



DECENTRALIZATION WASTEWATER TREATMENT PLAN IN INDONESIA

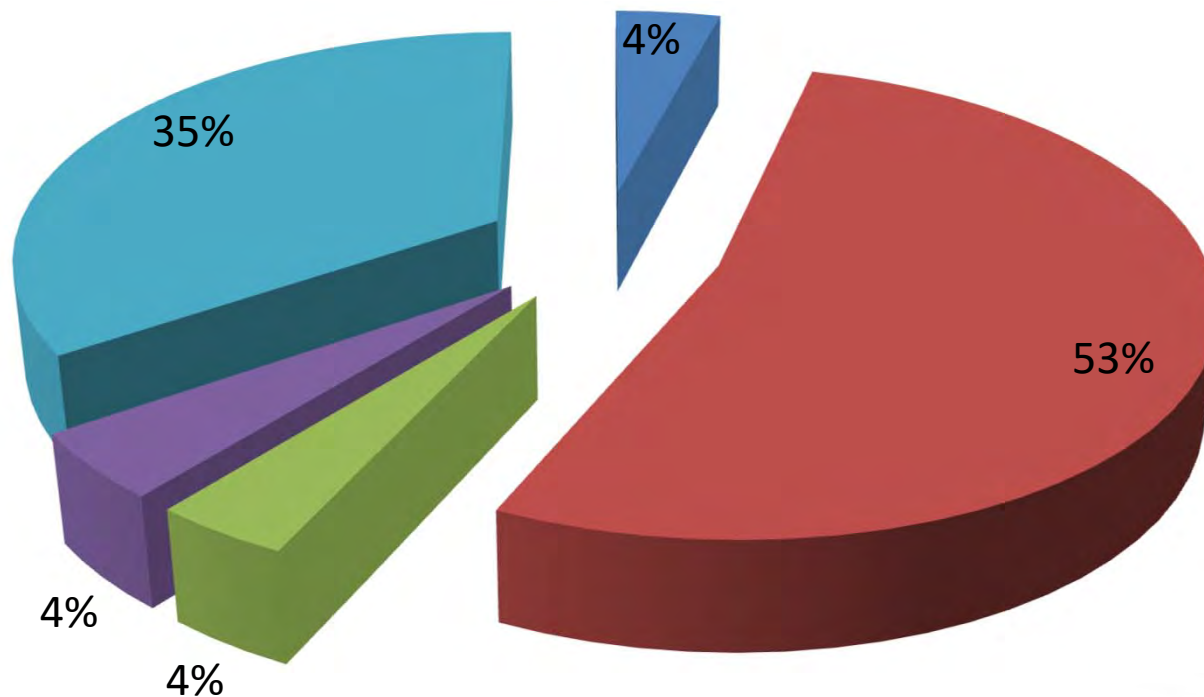


MINISTRY OF ENVIRONMENT AND FORESTRY REPUBLIC OF INDONESIA



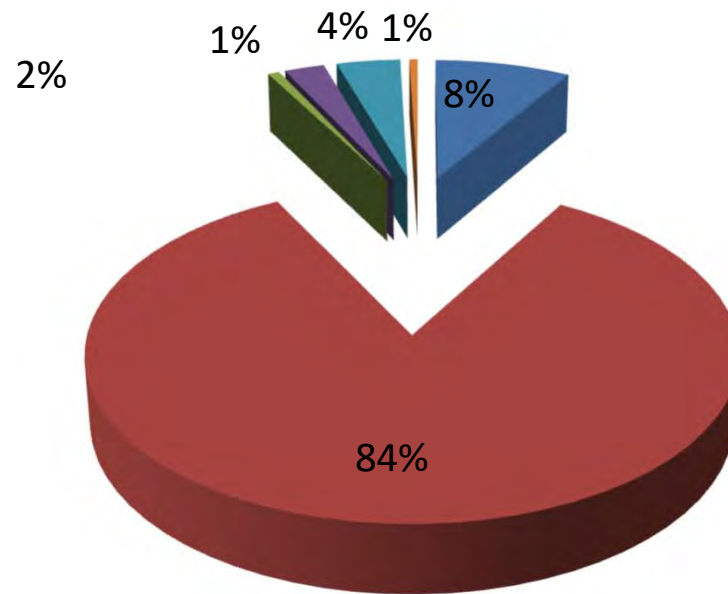
Sources of BOD in several important rivers in Indonesia-CILIWUNG

