

MYANMAR KOEI INTERNATIONAL

“Engineering for a better future, a better world”



**ARCHITECTURE, DIGITAL SERVICES
AND NEW TECHNOLOGIES**
“Architecture Design, BIM/CIM, Metaverse VR/AR, New Digital Technologies”





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May 2024

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Japanese Quality, Quick Deliver
& Competitive prices

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01

About Us

Since 2019

Digital Technology Service Team

- MKI has developed a new business area (DX Technology) since 2019
- Provide a wide range of digital services to NKG & other private & international clients
- Service with the guideline of R&D Center, NK Digital Technology Promotion Department, NK Urban Space (formerly Tamano consultant) & others

DX Application

- Autodesk products : Auto CAD, Civil 3D, Revit, Infracore, etc.
- 3D modeling and rendering software : 3ds Max, Blender, ArchiCAD, Sketchup and
- VR/AR/Metaverse application software : Unity, Unreal, Twin Motion, Lumion.

02

Our Vision & Mission

Japanese Quality, Quick Deliver
& Competitive prices

Our Vision

“Act with integrity and Contribute to society through technology and engineering”

Our Mission

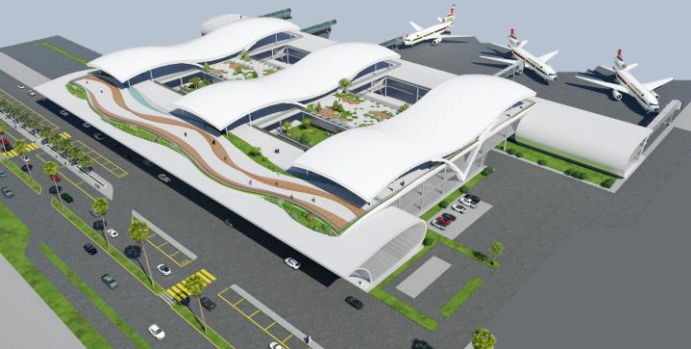
“Services with Japanese Quality Level and strength with Quality, Quick Delivery and competitive prices”

03 Our Services



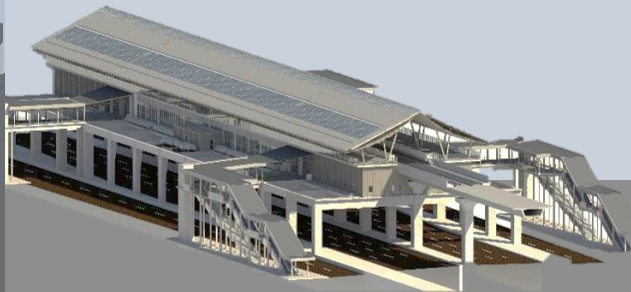
DESIGN & MODELING

- 3D Modeling & Animation
- Architecture Conceptual Designs
- Architectural Visualization
- Urban and Planning Services
- Transportation Planning



BIM/CIM

- Urban & Infrastructure Development
- Road & Bridge Construction
- BIM/CIM Modeling
- Quantity Calculation
- Construction Documentation



ANIMATION, AR/VR

- Virtual World Creation & Design
- Augmented Reality (AR), Virtual Reality (VR) & Mixed Reality (MR) Development
- Step by Step Construction Animations



