

PROMOTING SYNERGIES:

Pentahelix collaboration between Local and Regional Governments (LRGs), and other stakeholders in both the climate agenda and the SDGs

Dr. Helmi Gunawan, Ph.D

Head of Conservation & Climate Change Control Division
West Java Environmental Agency - Indonesia

Sumber foto : <https://jernih.co/solilokui/dengarlah-ratapan-hutan-hutan-jawa-barat/>



DLH
beyond clean & green

DINAS LINGKUNGAN HIDUP PROVINSI JAWA BARAT
Jl. Kawalayaan Indah Raya No.6 Soekarno-Hatta
Telp. (022) – 87353565 Fax. (022) – 87353363
www.dlh.jabarprov.go.id (email: dlh@jabarprov.go.id)

Outline

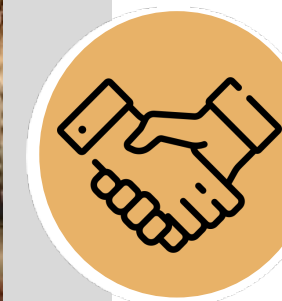


OVERVIEW OF WEST JAVA & ENVIRONMENTAL QUALITY



LCD POLICY AND SDGS

PARTICULARLY IN SOLID WASTE MANAGEMENT



CLIMATE ACTIONS & INNOVATION AT SITE LEVEL

OVERVIEW OF WEST JAVA



49.93 millions
In 2020

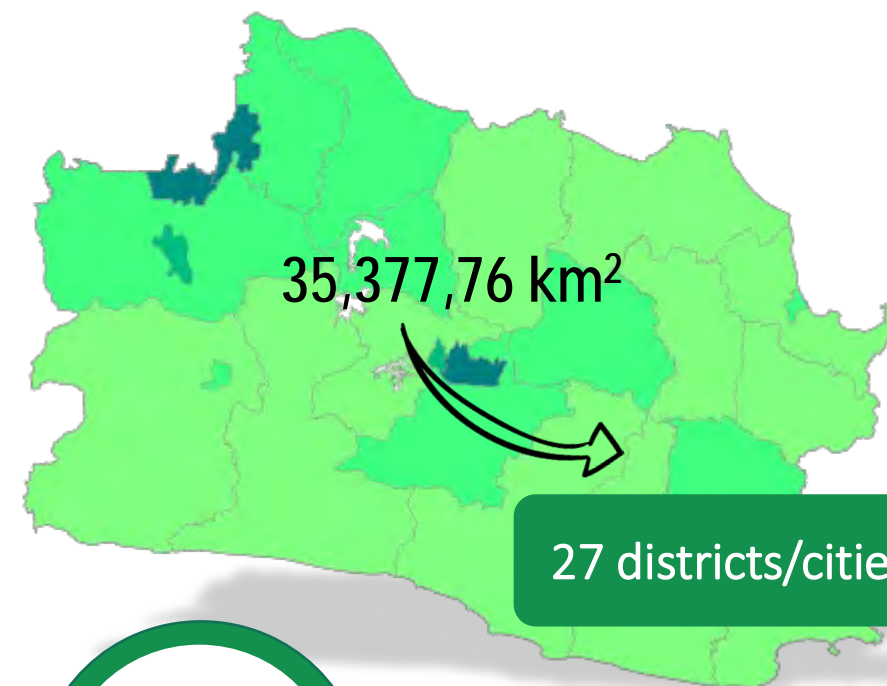


50%
In urban areas



70.68%
Productive age
(15-64 years)

