



# Transitioning Jababeka Toward Net Zero Industrial Estate

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Decarbonization Initiatives and Solutions for Industry

By :

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# B20 ENERGY, SUSTAINABILITY & CLIMATE TASKFORCE: CHAIR, CO-CHAIRS, POLICY MANAGER AND PARTNERS

## Chair



Nicke Widyawati



## Deputy Chair



Agung Wicaksono



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## Policy Manager



Oki Muraza



## Co-Chairs



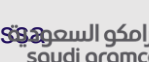
Paddy Padmanathan



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Mohammed Y. Al Qahtani



Jean-Pierre Clamadiou



Febriany Eddy



Gianfranco Casati



Ma Yongsheng

## Knowledge Partner



## Network Partners



WORLD RESOURCES INSTITUTE

# **Aligned with G20 Priorities,** B20 Energy, Sustainability, and Climate Task Force currently proposes 3 Policy Recommendations

## Role of Business in Energy Transitions



Access



Technology



Financing



## B20 Policy Recommendation House

### Energy, Sustainability, and Climate (ESC)

1



**Accelerating Sustainable Energy Use**

- Energy Efficiency
- Renewable Energy
- Alternative Fuels
- Financing Platform
- Taxonomy & Reporting
- Climate Innovation

2



**Ensuring Just & Affordable Transition**

- Orderly Transition (e.g., transition fuels)
- Human Capital Transition
- MSMEs Business Participation
- Sustainable Mining for Essential Minerals

3



**Enhancing Energy Security**

- Decentralized, Off-grid Generation
- Grid Expansion & Strengthening
- Household & MSME Clean Energy Adoption
- Broad Basing of Transition



**Global cooperation** across developed and developing countries



# THE RENEWABLE ENERGY ZONE OPPORTUNITY

There is a key opportunity to invest and execute large scale clean energy projects in Indonesia, leveraging them for repurposed coal power plants, interconnected projects and Industrial Clusters

## Renewable Energy Zones

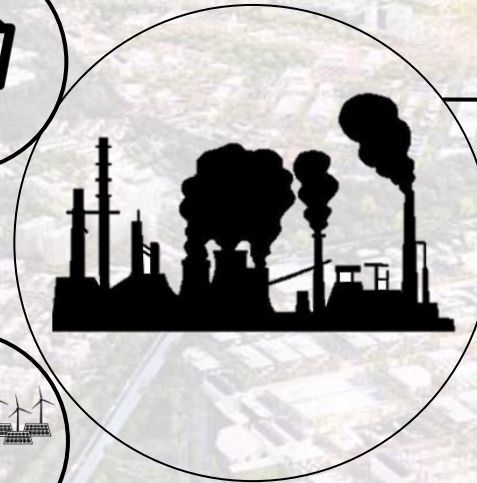
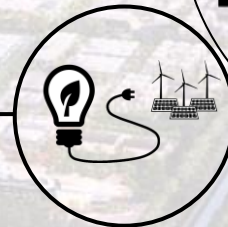
Large scale renewable energy projects (e.g., >500 MW)

### Repurposing Coal Power Plants

- Repurposing **coal power** plants that are being **decommissioned** into **renewable** energy projects
- **Repurposing** coal power plants rather than building a renewable energy project from scratch present **several benefits**, including leveraging existing land, interconnection, workforce and parts of the equipment (e.g., synchronous condenser, substation)

### Interconnected Renewable Energy

- Building large scale renewable projects **together with interconnections** (domestic cross-island or international) as one integrated project
- The renewable energy can be either **consumed in Indonesia** or **exported to neighboring countries** (e.g., to Singapore through the recently issued by Singapore's Energy Markets Authority RFP for renewable energy imports)



### Industrial Cluster

- **Decarbonizing Industrial Clusters** by building out renewable energy projects which **are co-located and can supply off-takers directly**
- The renewable energy can be sold through **direct Power Purchase Agreements** to the companies that **are part of the Industrial Cluster** and does not necessary require third party access to the grid





JABABEKA & CO.

