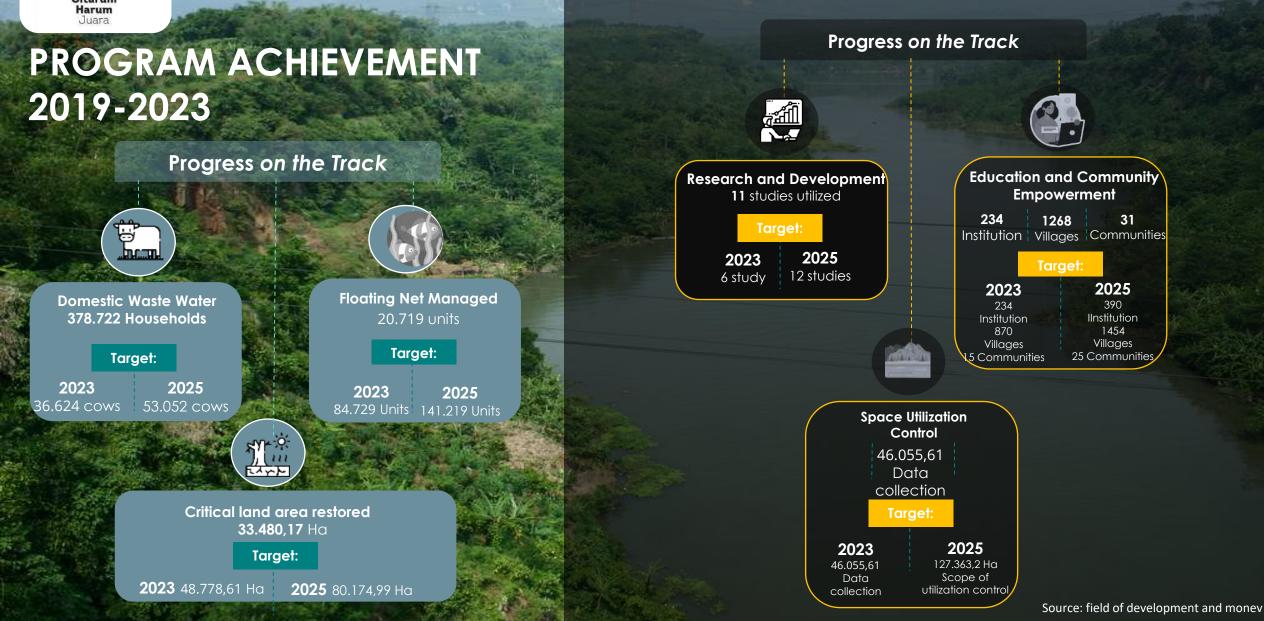
DELIVERY FINAL REPORT



Notes:

Data on program outcomes are generally cumulative. Achievements in 2023 based on the Task Force Secretariat Report Provincial Government of West Java







2019-2023

3

YY SS

Farm waste intervention

28.613

Target:

2025

648.603

Households

2023

430.831

Households

Notes:

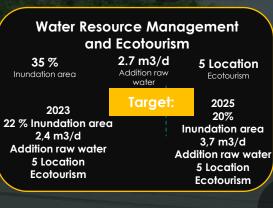
Data on program outcomes are generally cumulative. Achievements in 2023 based on the Task Force Secretariat Report

Provincial Government of West Java









Public Relation Management

282 manual spot & 24 Onlimo Command Water Quality Center Monitoring Location

38 Public Relation Media

Target 2023-2025:

1 Command Center 341 manual spot & 22 Onlimo Water Quality Monitoring Location **4** Public Relation Media

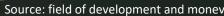




2025 2023 4.814,85 6.636.06 tons/day ton/day

Industrial Waste Monitored 1.452 Target: 2025 2023 1.813 Industries built 1.304 Industries built 1.043 Industries inventoried 1043 Industries inventoried

