

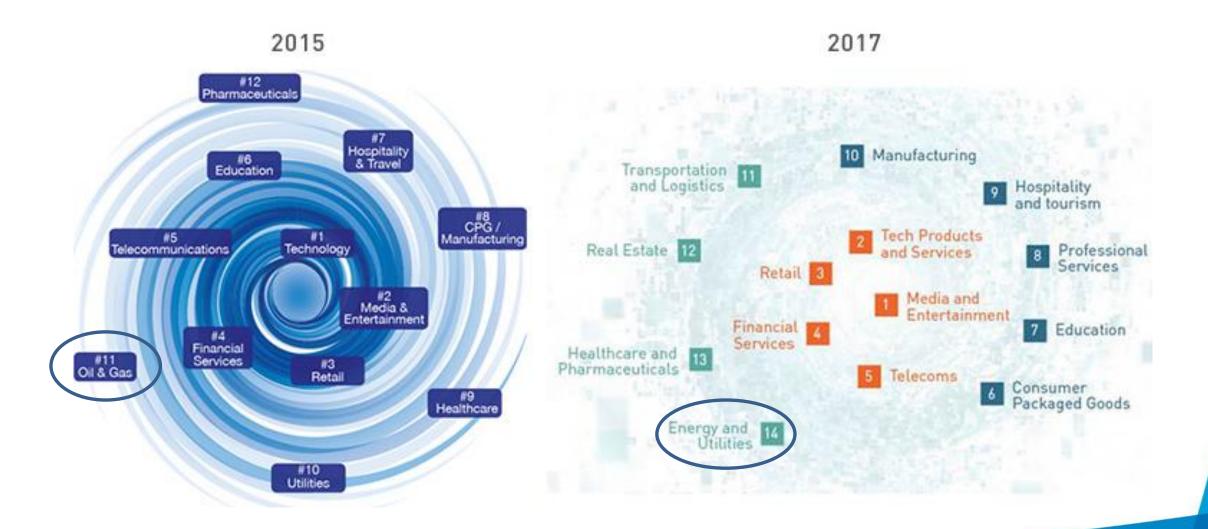
# **Akaraphong Dayananda**

Roundtable Discussion 2018



# The digital vortex

Digital vortex implies the disruption that industries face from digital transformation.



Source: https://www.imd.org

## The Emerging Trends in Energy



Clean energy regulation



Low tolerance for supply risks



Revolution in digital interconnectivity

**Energy Sustainability** 

Affordable, reliable, eco-friendly

### **Our Responses – Evolving thru Time**

### BANPU 2020: GREENER, SMARTER



Renewable energy: >20% of Banpu's power portfolio Gas: new business, starting upstream, North America



### Smart energy:

integrated solutions: decentralized renewables, storage, IT Greener

**Smarter** 

High efficiency, low emissions:

focus for all new conventional power investment

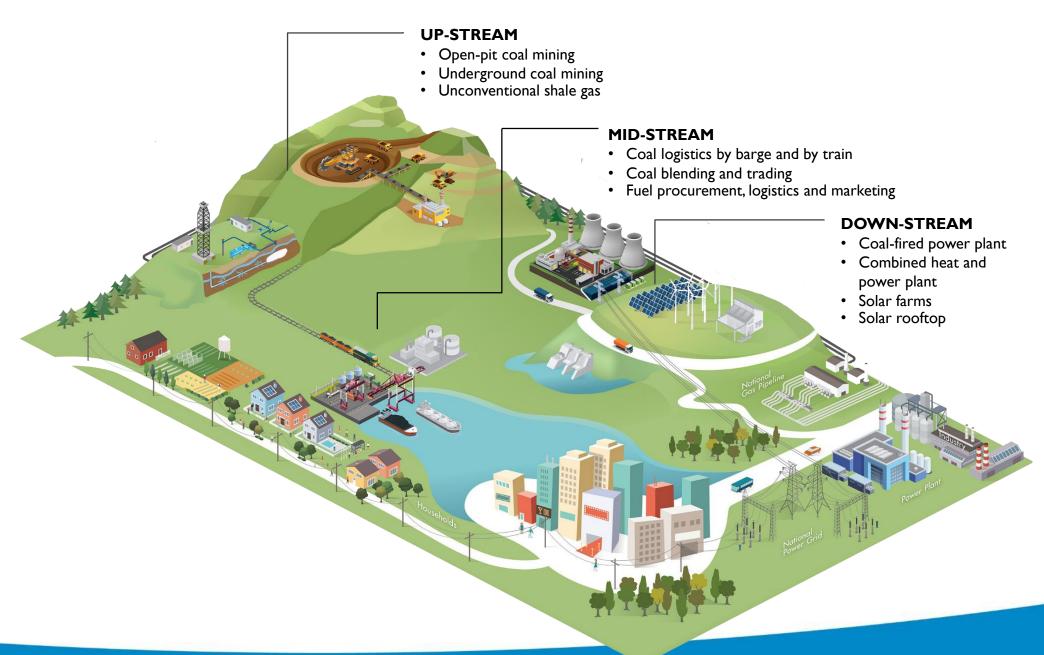


Financial engineering:

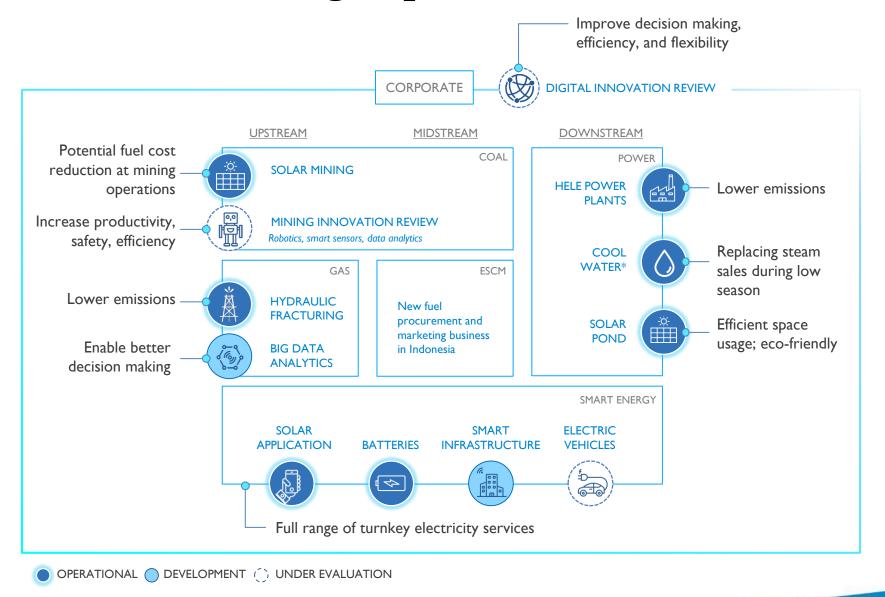
RO, power IPO, fund and venture structures Logistics: leverage and synergize Banpu's regional footprint – supply chain management



### **Synergy focus: integrated energy solutions**

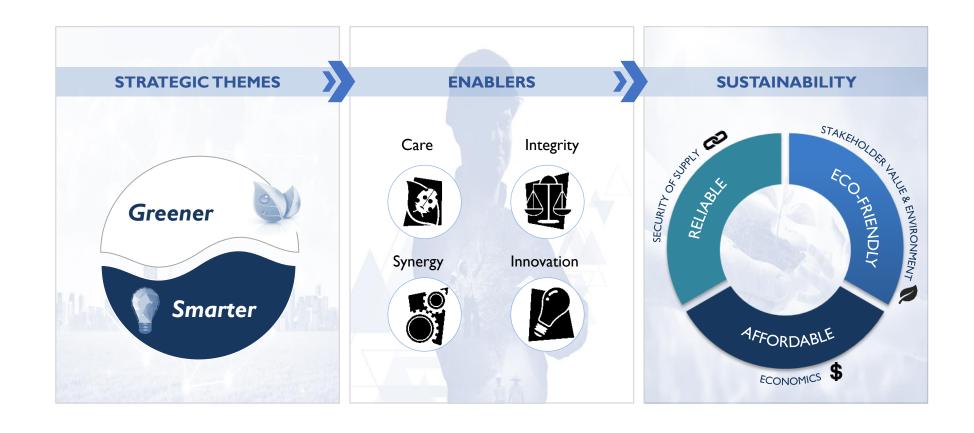


### Innovation focus: group initiatives so far



Note: \* At Zhengding CHP

## Banpu: transition to greater sustainability



# Balanced sustainability: Reliable, Affordable, **Eco-friend strategy**





Diverse equity coal specs,

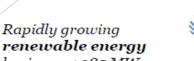
SECURITY OF SECURI blending capabilities and 3rd party traded coal to meet all customer needs



extensive marketing network throughout

Asia-Pacific

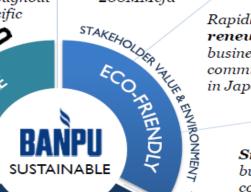
Development of lower-emissions gas portfolio: 200MMcfd



business: +385 MW committed solar capacity in Japan and China



Developing new synergistic supply chain businesses in fuels, gas and bio-energy



Smart energy

business: 97 MW committed solar rooftop capacity in SEA and India





**AFFORDABLE** 

Coal mining and HELE coal-fired power still have cost advantage vs RE and LNG

\$ ECONOMICS

Coal and CFP

remain core engine of energy supply and cashflow at Banpu



Focus on cost rationalization and control at all mines and power operations











The Company has been selected as a member of Dow Jones Sustainability Indices (DJSI) for the fourth consecutive year

Dow Jones
Sustainability Indices
In Collaboration with RobecoSAM

The Company remains the Gold Class 2018 in the Coal & Consumable Fuels sector on Robeco Sustainable Asset Management (RobecoSAM) Sustainability Award.



The Company remains the Industry Mover 2018 in Coal & Consumable Fuels sector on Robeco Sustainable Asset Management (RobecoSAM) Sustainability Award.





The Company was listed as one of the companies in Thailand Sustainability Investment list by the Stock Exchange of Thailand (SET) for the third consecutive year



The Company was awarded the Sustainability Awards of Honor from the Stock Exchange of Thailand (SET)

# BANPU INTEGRATED ENERGY SOLUTIONS

ธุรกิจด้านพลังงานแบบครบวงจร



# Vision

The Asian energy company at the heart of innovation, technology, and sustainability



# Mission

- Build sustainable value for all our stakeholders as a trusted partner, with emphasis on care for the earth and society
- Promote innovation, synergy, sustainability, and integration across the energy supply chain, between conventional and new energy technologies
- Foster our corporate values, operational excellence, and uphold Banpu's reputation for integrity, professionalism and best practices