Industri Domestik Pasarana dan Jasa Pertanian Peternakan





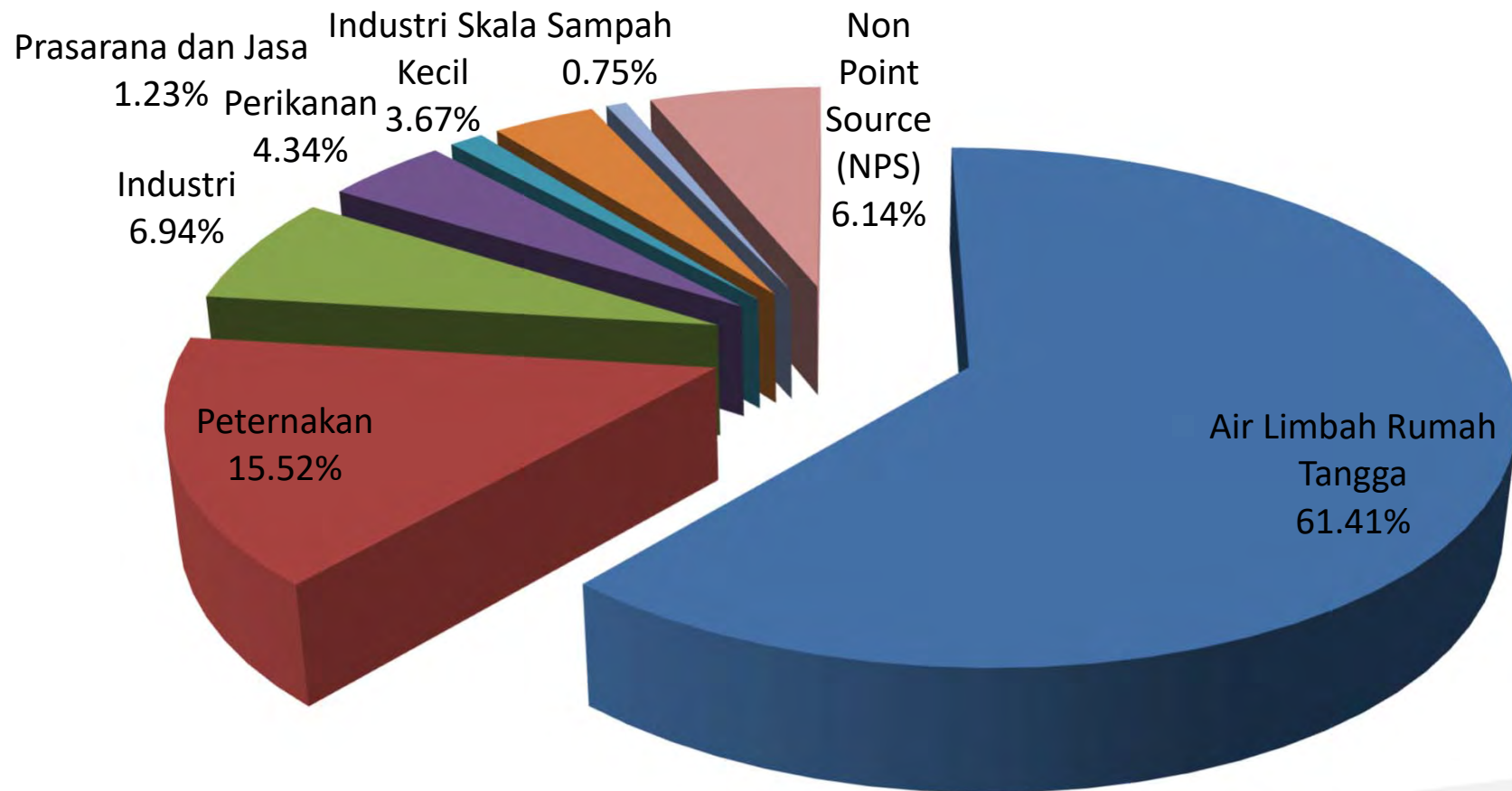
Sources of BOD in several important rivers in Indonesia-CISADANE



