



CAREC Senior Officials' Meeting and Related Events
Public-Private Partnership (PPP): Cross-border Projects and Success Stories

Sharing Korean PPP Experiences :
How to Prepare PPP Projects to Achieve the Stakeholders' Same Goals

17 Jun. 2025

Presented By GPF (Global PPP Forum, Korea)

Jong-Ho Ock, Ph.D. / GPF Chair (Honorary Faculty, Seoul ST Univ.)

Kyoo-Chul Shin, Ph.D. / GPF Board Member (VP, TOPEC Eng.)

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Who we are : GPF + TOPEC



- GPF Chair : **Jong-Ho Ock, Ph.D.**
- GPF as Gov. Acknowledged NPO (Non-Profit Organization)
- **Faculty at Seoul S&T University**
- **Ph.D. from U. of Colorado, Boulder.**
- **Government Scholarship**
- Served for **Ministry of Education** as Senior Officer
- GPF Board : **Kyoo-Chul Shin, Ph.D.**
- VP of TOPEC Eng. as Top 5 level Engineering Consulting Firm w/ 600+ Eng'rs and overseas specialized
- **Faculty at Keimyung Univ. at Daegu**
- **Ph.D. at Georgia Tech, Atlanta.**
- **Company Scholarship**
- Served for **HYUNDAI Eng. & Const.** in Overseas Div.

GPF Status



After establishing the legal basis by enacting the 'PPP Act' in 1994, Korea continued to expand its PPP business to achieve remarkable growth in both qualitative and quantitative aspects, accumulated experience and knowledge.

Based on that, the 'Global PPP Forum' was established in June 2018 for the purpose of:

- i) providing education and information on the core competencies of the PPP project for governments, companies, academia and organizations carrying out development-type overseas projects that require complex construction, operation and financing, and
- ii) strengthening the global competitiveness of the PPP industry by building a network of experts, making policy recommendations, fostering professional manpower, and researching to create jobs.

Currently, the global construction market is undergoing a paradigm shift in type of performing its business. It is transitioning from the traditional Design-Bid-Build structure, where the client secures resources for construction, to the Public Private Partnership structure that requires private investment/financing.

Given this trend of the times, the global PPP business is no longer an option, but an essential business area for survival.

We, Global PPP forum will sincerely serve as a partner contributing to the development of the global PPP sector.



TOPEC Status & Global Projects

OVERSEAS BUSINESS

TOPEC ENGINEERING is carrying out various range of projects in many countries as well as in Korea. With CM services and specialized systems, we continue to expand our global network.



With excellent and well-qualified engineers and architects, TOPEC has successfully completed various projects around the world. Such as hospitals, schools, training centers, and convention centers in Africa, the Middle East, South East Asia, and South America.

TOPEC has established overseas branch office in Vietnam, where close cooperation is underway with local firms in order to expand our PM/CM service in the region. As a major CM service provider to KOICA, we are currently working with them in the countries of Nepal, Pakistan, Sri Lanka, Bangladesh, Uzbekistan, Jordan, Mongolia, Iraq, etc.



What the Status of Korea is : From a Supported Country to a Supporting Country

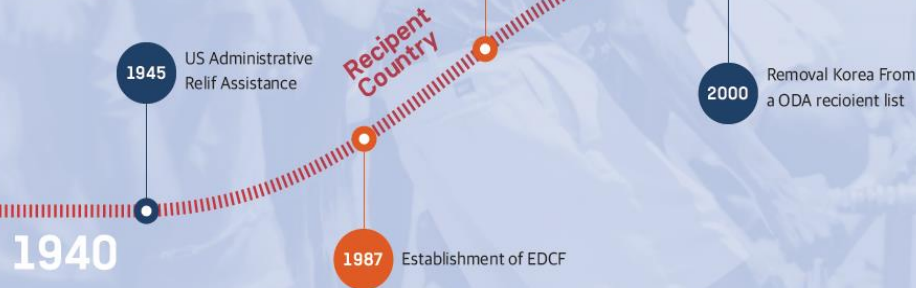
ODA-Based Korea's Take-Off

After the Korean war had ended, Korea soon became one of the poorest nations in the world however with targeted assistance of the international community Korea was able to take a giant leap forward in economic development.