Potential in economic, social culture, & sustainable development

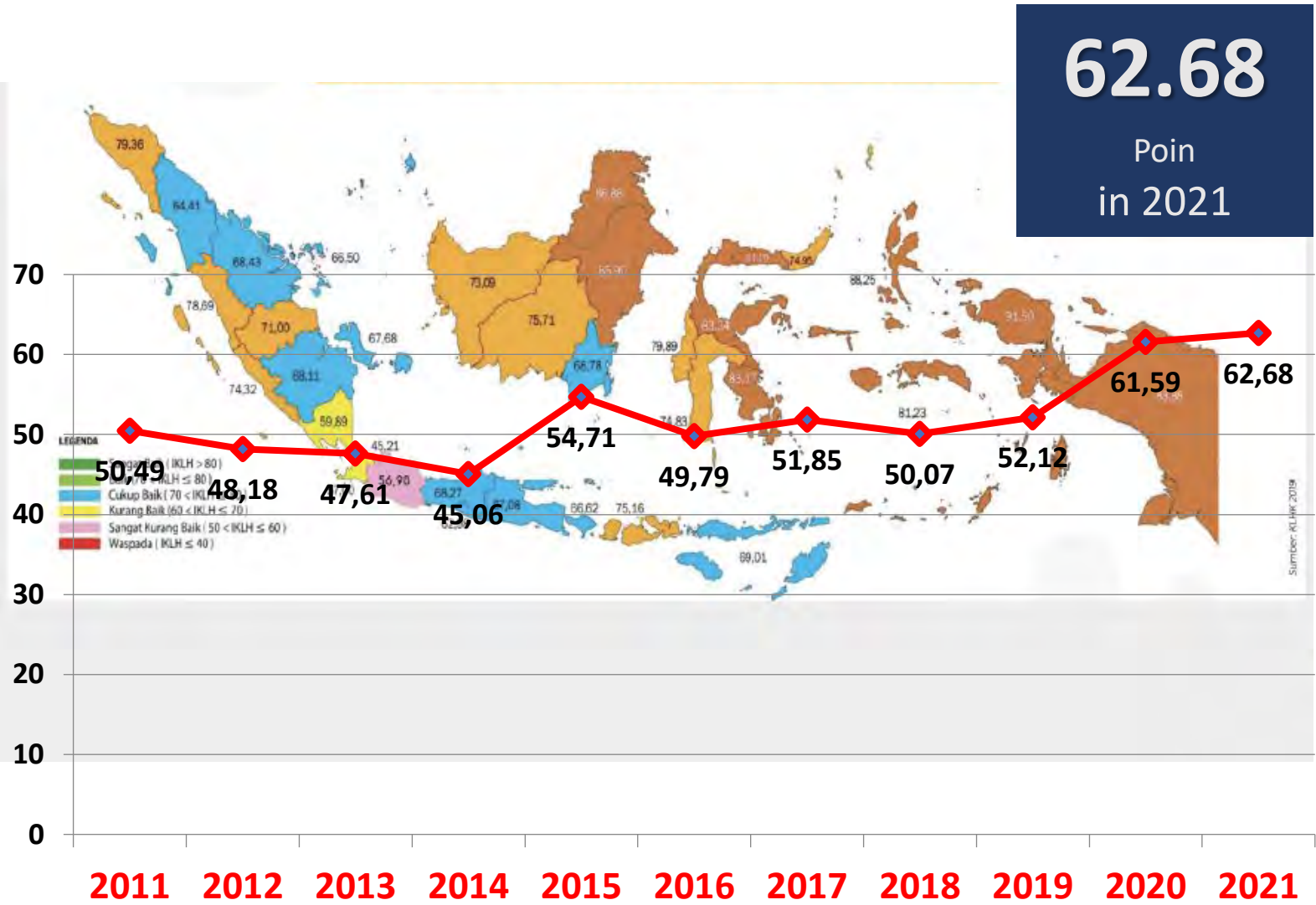


2.18%
INFLATION RATE
(2020)