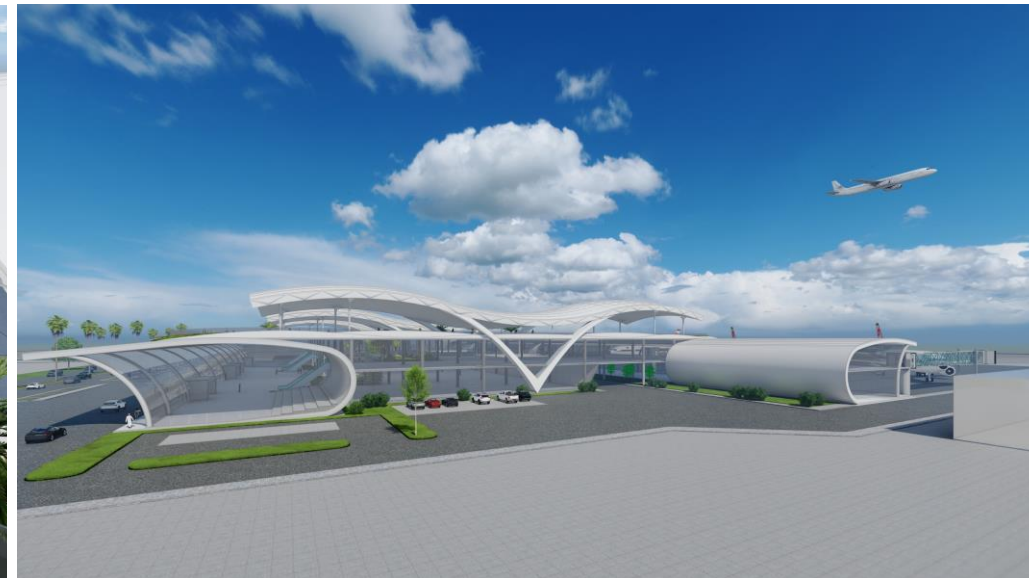
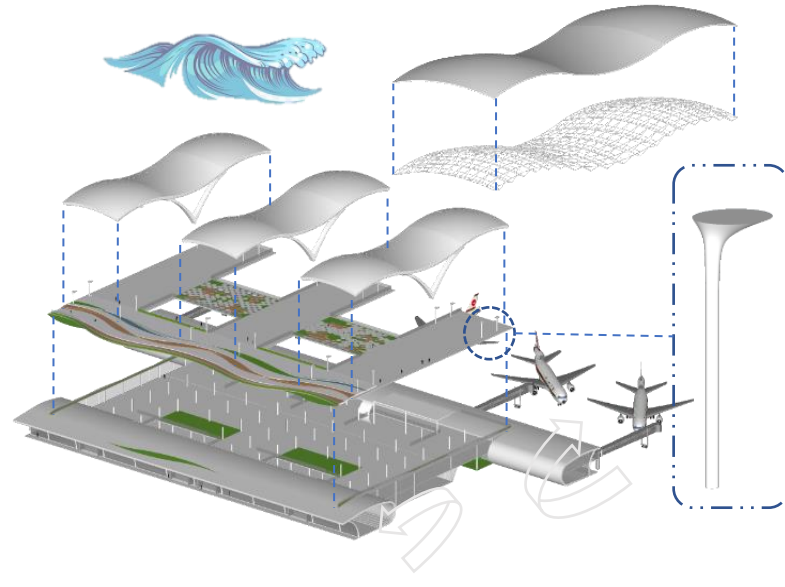
PROGRESSIVE DX CONTENTS

- Metaverse
- Spatial Reality Display
- Visual Effects (VFX)
- Drone Mapping
- Interactive Simulations
- Sea Wave & Water Flow Simulations



04 Highlighted Projects

DESIGN & MODELING



Airport Conceptual Design

Project Location - Asia
architectural assistant for the technical proposal service ,
the design concept is inspired from the ocean waves.

DESIGN & MODELING



Design Development of TMIT

(Administration Building)

Project Location - Myanmar

Architectural Design Development for Thilawa
Multipurposed International Terminal (TMIT) port.



DESIGN & MODELING



Urban Development Modeling

Project Location - Japan
Modeling and rendered presentation of the future urban development plan for land area .



