



KEMENTERIAN KOORDINATOR  
BIDANG KEMARITIMAN  
DAN INVESTASI

# Strategy on Citarum Restoration and Rehabilitation

January 2021



# Major Issue in 4 Critical Watershed

## DAS Citarum



Citarum water is **heavily polluted**



Waste prediction in Bandung City approximately  $\pm 6000$  ton/day(2020)



Critical area in upstream of Citarum is **77.037,36 hectare**



Floating fish cage in 3 cascade reservoir exceeding carrying capacity **140 thousand slot**



Bandung and Cimahi experience **flooding** every year.

## DAS Ciliwung



Water quality in Ciliwung is **medium to heavy polluted**



Risking **flooding** for DKI Jakarta



Critical area in Ciliwung-Cisadane **20 thousand Hectare**



Lack of sanitation  $\sim 470$  thousand SR

## DAS Cisadane



Cisadane water quality is **medium to heavy polluted**



Risking **flooding** for Tangerang



Critical land area in Ciliwung-Cisadane **20 thousand hectare**



Lack of sanitation  $\sim 450$  thousand SR

## DAS Asahan-Toba



Water quality in Air Asahan Toba **medium to heavily polluted**



Critical land area are **160 thousand hectare** in DAS Asahan Toba



Over carrying capacity of aquaculture



Increased of **sedimentation and erosion** in rivers and estuary.



**Flooding** in downstream of Asahan River (Kabupaten Asahan District and Tanjung Balai City)

# Presidential Decree No. 15/2018



PRESIDEN  
REPUBLIK INDONESIA

PERATURAN PRESIDEN REPUBLIK INDONESIA

NOMOR 15 TAHUN 2018

TENTANG

PERCEPATAN PENGENDALIAN PENCEMARAN DAN KERUSAKAN

DAERAH ALIRAN SUNGAI CITARUM

DENGAN RAHMAT TUHAN YANG MAHA ESA

PRESIDEN REPUBLIK INDONESIA,



Distribution of duties and responsibility for Government, Local Authorities, TNI, Police and other stakeholders



Establishment of activities and operation executor organization



Improvement of regulation in the context of law enforcement efforts in Citarum River Management



Establishment of supporting regulation to handling social problems and communities profession shifting



Engagement of active community role through community empowerment

## Mandate of Presidential Decree

- Citarum Task Force should established an Action Plan Document for the acceleration of Citarum Restoration and Rehabilitation 20219 – 2025
- The said Action Plan document should be referred by other stakeholders in planning their program and activities

# Goals on Citarum Restoration and Rehabilitation



“Decreasing pollution level from Heavy Pollution to Class II Water Quality ”