According to the Third Mid-Term Strategy for Development Cooperation (2021-2025), the ODA disbursements have been increased to about KRW 12 trillion * from 2021 to 2023. Presently, the government is fulfilling its roles and responsibilities as a global pivotal state that contributes to solving the world-wide issues of responding to climate changes, transforming to digital, preventing pandemics, and recovering from a food crisis, etc.

1945~1999

Assistance Volume from the International community About USD 12.7 billion



2010~2023

Korea's International Development Cooperation Volume 3.7-fold Expansion

Donor country

2010

2010 Accession to the OECD DAC (Development Assistance Committee)

2016 Accession to International Aid Transparency Initiative (IATI)

2020 Overall Amendment to the Framework Act on International Development Cooperation

2021

Launch of the Office for International Development Cooperation and the Arrangement of the 3rd Mid-term Strategy Selection of the 3rd-Term Priority Partner Countries (27 Countries)

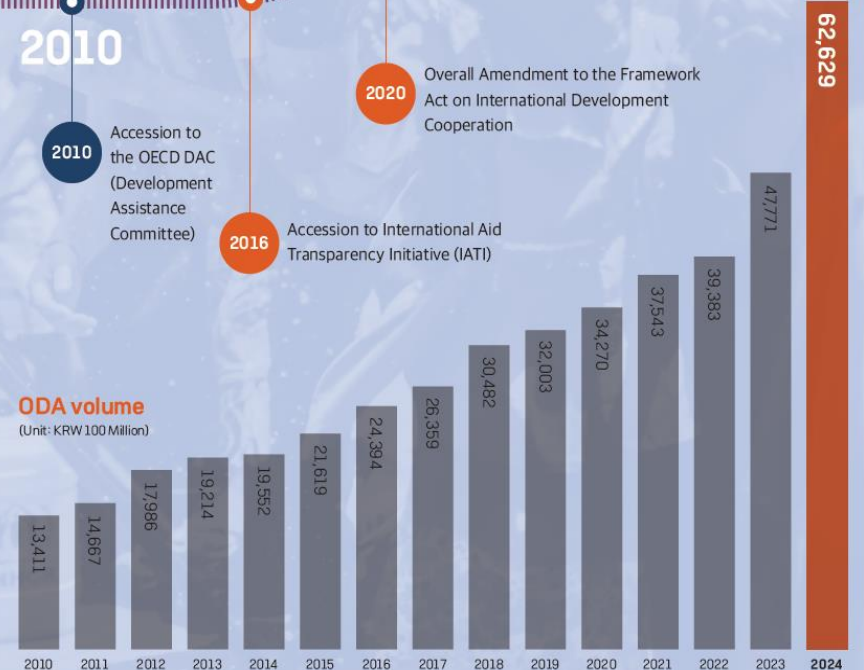
2022

New Government's International Development Cooperation Arrangement of ODA System

2024

A Global Pivotal State

ODA volume
(Unit: KRW 100 Million)