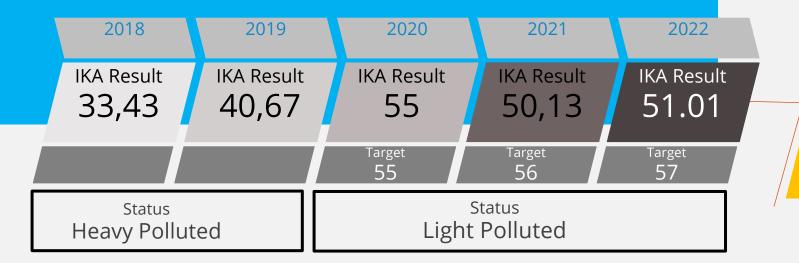
PROGRAM ACHIEVEMENT



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ULTIMATE GOAL



Desc:

IKA: Water Quality Index

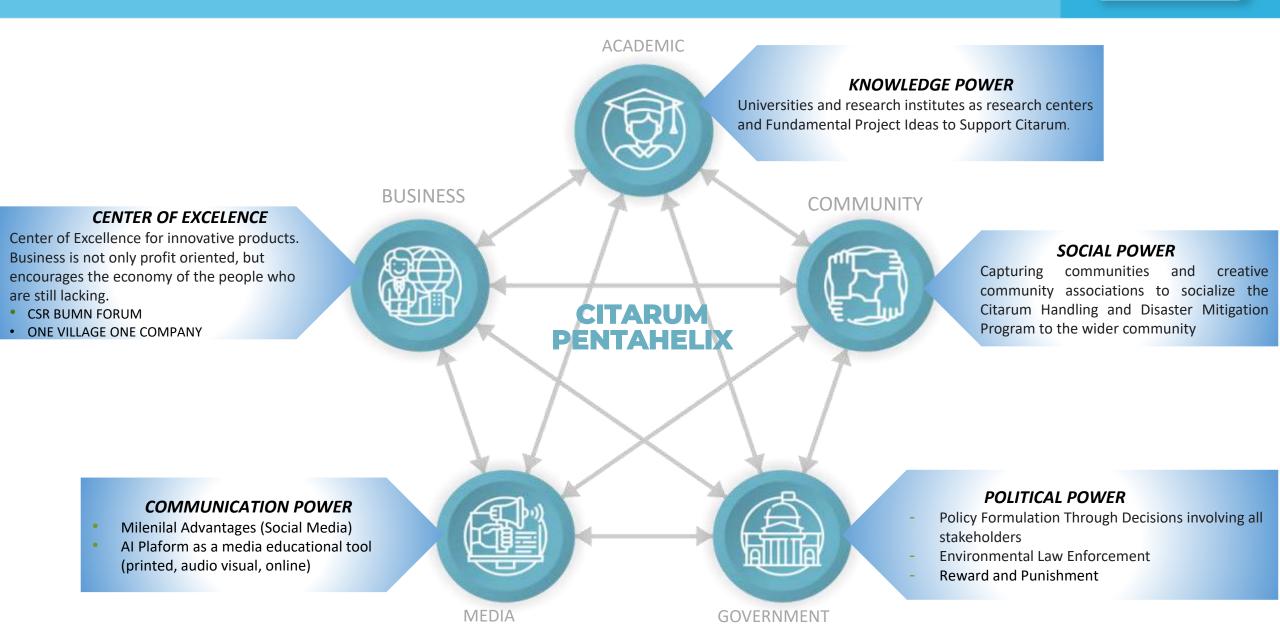
IKA 70: Water whose designation can be used for water recreation, freshwater fish cultivation, animal husbandry, irrigating plants, or other uses that require the same water quality.





PENTAHELIX SINERGITY MODEL IN CITARUM





CIRCULAR ECONOMY





A circular economy is a model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible that aims at tackling global challenges like climate change, biodiversity loss, waste, and pollution.



