MINISTRY OF DEFENSE

APITSADA RATTANAMAS (PRIM)

MINISTRY OF DEFENSE

Military's business

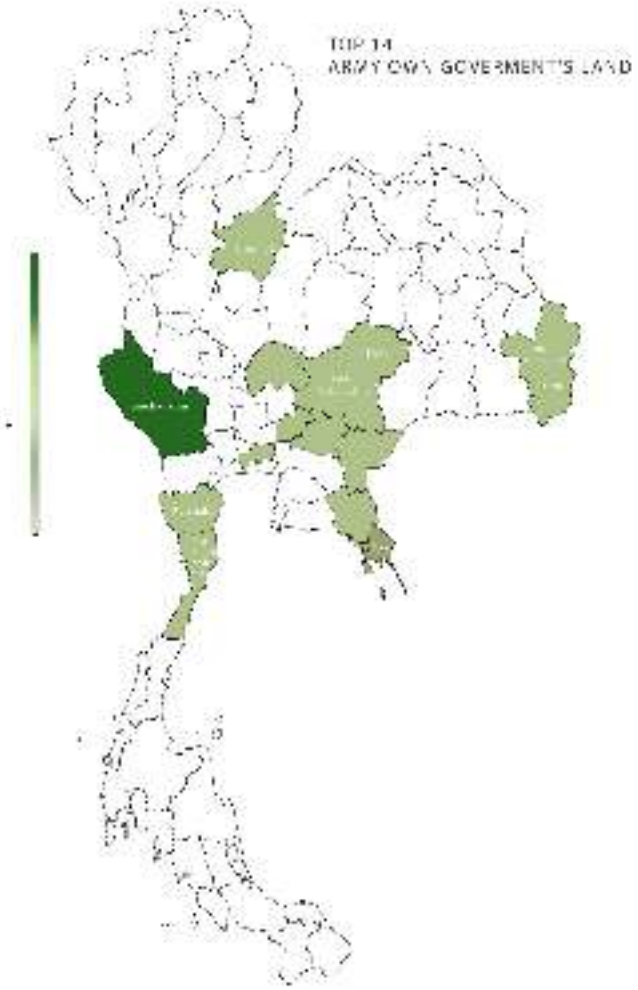
BOXING ARENA
HORSE RACING

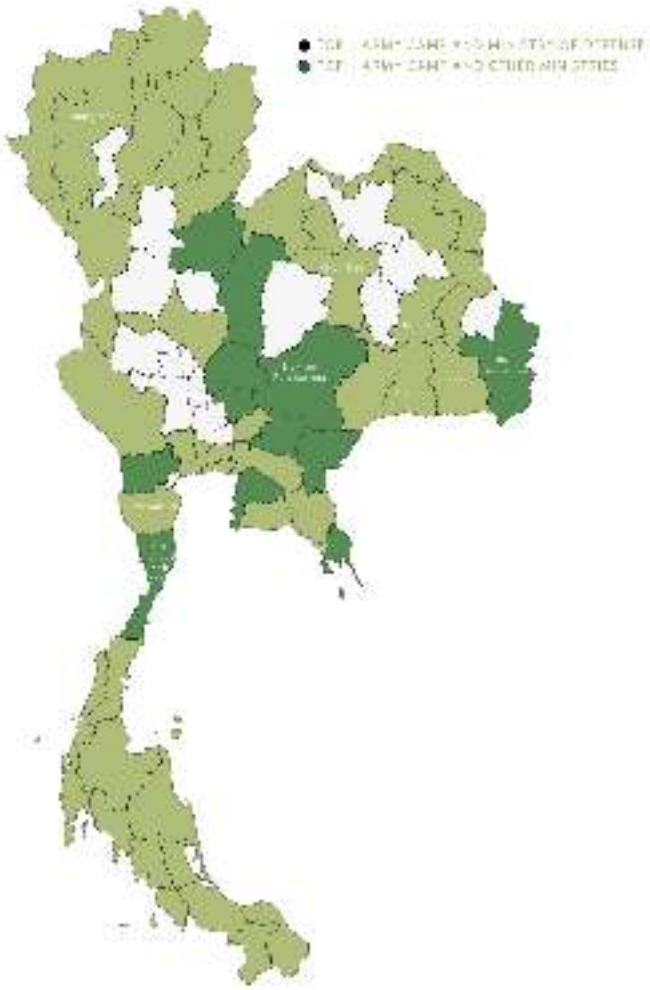
GOLF COURSE

The Royal Thai Army 's business

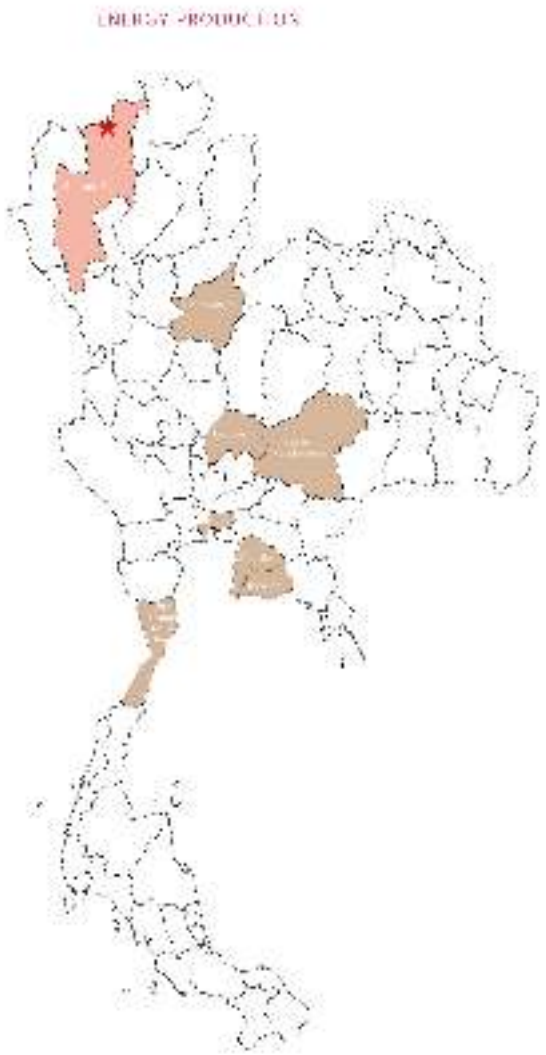
HOTELS

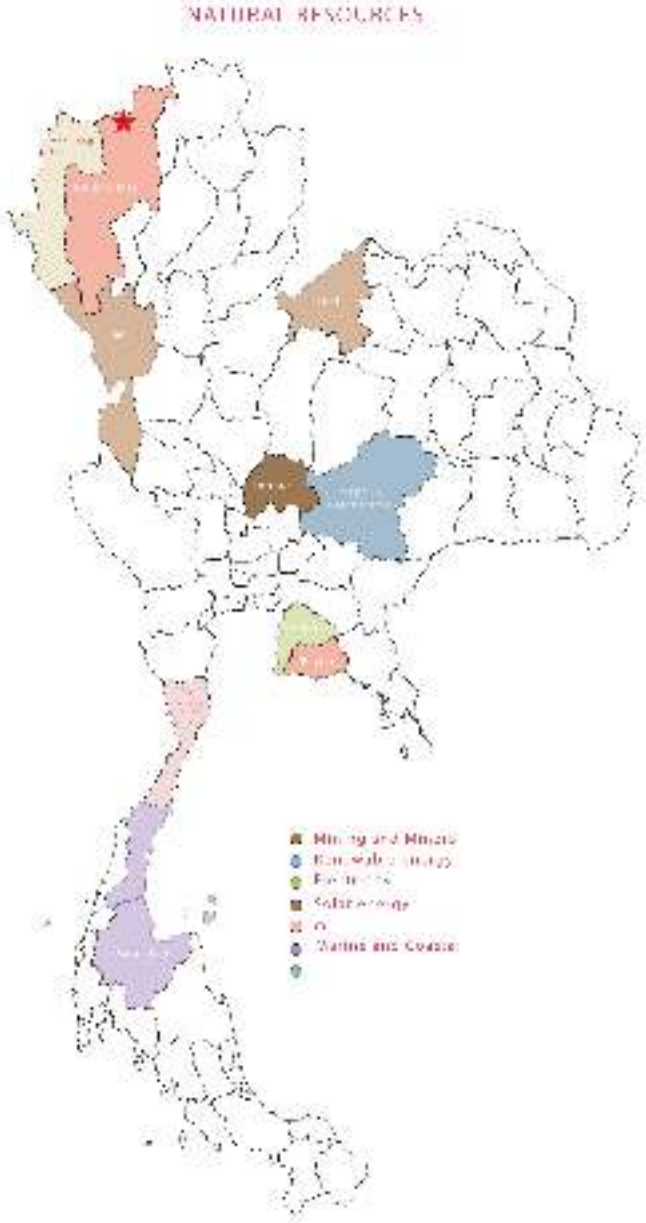
WHERE IS THE ARMY OWN LAND AND BUSINESS

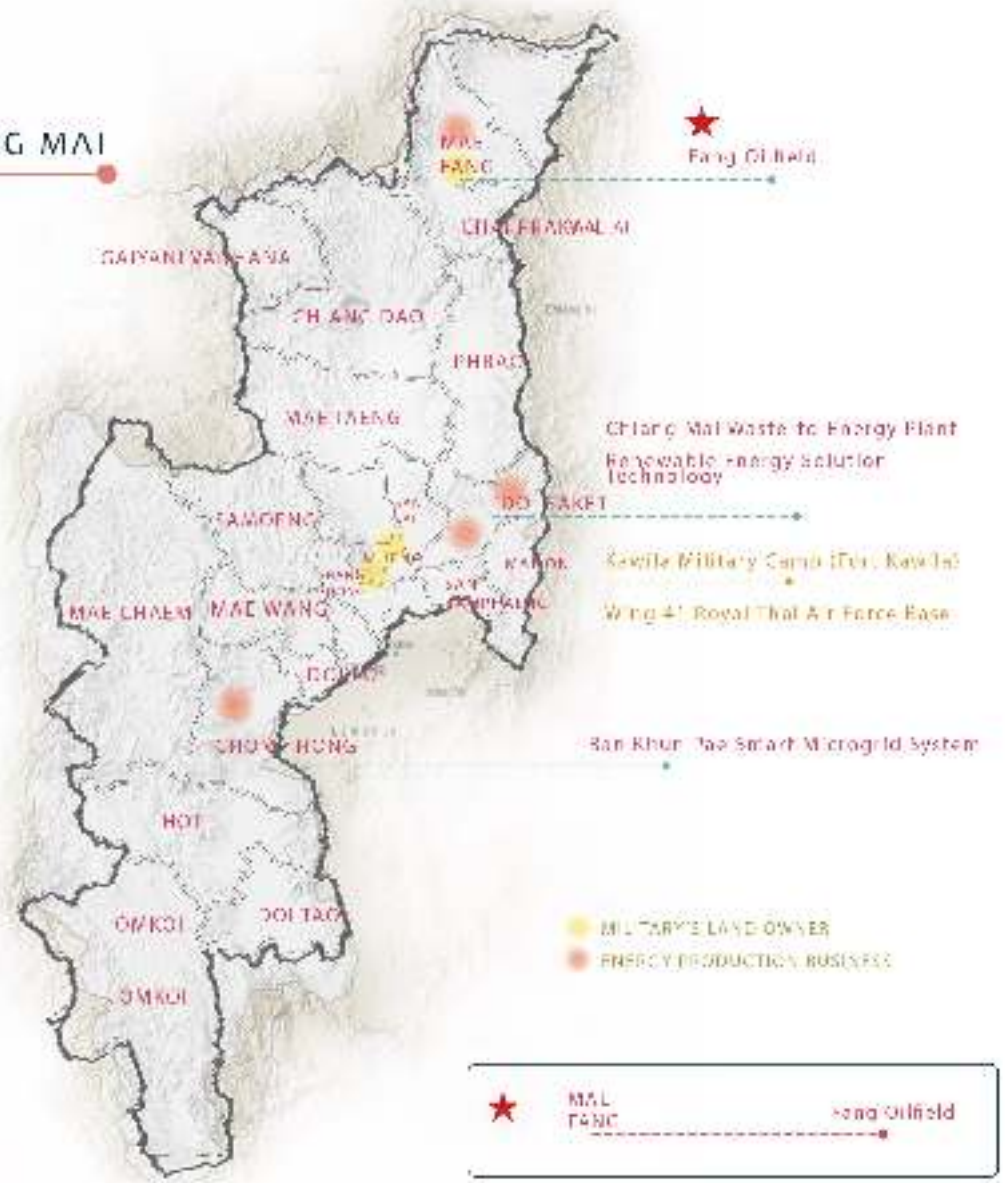




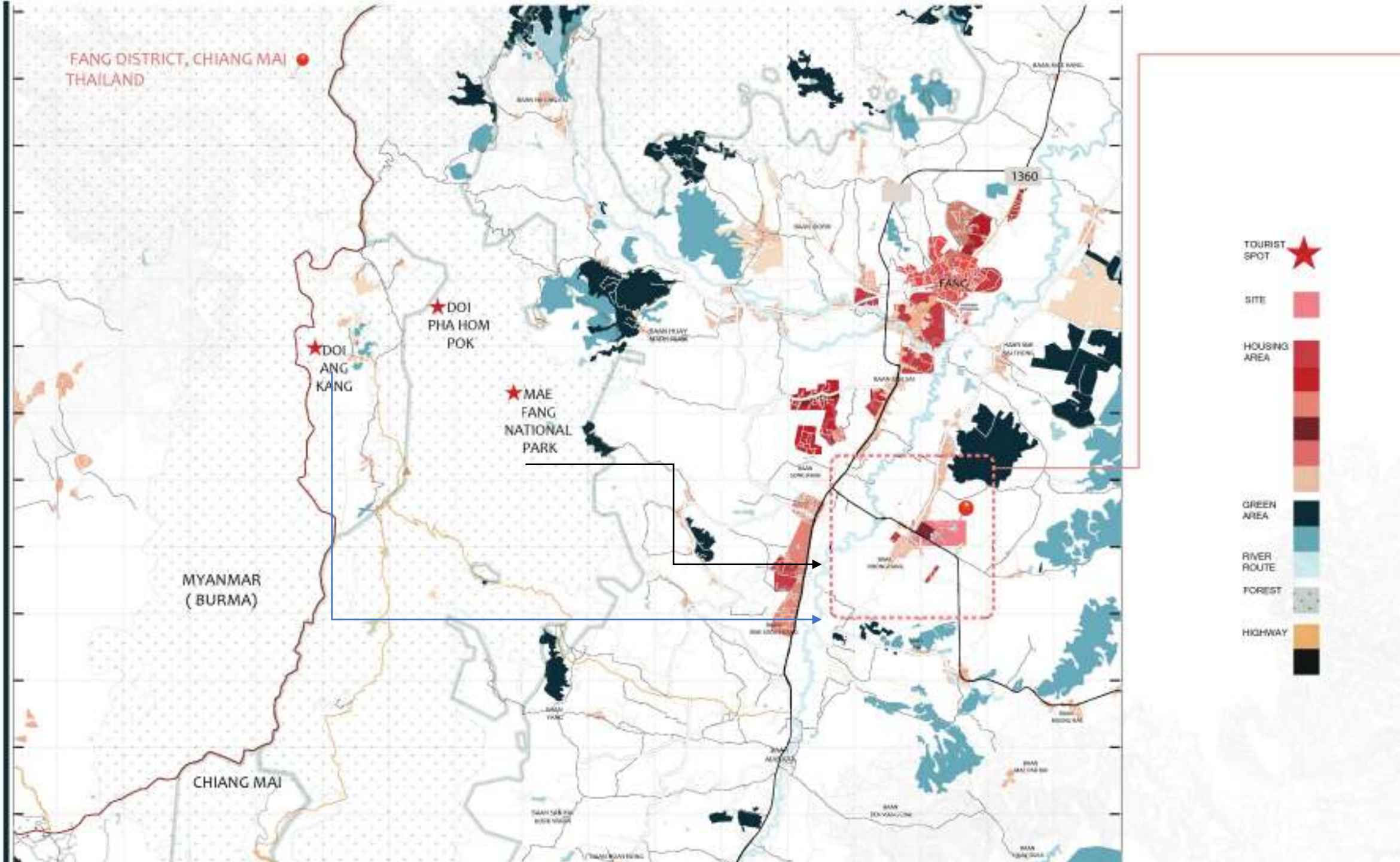
BUSINESS

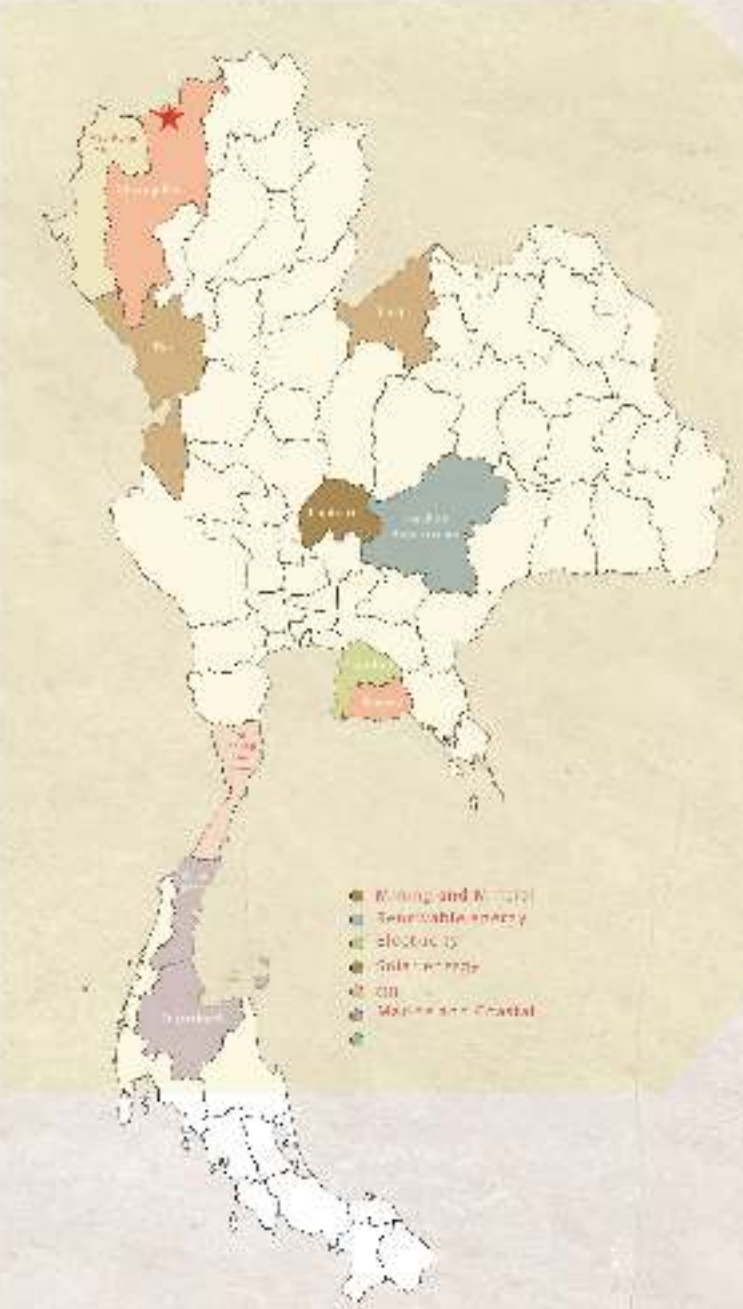






MILITARY'S BUSINESS