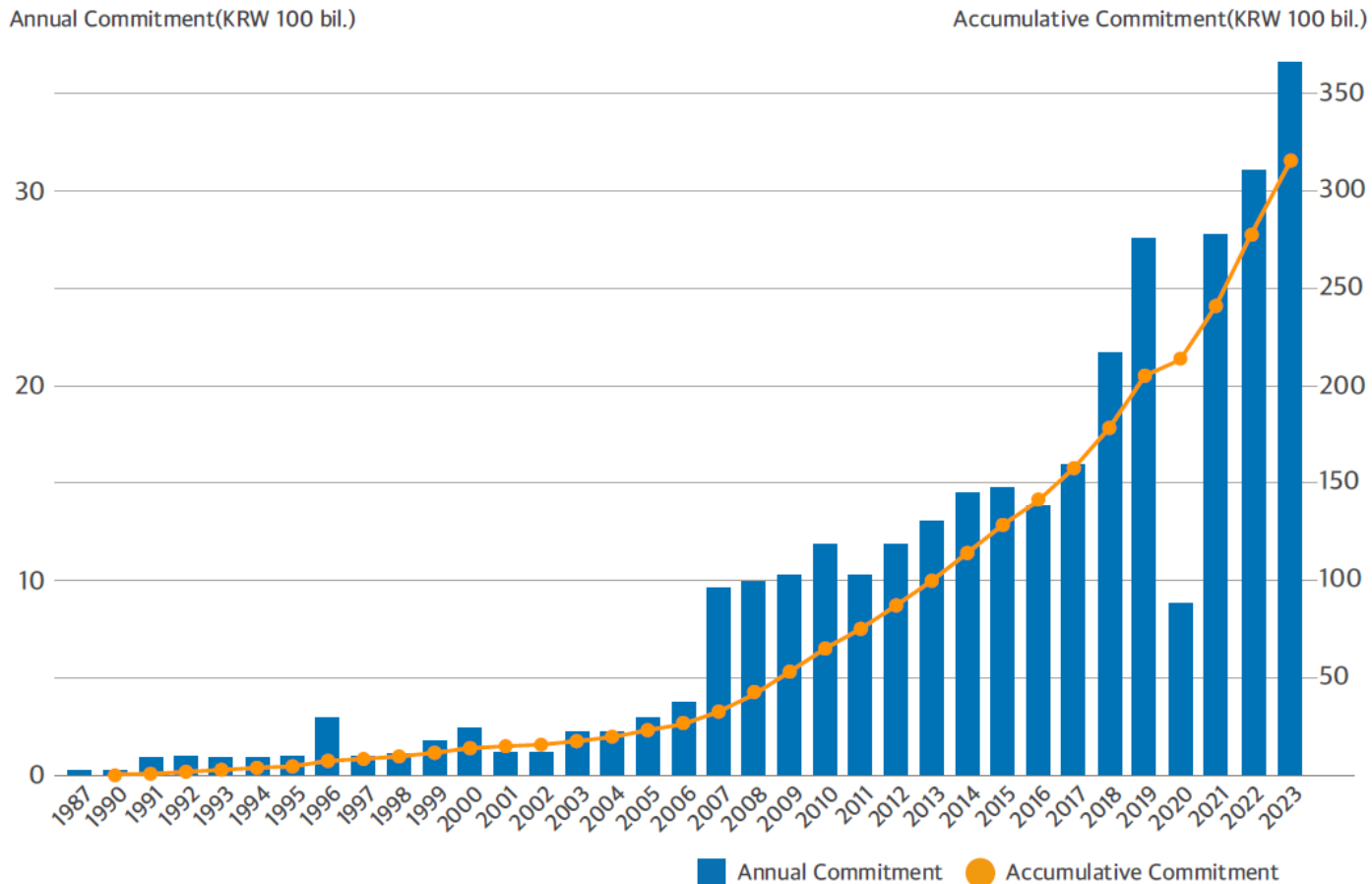


* The Latest ODA Volume: KRW 3.8 trillion in 2021, KRW 3.9 trillion in 2022, KRW 4.8 trillion in 2023.

Annual Commitment by KOREA

- Rapid Change in every aspects

◆ 1987-2023 Annual Commitment and Accumulative Commitment



A sample case in Digital Education

Past and Present–Day of the Korea International
Development Cooperation

Science Technology & Digital



KIST
(Source: KIST)

Korea Institute of Science and Technology (KIST) was established with the assistance from the US. Now, Korea is a genuine IT power, and is able to assist with digital projects suitable for each of the partner countries in terms of e-government, smart city, e-learning policy training for digital transformation and the infrastructure programs to reduce the digital divide.