- Industri
- Domestik
- Prasarana dan Jasa
- Pertanian
- Peternakan
- Perikanan

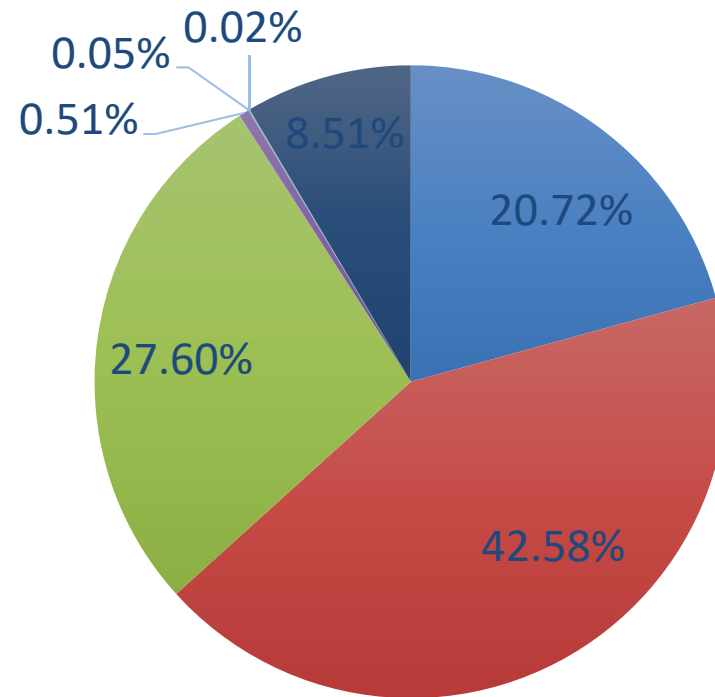


Sources of BOD in several important rivers in Indonesia-CITARUM





Sources of BOD in several important rivers in Indonesia- Bengawan Solo





Ministry of Environment and Forestry- Domestic Waste Regulation

- Law 32 year 2009 concerning Environmental Protection and Management
- Law 01 year 2011 on Housing and Settlement Areas
- Government Regulation Number 82 of 2001 concerning Management of Water Quality and Water Pollution Control
- Decree of Ministry of Environment 01 of 2010 concerning Management of Water Pollution Control
- Decree of Ministry of Environment No. 5 of 2014 concerning waste water quality standards
- Decree of Ministry of Environment and Forestry 68 of 2016 Domestic Waste Water Quality Standard