FANG DISTRICT, CHIANG MAI
THAILAND
DOI
PHA HOM
POK
DOI
ANG
KANG
MAE
FANG
NATIONAL
PARK
1360
FANG
MYANMAR
(BURMA)
CHIANG MAI
TOURIST
SPOT
SITE
HOUSING
AREA
GREEN
AREA
RIVER
ROUTE
FOREST
HIGHWAY



NATURAL RESOURCES

Ministry of Defense (MOD)

Department of Military Energy

environmental regulations under MONRE

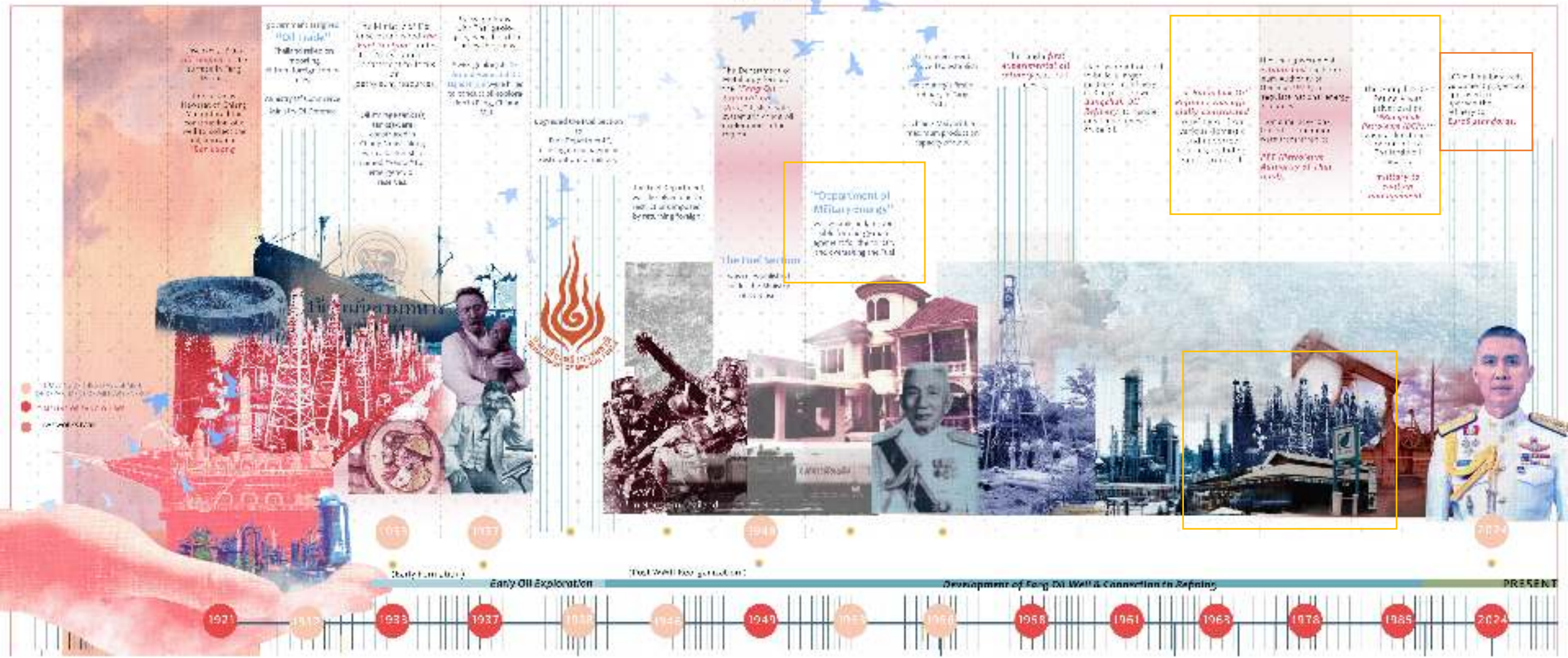
Ministry of Natural Resources and Environment (MONRE)

Ministry of Energy

managing and regulating the country's energy sources, such as oil, natural gas, and renewable energy.