Strengthening the public security sector in
Angola
(MOEF-KEXIM)

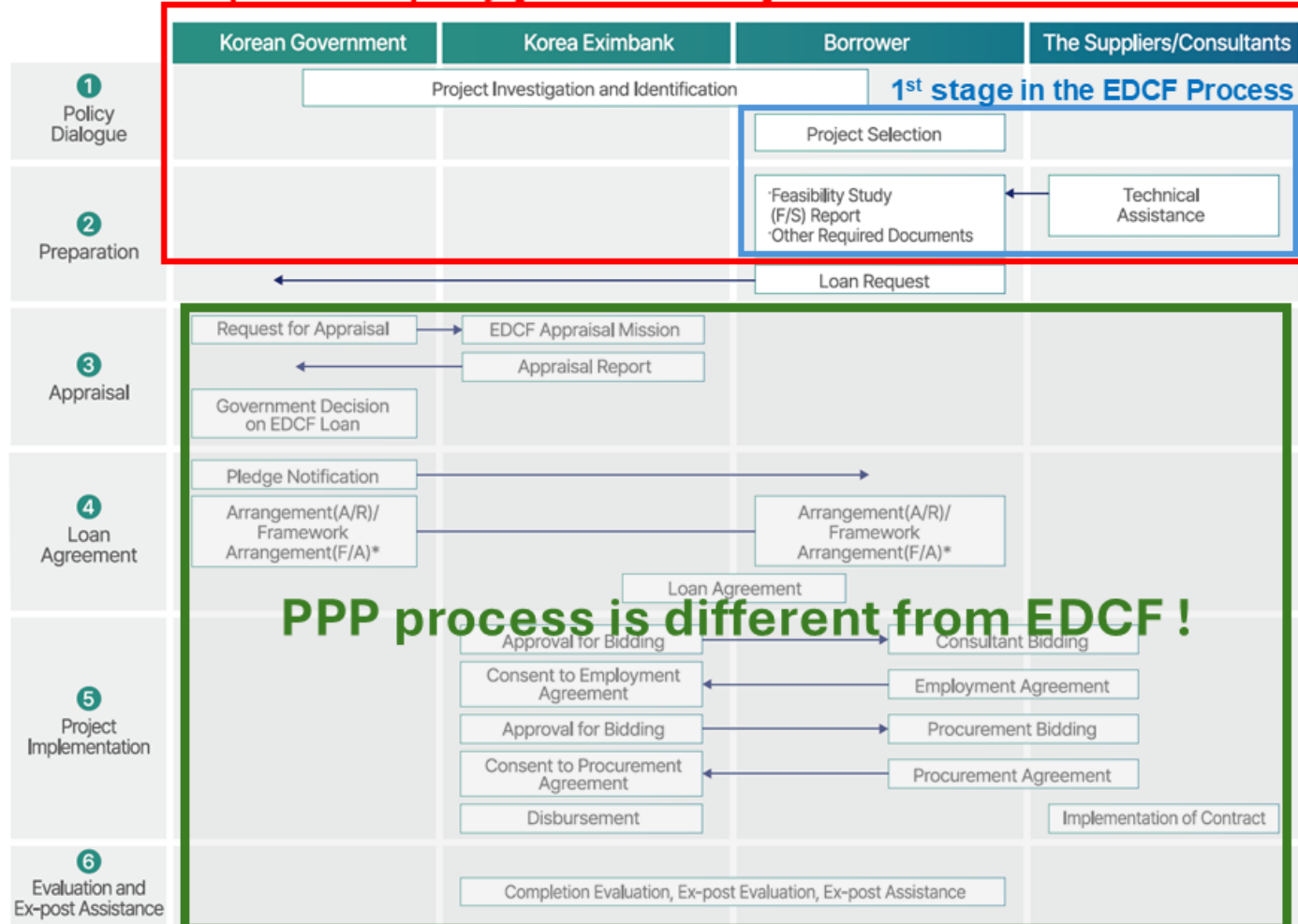


WFK IT Volunteers for ICT Training in Thailand
(Source: NIA)

Core Issue [1]: For the potential PPP Project -Investigation, -Identification, -Selection, and -F/S Report

Proposed Scope by [GPF + TOPEC]

EDCF
Loan
Procedure



*If the two governments sign a Framework Arrangement, they are allowed to omit an Arrangement for an individual project.