INDONESIA MEDIUM TERM DEVELOPMENT PLAN 2015-2019 → SDGs TARGET



PROGRAM*

100

0

100



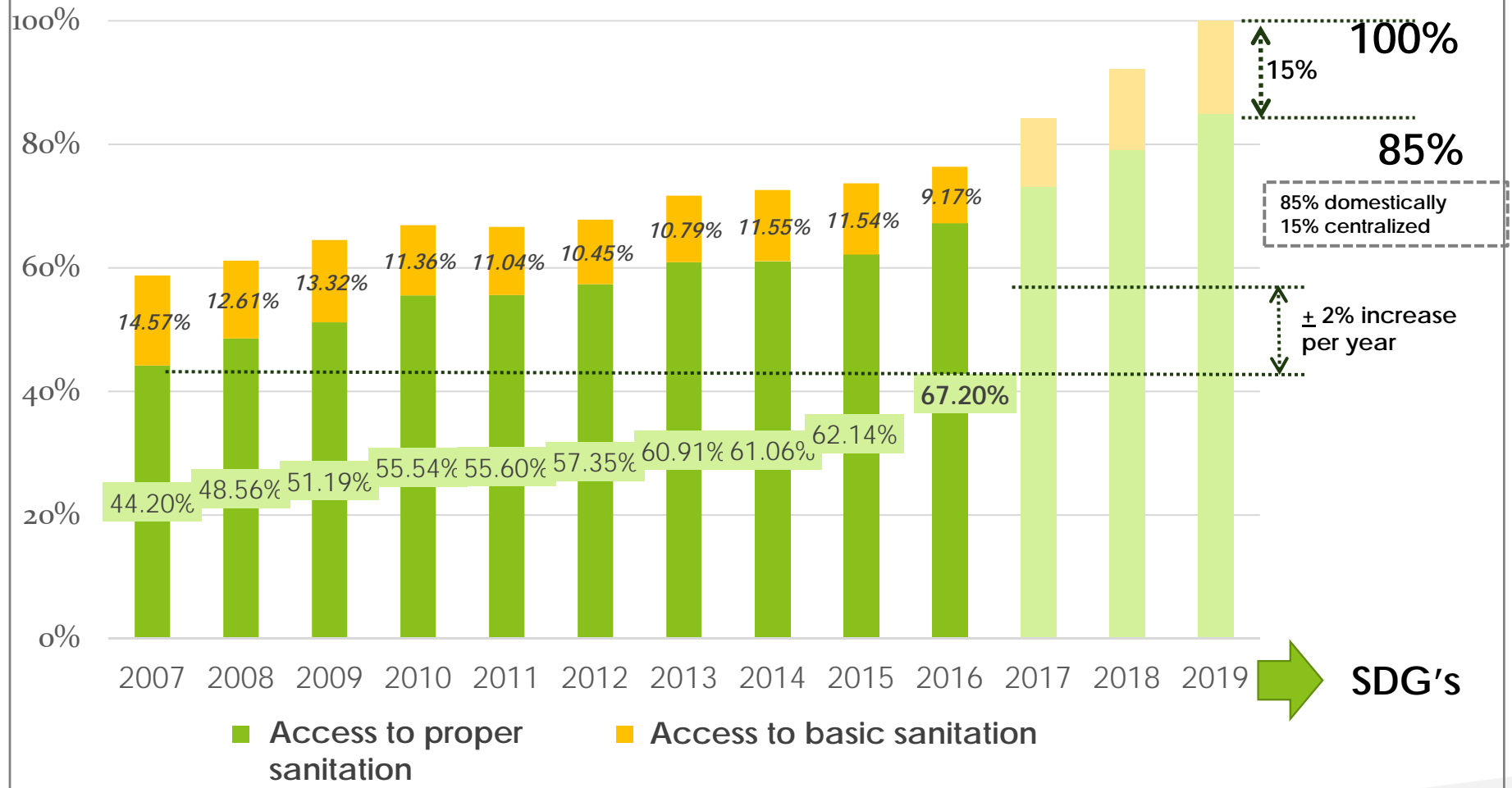
WATER ACCESS

SLUM AREA

SANITATION

*PROGRAM MINISTRY OF PUBLIC WORK AND HOUSING (PWH)

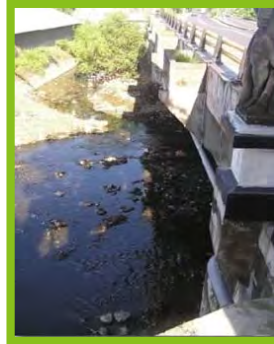
MEDIUM TERM DEVELOPMENT PLAN 2015-2019 To support Universal Access



Sanitary Development in Indonesia



MENGAPA AIR LIMBAH PERLU DIKELOLA?



75% sungai di Indonesia sudah tercemar



Potensi kerugian dapat mencapai 56 triliun rupiah per tahun



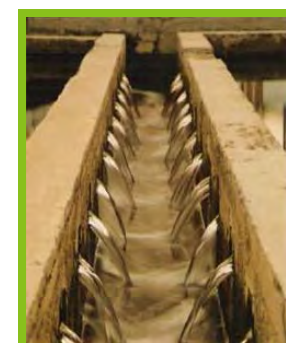
50 dari 1000 bayi meninggal karena diare