Department of Natural Fuels

TIMELINE



TIMELINE OF THE ESTABLISHMENT OF DEPARTMENT OF MILITARY ENERGY

TIMELINE OF FANG OIL WELL

★ MAE FANG ---------- Fang Oil Well (Northern Petroleum Development Center Defense Energy Department)

DEPARTMENT OF MILITARY ENERGY
TAKE CARE THIS PROJECT

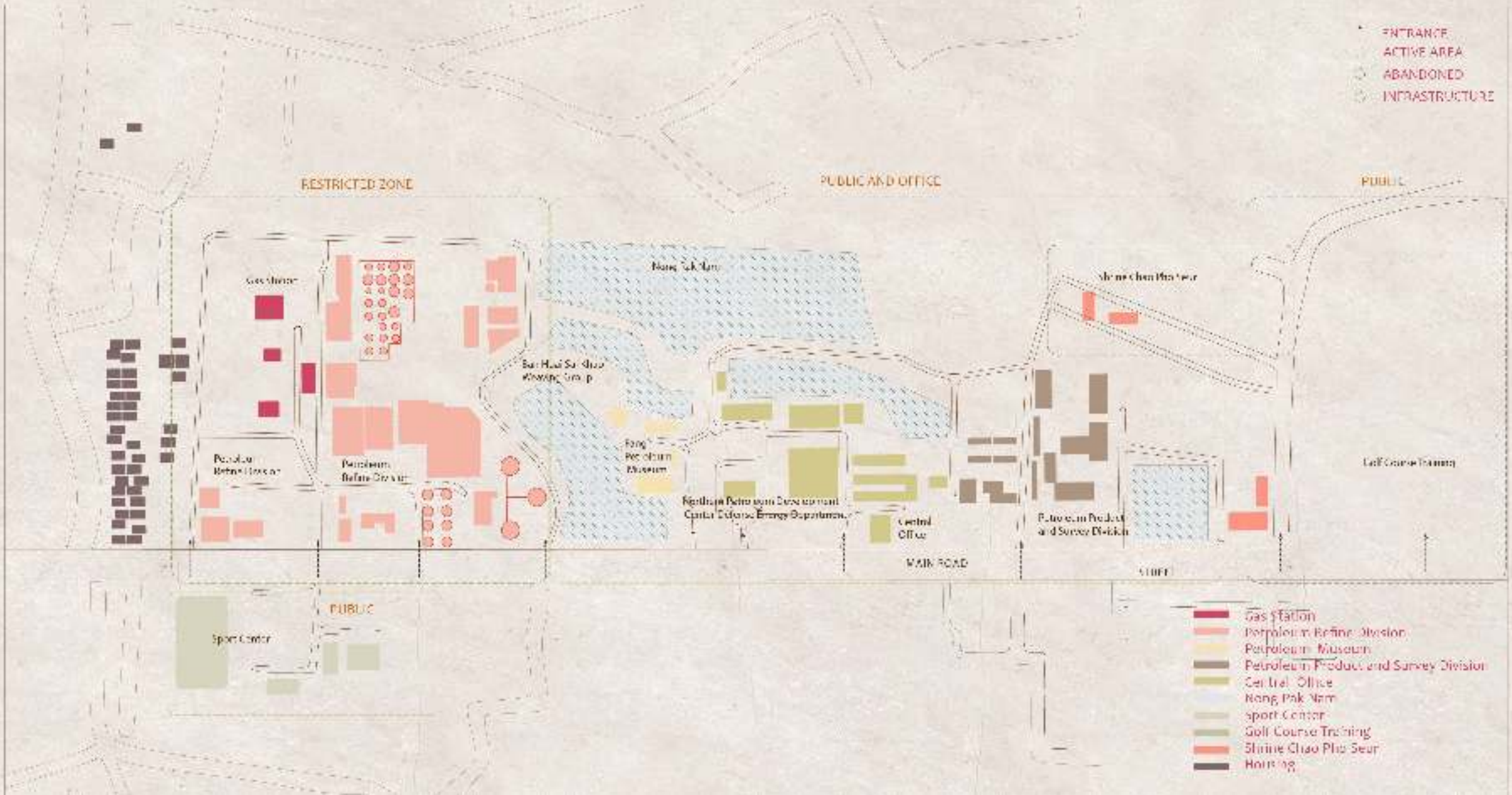
SITE SELECTION

Fang district , Chiang Mai

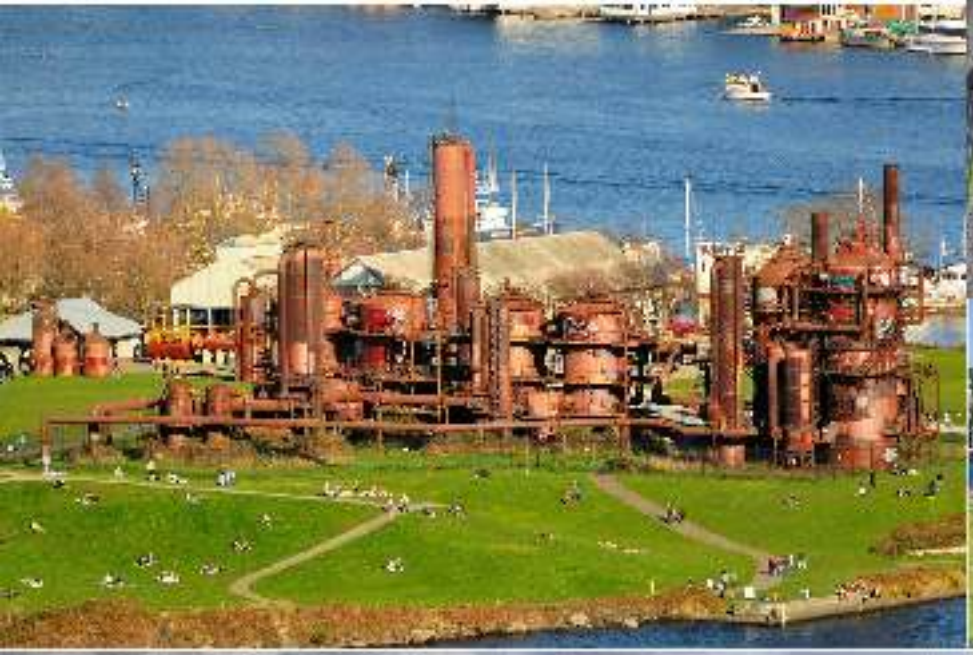
AREA 444,380 METER.SQ2

Northern Petroleum Development Center Defense Energy Department

Fang district , Chiang Mai



CASE STUDY

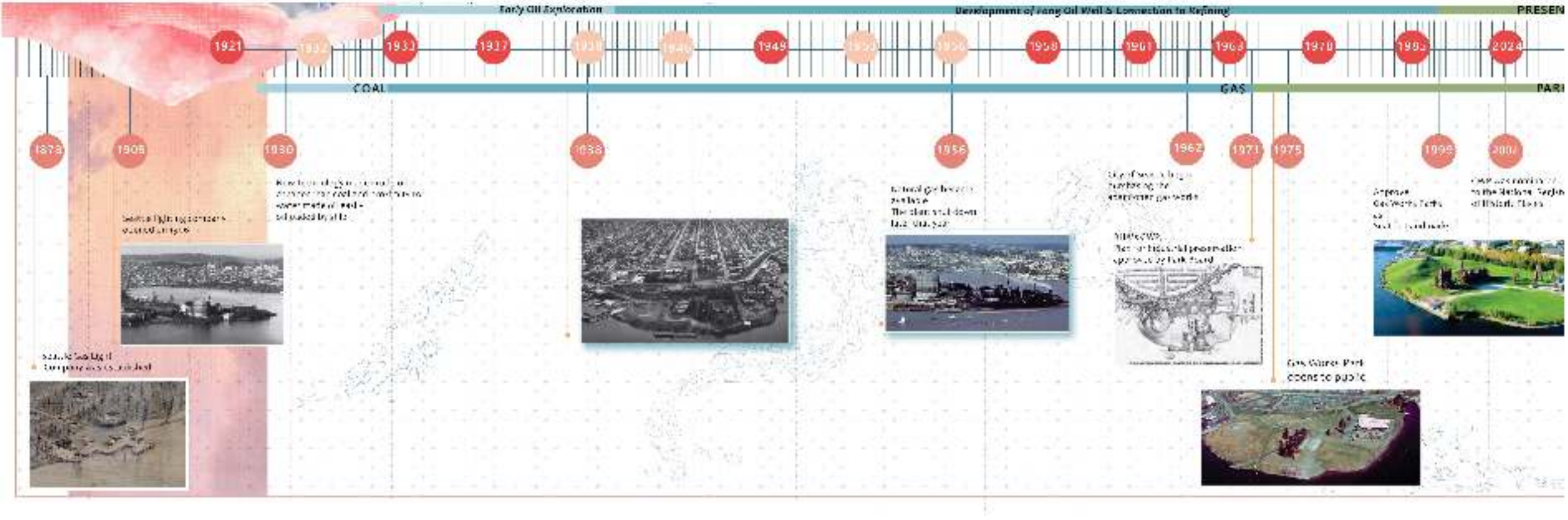


GAS WORKS PARK

Seattle, USA

Landscaped into a large public park with grassy hills, picnic areas, and a children's play barn Gas Works Park in Seattle, Washington, which was created from a decommissioned coal gasification plant.

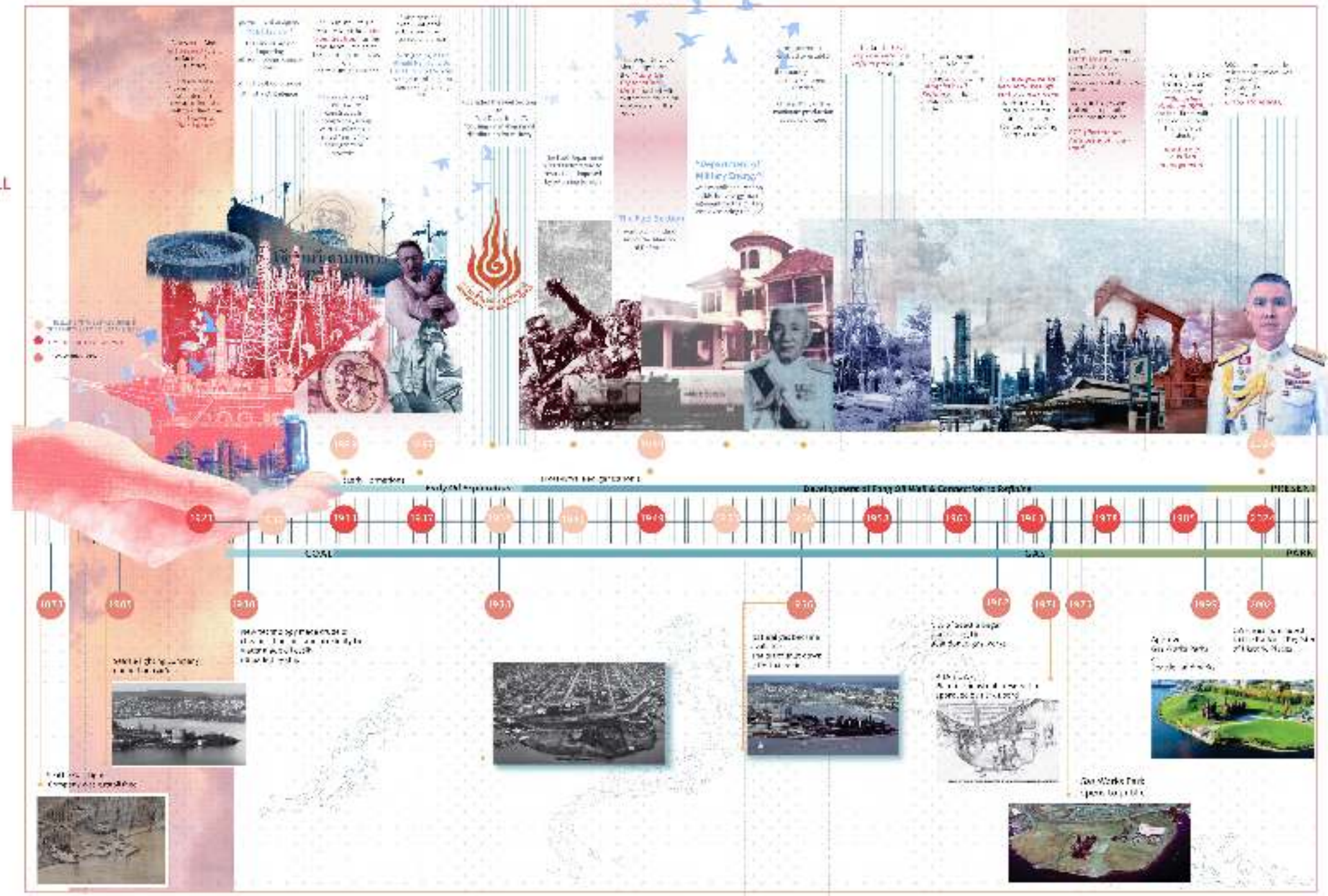
HOW GAS WORKS PARK BECOME AND OPEN TO THE PUBLIC