Core Issue [2]: For the PPP Agency in each Country

- **In case the PPP process may not be well established**
 - The status is as follows :
 - **Legal and Administrative processes** need to be defined further
 - **Benefits and Risks** may not be well distributed
 - Lack of **Marketable, Profitable, and Sustainable Concept** for the Stakeholders
 - The Stakeholders may have **different 'Goal' for success**
- **What we, the Korean team as Advisors, can support**
 - **Share the Trial and Error** in Korean PPP Projects for the Agency/Unit.
 - **The Innovative Role & Approach** of the Agency/Unit.
 - The **regular diagnosis** of the Proposal and F/S Reports.
 - Consulting the Agency based on the proven experiences of Korean PPP.
 - Sharing that **every circumstance changes along the Progress.**

Conclusions

- [1] [GPF+ TOPEC] supports the Participants with **established Collective Knowledge and Experiences** of Korean PPP.
- [2] We can support **identifying a potential PPP Project**.
- [3] We can support to **transfer of Knowledge and Experiences** of Korea to the participating Agencies.

Appendix #1 : As PPP, Batam Airport in Indonesia

DESIGN AND BUILD OF HANG NADIM
INTERNATIONAL AIRPORT DEVELOPMENT PROJECT

HANGNADIM
BATAM
INTERNATIONAL
AIRPORT

KICK OFF MEETING

Batam, 7 February 2023



In Association
With



DESIGN AND BUILD CONTRACTOR FOR HANG NADIM INTERNATIONAL AIRPORT DEVELOPMENT PROJECT AT BATAM

- Location : Batam, Riau Islands
- Owner : PT Bandara Internasional Batam
- Time Schedule (for Phase 1) : **21 October 2022 – 31 May 2025 (953 Calendar Days)**
- Defect Notification Period : 18 months
24 months for MEEP Main Equipment
- Final Cost After Negotiation : Rp 2.181.000.000.000,-
- Scope of Works :
- a. Refurbishment Terminal 1;
 - b. Construction of New Terminal 2;
 - c. Expansion of Existing Apron;
 - d. Additional Cross-Field Taxiway and Rapid Exit Taxiway;
 - e. Ancillary / Utility Buildings Development and Landscape (Landside).



9 November 2022

KONTRAKTOR RANCANG DAN BANGUN UNTUK PROYEK PENGEMBANGAN BANDAR UDARA INTERNASIONAL HANG NADIM DI BATAM
DESIGN AND BUILD CONTRACTOR FOR HANG NADIM INTERNATIONAL AIRPORT DEVELOPMENT PROJECT AT BATAM