SOLID WASTE REDUCTION

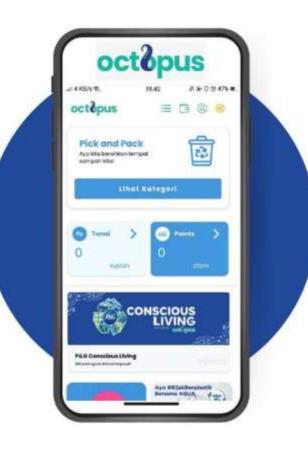
West Java Environment Agency

DIH

DISSEMINATION OF ORGANIC WASTE MANAGEMENT



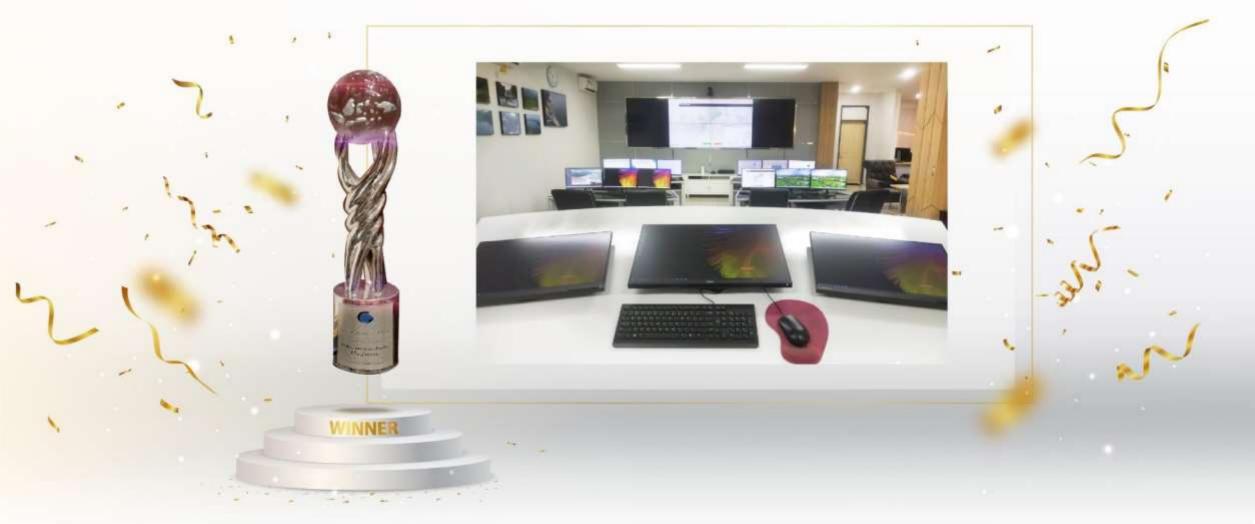
ENCOURAGING DIGITAL PLATFORM (ANDROID) IN REDUCING SOLID WASTE IN WEST JAVA



WASTE BANK



WEST JAVA PROVINCE WON "THE BEST INNOVATION" FROM INDONESIAN GEOSPATIAL AGENCY FOR COMMAND CENTER OF CITARUM WATERSHED TASK FORCE



Pemerintah Daerah Provinsi Jawa Barat



Collaboration to Make Citarum Harum River, KODAM III/Siliwangi Sinergize with POLRI and West Java Government to manage Citarum River



Indonesian National Armed Forces (TNI)

Increase evectiveness and conditioning people, rural apparatus, and stakeholders.



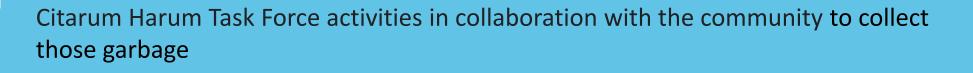
Indonesian National Police (POLRI)

Carry out prevention, development, and law enforcement for people who dispose of waste those does not accordance standard quality in Citarum River.