70% air tanah di Indonesia tercemar

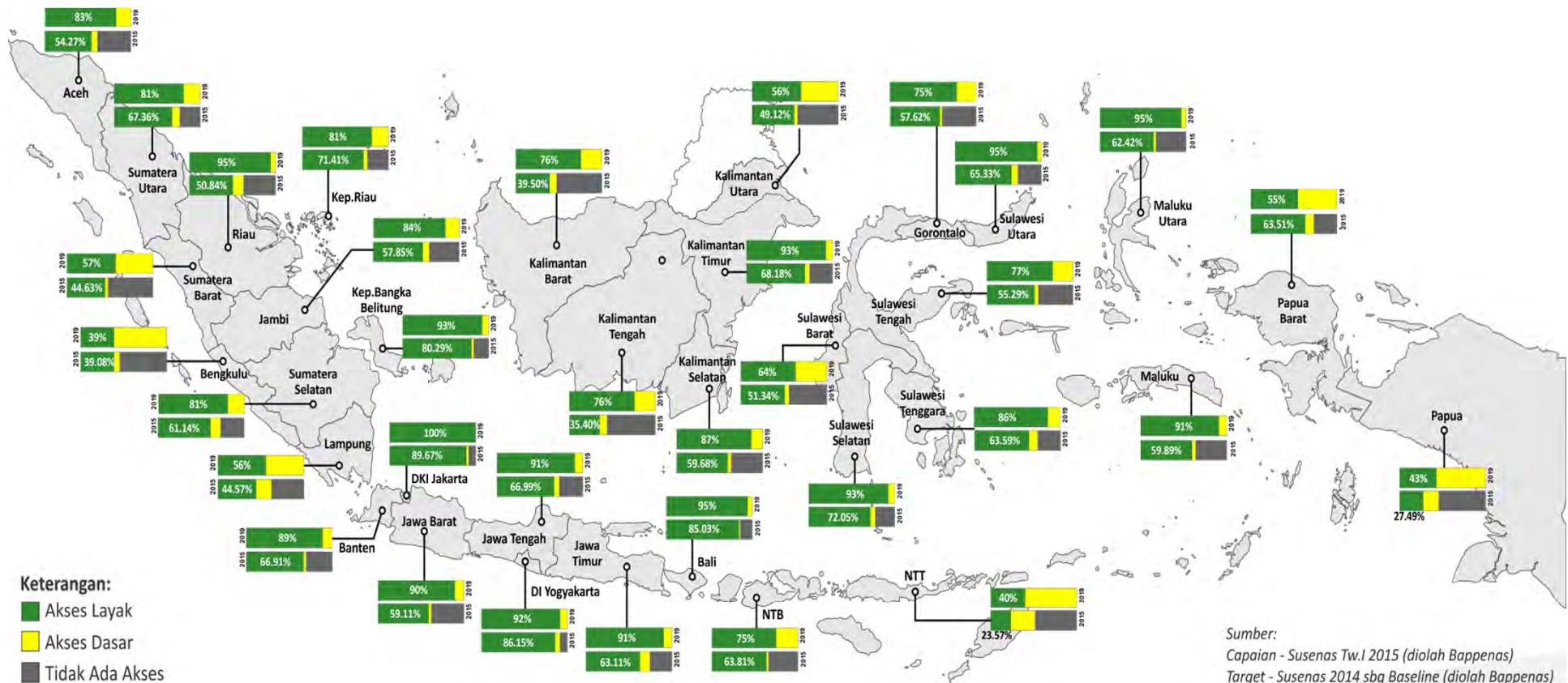


14.000 ton per hari tinja mencemari badan air

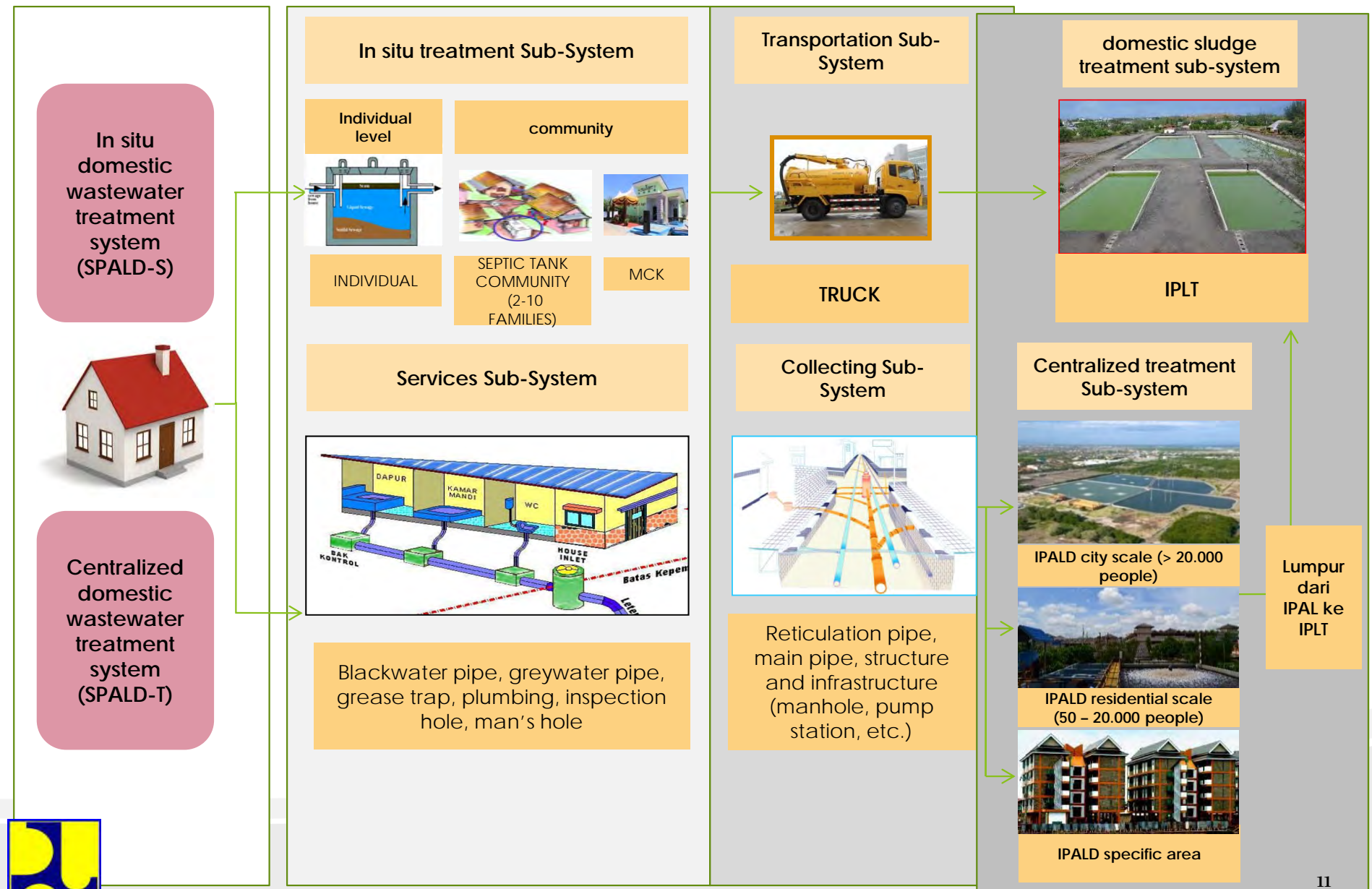


Masyarakat membayar 25% lebih mahal untuk air minum perpipaan