Stakeholder Management

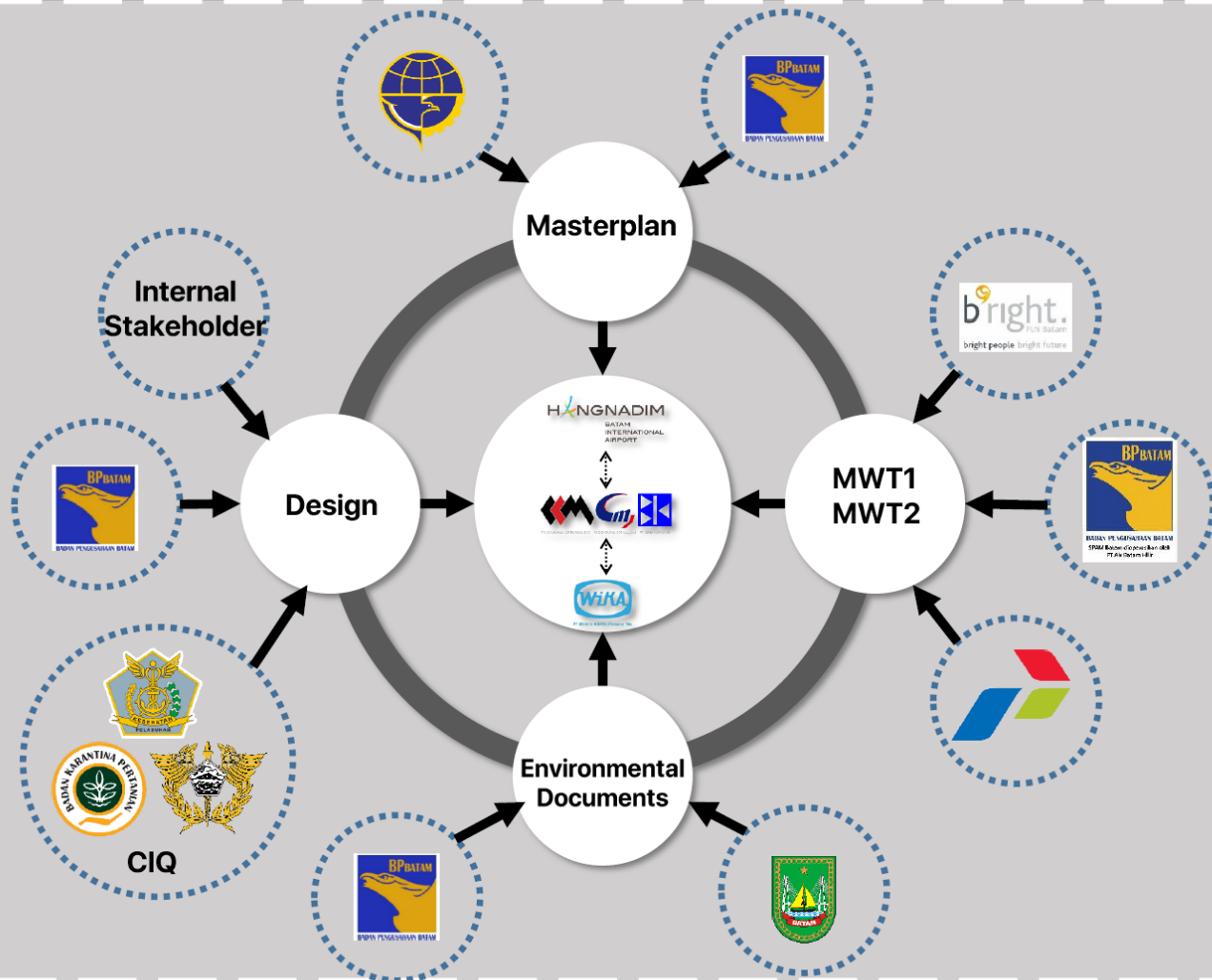


Internal Stakeholder

1. Operation
2. Commercial
3. Aviation Security

External Stakeholder

1. BP Batam
2. Ministry of Transportation
3. Customs
4. Immigration
5. Quarantine
6. PLN
7. Pertamina
8. SPAM
9. PTSP



1. Executive Summary

This document comprises of PT Bandara Internasional Batam ("BIB") Long Term Corporate Strategic Plan for the year 2022-2026. It contains a discussion of the main aspects that BIB plan to perform for the next five years by also aligning their value with stakeholder as well as assessing the current outlook and current operation performance.

1.1 Introduction

For the first five years of its operation, BIB has established an aspiring vision that aims to transform Hang Nadim airport to be a better airport than before, as follow:

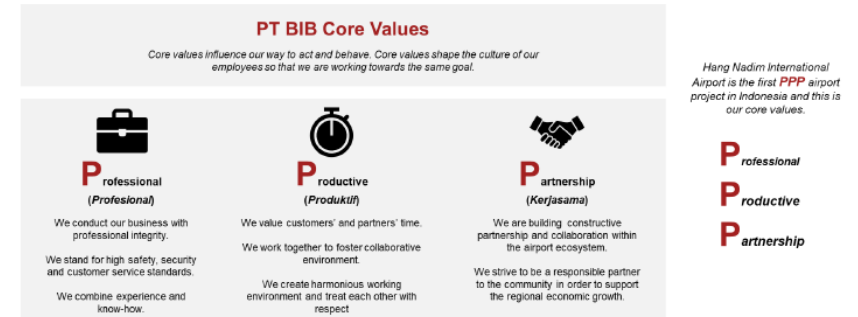
"Transform Hang Nadim Airport to the next level and provide a pleasant experience for passengers"

