

Afforest, get more than just trees
Reforestation and Ecology Institute, PTT Public Company Limited



POWERING LIFE
with **FUTURE ENERGY** and **BEYOND**
ขับเคลื่อนทุกชีวิตด้วยพลังแห่งอนาคต



Upstream
Petroleum
and Natural Gas
Business Group



Downstream
Petroleum
Business Group

PTT Public Company Limited
Bangkok, Thailand

A national energy company established in December 1978 as Petroleum Authority of Thailand to ensure national energy security.

- Operates under the oversight of the Thai Ministry of Finance and the Ministry of Energy
- Has been listed on the Stock Exchange of Thailand since 2001

PTT Group's Value Chain

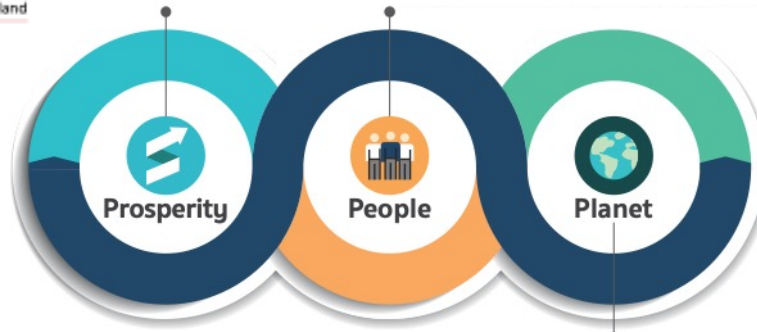
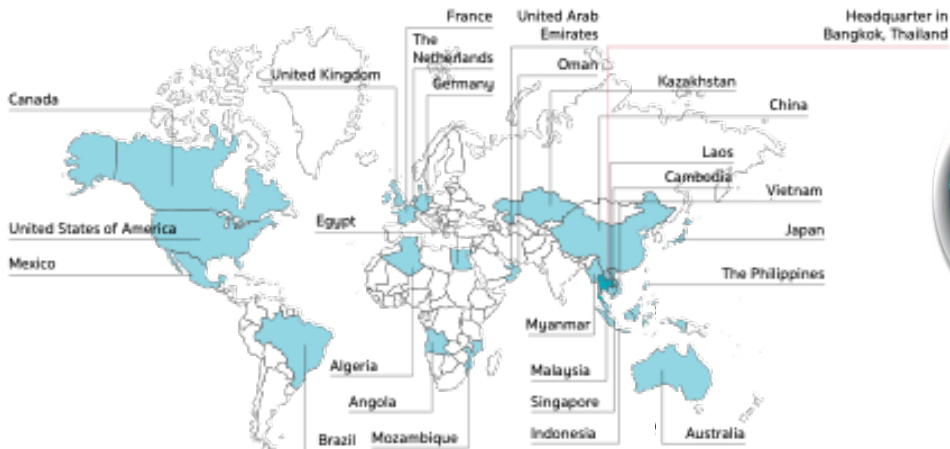
- Petroleum Exploration and Production Business – PTTEP
- Natural Gas Business
- Coal Business – PTTER, PTTGM
- International Trading Business
- Petrochemical and Refining Business – PTTGC, TOP, IRPC, PTT Tank
- Oil and Retail Business – PTTOR
- Research and Development – GPSC
- Real Estate Management – GPSC
- Office Space and Infrastructure – EnCo
- Technical Advisory Services – PTTES
- IT and Communications – PTT Digital

GODJI FAMILY



Strategic Direction
Sustainable Growth for All

PTT invests in businesses in 26 countries globally



OUR JOURNEY TOWARDS SUSTAINABLE GROWTH FOR ALL

SINCE 1994 Reforestation → Knowledge Sharing → Collaborative Expansion



PTT Reforestation and Ecosystem Institute

"Create sustainability through conservation of natural resources and the environment to benefit the well-being of Thai people"



1994

The beginning of 1 Million Rai* Reforestation Project

The Cabinet approved the Royal Forest Department to operate "The Permanent Reforestation Project in Honor of His Majesty the late King Rama IX" to restore forests across the country on 5 million rai of land, in which PTT volunteered to run the project on 1 million rai.

*1 million rai = 160,000 hectare



Continuously support trainings for 'Forest Protection Volunteer' for sustainable forest preservation.