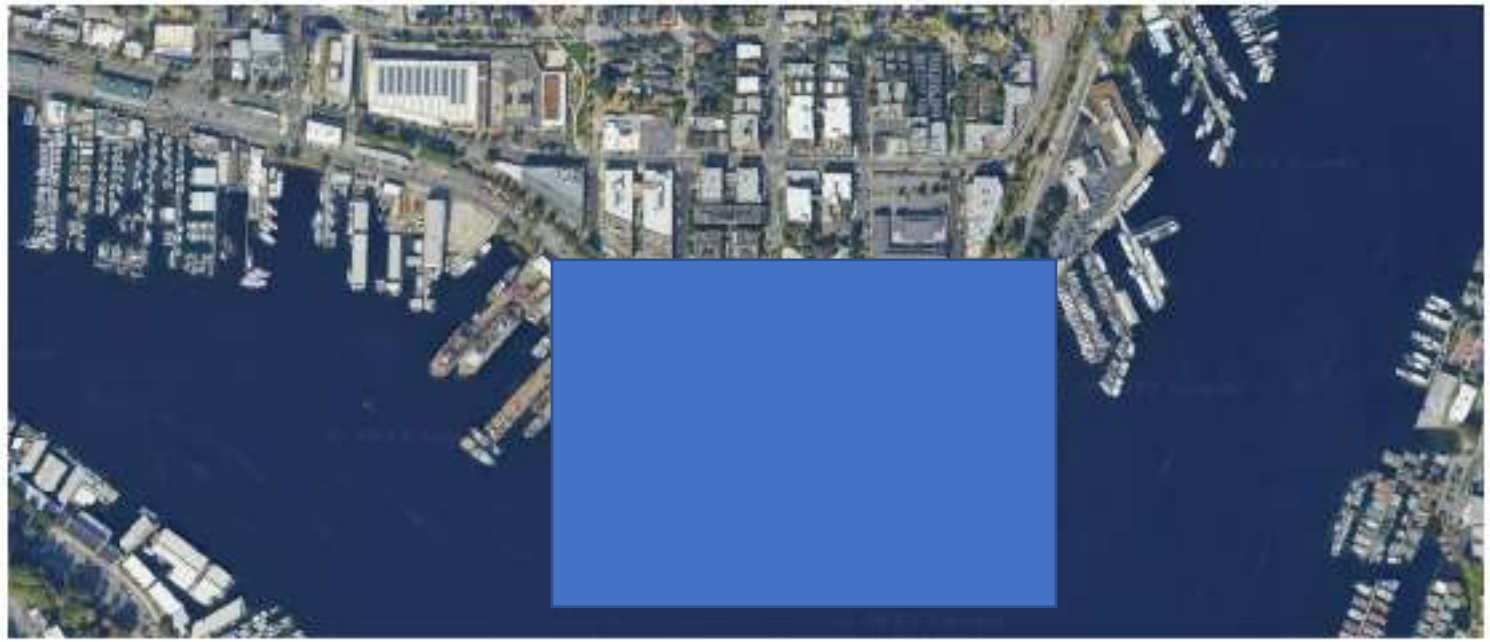


TIMELINE OF
THE ESTABLISHMENT
OF DEPARTMENT OF
MILITARY ENERGY

TIMELINE OF FANG OIL WELL

GAS WORKS PARK





Fang District , Chiang Mai

Public park with industrial relics preserved

Development Plan

Transformed into a park with historical structures integrated into landscape

Public Engagement

Open space for recreation, tourism, and events

Thailand's oldest oilfield, currently producing about 600 barrels per day.