To achieve the vision of the company, BIB is committed to the following missions:

1. Delivering modern airport infrastructure by existing terminal refurbishment and new terminal development
2. Progressively improving airport service quality to meet international standards
3. Optimizing synergy with shareholders to create value by intensification of existing business and new business development
4. Becoming a role model for Airport PPP best practice in Indonesia
5. Leveraging partnership and synergy with all stakeholders to revitalize Batam economic development 2021.

Furthermore, Core values are also set up to support the company's vision and mission and shape the culture of its employees so that they are working towards the same goal. BIB's core values are as follow:

Figure 1 BIB Core Values



BIB is committed to achieve its vision, and along the progress in reshaping the BTH operation. The following figure explains the business development of BIB within the next five years.

2022-2026

LONG-TERM CORPORATE STRATEGIC PLAN

PT Bandara Internasional Batam

Appendix #2: As EDCF, Solongo Housing in Mongolia

**Solongo affordable housing
Complex 1&2 project**



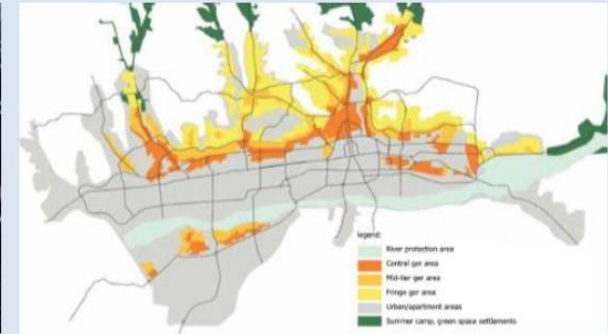
How does 5,002 Housing project become the SDGs issue ?

Consultancy Services for Solongo Affordable Housing Complex
1 & 2 Project

Detailed Design Report

2022. 05. 20

1. Background & Goal

Housing Shortage and
Environmental Pollution in UBHousing Supply and
Environmental Improvement PoliciesImplementation of Ger
redevelopment policies

Improvement of the living conditions for low-income residents in the Ger area
(More than 200,000 households, or 60 % of Ulaanbaatar's population, live in the Ger area)



Improvement of air quality in Ulaanbaatar
by reducing the Ger area

Solongo Affordable
Housing 1&2

Project Goal

Achieving mid-term goals of construction of public housing
(GoM's housing supply plan :
150,000 households public housing
construction programs
from 2019 to 2023)



Strengthening Cooperative System between
Mongolia and Korea

I 1. Project Understanding

2. Site Survey

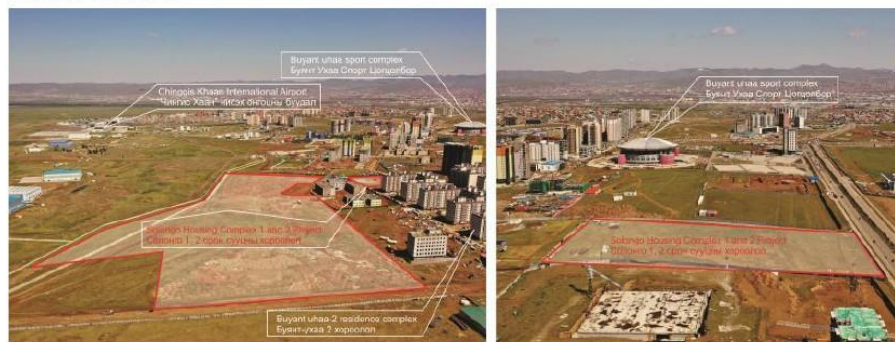
2.1 Site Location



Location : Mongolia, Ulaanbaatar, Khan-Uul District, Khoroo 21

The project site, located in Ulaanbaatar, Khan-Uul District, is divided into Solongo1 between Chinggis Khaan International Airport and the recently completed Buyant Ukhaa 2-2 (TOSK) and Solongo2 near Yarmag New Town. The two sites require a plan using the topography with a gentle slope of 5% on average. In particular, Solongo1 needs 2 bridges that crosses the flood prevention trench nearby the airport runway.