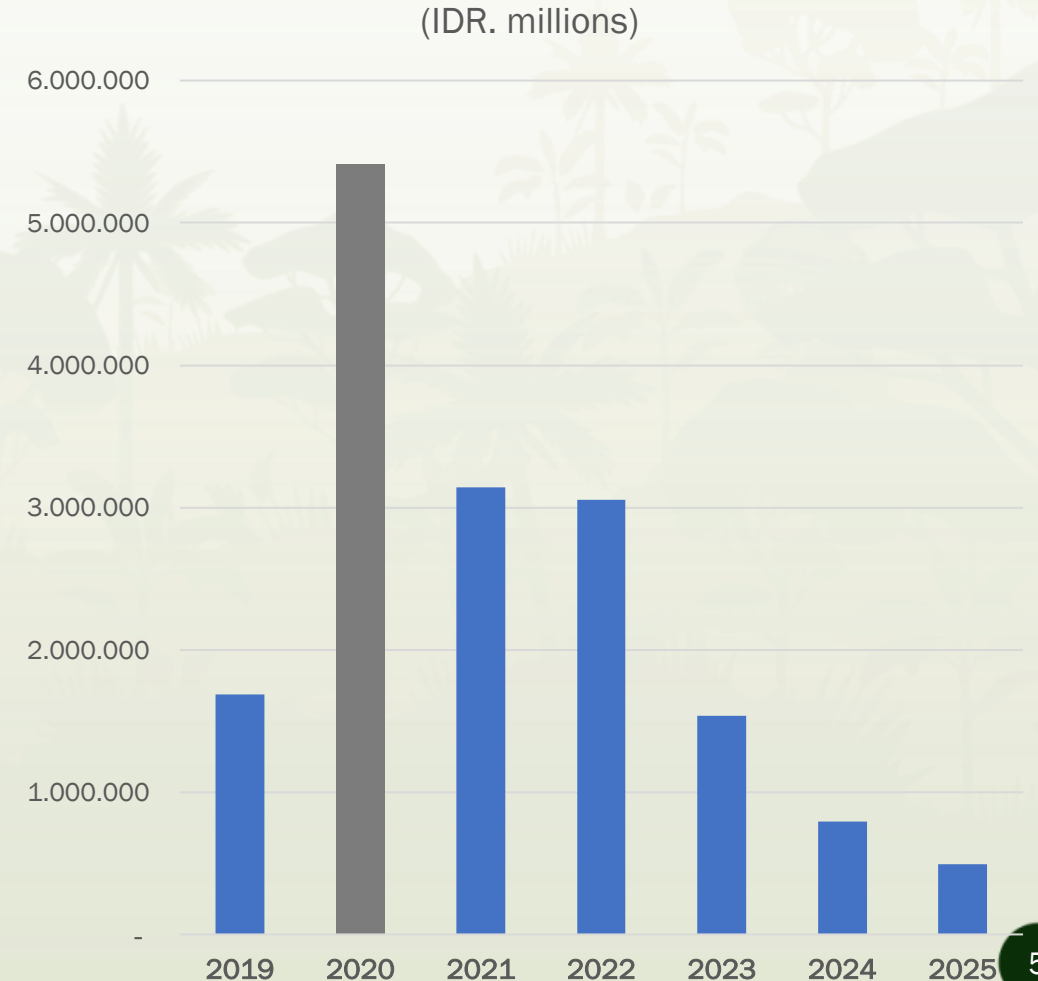


# Indication of Budget and Program Per Year

## 11 Executed Program

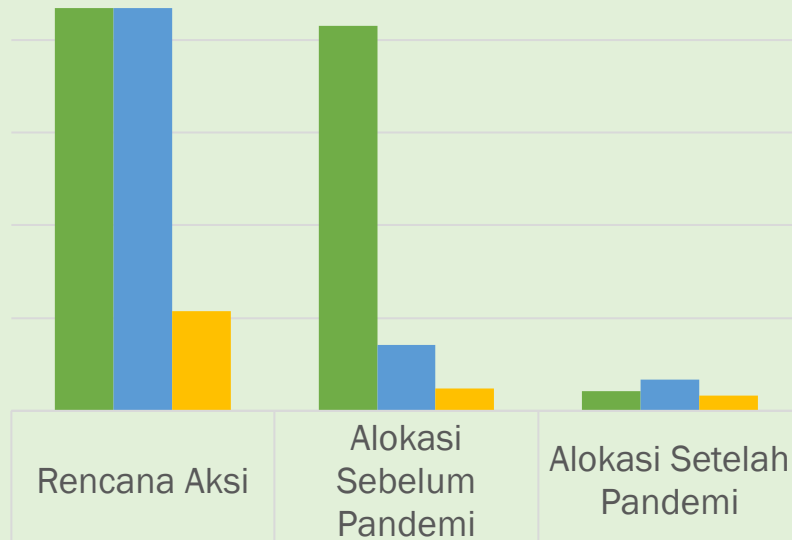
| No | Program                      | Impact Indicators  |
|----|------------------------------|--|
| 1  | Critical Land handling       | Decrease of erosion  |
| 2  | Industrial waste handling    | Waste/effluent meets environment qualification                   |
| 3  | Livestock Waste handling     | Fecal coliform contents decrease                                 |
| 4  | Domestic wastewater handling | Fecal coliform contents decrease                                 |
| 5  | Waste management             | All waste managed  |
| 6  | Spatial planning             | Decrease on land use shift                                       |
| 7  | Water resources management   | Decrease on flooding event                                       |
| 8  | Aquaculture management       | Number of aquaculture according to the carrying capacities       |
| 9  | Law enforcement              | Reduce on law violations   |
| 10 | Education                    | Reduce of waste discarded onto the river                         |
| 11 | Public relations             | Citarum River clear and clean from waste and domestic wastewater |

## Indication of budget requirement per year



# Analysis of Budget and Strategy to Achieve Targets

## Analysis of budget shifting due to COVID-19



|               | Rencana Aksi | Alokasi Sebelum Pandemi | Alokasi Setelah Pandemi |
|---------------|--------------|-------------------------|-------------------------|
| APBN          | Rp2.172.490  | Rp2.073.078             | Rp108.346               |
| APBD Prov     | Rp2.172.490  | Rp356.701               | Rp166.403               |
| APBD Kab/Kota | Rp536.879    | Rp118.269               | Rp80.325                |

- Budget re-focusing due to COVID-19 lead to major change in program activities, targets and goals. Available budget for 2020 only left **7% from total budget requirement as stated in the Citarum Action Plan 20219-2024.**
- Budget shift in 2020 will greatly impact to the achievement of Action Plan Target**

## LOAN – Integrated Solid Waste Management Program (ISWMP)

- ❖ ISWMP Loan ISWMP has been effective since April 3<sup>rd</sup>, 2020 → support waste management (handling ± 1.700 tones from 6.000 tones waste in Bandung City) needs acceleration and integration of planning into Citarum Action Plan.
- ❖ Needs Integration for the implementation of ISWMP and handling of Citarum Watershed.

## CSR – PT. ASTRAZANECA

- ❖ **Critical Land Area: 1250 Ha** in North Bandung Utara (upstream Citarum). Supporting budget : Rp 15 Billion
- ❖ AstraZeneca support 10 millions trees in the span of 5 years →
- ❖ MoU has been signed on end of December 2020

# Citarum Rehabilitation in 2020



- Number of trees planted in critical area from January to June 2020 : 1,8 Million
- Critical areas planted from January to June 2020: 1,117.34 Ha

- Sedimentation dredging: 2,167,658 m<sup>3</sup>

- Building TPS 3R : 16 unit
- Procurement of trash bin : 1,448 unit
- Total waste disposal: 116,698 tones
- Riverbank relief: 963 unit



# Before and After (1)



**BEFORE**



**AFTER**





# Before and After (2)





# Before and After (3)



SUBSEKTOR 1 SITU CISANTI  
3 Feb 2019 08.45.56

**BEFORE**



**AFTER**





- Improve the Citarum river water pollution management together with KLHK and local governments through:
  - Technology selection
  - Waste and water management Policy
  - Development of environmental Standard
  - Capacity Building
- Finance for eco-friendly infrastructure
- Financial and or technical co-operation to support revision of action plan for Citarum River Water Quality Rehabilitation
- Intercity Cooperation



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**THANK YOU**