Still an active oil extraction site but has abandoned areas

Development Plan

Plans to upgrade refinery; potential for mixed-use redevelopment

Not currently accessible to the public

Project aim

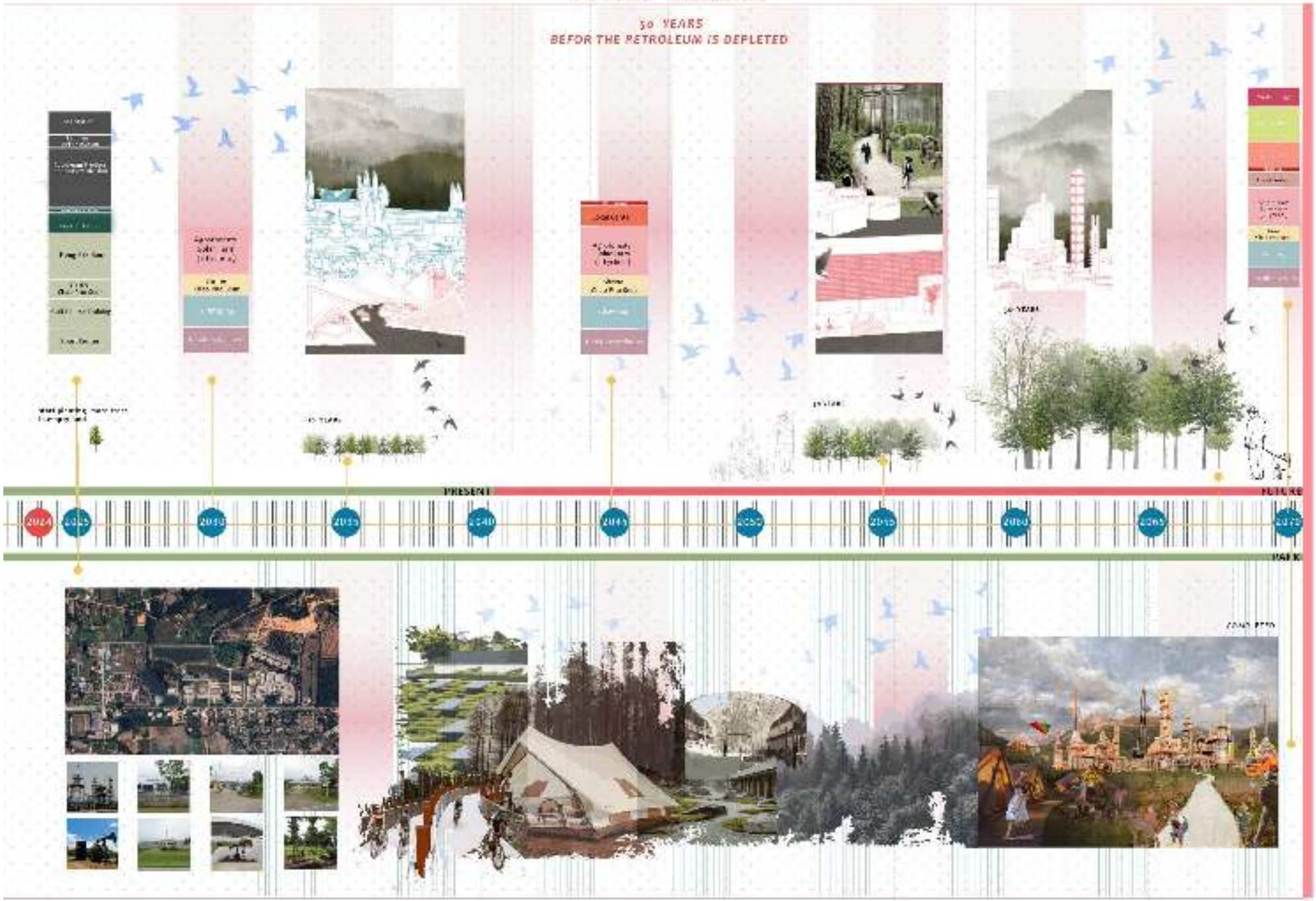
LAND USE EFFICIENCY

COMMUNITY ENGAGEMENT

OPENING TO A PUBLIC

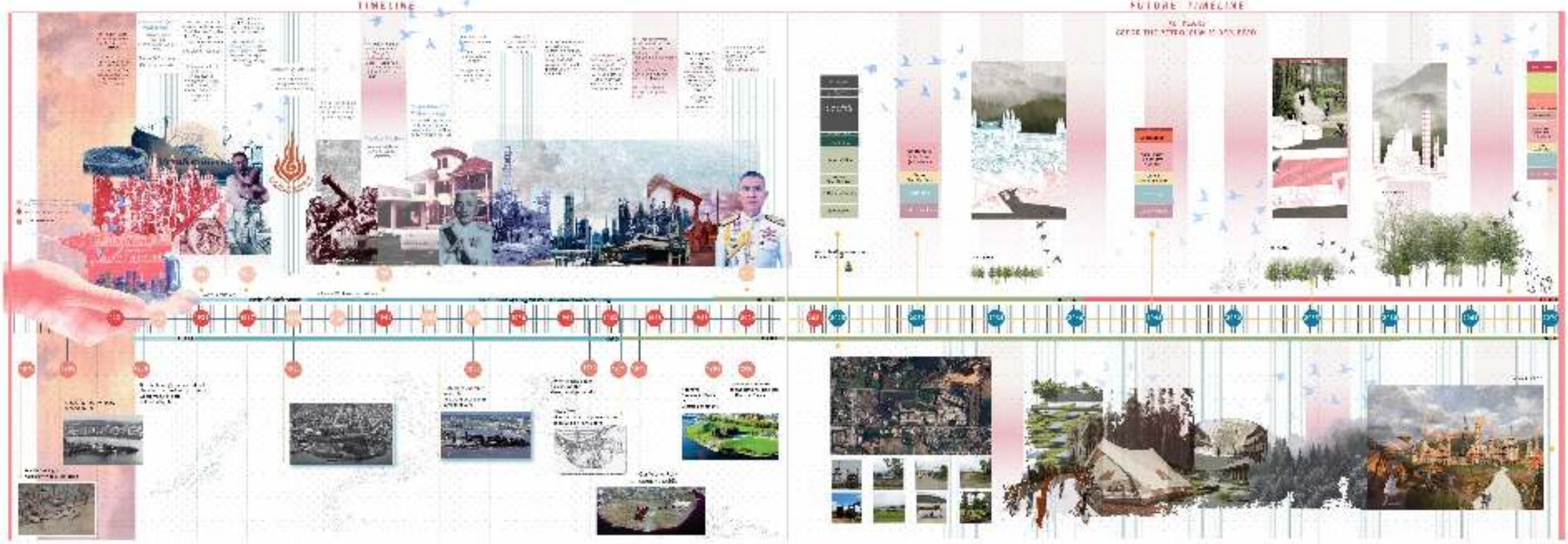
FUTURE TIMELINE

50 YEARS
BEFOR THE PETROLEUM IS DEPLETED



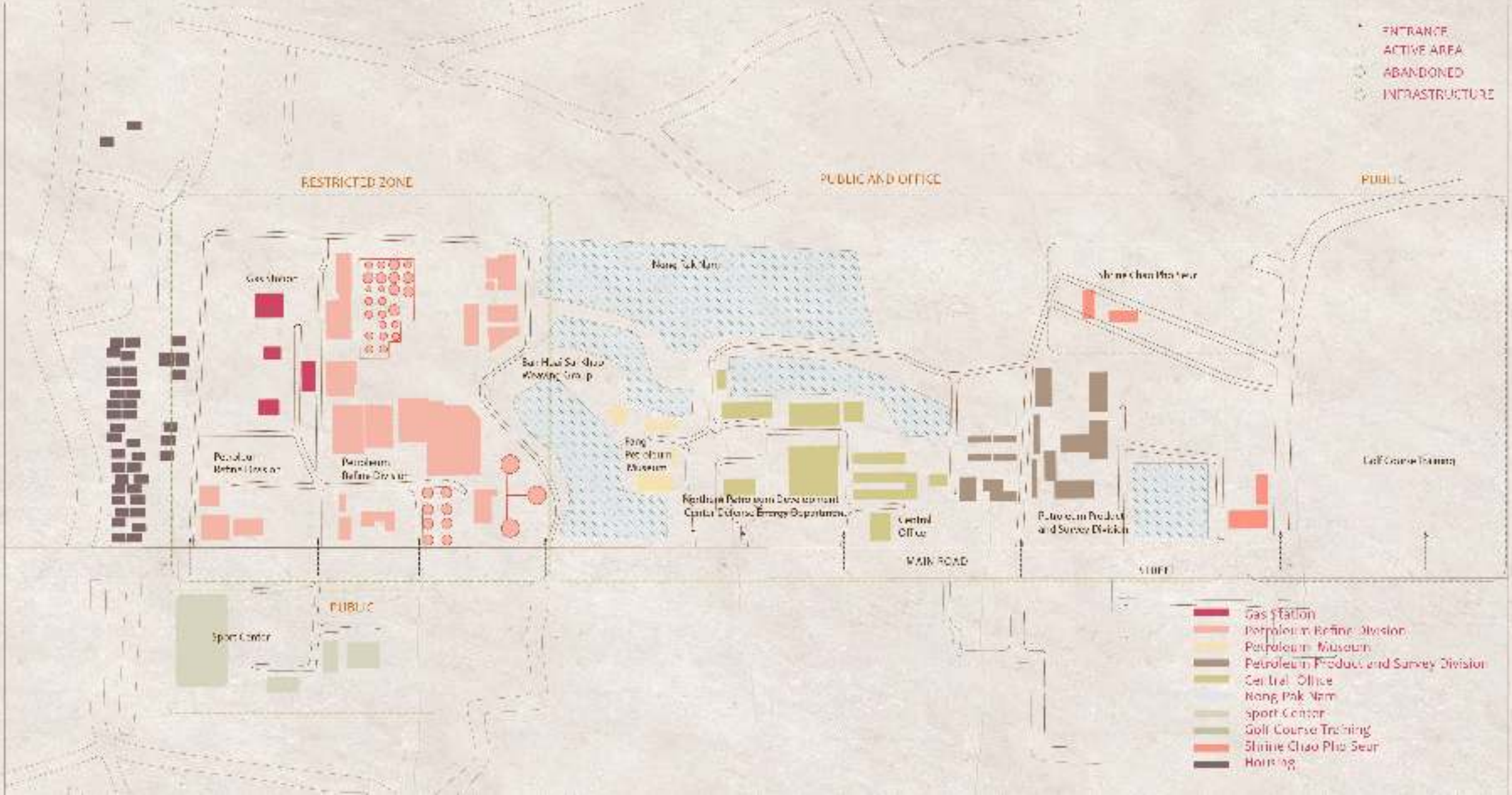
TIMELINE

FUTURE TIMELINE



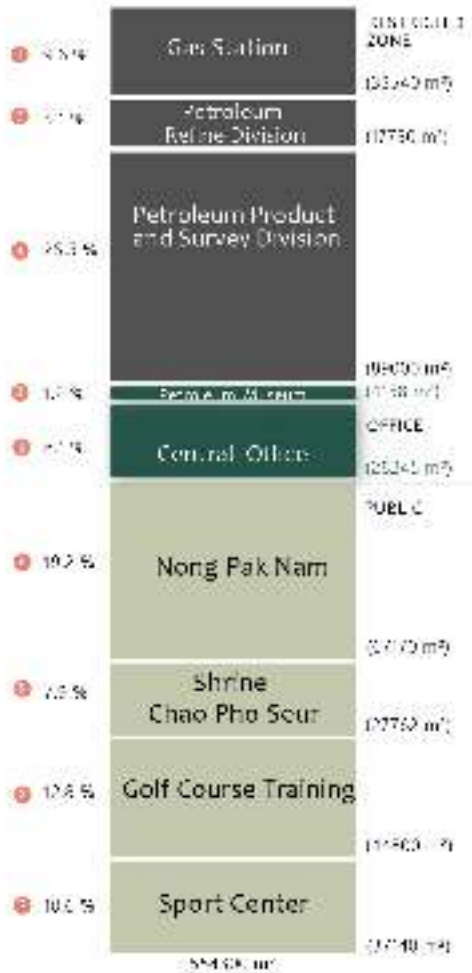
Northern Petroleum Development Center Defense Energy Department

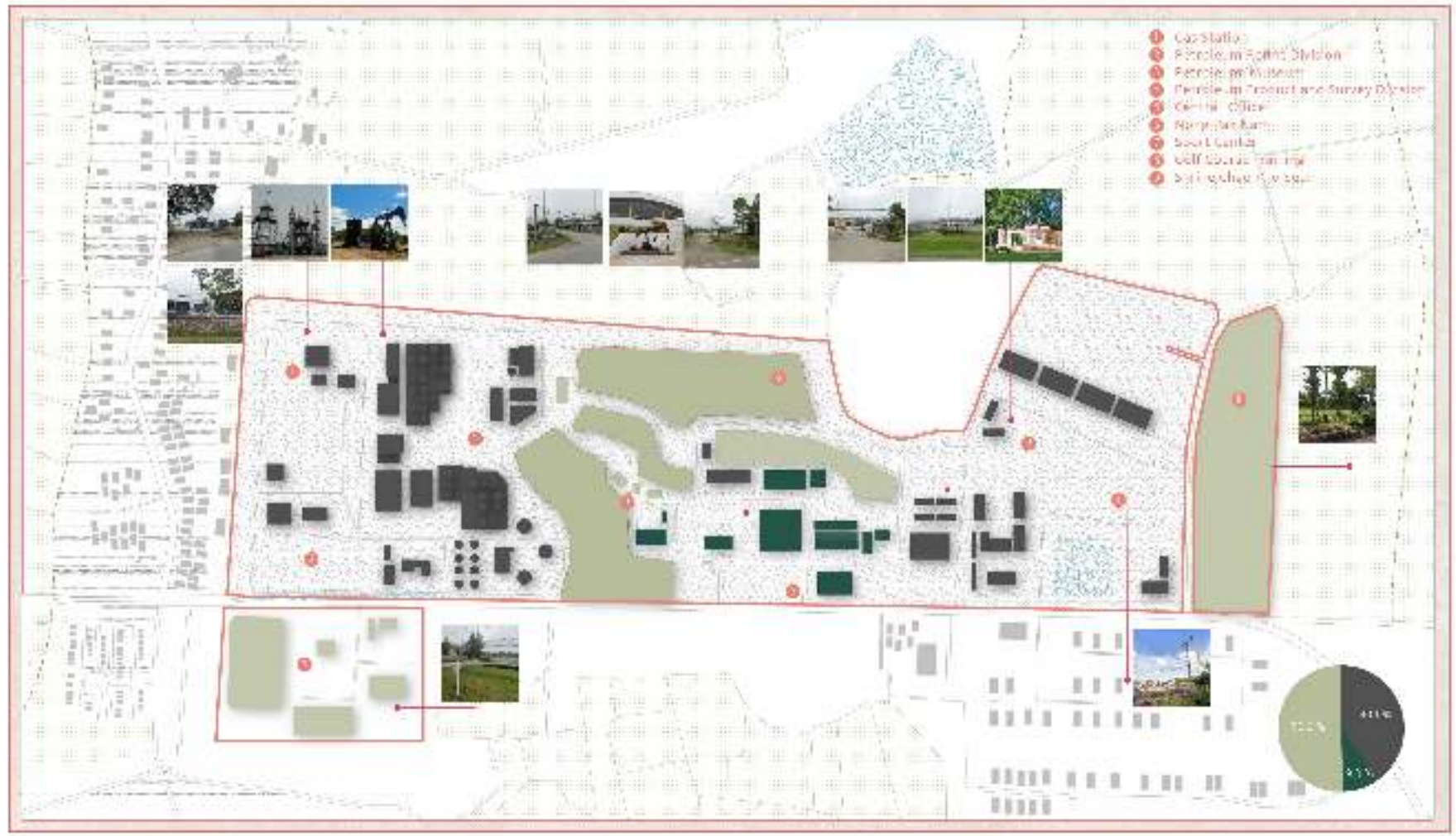
Fang district , Chiang Mai



Northern Petroleum Development Center
Defense Energy Department

2024 - PRESENT





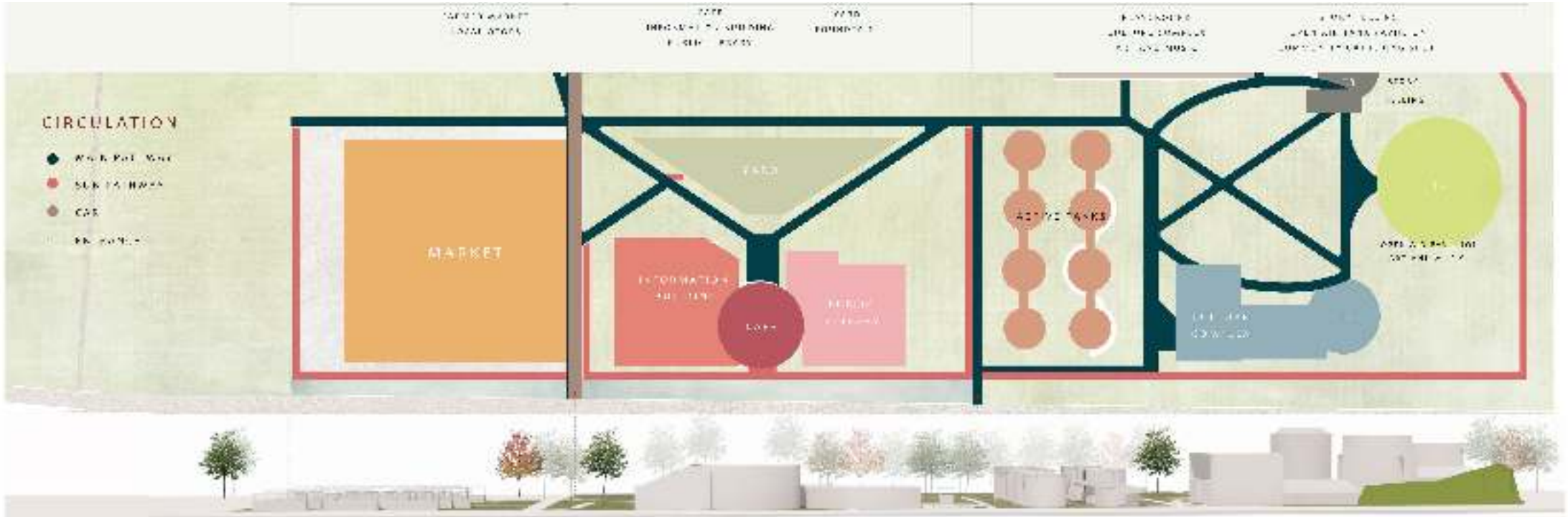
TRANSFORM TO CULTURAL PARK

FANG OIL FILED is Thailand's First Oil Refinery under miltary 's land and controlled.

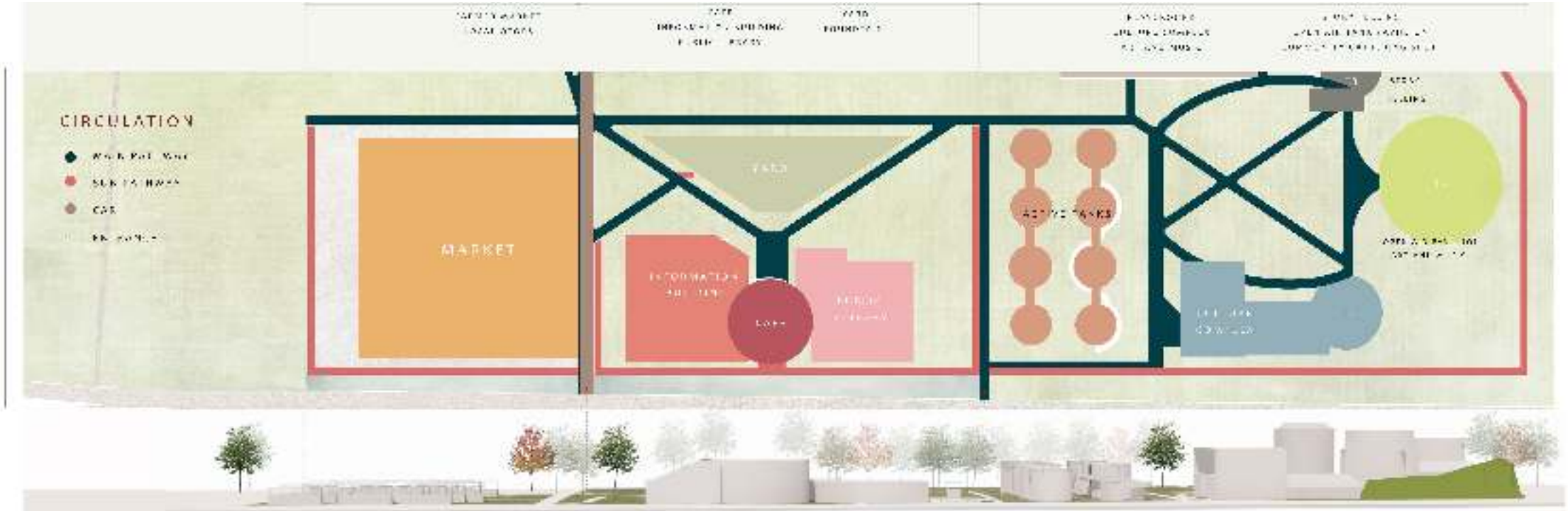
It was Thailand's first oil production site,
it remains an important part of the country's energy history.
Nowadays, a small team of workers manages the field, maintaining the old equipment and keeping the site running. Some areas are being explored for educational or tourism potential, with ideas to turn this historic field into a place where people can learn about Thailand's early oil industry and provide public space for Chiangmai 's people.

