**Presentation Material** 



# Role of PT SMI in Addressing Climate Finance for Indonesia's Infrastructure Development

Darwin Trisna Djajawinata Director of Finance and Operation PT Sarana Multi Infrastruktur (Persero)



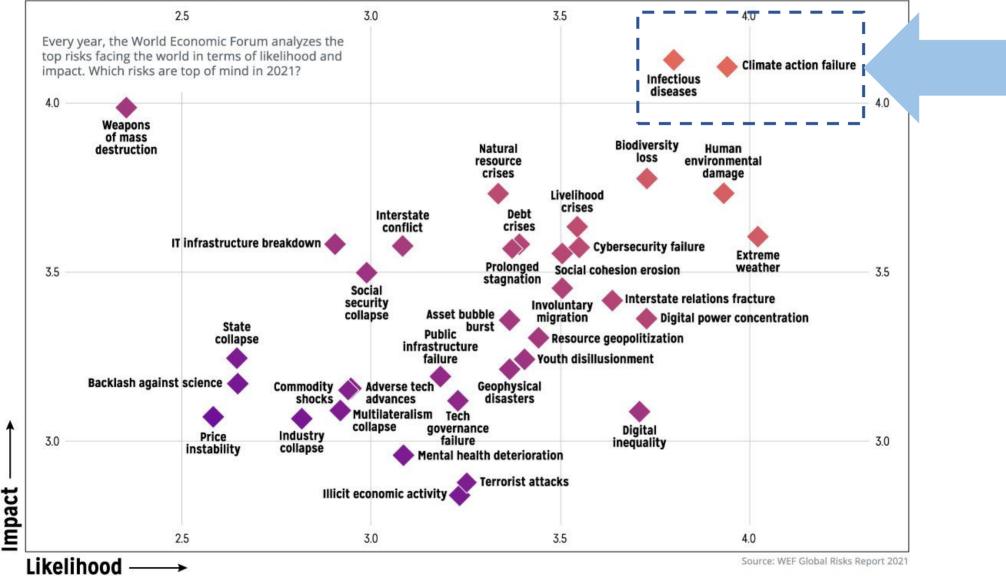
Jakarta August 2021

A leading catalyst in the acceleration on the national infrastructure development

#### **Climate Action Failure Along With Infectious Diseases Are The Top Of Mind Risks In 2021**



#### **2021 Global Risks Outlook**



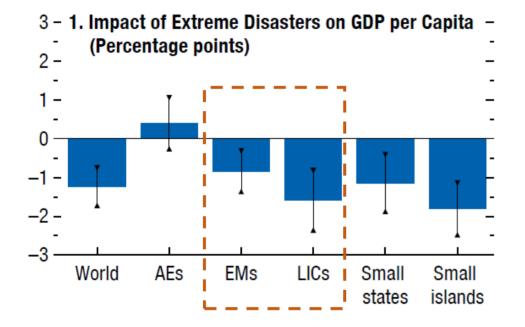
Sources : https://www.visualcapitalist.com/visualized-a-global-risk-assessment-of-2021-and-beyond/

# **Climate Action Failure Could Negatively Effect GDP Per Capita**

Emerging market (EMs) and low income countries (LICs) are more exposed to climate change costs than advanced economies (AEs)

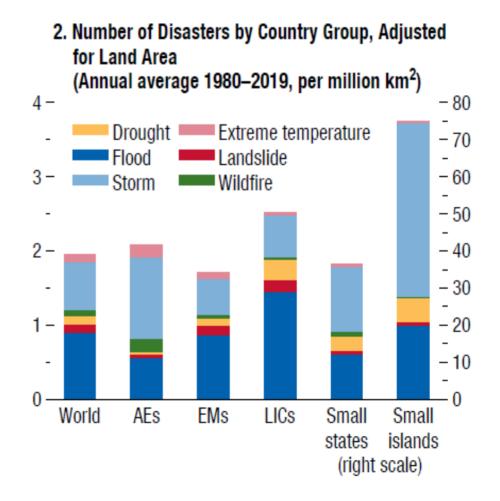
# PT SARAMA MULTI INFRASTRUKTUR (PERSERIO)

#### Heterogeneous Effects and Frequency of Weather-Related Natural Disasters



Sources : Sources: EM-DAT (Emergency Events Database); and IMF staff calculations.