72.09
HUMAN DEVELOPMENT INDEX
(2020)

Environmental Quality Index



GHGs Emission

Total GHG Emission of West Java in 2021



72 Million Tons CO2 eq



LAND COVER

7,5%



AGRICULTURE

6,6%



ENERGY

38,3%



TRANSPORTATION

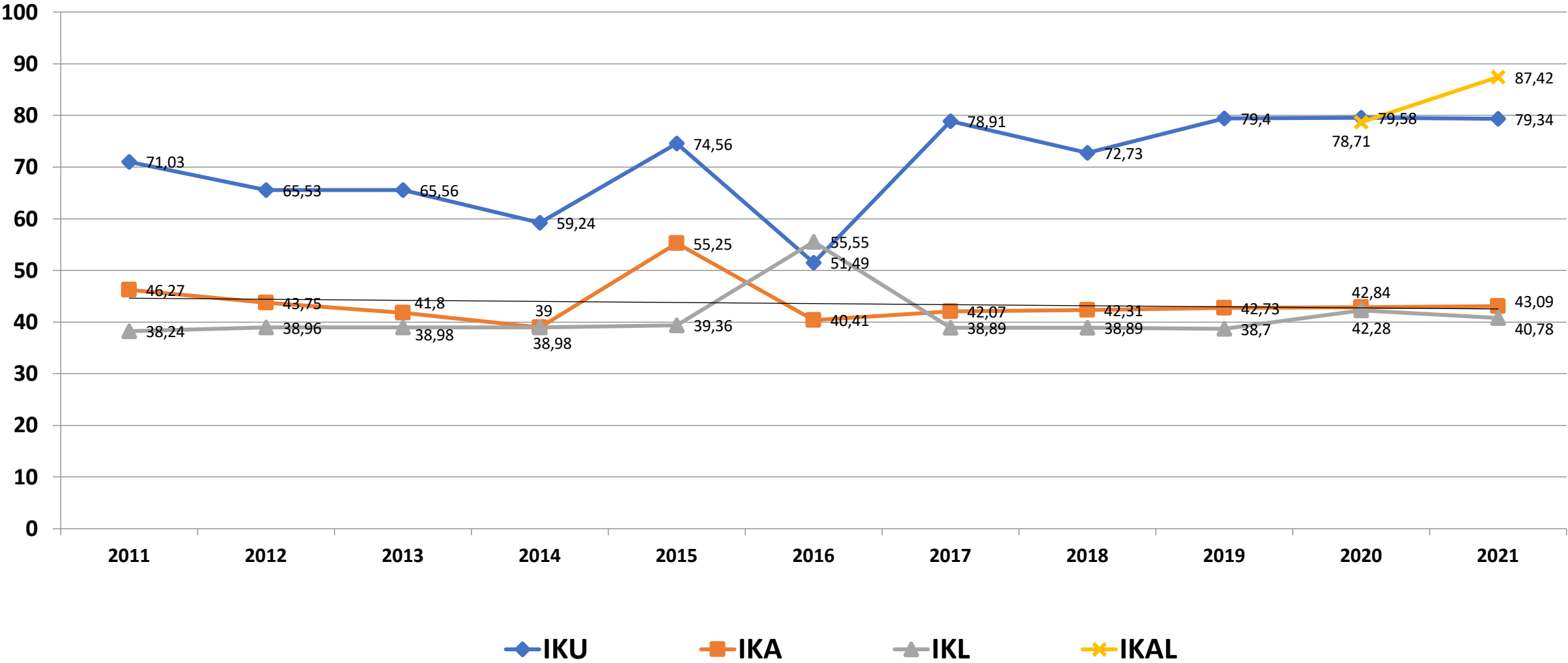
33%



WASTE

14,6%

TREND WATER QUALITY INDEX, AIR QUALITY INDEX, LAND COVER QUALITY INDEX AND SEA WATER QUALITY INDEX



INDEKS KUALITAS AIR
(pH, DO, BOD, COD, TSS, NO3-N, TP, FC)

INDEKS KUALITAS UDARA
(SO₂ dan NO₂)

INDEKS KUALITAS TUTUPAN
LAHAN
(Tutupan lahan)

INDEKS KUALITAS AIR LAUT
(TSS, DO, minyak lemak, N-NH3, PO4-P)