NEW PROPOSAL FOCUS SITE MAP

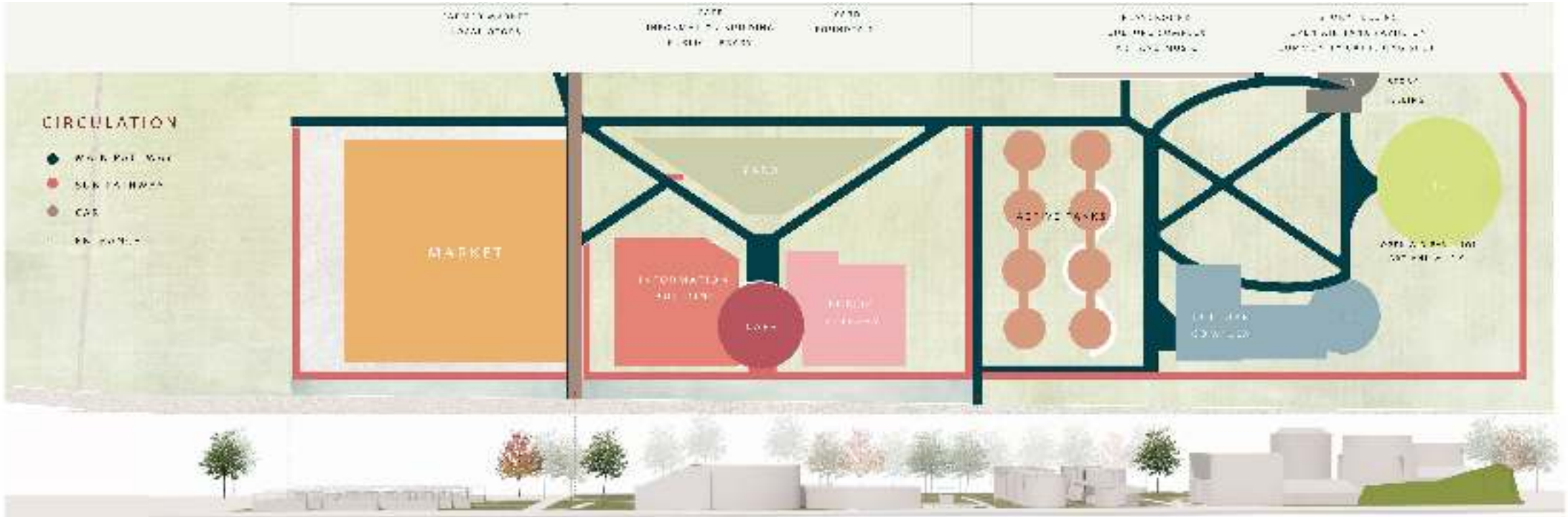
WIP CIRCULATION



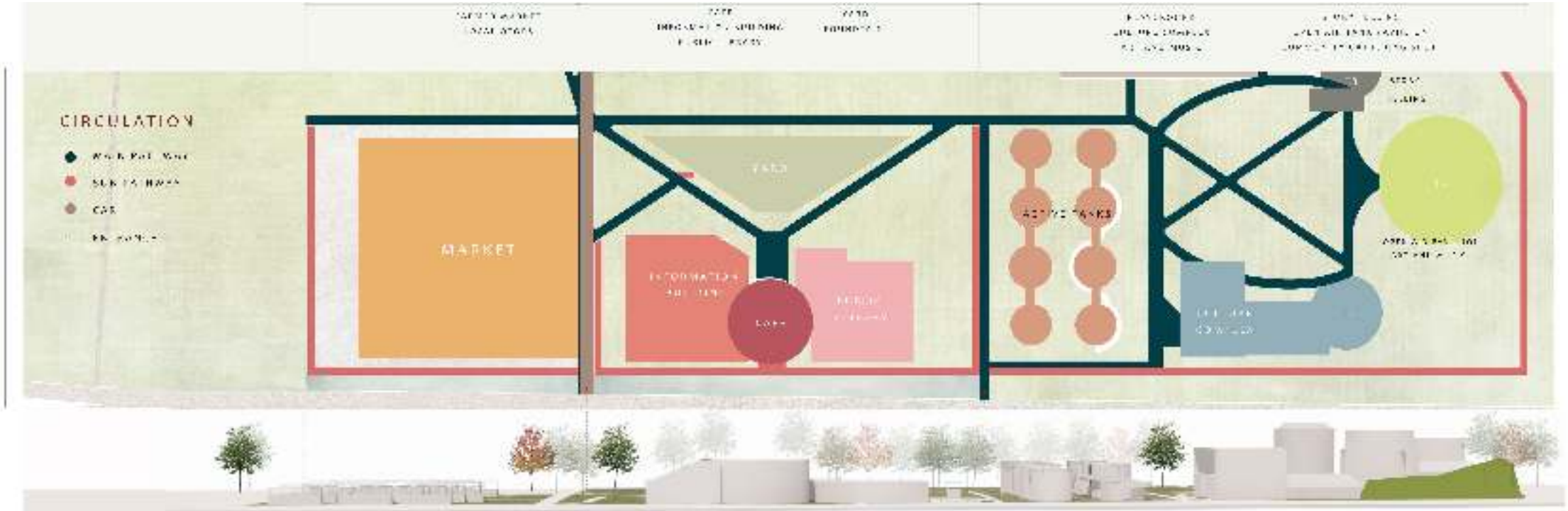
WIP NEW PROGRAMS



WIP EXITING INFRA

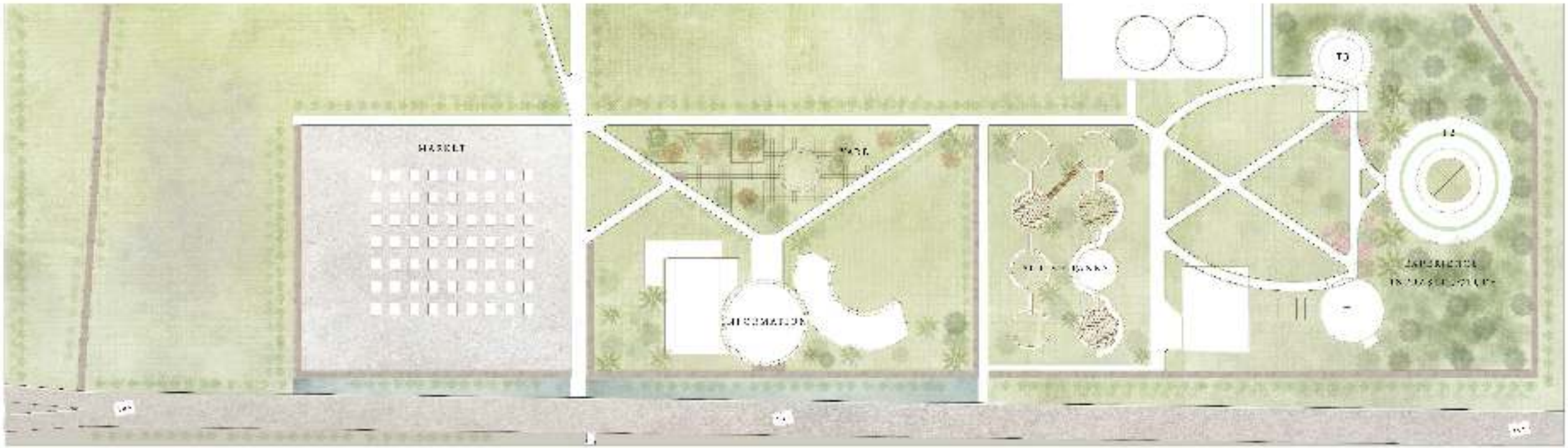


WIP ENTRANCE + COMMUNITY ENGAGE?



MASTER PLAN

CULTURAL PARK



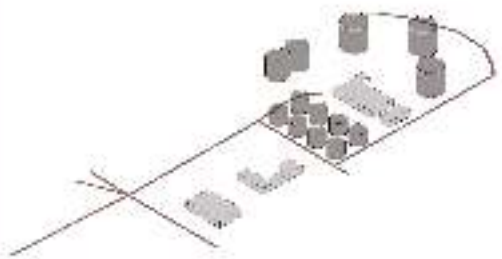
MARKET

INFORMATION

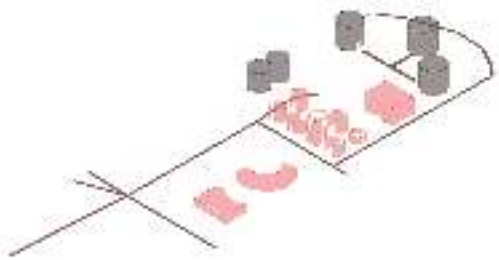
EXPERIENCE INFRASTRUCTURE

EXISTING AND NEW INTERVENTION

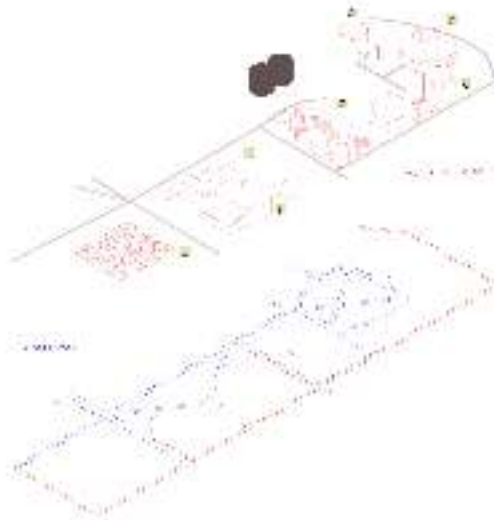
ORIGINAL
EXISTING



CUT



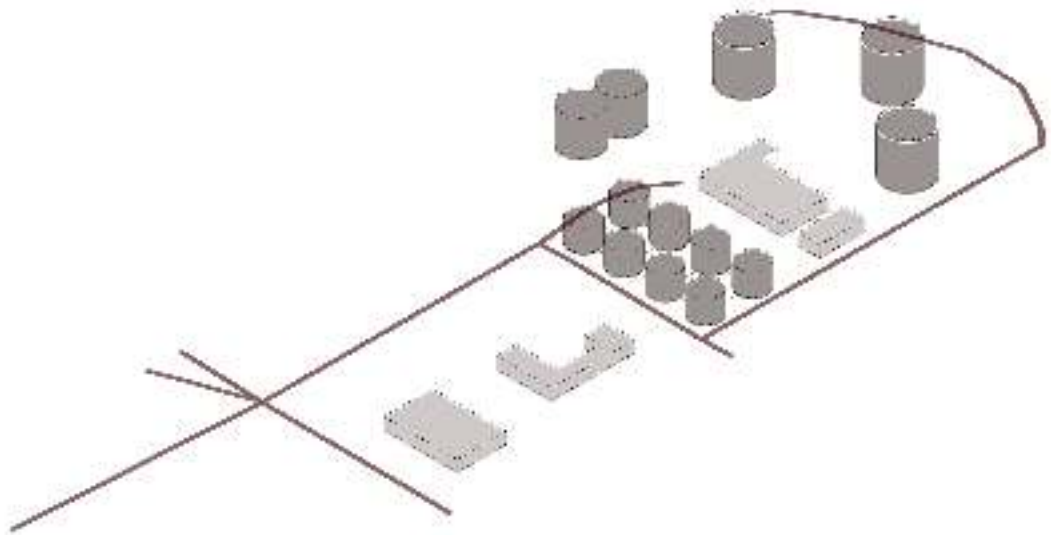
ADD



NOW

● OLD ● NEW

ORIGINAL
EXISTING



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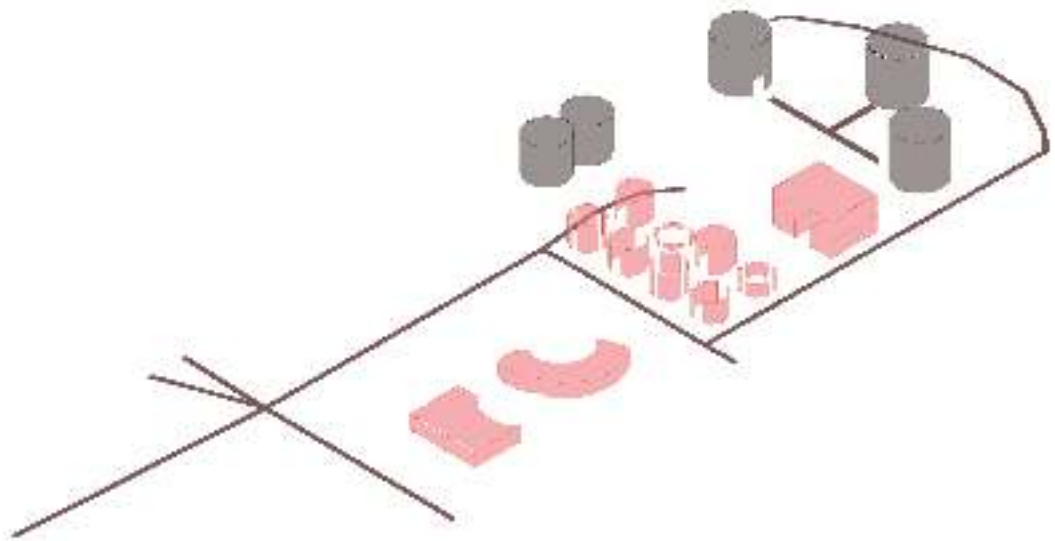