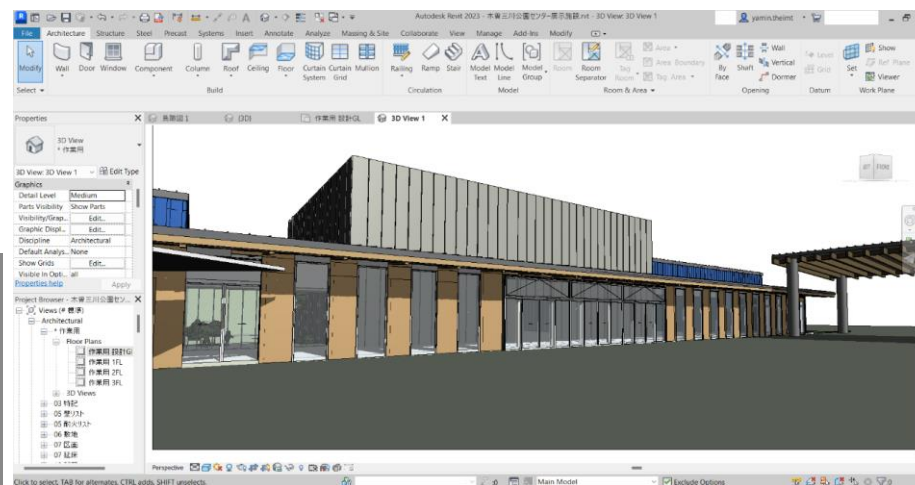
DESIGN & MODELING



International Airport Modeling

Project Location - Asia
Involved in the creation of 3D models and enhanced visualization images for the renovation and extension of the existing area of the airport terminal,