Note: Error bars in panel 1 represent 90 percent confidence intervals. In panel 2, for each year, the number of disasters is added up and divided by the total land area of the country group, then averaged over years. Small states are defined as territories with land area under 30,000 square kilometers (for reference, Haiti is 27,750 square kilometers). AEs = advanced economies; EMs = emerging market economies; LICs = low-income countries.



## PT SMI's Concrete Steps to Support Climate Finance Projects in Indonesia



Strategic Direction of PT SMI's Climate Finance

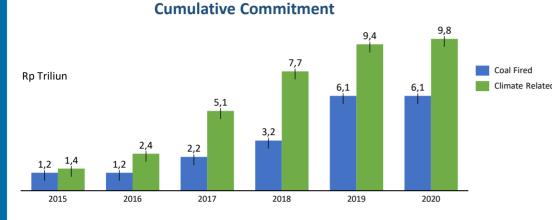
- 1. Making PT SMI's climate finance consistent with low emission, climate-resilient pathways
- 2. Taking steps to end finance for carbon-intensive fossil fuel based-energy
- 3. Mobilizing private sector climate finance, promoting climate PPP's, as well as project preparation
- 4. Scaling up international climate borrowings and enhancing the impact (through SDG Indonesia One)
- 5. Defining, measuring, and reporting PT SMI's climate finance

# Concrete Action of PT SMI's Climate Finance

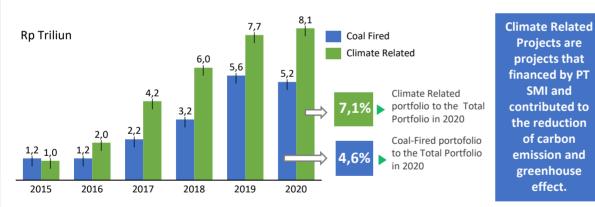


#### **Financing Commitment and Project Cost Coal-Fired vs Climate Related Projects\***

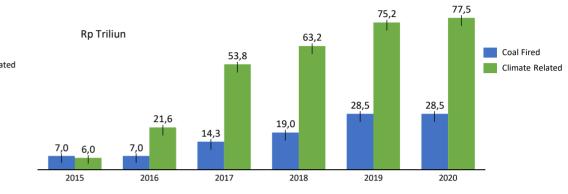




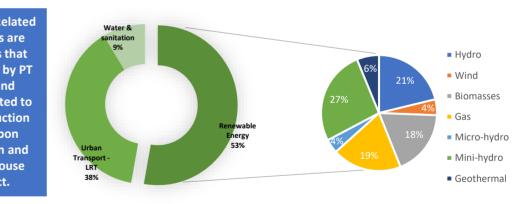
Active Commitment Portfolio by End of the Year



#### **Financed Project Cost**



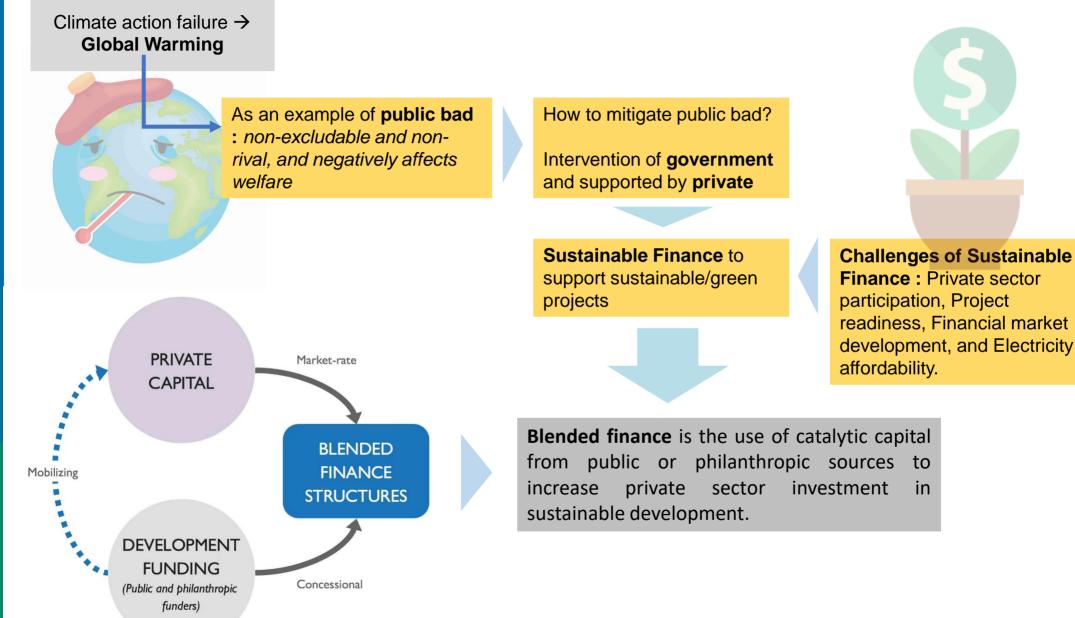
#### **Climate Related Projects Portfolio Breakdown in 2020**



