

1st Prize, Topic 2 Tertiary Category

The Duty of Swamp

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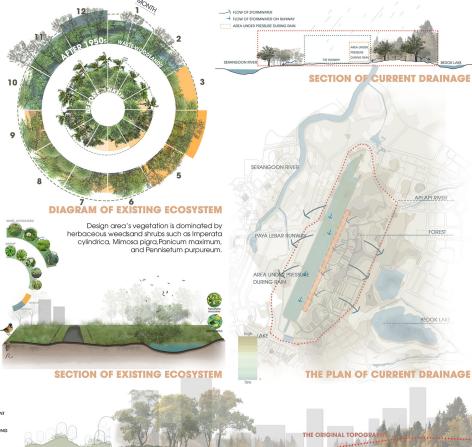
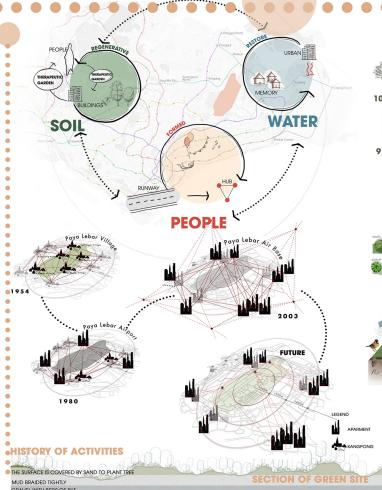
Minh Tri Nguyen

Ngoc Thai Hoa Le

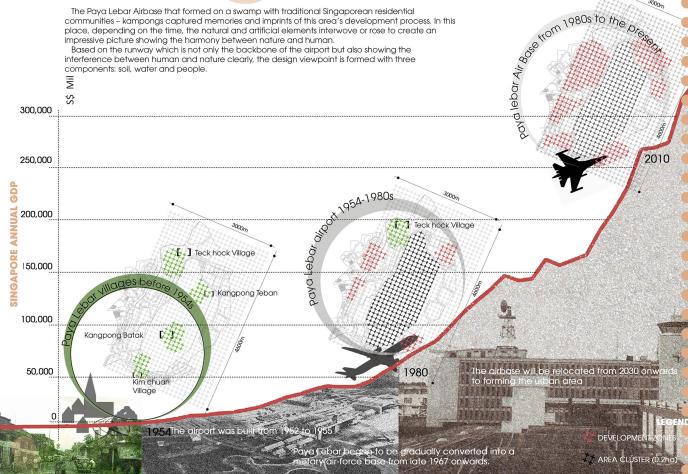
JURY CITATION:

The jury commended the scheme for its strong landscaping ideas and creation of different experiences along the runway by leaving part of the runway as it is to commemorate its aviation history and breaking up the other parts in varying degrees. The scheme is impressive in the way it has purposefully rehabilitated the runway while sensitively recycling concrete and tarmac from the existing runway to form waterways and riverbanks. The jury is impressed by the thoughtfulness of the scheme, and its beautiful drawings.

METHODOLOGY



THE PLAN OF CURRENT DRAINAGE



The Paya Lebar Airbase that formed on a swamp with traditional Singaporean residential communities - kampongs captured memories and imprints of this area's development process. In this place, depending on the time, the relationship among elements will change or rose to create an improved picture of the relationship between nature and humans.

Based on the runway which is not only the backbone of the airport but also showing the interference between human and nature clearly, the design viewpoint is formed with three components: soil, water and people.

Paya Lebar Air base from 1980s to the present

200m

2010

1980

1954 the airport was built from 1952 to 1955

The airbase will be relocated from 2030 onwards to forming the urban area

LEGEND

DEVELOPMENT AREA

AREA CLUSTER (0.2ha)

LESEN

PULAU JBN

MAGNA

BUILDING

SQUARE

KAMPONG

SWAMP

WETLAND

VILLAGE

STEP

RECEPTION 1

RECEPTION 2

RECEPTION 3

THE RUNWAY IS DISMANTLED COMPLETELY

THE RUNWAY IS MAINTAINED

BROKEN (80%)

BLOCK (5%)

REUSE 50% OF BLOCK

REUSE 10% OF BLOCK

REUSE 15% OF BLOCK

REUSE 20% OF BROKEN

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PARTICIPANTS' WRITE UP:

Taking Off from Kampongs, Landing at New Urban: The Duty of Swamp

The Paya Lebar Airbase was formed on a swamp with traditional Singaporean residential communities – kampongs, which captured memories and imprints of this area's development process. In this place, depending on the time, the natural and artificial elements are interwoven to create an impressive picture showing the harmony between nature and human. Nowadays, new urban areas are often planned without the historic context of nature and human interactions. Therefore "*Taking off from Kampongs, Landing at New Urban - The Duty of Swamp*" is the story of the swamp in which the role of natural factors is once again considered, to ensure the balance and harmony. The runway not only serves as the backbone of the airport but also showcases the interference between human and nature clearly. As such, the design viewpoint of the runway is formed with three components: soil, water and people.

Soil – Movements of soil:

- 1 Identifying runway paths that need to be completely removed or partially rehabilitated to avoid losing an area's historic footprint;
- 2 Addressing the movement of soil at the runway; and
- 3 Helping nutrient-rich areas form, so as to strengthen ecosystems.

Water – Retaining streams:

- 1 Rehabilitating lost natural waterways during the airport construction, affecting natural drainage;
- 2 Minimising the impact of flooding during urbanization; and
- 3 Reflecting on the basis of how traditional communities are formed.

People – Hubs of activities:

- 1 Forming the hubs that connect areas outside the airport;
- 2 Focusing on main areas of activities to avoid sprawling of costly facilities and reduce negative impacts on natural areas; and
- 3 Helping users to form awareness about historical development milestones.

In order to avoid unpredictable negative impacts on environment and landscape, the project is divided into three phases (over 10-15 years). The whole process shows that the transition from a boring runway to a lively landscape that not only promotes harmony between nature and human activities but also preserves the historical values of the area: kampongs - airbase - new urban.