PLANTING AND CLEANING IN Citarum collaboration with INDONESIAN NATIONAL ARMED FORCES (TNI)













Handling the floating net cage and making temporary embankment





Management of Critical Land in the Upper Citarum Watershed







Before

After

Location: Mekarwangi District, Bandung Regency

Cleaning Up Disturbing Water Algae "Eceng Gondok" in the Citarum River





After

Before

Location: Posko Sektor, West Bandung Regency

Construction of Retention Ponds to reduce Flood Inundation Area







Before

After

Q Location: Kolam Retensi Andir, Andir district, Bandung Regency

Garbage Collection in Citarum Watershed





Before

After

Q Location: Sepadan River, 8 Sector Territorial, Katapang district, Bandung Regency

Construction of the Bridge as a result of the Collaboration between the Citarum Task Force and the Tsu Zhi. Buddhist Foundation CSR







Before

After

Q Location: Kertasari district, Bandung Regency



IMPLEMENTATION OF ACTIVITIES



TREE PLANTING

TREE NURSERY



IMPLEMENTATION OF ACTIVITIES



CONSTRUCTION OF COMMUNAL WC

MANUFACTURING COMMUNAL WASTEWATER TREATMENT



IMPLEMENTATION OF ACTIVITIES



DEMOLITION OF ILLEGAL BUILDINGS



Before After Kegiatan Penanganan Keramba Jaring Apung

Before



Sumber : antaranews.com

2021

Sumber : Republika.co.id

Penanganan

2022

Sumber : Sekretariat Satgas Citarum

After

After

Before



Sumber : republika.co.id



Sumber : Sektor 9 Citarum Harum



Sumber : Sekretariat Satgas Citarum

Eceng Gondok di Waduk Saguling, Kab Bandung

Waduk Jatiluhur, Kecamatan Jatiluhur, Kab Purwakarta Citarum

Before After Kegiatan Pengendalian Pemanfaatan Ruang

Before



Sumber : Sekretariat Satgas Citarum



Sumber : Sektor 18 Citarum Harum



After

Sumber : Sekretariat Satgas Citarum

Sepadan Sungai Citarum, Kecamatan Nanjung, Kab Bandung Citarum Harum Juara



Before

2018

Sumber : Sekretariat Satgas Citarum



Proses

Sumber : Sekretariat Satgas Citarum



After

Sumber : Biro Administrasi Pimpinan Pemprov Jabar

Before After Kegiatan Pengendalian Pemanfaatan Ruang

Before



Sumber : Sekretariat Satgas Citarum

Before





Sumber : republika.co.id

Progres



Sumber : Google

After

Sumber : Yayasan Budha Tzu Chi



Sumber : Sekretariat Satgas Citarum



Sumber : Administrasi Pimpinan Pemprov Jabar **CSR Jembatan Budha Tzu Chi,** Kecamatan Baleendah, Kab Bandung

Sepadan Sungai Cidurian, Kecamatan Antapani, Kota Bandung

Citarum

Before After Kegiatan Pengendalian Pemanfaatan Ruang

Before

Sumber : Istimewa



Sumber : PUPR



After

Sumber : Data Informasi & Humas Citarum

After

Before



Sumber : detik.com



Sumber : 60detik.com



Sumber : Sekretariat Satgas Citarum

Jembatan Citarum, Kecamatan Baleendah, Kab Bandung

Terowongan Nanjung Kecamatan Nanjung, Kab Bandung Citarum Harum Juara



Sumber : vice

Before

2016

Sumber : vice

Before

2015

Sumber : islampos.com

Sumber : Sekretariat Satgas Citarum

Before After Kegiatan Penanganan Keramba Jaring Apung

Before

Sumber : antaranews.com

Before



Sumber : republika.co.id



2021

Sumber : Republika.co.id

Penanganan

Sumber : Sektor 9 Citarum Harum



2022

Sumber : Sekretariat Satgas Citarum

After

After

Sumber : Sekretariat Satgas Citarum

Eceng Gondok di Waduk Saguling, Kab Bandung

Waduk Jatiluhur, Kecamatan Jatiluhur, Kab Purwakarta Citarum





WE TAKE CARE OF NATURE, NATURE TAKES CARE OF US

WEST JAVA ENVIRONMENTAL AGENCY Kawaluyaan Indah Raya Street Number 6 Soekarno-Hatta, Bandung City Phone. (022) – 87353565 – Fax. (022) – 87353363 Website: <u>www.jabarprov.go.id</u> I email: dlh@jabarprov.go.id