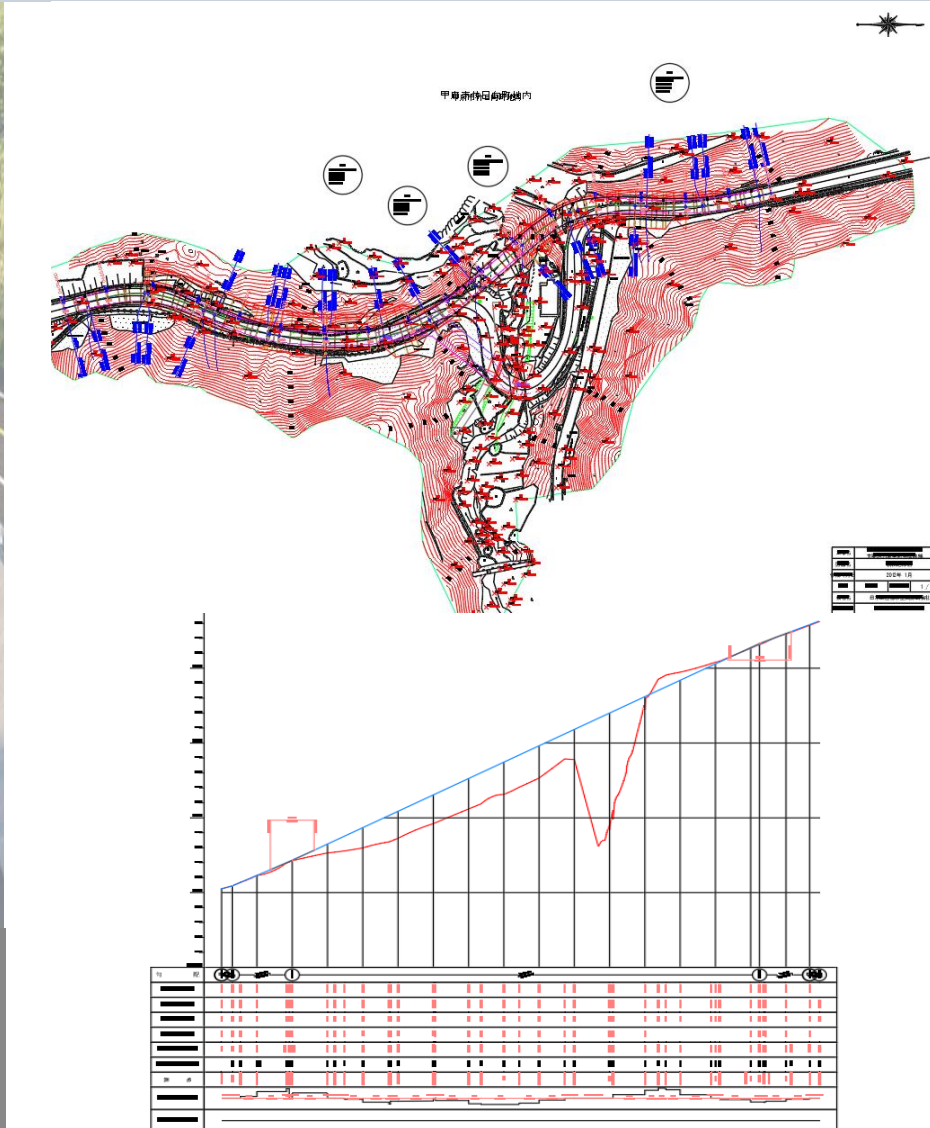
DESIGN & MODELING



City Public Space Landscaping

Project Location - Japan
Creation of 3D modeling for design review and development process of City's Public Area Landscape project.

BIM/CIM



Highway Road Modeling

Project Location - Japan
Modeling of the Highwayroad proposed Design using Japanese standard CIM and rendered for visualization.