ENVIRONMENTAL QUALITY INDEX 2021

DISTRICTS/CITIES IN WEST JAVA

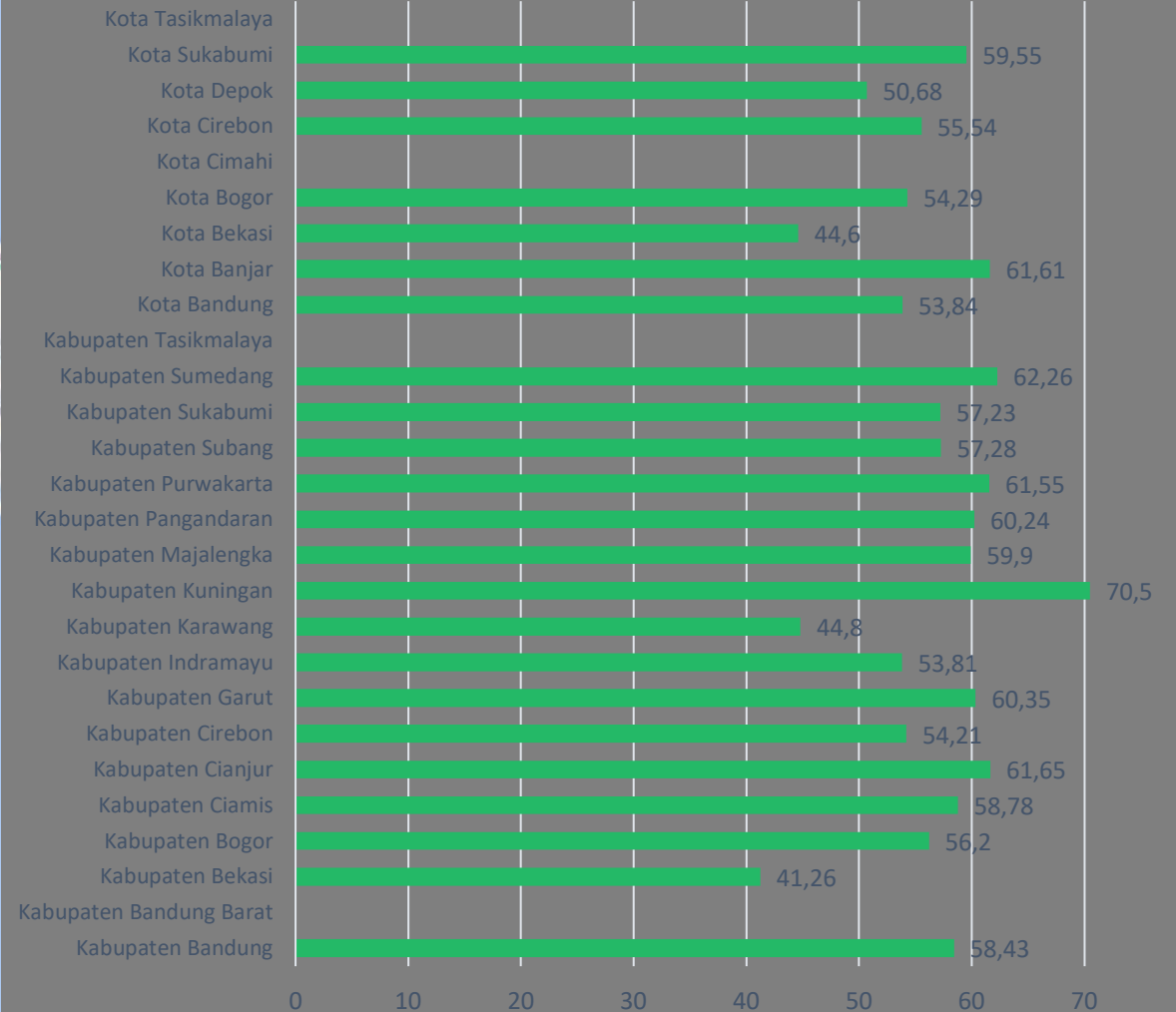
Layer 1

IKLH (Sum)

41,26

70,50

IKLH



West Java Province proposes a number of recommendations at the international, national, and regional levels (as Chairs in URBAN20)