CAPAIAN SANITASI DAN TARGET AKSES UNIVERSAL PROVINSI



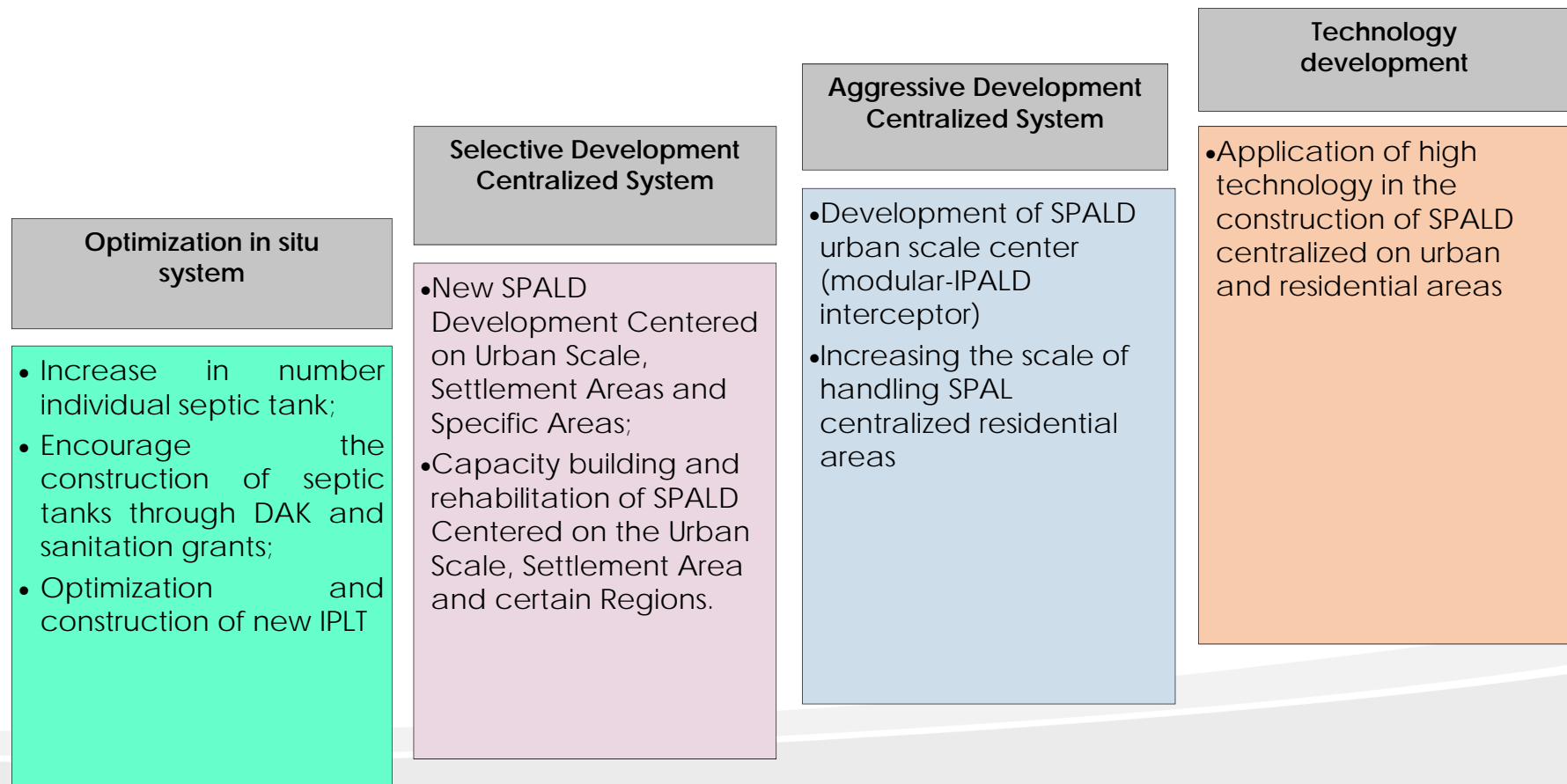
DOMESTIC WASTE TREATMENT SYSTEM according to Decree Of The Minister Of Public Work And People's Housing No.4 Year 2017