BIM/CIM



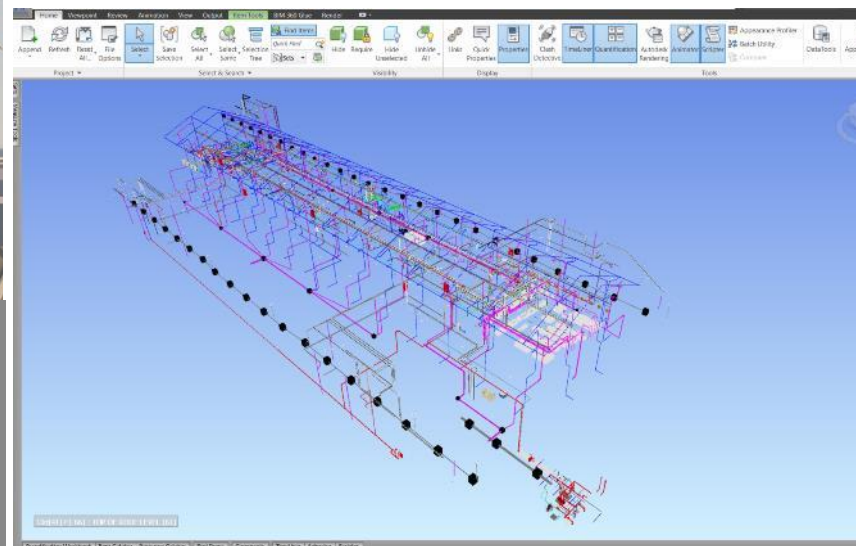
BIM Model of MRT Station



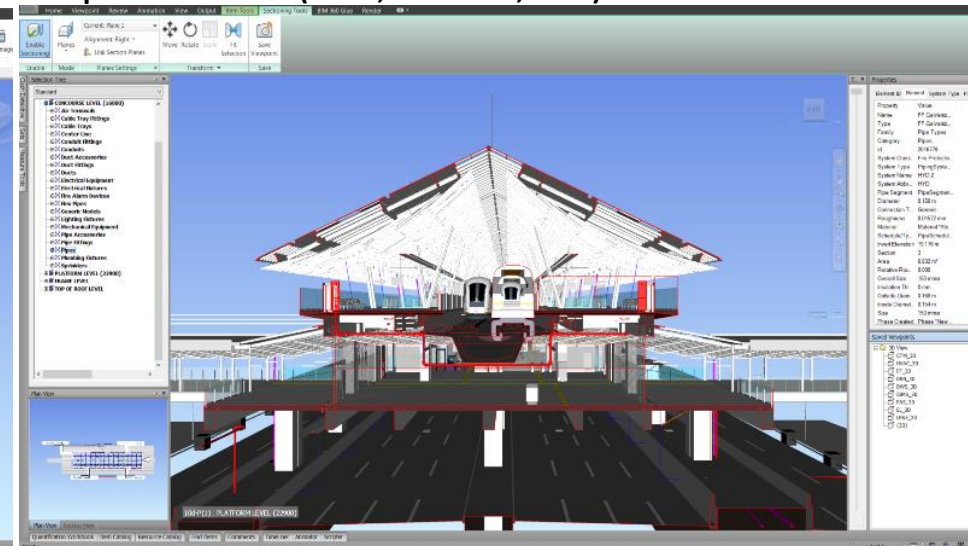
Clash Detection on Coordination Model

	Clash1 New	-0.075	4a-F : CONOURSE LEVEL (16000)	Hard	2023/11/17 07:24	x:-48.341, y:-42.358, z:18.637	Element ID: 3112993	CONOURSE LEVEL (16000)	Cable Tray with Fittings	Element ID: 2952833	CONOURSE LEVEL (16000)	Glass	Solid
	Clash2 New	-0.047	C-3 : CONOURSE LEVEL (16000)	Hard	2023/11/17 07:24	x:-61.966, y:4.186, z:18.704	Element ID: 3092926	CONOURSE LEVEL (16000)	Cable Tray with Fittings	Element ID: 2969967	CONOURSE LEVEL (16000)	Metal-RAB Lighting-Aluminum-White	Solid
	Clash3 New	-0.037	10b-A : GL	Hard	2023/11/17 07:24	x:48.305, y:42.960, z:11.150	Element ID: 3876082	CONOURSE LEVEL (16000)	Cable Tray with Fittings	Element ID: 2952833	GL	Glass	Solid
	Clash4 New	-0.031	11b-D : RAIL LEVEL (21800)	Hard	2023/11/17 07:24	x:70.666, y:-8.117, z:21.881	Element ID: 3096610	CONOURSE LEVEL (16000)	Cable Tray with Fittings	Element ID: 2969998	<No level>	Luceco-Diffuser-On	Solid
	Clash5 New	-0.026	11b-C : RAIL LEVEL (21800)	Hard	2023/11/17 07:24	x:66.683, y:8.474, z:22.150	Element ID: 3577191	CONOURSE LEVEL (16000)	Cable Tray with Fittings	Element ID: 2969998	<No level>	20 W LED LINERA BATTEND PBTM07207 RADAR SENSOR 6500K-PANASONIC	Solid