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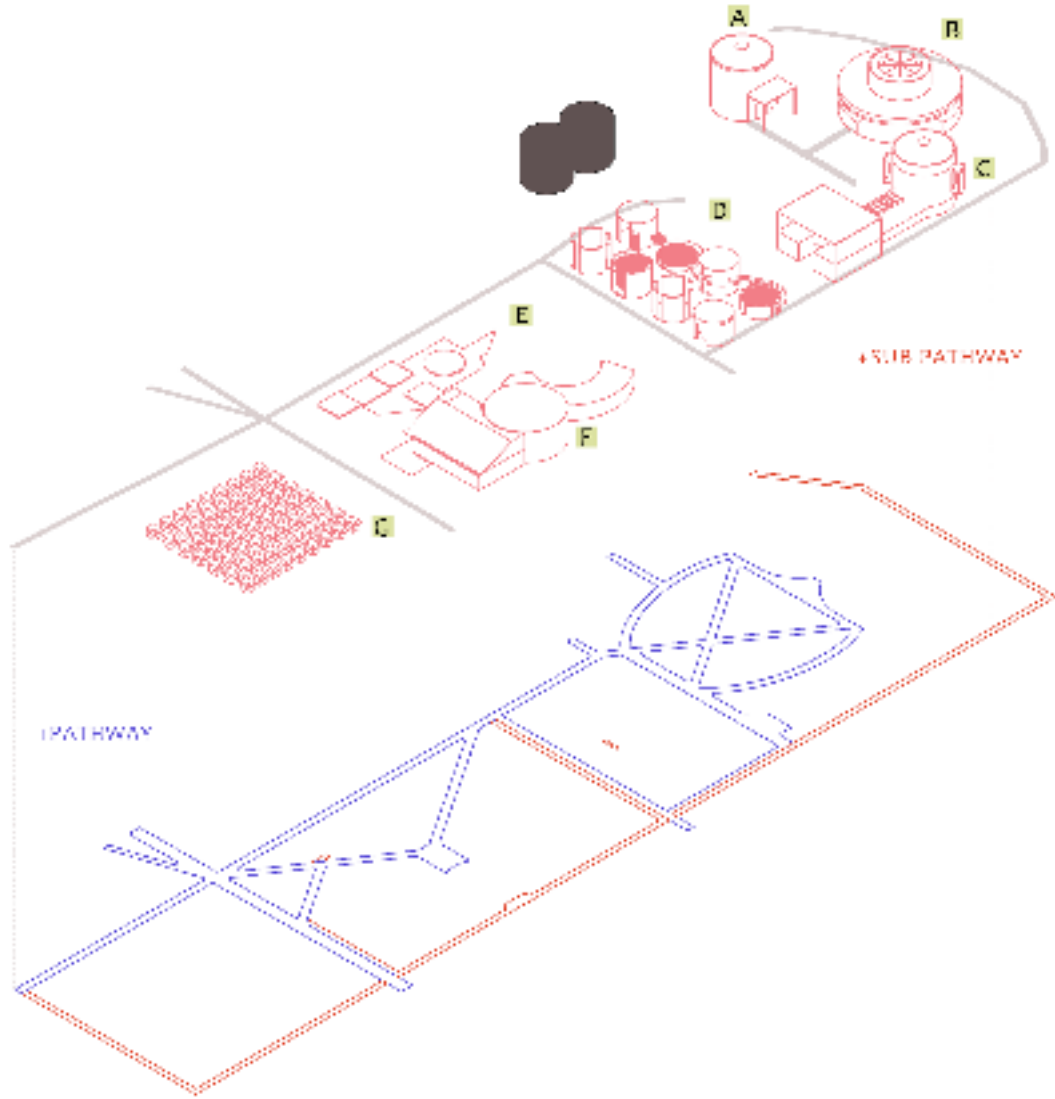
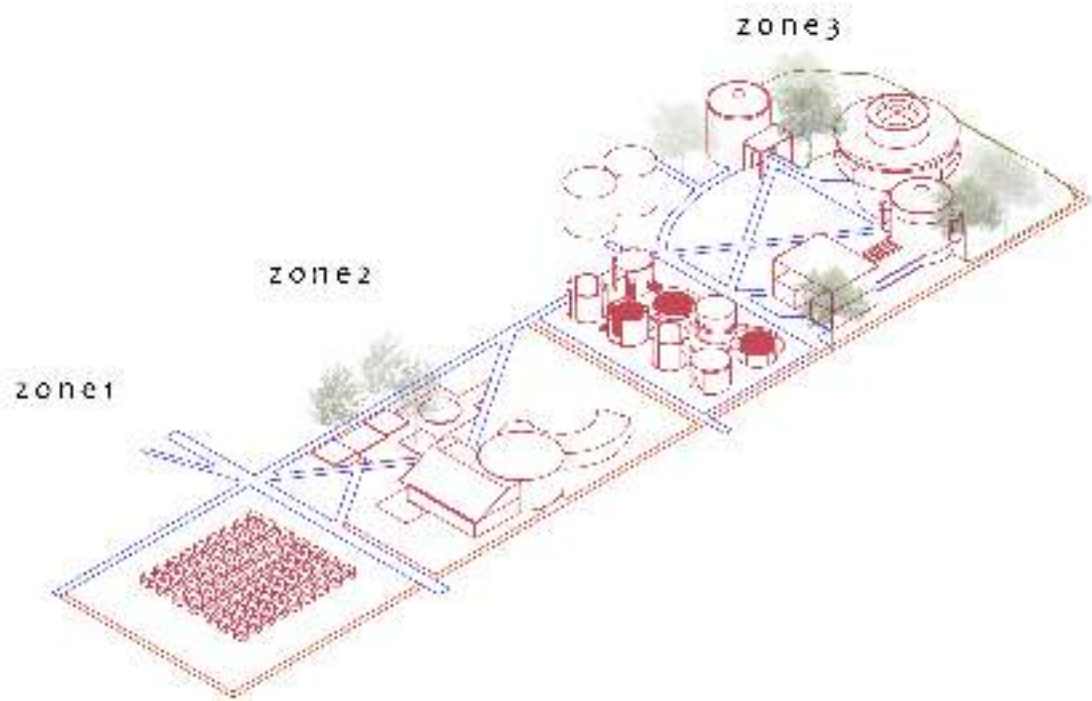


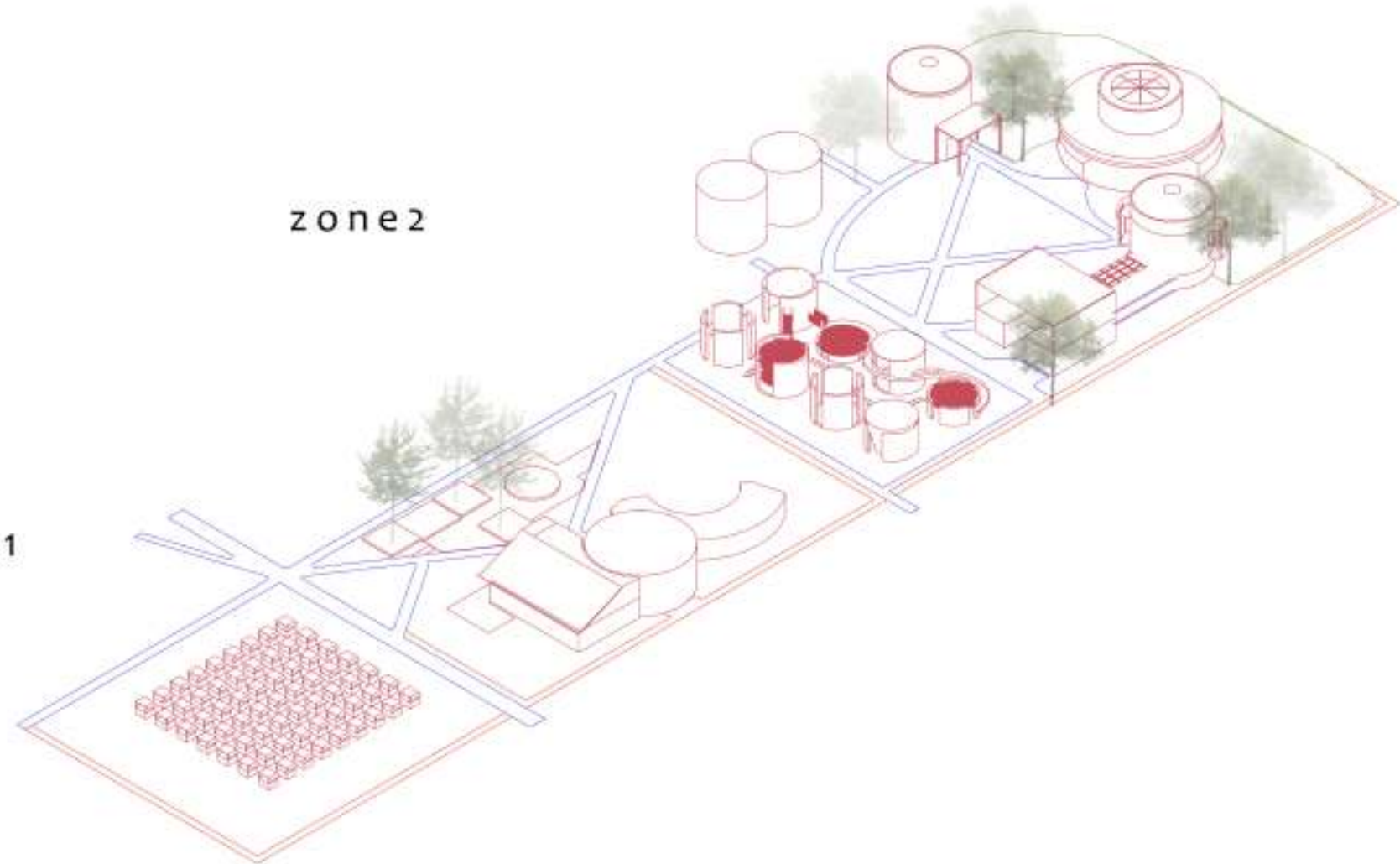
NOW



zone3

zone2

zone1



New rendering for overall view

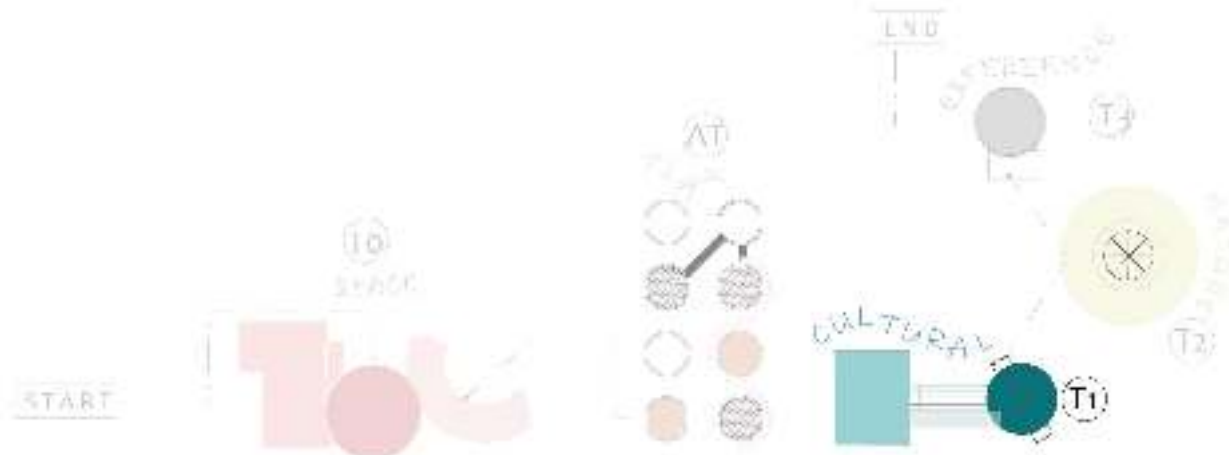
START
T0
SPACE
AT
PLAY
END
EXPERIENCE
T3
NATURE
T2
CULTURAL
T1