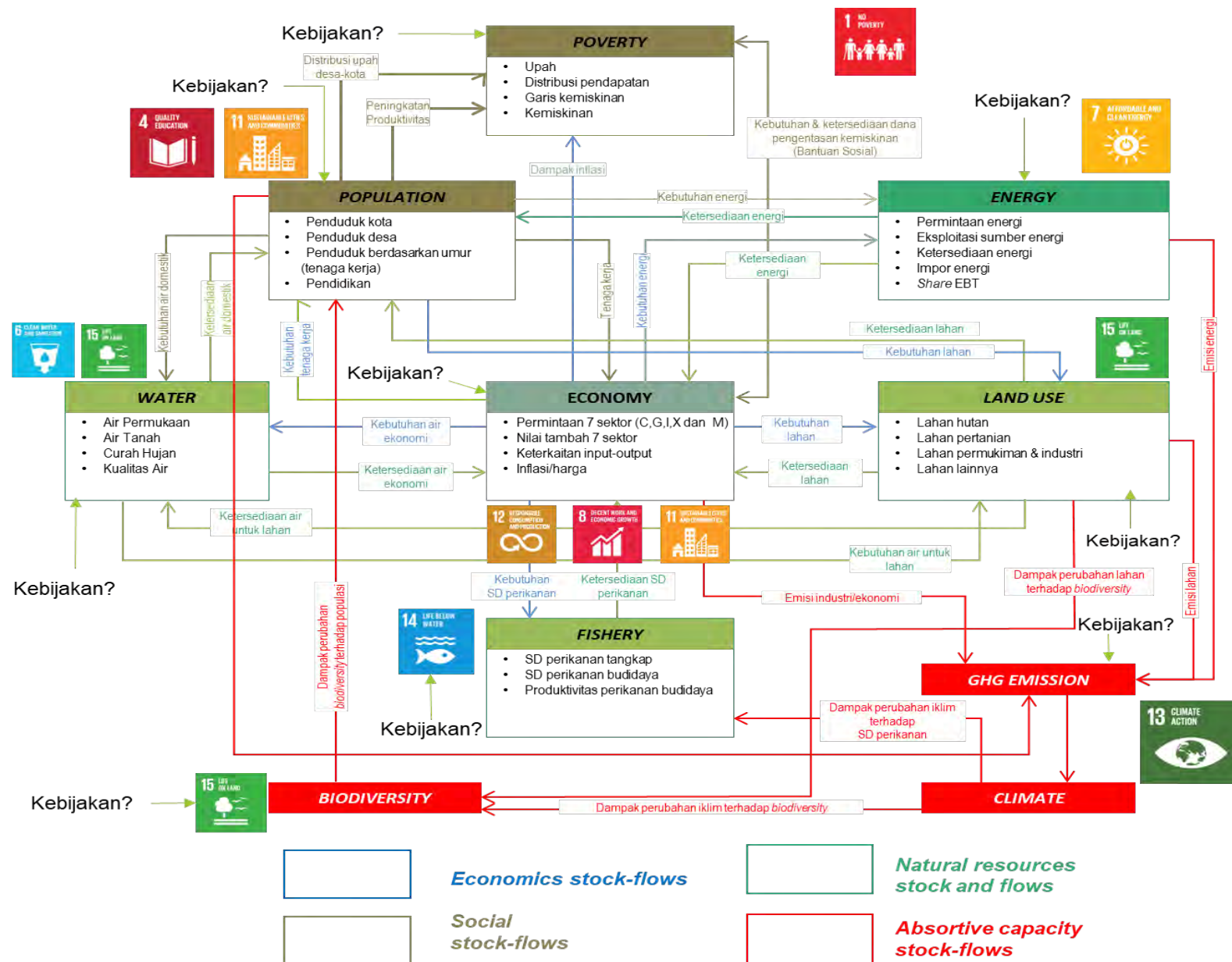
- At the international level, the government wishes to **establish Connecti:City as a continuous collaboration platform** between West Java and the international creative economy communities; to strengthen cooperation among global south countries in accordance with the spirit of Asia Africa Conference; and to push forward the creative economy sector to answer to the SDG challenges in the post-pandemic era
- At the national level, West Java Government proposes to **expand cooperation among provinces**; to encourage benchmarking and exchange best practices/experiences of creative economy; to **promote creative economy as a driving force** for post-pandemic recovery.
- At the regional level, the provincial government urges all cities/regencies in West Java region to **enact regulations on creative economy**; to create a multi sector action plan that creates a synergy for creative economy development; to establish a city/regency-level creative economy institution/committee.