MEP BIM Model of MRT Station



Comprehensive BIM (Archi, Structure, MEP) Model

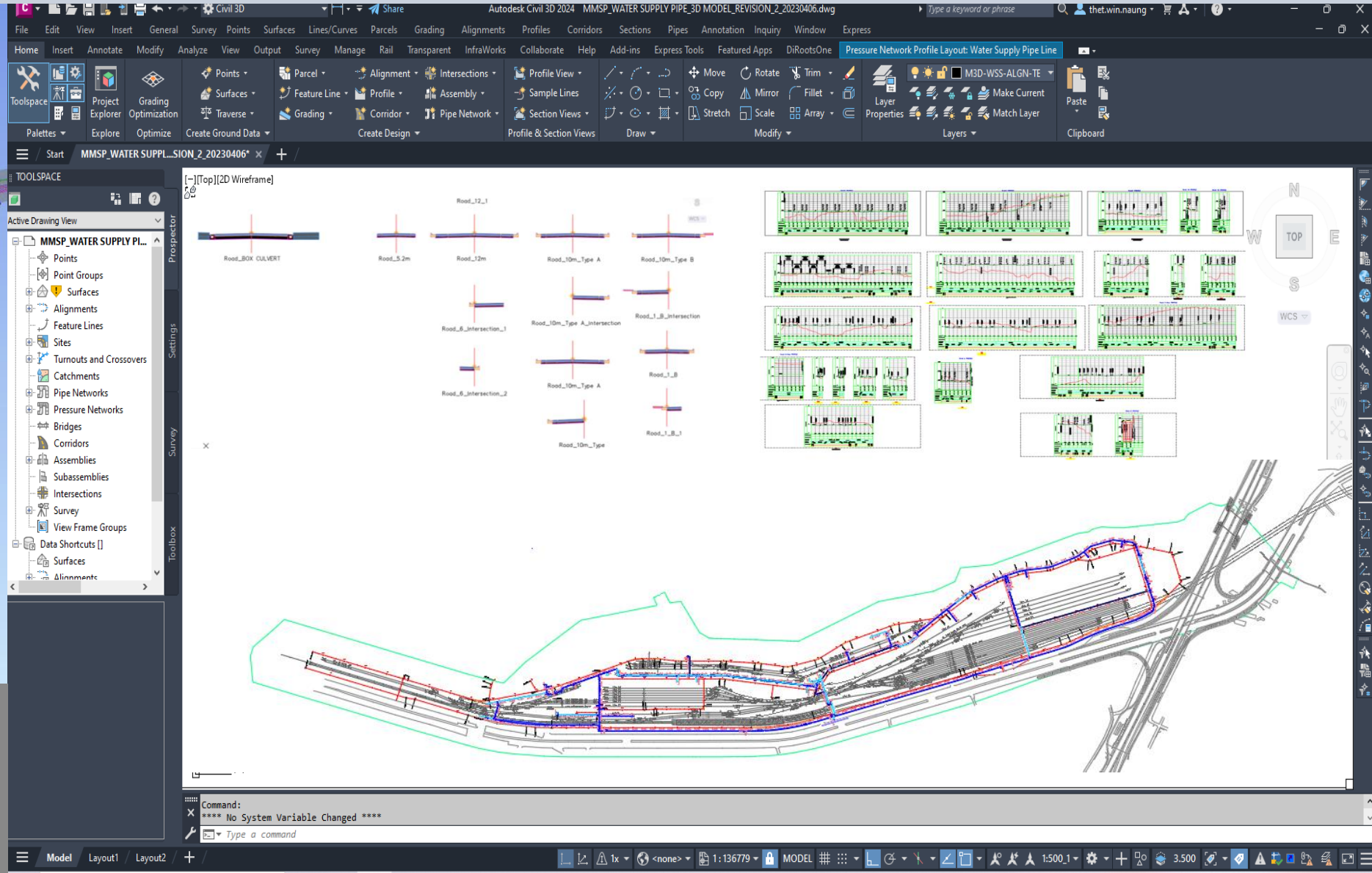
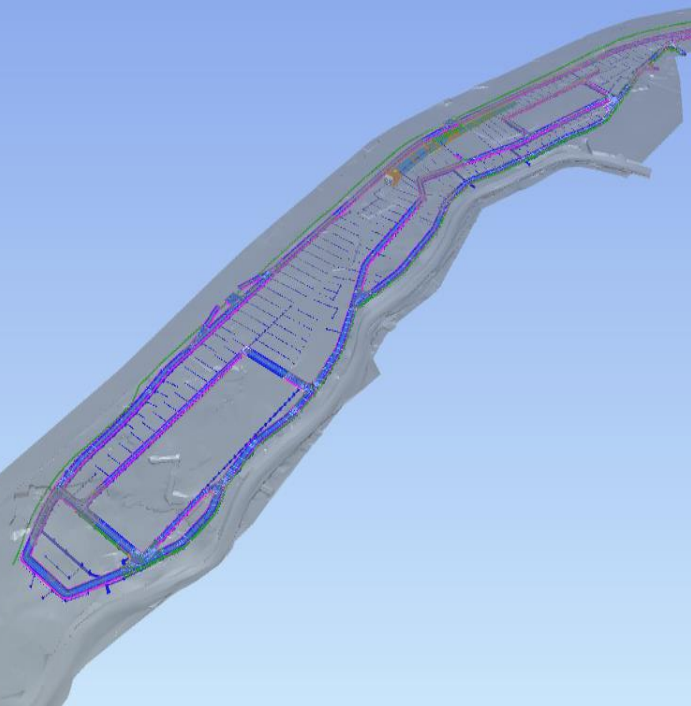


MEP BIM Modeling Projects

Project Location - Asia
MEP BIM modeling and clash detection of MRT stations using clash matrix for proper coordination consideration with architecture, structural and future design developments.