1997



1 Million Seedlings Project



2013



Metro Forest Learning Centre



Wangchan Forest Learning Centre

2015



Sirinart Rajini Mangrove Ecosystem Learning Centre

2004

2002



Completion of the 1 Million Rai Reforestation Project in honour of His Majesty the King Rama IX

- Covered 56 provinces across Thailand
- 573 sites
- 1,012,401 Rai (161,984.2 hectare)



Total forest area: 1,167,263 rai (186,762.1 hectare)
CO₂ Absorption: 36.49 MtCO₂/year
Forest Value: 280,654,442 THB/year

2020



Increasing urban green spaces and community engagements



Giving Forest to the Urban Society



Over the past years, PTT has achieved its target on the Reforestation Project of 1 Million Rai (160,000 hectare) in different regions across Thailand.

However, what we have not done, and it is very close to us is *“giving forest to the people of Bangkok”*.

Dr. Pailin Chuchottaworn
(CEO of PTT 2011 – 2015)



NONTHABURI

BANGKOK

COMMERCIAL CBD

SITE

SUARNABHUMI AIRPORT

SAMUT PRAKAN

Shop

Restaurant

Restaurant

Shop

157 m

Community Residence

113.5 m

Area of 12 Rai
(1.92 hectare)

117 m

Private Company

188 m

Restaurant

Shop

Community Residence

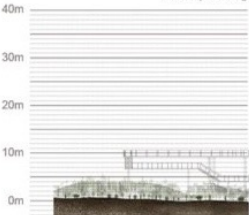
From **Dumpsite** to **FOREST**



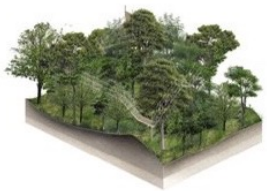
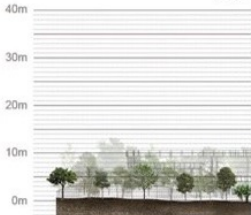
Earthwork progression



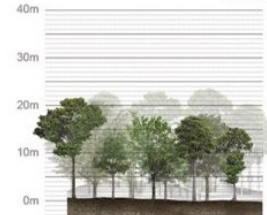
After planting



3 Year



10 Year



7th Year

2013

2014

2015

2017

NOW



Pre-development condition



A full year grown forest



Green Roof: heat absorbing mechanism on the roof where green patches are real plants



The Nature Trail where visitors can closely and safely experience nature



Rammed Earth Wall: the seed exhibition in this area collects seeds from several kinds of plants



The Exhibition Building presents various lessons on nature and development of the city community from past to present

The Observation Tower at 23 meters tall with a 360 degrees view



The 'Skywalk' enhances learning on forest structure along with new perspective in experiencing forest





Creating a Hub for BIODIVERSITY

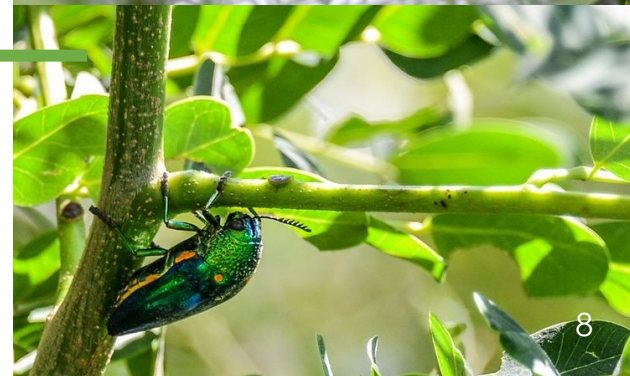
Mixed Forest Community

≈ 60,000 trees of 279 unique species

- Evergreen Forest Plants
- Marginal Plants
- Mixed Deciduous Plants
- Brackish Plants

Animal Habitat

- Amphibians
- Birds
- Insects
- Reptiles





Interest-based Learning
to raise awareness on nature
and the environment



Monthly Activities
game and knowledge sharing camp
for visitors of all age and gender



Metro Forest Research
Ecosystem and biodiversity in
species of plant, insect, and wildlife



Community Engagement
through various enterprise to create
well-being for the community



GET MORE THAN
JUST TREES

An aerial photograph showing a dense urban forest. A wooden walkway with railings winds through the trees. In the background, there are various buildings, including a large white multi-story building and several smaller houses with colorful roofs. The city skyline is visible in the far distance under a clear sky.

URBAN FOREST MADE POSSIBLE

Forest For Chance

A Sandbox Project

- ❖ Fully integrated one-stop planting service
- ❖ On any type of land
- ❖ Tailor-made forest according to customers' needs:
 - Eco-forest
 - Economic timber
 - Fruit bearing trees
 - Medicinal/herbal plants, etc.