3 ISSUES PRIORITY :

- The global health architecture
- Digital transformation
- Renewable energy



Connection between Low Carbon Development and SDGs goals





Low Carbon Development: West Java Target

Solid waste & wastewater sector

No	Policies	Variabel	Unit	Fair Scenario			Optimistic Scenario		
				2030	2045	2060	2030	2045	2060
1	Reduce, Reuse, Recycle (3R)	Prosentase penerapan kebijakan 3R in Temporary waste site (TPS)	%	10,00	11,65	13,12	12,00	13,98	15,74
2	Composting	Percentage composting implementation in TPS	%	30,00	37,26	44,51	36,00	44,71	53,41
3	Refuse Derived Fuel (RDF)	RDF capacity in TPS	Ton/day	4.111,22	8.037,49	10.881,21	4.933,46	9.644,99	13.057,45
		RDF capacity in TPA	Ton/day	5.653,00	-	-	6.783,60	-	-
5	Added Landfill (TPA)	Landfill area TPA	Ha	65,00	-	-	78,00	-	-
6	Methane Capture	Target methane capture	%	-	-	-	-	-	-
7	Increasing services	Target solid waste services area	%	N/A	N/A	N/A	N/A	N/A	N/A
1	Methane Capture	Target methane capture	%	N/A	N/A	N/A	N/A	N/A	N/A
2	Increasing services of IPAL/SPALD	Increasing services of IPAL/SPALD	%	N/A	N/A	N/A	N/A	N/A	N/A

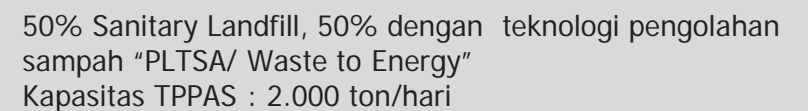
Source:

Fair Scenario: Enviormnetal Agency, 2021

Ambitius Scenario: the assumption of achievement is 20% higher than the fais scenario

Assumption:

- Sampah organik lunak dikomposkan
- Sampah DU HV ke Pelaku daur Ulang
- Sampah Lainnya dan sampah organik low value untuk RDF di TPS mulai di tahun 2025
- Sampah tercampur terangkut ke TPA, mulai dengan ada nya TPPAS Regional