- PT SMI is committed to support sustainable development. One of the way to achieve it is by implementing moratorium on financing electricity projects based ٠ on coal or coal fired power plant and switched to climate related project that contributes to the reduction of carbon emission and greenhouse effect.
- PT SMI's commitment to support sustainable development is reflected on climate related projects financing amounted to 7,1%, higher compared to coal-fired • of 4,6% from total financing commitment of Rp 113.3 trillion<sup>1</sup> in 2020.
- PT SMI has financed 31 climate related projects with total commitment of Rp9,8 trillion and project cost amounted to Rp77,5 trillion, significantly higher than • coal-fired projects with 9 projects and total commitment of Rp6,1 trillion and project cost amounted to Rp28,5 trillion

#### Framework : Climate Change Issue Must Be Resolved By Collaboration Between Government And Private

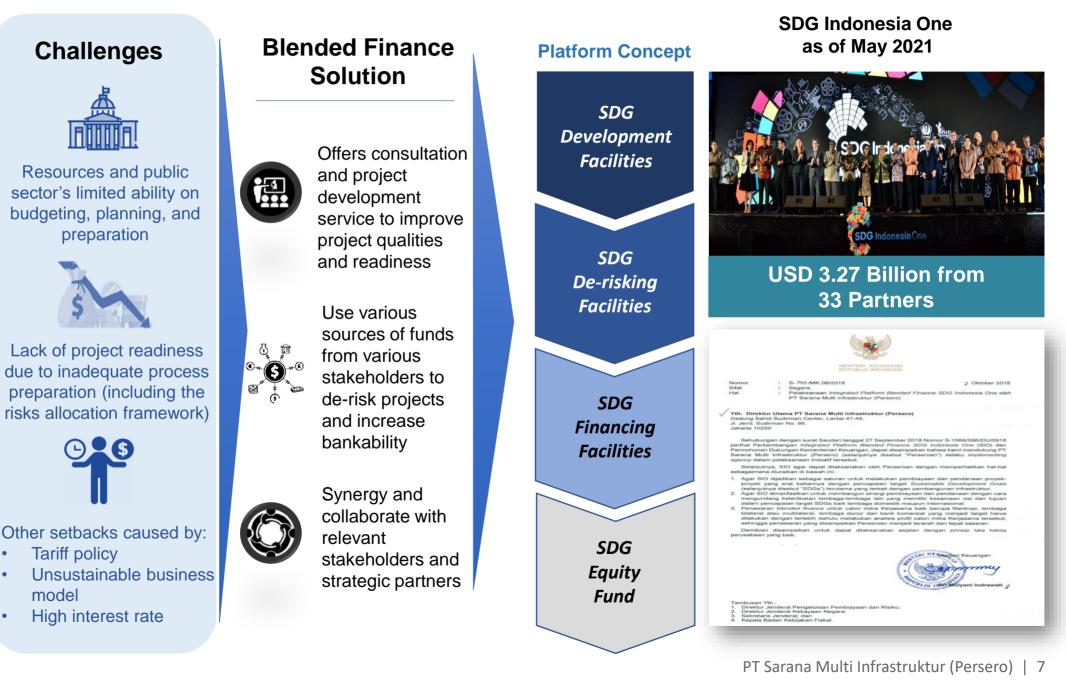




Sources : https://www.convergence.finance/blended-finance

# Sustainable Development Goals (SDG) Indonesia One -Blended Finance Platform: From the Concept to the Implementation





Case Study Blended Finance on Clean Energy Sector (Project Development): **Collaboration Between PT SMI and ClimateWorks Foundation** 