Macro Scale

Field-based Practice
(PTT 1 Million Rai)

- Know-hows
- Resources
- Networks
- Technology
- Management
- Services



Project Scale

Inspiration
(Metro Forest)

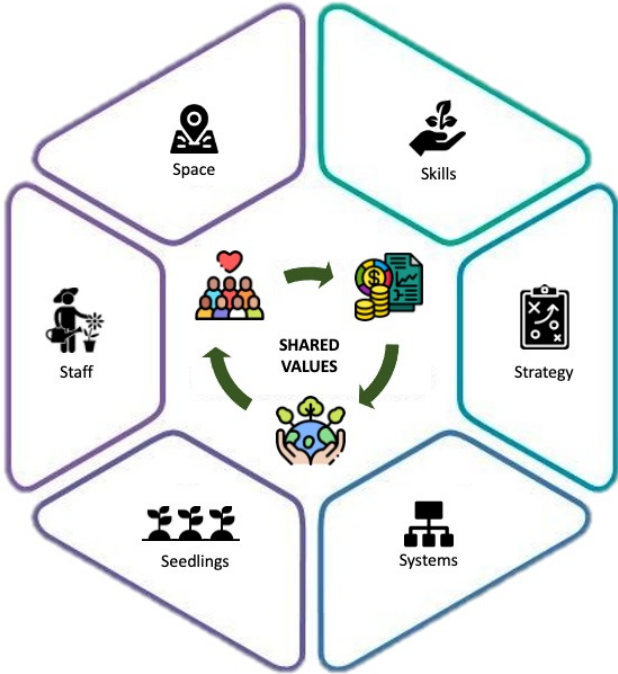
- Research
- Innovation
- Evaluation
- Scalability
- Standardization



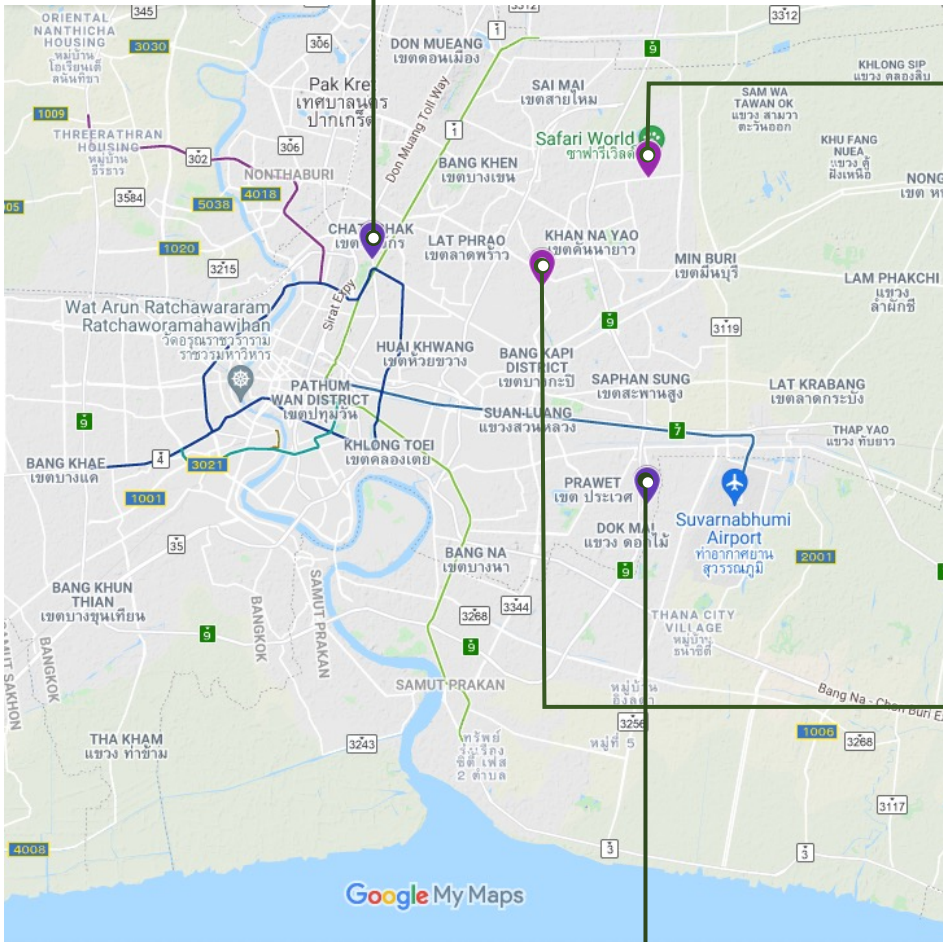
Micro Scale

Implementation
(Forest for Chance)

- Community's involvement
- Stakeholders' contribution
- Environmental preservation
- Economic enhancement



PTT Headquarter Office
Chatuchak District



Metro Forest Learning Centre
Prawet District



Khlong Sam Wa District, 23 Rai (3.68 hectare)
Nov 2020 – Mar 2021



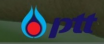
Bueng Kum District, 2 Rai (0.32 hectare)
Sep 2020 – Mar 2021