BIM/CIM



Subway Depot Project

(Underground Facilities)

Project Location - South East Asia

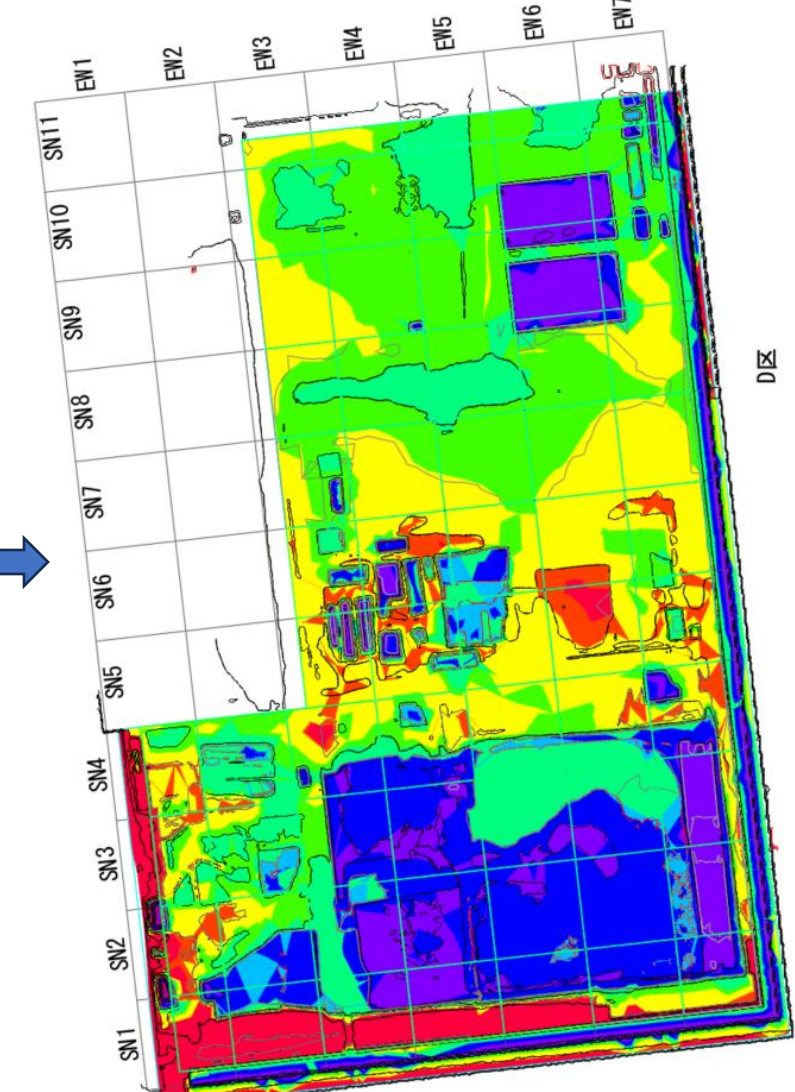
CIM modeling of underground facilities of Subway depot project with international standards BIM/CIM guidelines.

Drawn separately in Civil3d and combined using Navisworks.