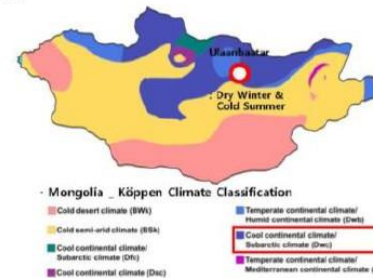
Site Photo View



2.2 Planning Conditions (Environmental Analysis)

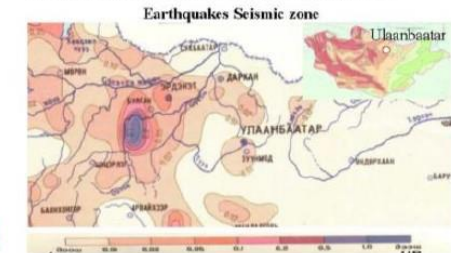
Ulaanbaatar Climate

Mongolia has an extreme continental climate with long, cold winters and short summers, during which most precipitation falls.



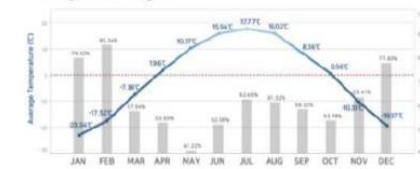
Ulaanbaatar Earthquakes

Earthquake danger is relatively rare in this site area. But it is necessary to study relevant specialist regarding the ability of construction and buildings in terms of earthquake seismic.



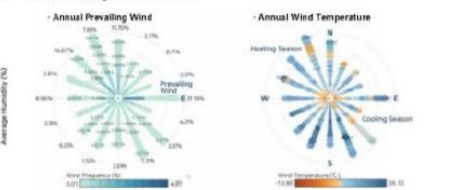
Average Temperature & Humidity

Ulaanbaatar has an average annual temperature of -2.9°C (26.8°F) and a frost-free period extending on the average from mid-may to late August.



Annual Prevailing Wind

Prevailing wind direction varies throughout the year. Mostly cool and dry winds blow.



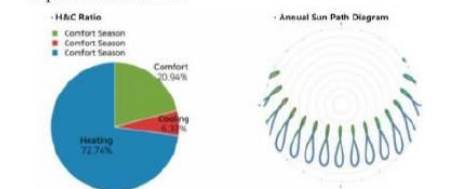
Solar Radiation

Due to cold temperature of the year, it is necessary to adopt solar radiation and to use internal heating throughout the year.



Comfort & Sun-Path Diagram

Increasing heating and high insulation performance is needed to improve indoor comfort.



I 3. Masterplan



Solongo1 : 8~9 floor 36 buildings, 2,712

Solongo2 : 9 floor 30 buildings, 2,290

Central Plaza + Cluster Open space

Minutes of Discussion

on

**Solongo Affordable Housing Complex 1 Project
in Mongolia**

Between

The Government of the Mongolia

and

EDCF Appraisal Mission
of the Export-Import Bank of Korea
(Government Agency for the EDCF)

Dated November 28, 2019

EDCF LOAN AGREEMENT

NO. MON-18

Loan Agreement

(Solongo Affordable Housing Complex 1 Project)

between

THE GOVERNMENT OF MONGOLIA

Represented by

THE MINISTRY OF FINANCE OF MONGOLIA

And

THE EXPORT-IMPORT BANK OF KOREA

(Government Agency for the EDCF)

- Thank you for your attention !!