*Creating New Cities*

# JABABEKA INDUSTRIAL ESTATE

## The Largest & Smartest Industrial Estate in Southeast Asia



\* President University, ATMI, ITS, etc





# CORRECTIO at Jababeka as *'The Next Silicon Valley'* in Indonesia



collaboration

Jababeka Infrastruktur





# CORRECTIO

Connect, Collaborate & Grow!

## 3 Pillars of CORRECTIO



Industry 4.0



Society 5.0



TOD



TOD



FabLab



Data Center Hub



Business Park



Jababeka Circle



Smart Manufacturing Hub



## Smart City Implementation



Energy Saving  
District Cooling System



Renewable Energy  
Solar Panel



Green Environment  
Urban Farming



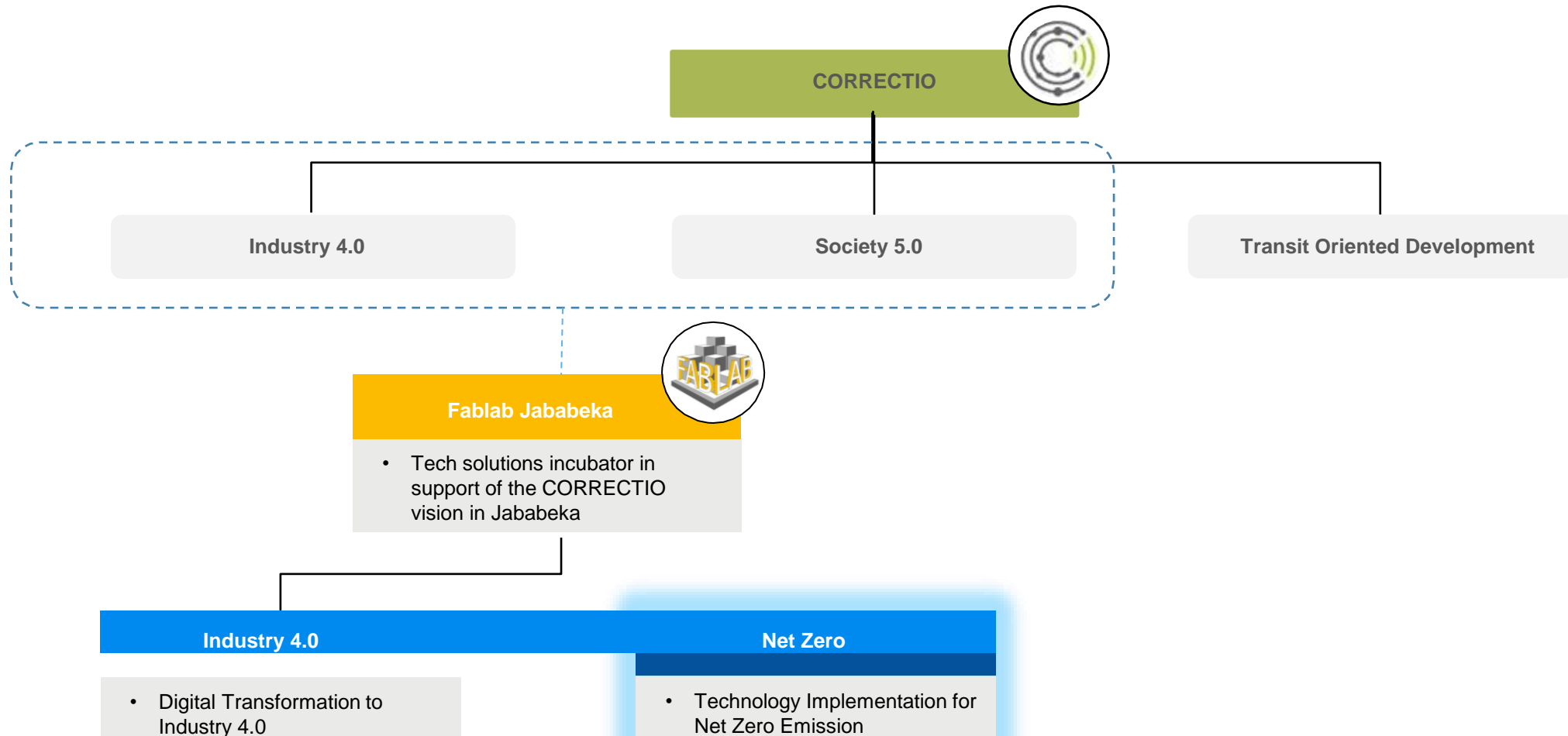
Smart Secure  
Command Center

60+ Ha Development Area