Khlong Sam Wa District

GUIDELINE
FOR
GREEN
SERVICE

case : forest for chance project





Bueng Kum District





◀ Oil Terminal
Khon Kaen

Oil Terminal
Saraburi ▶



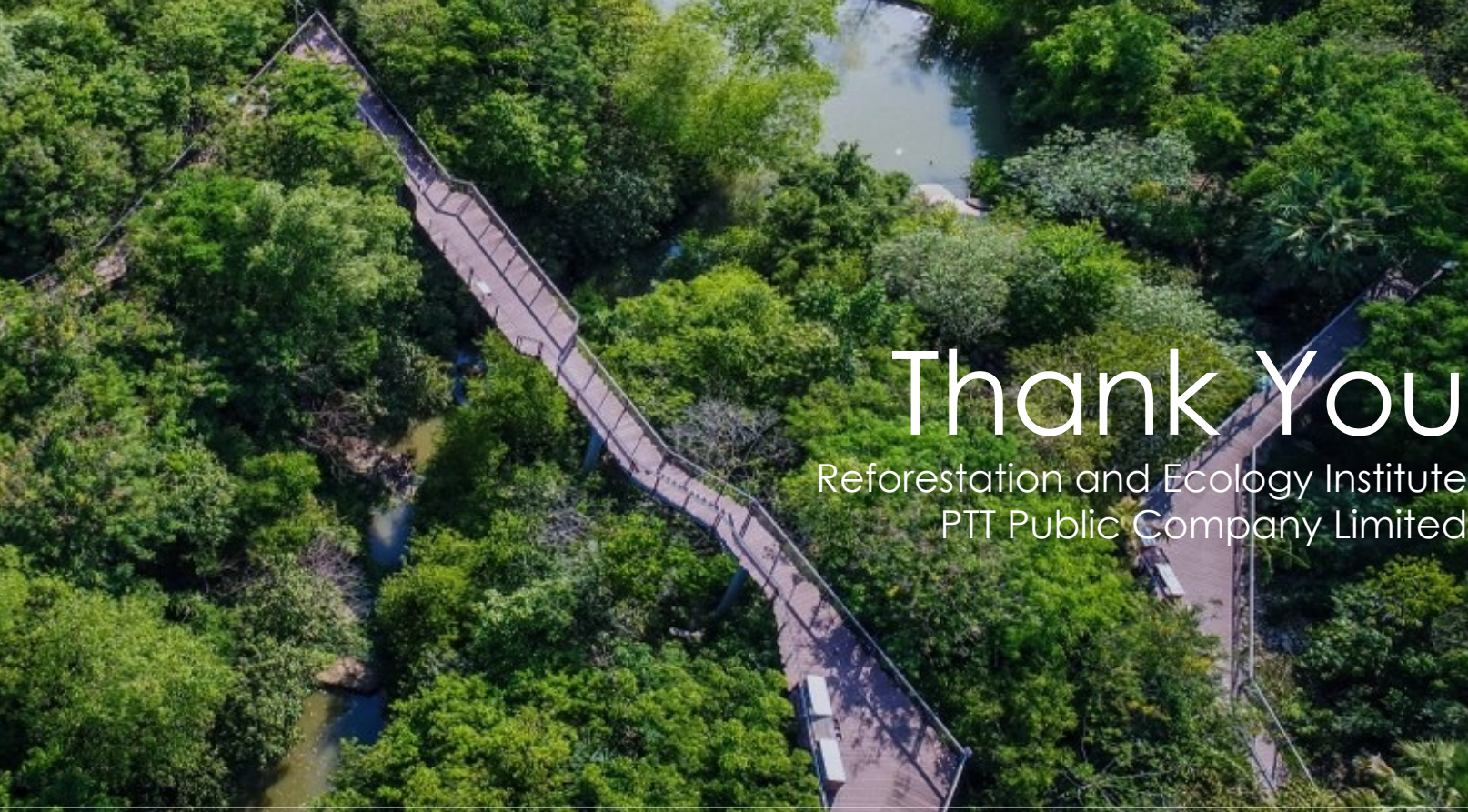


Petroleum Gas Terminal
Songkhla, Thailand

An aerial photograph of a lush green landscape. In the foreground, there is a dense forest of tall, thin trees. A winding river flows through the middle ground, surrounded by a mix of greenery and some buildings. In the background, there are rolling hills covered in dense forest, with a layer of mist or low clouds hanging between the hills. The sky is blue with scattered white clouds.

" Trees should be planted first in the hearts of the people,
then the people will plant trees on the land and nurture them. "

- H.M. King Bhumibol Adulyadej (Rama IX) -



Thank You

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