START
T0
SPACE
AT
PLACE
END
EXPERIENCE
T3
NATURE
T2
CULTURAL
T1

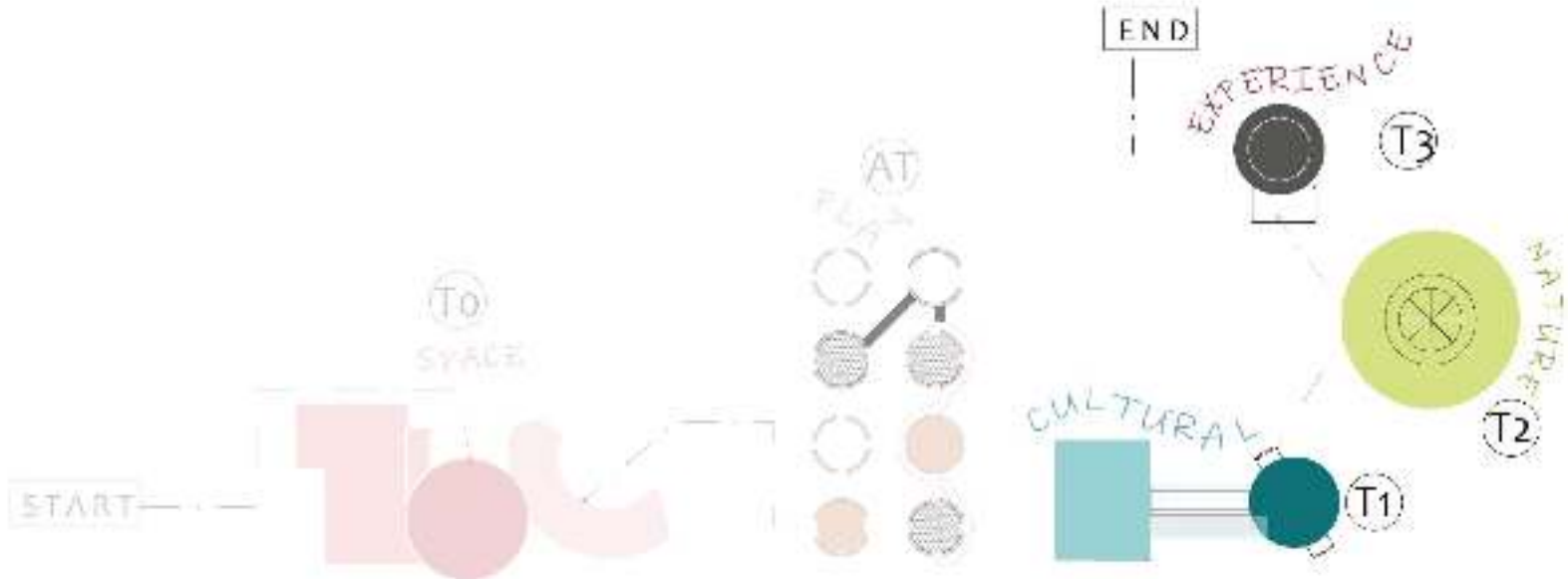
END
T3
AT
T0
START
T2
T1

ACTIVE FUN

TANKS


START
T0
T1
T2
T3
END

T2

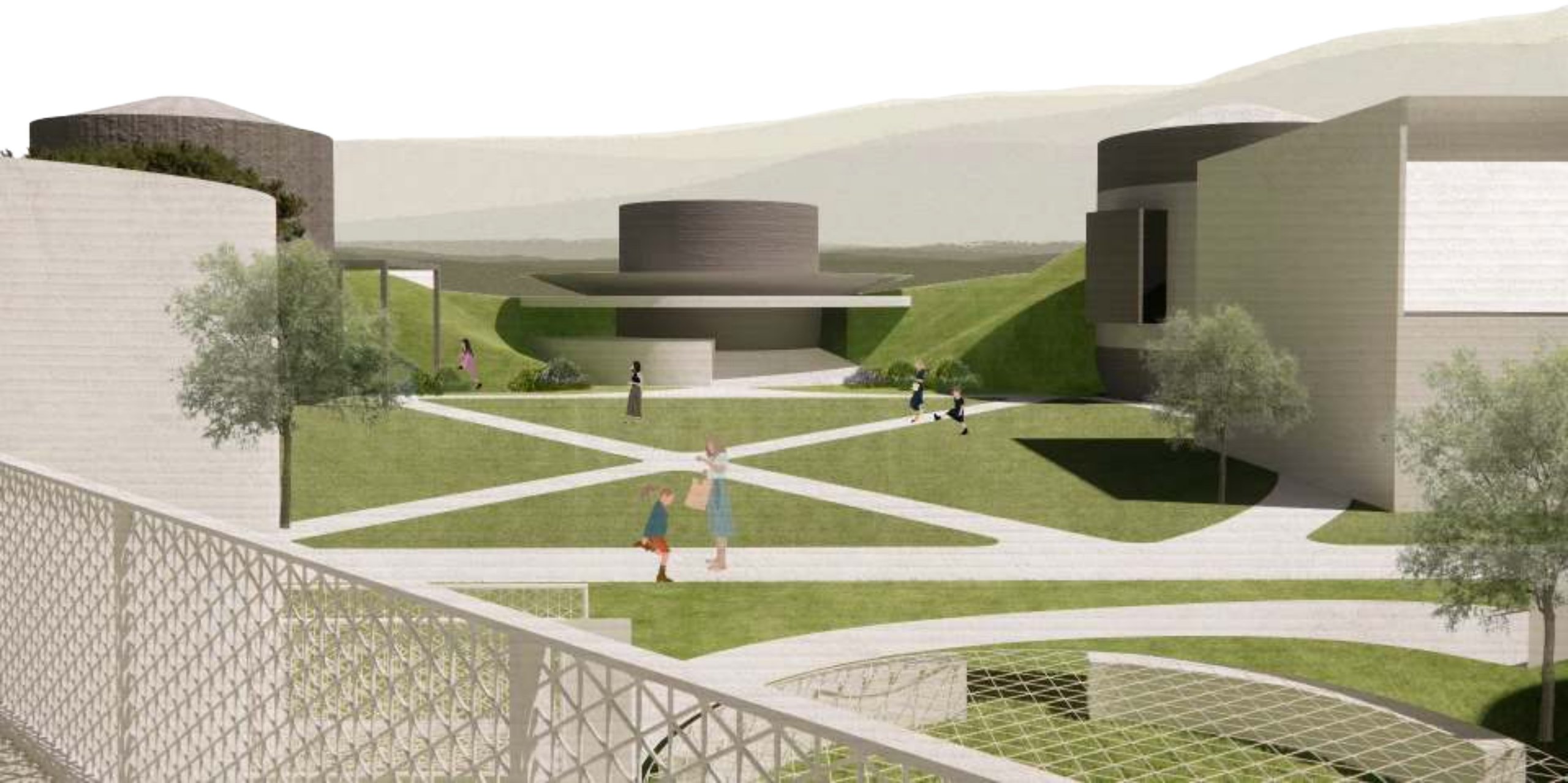

END
EXPERIENCE
T3
NATURE
T2
CULTURAL
T1
AT
T0
SPACE
START

T1
T3
T2

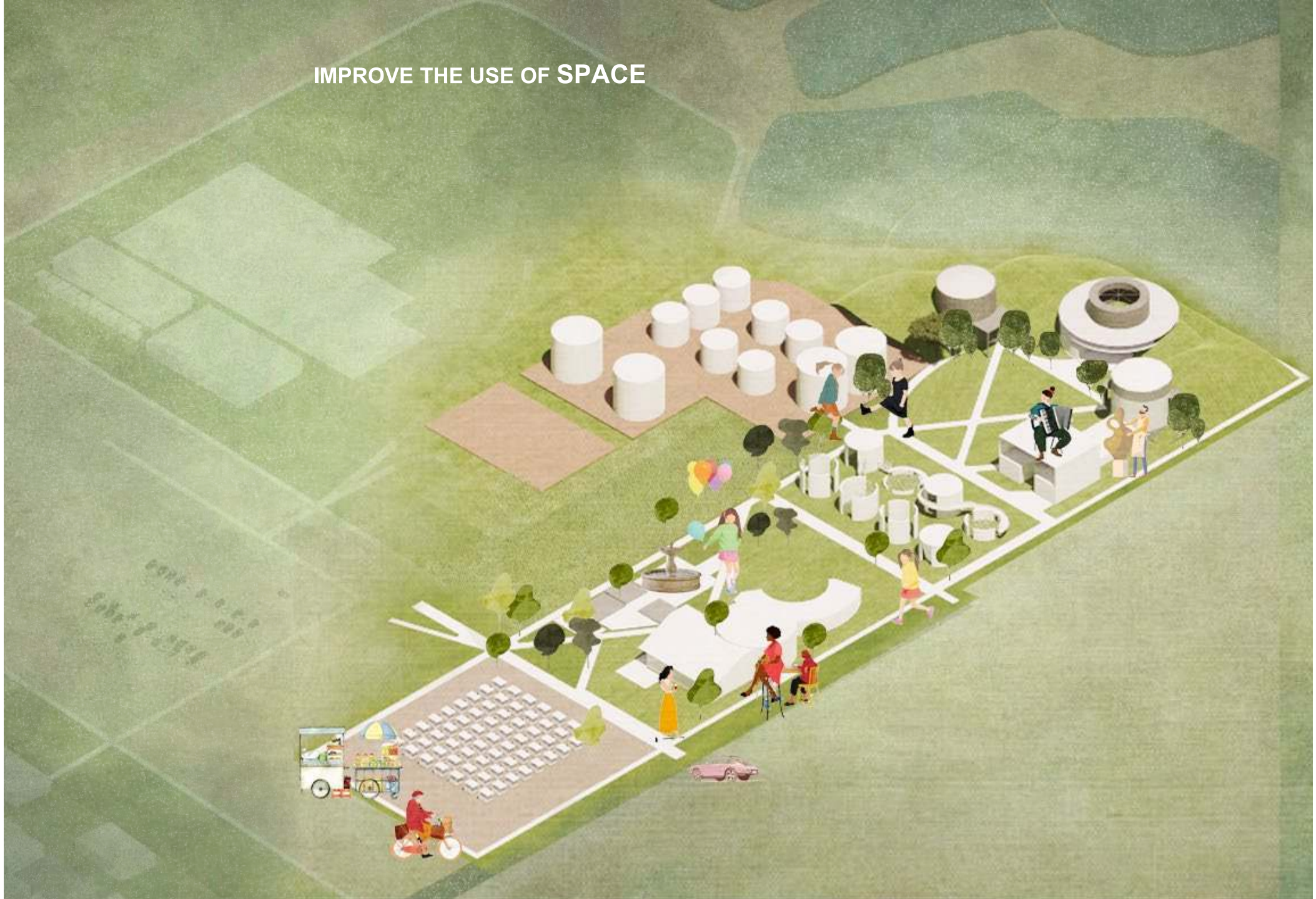
T1
T2

T1

CULTURE PARK
FANG , CHIANG MAI



IMPROVE THE USE OF SPACE



T3
T1

Historic Oil Refinery Cultural Park

by Apitsada Rattanamas (INDA ' 16)

The Northern Petroleum Development Center, under the Defense Energy Department, occupies a vast and resource-rich land in Fang, Chiang Mai. This site, historically significant as the birthplace of Thailand's petroleum industry, has contributed immensely to the nation's energy sector, generating over 300 MB annually with an oil extraction capacity of 1,800 barrels/day. It has played a key role in the success of major petroleum corporations such as PTT and Bangchak.

However, despite its high revenue, the site's land-use efficiency remains questionable. As oil reserves are finite and expected to deplete in the coming decades, the long-term sustainability of the site is uncertain. With large portions of the land underutilized or abandoned, there is a need to rethink its purpose and maximize its potential.

I propose transforming this historic site into a sustainable, publicly accessible space that benefits all citizens by repurposing infrastructure and integrating innovative, community-focused programs.

This project transforms an industrial legacy into a dynamic, future-ready destination. By incorporating elements such as renewable energy, cultural attractions, and community-focused spaces, we can create a landmark that serves both local and national interests, fostering economic growth, environmental responsibility, and social inclusion.