# FABLAB JABABEKA: ITS ROLE TOWARD NET ZERO

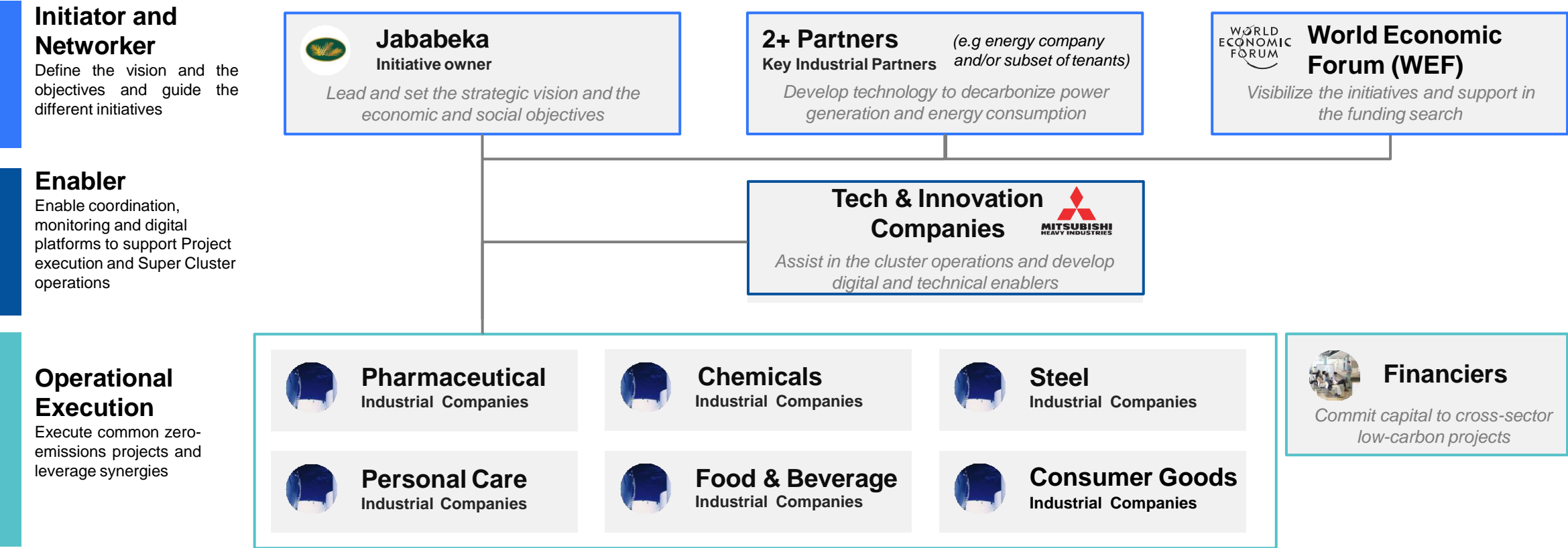
To better leverage on synergies with Jababeka's CORRECTIO vision, FabLab Jababeka would play a leading role for implementing the WEF Net Zero Industrial Cluster initiative





# TOWARDS **NET ZERO** INDUSTRIAL CLUSTER: CONCEPTUAL MODEL

## JABABEKA INDUSTRIAL CLUSTER



## STARTING REAL ACTION TOWARD **NET ZERO EMISSION**



Enabling District Cooling System (DCS) at Jababeka's Correctio to further support the Net Zero Emission



Implementation of Green Industrial Cluster Development through Solar Panel utilization in Jababeka office buildings





THANK YOU

**B20**  
INDONESIA  
2022 **BUSINESS**

JAKARTA, 29 SEPTEMBER 2022