SYSTEM FOR DEVELOPMENT OF WASTE WATER MANAGEMENT



In implementing the management concept, strategies are implemented with a stepwise approach in order to achieve universal access to the wastewater sector, as follows:



Authority of the Central and Local Government in the domestic Wastewater Sector



Law 23/2014 on local government

Central government

- Determination of national SPALD development;
- Management and development of SPALD across provincial areas; and
- Management and development of SPALD for national strategic interests.

Provincial government

- Management and development of regional domestic wastewater systems (across districts / cities)

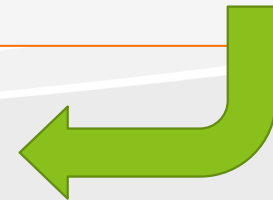
City/Regency

- Management and development of domestic wastewater systems in the Regency / City area

Central Government give support to Local government

- Preparation of Domestic Wastewater Management Master Plan Documents
- Preparation of DED Documents for IPALD and IPLT, conduct knowledge transfer
- Accompanying the operations of IPALD and IPLT
- Accompanying the formulation of regulations and establishment of institutions
- Accompanying the preparation and implementation of LLTT
- IPALD construction (min 150 SR)
- Construction and Rehabilitation of IPLT
- Community Empowerment Assistance

The Regional Government prepares and submit readiness criteria





Readiness Criteria

NO	CRITERIA	IMPLEMENTER
1	Local Government Interest Letter	Local government
2	Sanitation Prone Areas in the White Book	Local government /task force
3	Implementation of Community Awareness / Awareness Activities	Local government /task force
4	availability of the Master Plan / DED	Local government /task force
5	Land Availability	Local government /task force
6	Post-Construction Management Institution	Local government /task force
7	Letter of Willingness to Receive Grants	Mayor/regent

Existed integrated urban domestic wastewater treatment plant



City	number	System	Capacities	Idle
Medan	1	UASB	10.000	43,5 %
Parapat	1	Aerated Ponds	2000	94,25%
Batam	1	Oxidation Ditch	2.852	97,37%
Jakarta Zone 0	1	MBBR	38.880	98,19%
Tangerang	1	Aerated Ponds	2.800	94,74%
Bandung	1	Lagoons	80.835	0%
Cirebon	4	Lagoons	20.500	53%
Surakarta	3	Biofilter & Lagoons	14.000	56,38%
DI Yogyakarta	1	Aerated Ponds	15.500	64,5%
Denpasar & Badung	1	Aerated Ponds	51.000	37,2%
Balikpapan	1	Aerated Ponds	800	20%
Banjarmasin	7	RBC	18.000	85,55%
Manado	1	RBC	2.000	90%



Terima Kasih



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