Grant for Feasibility Study in Solar Rooftop Airport

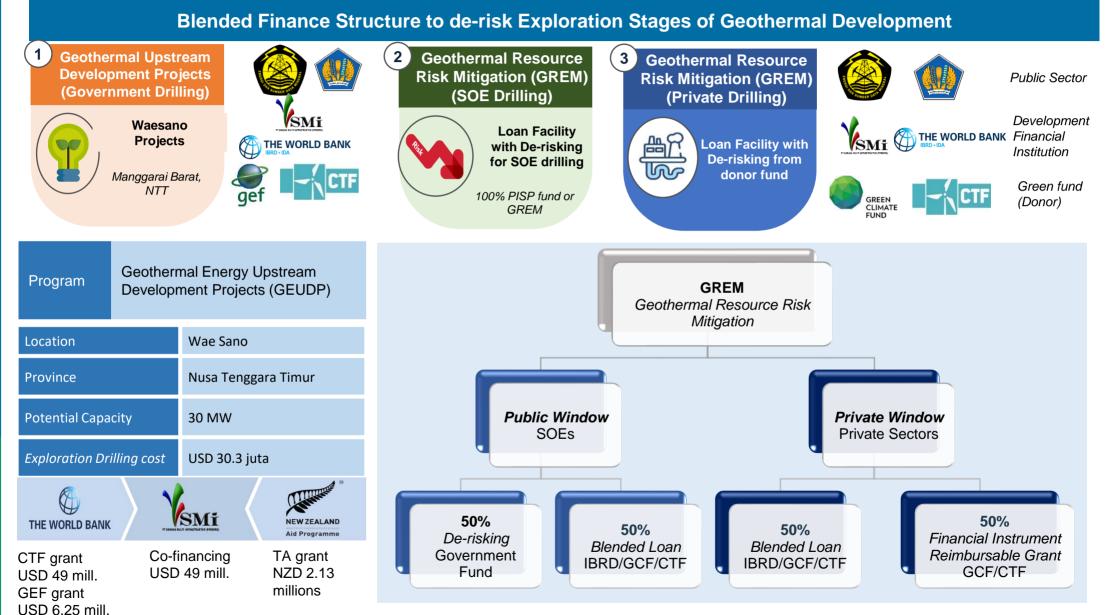




# Case Study Blended Finance on Clean Energy Sector (De-risking): Blended Finance Structure in Geothermal Sector

Collaboration of Public Sector, DFIs and Donors to de-risk projects





Case Study Blended Finance on Clean Energy Sector (Financing): Blended Finance Structure in Mini-Hydro Project

Collaboration of DFIs and Donors to de-risk projects

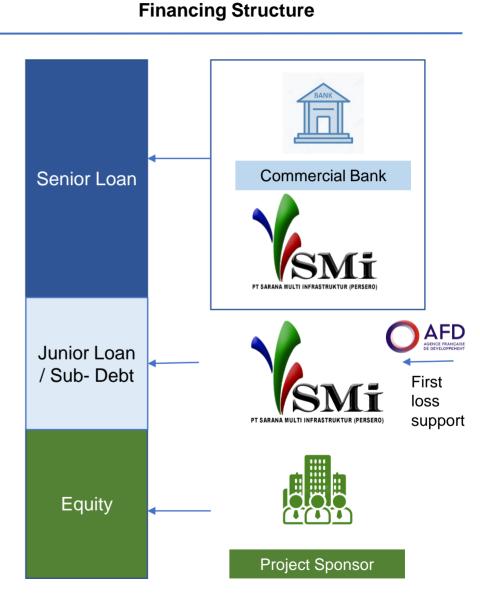


# Facility DetailsSectorElectricity – Renewable EnergyProject NameAir Putih Minihydro Power PlantLocationDesa Ladang Palembang, Kecamatan<br/>Lebong Utara, Provinsi BengkuluInstalled Capacity3 x 7 MW

Project Cost	IDR 670,870,000,000
Tenor	Senior Loan: 9 years Sub-debt: 12 years
Facilities	Senior Loan: IDR 140,000,000,000 Sub-debt: IDR 100,000,000,000







#### **PT SMI as Green Climate Fund Accredited Entity**

- Green Climate Fund (GCF) is a financial mechanism under the United Nations Framework Convention on Climate Change (UNFCCC) which was established in 2010.
- GCF invests in climate change mitigation and adaptation activities in developing countries through GCF's partners, known as Accredited Entities.
- PT SMI is one of GCF's Accredited Entity, the Accreditation Master Agreement between PT SMI and GCF was signed on 28 April 2017.
- As Accredited Entity, PT SMI submits proposals to receive funding from GCF through the following facilities:

Facility	Project Preparation Facility (PPF)	Funding Proposal (FP)		
Instrument	Grant	Grant, loan		
Function	Project preparation	Project implementation		
Amount	Max. USD 1.5 million/project	Max. total project cost USD 50 million		
Description	Project prepared by the PPF grant is expected to submit Funding Proposal within 2 years of the project preparation	Project which does not need PPF support can directly submit the Funding Proposal		



All proposal require No Objection Letter (NOL) from Fiscal Policy Agency Ministry of Finance as NDA GCF Indonesia



#### **PT SMI's Approved GCF Project:**

**Project Preparation Facility for Integrated Sustainable Bus Rapid Transit Development in Semarang** 



#### Project Overview:

Bus Rapid Tran	sit in Semarang, Central Java
Project Owner	: City Government of Semarang
Estimated total project cost	: ± Rp 1200 billion
Estimated corridor length	: ± 13 km
Project Preparation Cost	: USD 788,000 (GCF) + USD 300,000 (GIZ)
Project Preparation Source of Fund	: Green Climate Fund and GIZ SUTRI NAMA – INDOBUS

#### **PPF Scope:**

No	Activity	PT SMI (GCF)	SUTRI NAMA – INDOBUS (GIZ)
1	Pre-Feasibility Study		$\overline{\checkmark}$
2	Feasibility Study	$\checkmark$	
3	Legal and Regulation Study		$\checkmark$
4	ESIA	$\checkmark$	
5	Gender Assessment		$\overline{\checkmark}$
6	Risk Assessment		$\overline{\checkmark}$
7	Stakeholder Management		$\checkmark$





GREEN CLIMATE FUND

KOTA SEMARANG

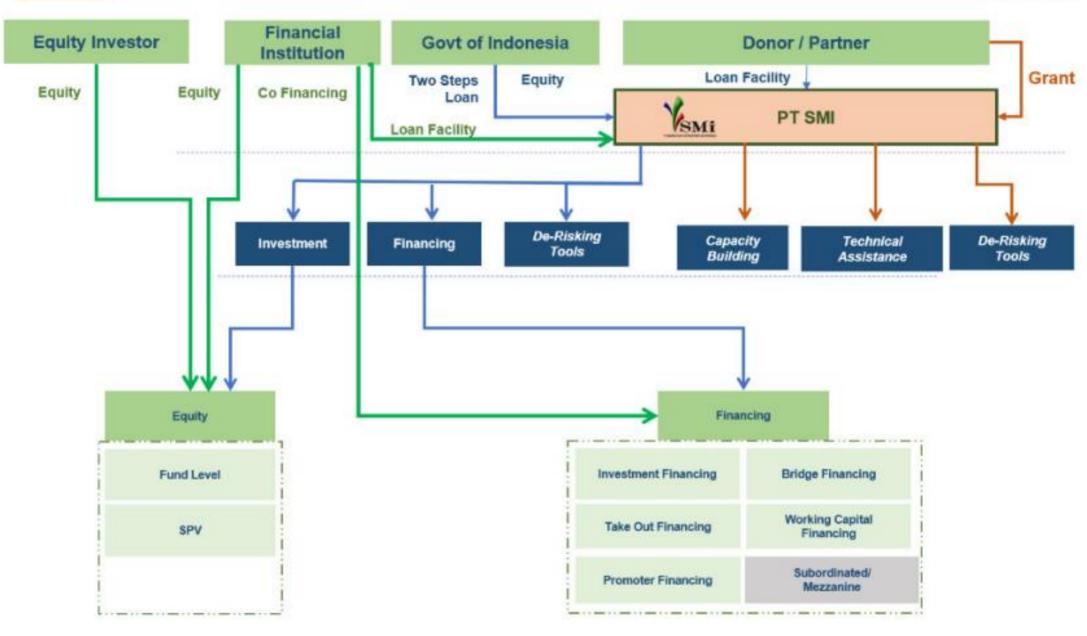
UNOPS

#### **PPF Implementation Timeline:**

March 2018	November 2018	April 2019	September 2019	January 2020	September 2020	December 2020
PPF Proposal Submission	PPF Approval	Signing Grant Support Agreement	Start of FS study	Start of ESIA	End of FS	End of ESIA End of PPF Implementa

### **Potential Collaboration**









# Thank you.

#### PT Sarana Multi Infrastruktur (Persero)

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