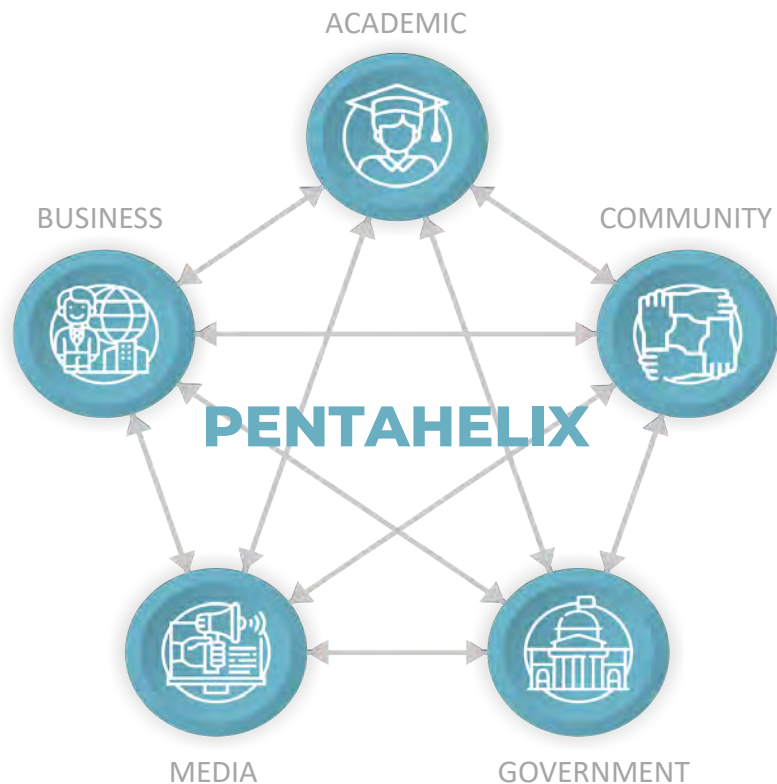




PENTAHHELIX

COLLABORATION

IN SOLID WASTE MANAGEMENT




3R and collecting
waste station from
producer



DEVELOPMENT OF “DIGITAL VILLAGE” WASTE MANAGEMENT

Education, Training and Assistance Programs For The Digitalization of Waste Banks in The Pangandaran Area Through Integrated Applications





Easy Access to Find The Waste Bank

Digitalisasi ini memungkinkan masyarakat untuk lebih mudah menemukan Bank Sampah, sehingga masyarakat yang sudah memilah sampah dari rumah akan bisa menyalurkan sampahnya dengan tepat, tidak terbuang ke TPA.

Momentum to Build Environmental Awareness

Pengembangan bank sampah ini merupakan momentum awal dalam membina kesadaran kolektif masyarakat untuk mulai memilah, mendaur-ulang, dan memanfaatkan sampah.

Savings for daily needs

Sampah yang disetorkan akan di konversikan menjadi tabungan di akun masing-masing nasabah dan dapat digunakan untuk membeli/membayar kebutuhan sehari-hari seperti pulsa, token listrik, asuransi, dll secara online

ALTERNATIVE SOLUTIONS



Location :

Pangandaran Regency and Ciamis Regency

DIGITAL PLATFORM OF WASTE COLLECTION



- Platform online connecting recycle in source to off-takers / wastebank
- Operates in several cities in West Java**
- Already has **2700 Pelestari (users)**
- 1042 Checkpoint**
- 2 Collection Centre di Tunas Daur Ulang Padalarang (Namasindo) & Soekarno-Hatta Bandung (Octopus)



- Distribute anorganic waste from sources to waste bank
- Cooperate with Indonesia Scavengers association
- Operates in 3 cities



smash

- Distribute anorganic waste from sources to waste bank
- Operates in almost every cities that has waste bank



Capacity building & Com.Dev

Through communication, campaign, dissemination, education, environment cadre, dsb

Campaign such as HPSN, Earth day, etc



Commemoration of the National Waste Care Day (HPSN) which is held every year as a form of campaign to the community

Sosialization



Regular socialization to the community, one of which is through social media related to waste management

Program Kampung Iklim



PROKLIM is a climate change adaptation and mitigation action with **a pentahelix strategy** involving government, community, industry, academia, etc., **eco-village development, and waste bank development.**

Education



Conducted education through webinars or socialization for the community

Environmental management at site level

DESA BERBUDAYA LINGKUNGAN (ECOVILLAGE)

The villages which the peoples has awareness in environmental management to support the sustainability of life

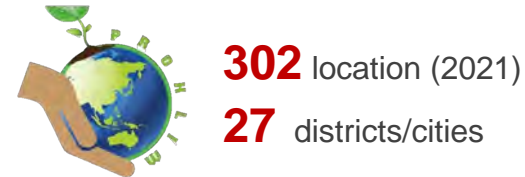


Household waste management



PROGRAM KAMPUNG IKLIM (CLIMATE VILLAGE)

The Program to encourage active participation of the community and all parties in implementing local actions to increase resilience to the impacts of climate change and reduction of GHG emissions.



Recycle Handycraft



compost and organic vegetable

WEST BANK DEVELOPMENT

Household waste management system (the smallest waste-producing unit) by giving rewards to those who succeed in sorting waste



12 Unit
Bank Sampah
Induk (BSI)



966 Unit
Bank Sampah
Unit (BSU)



Benefit: economic resilience through several programs such as:



Thank You.

Dinas Lingkungan Hidup Provinsi Jawa Barat

Jl. Kawalayaan Indah Raya No.6, Bandung - Jawa Barat, 40286