BIM/CIM

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CF_SW1-EW1	1.000	1.000	5199.85sq.m	0.22 Cu. M.	24479.22 Cu. M.	24478.91 Cu. M.
CF_SW1-EW6	1.000	1.000	8396.09sq.m	0.00 Cu. M.	18907.45 Cu. M.	18907.45 Cu. M.
CF_SW1-EW2	1.000	1.000	8396.72sq.m	0.00 Cu. M.	27485.37 Cu. M.	27485.37 Cu. M.
CF_SW3-EW6	1.000	1.000	10000.00sq.m	0.00 Cu. M.	12597.08 Cu. M.	12597.08 Cu. M.
CF_SW1-EW5	1.000	1.000	8396.30sq.m	0.00 Cu. M.	22416.82 Cu. M.	22416.82 Cu. M.
CF_SW2-EW7	1.000	1.000	8547.40sq.m	0.00 Cu. M.	9756.56 Cu. M.	9756.56 Cu. M.
CF_SW2-EW3	1.000	1.000	7176.46sq.m	0.00 Cu. M.	17741.87 Cu. M.	17741.87 Cu. M.
CF_SW5-EW5	1.000	1.000	10000.00sq.m	0.00 Cu. M.	23777.54 Cu. M.	23777.54 Cu. M.
CF_SW2-EW2	1.000	1.000	10000.00sq.m	0.00 Cu. M.	28464.40 Cu. M.	28464.40 Cu. M.
CF_SW4-EW1	1.000	1.000	6092.46sq.m	0.00 Cu. M.	22142.66 Cu. M.	22142.66 Cu. M.
CF_SW2-EW4	1.000	1.000	10000.00sq.m	0.00 Cu. M.	10001.74 Cu. M.	10001.74 Cu. M.
CF_SW7-EW2	1.000	1.000	7691.22sq.m	0.00 Cu. M.	18745.70 Cu. M.	18745.70 Cu. M.
CF_SW7-EW7	1.000	1.000	8542.29sq.m	0.00 Cu. M.	19979.58 Cu. M.	19979.58 Cu. M.
CF_SW2-EW6	1.000	1.000	10000.00sq.m	0.00 Cu. M.	10063.48 Cu. M.	10063.48 Cu. M.
CF_SW8-EW2	1.000	1.000	7691.43sq.m	0.00 Cu. M.	8781.20 Cu. M.	8781.20 Cu. M.
CF_SW5-EW4	1.000	1.000	10000.00sq.m	168.99 Cu. M.	22560.87 Cu. M.	22391.88 Cu. M.
Totals			540383.08sq.m	20254.89 Cu. M.	1074604.16 Cu. M.	1054349.27 Cu. M.
CF_SW2-EW5	1.000	1.000	10000.00sq.m	0.00 Cu. M.	10077.25 Cu. M.	10077.25 Cu. M.
CF_SW5-EW5	1.000	1.000	10000.00sq.m	5.70 Cu. M.	11547.24 Cu. M.	11541.54 Cu. M.
CF_SW6-EW2	1.000	1.000	7691.00sq.m	143.87 Cu. M.	17453.56 Cu. M.	17309.70 Cu. M.
CF_SW9-EW4	1.000	1.000	10000.00sq.m	50.90 Cu. M.	11295.32 Cu. M.	11244.42 Cu. M.
CF_SW10-EW5	1.000	1.000	10000.00sq.m	0.00 Cu. M.	11407.58 Cu. M.	11407.58 Cu. M.
CF_SW9-EW6	1.000	1.000	10000.00sq.m	7784.91 Cu. M.	1692.64 Cu. M.	5792.27 Cu. M.
CF_SW7-EW5	1.000	1.000	10000.00sq.m	0.00 Cu. M.	21012.99 Cu. M.	21012.99 Cu. M.
CF_SW10-EW3	1.000	1.000	7691.86sq.m	0.00 Cu. M.	9525.06 Cu. M.	9525.06 Cu. M.
CF_SW10-EW5	1.000	1.000	10000.00sq.m	6.06 Cu. M.	11470.02 Cu. M.	11463.97 Cu. M.
CF_SW3-EW7	1.000	1.000	8547.21sq.m	585.23 Cu. M.	5918.71 Cu. M.	5933.47 Cu. M.
CF_SW3-EW2	1.000	1.000	6192.82sq.m	2.78 Cu. M.	21949.04 Cu. M.	21946.26 Cu. M.
CF_SW3-EW1	1.000	1.000	10000.00sq.m	0.00 Cu. M.	31206.57 Cu. M.	31206.57 Cu. M.
CF_SW3-EW2	1.000	1.000	10000.00sq.m	0.00 Cu. M.	16184.12 Cu. M.	16184.12 Cu. M.
CF_SW6-EW7	1.000	1.000	8546.63sq.m	0.00 Cu. M.	21236.79 Cu. M.	21236.79 Cu. M.
CF_SW2-EW5	1.000	1.000	10000.00sq.m	0.00 Cu. M.	13879.96 Cu. M.	13879.96 Cu. M.
CF_SW4-EW6	1.000	1.000	10000.00sq.m	0.00 Cu. M.	32304.87 Cu. M.	32304.87 Cu. M.
CF_SW4-EW7	1.000	1.000	8547.01sq.m	64.29 Cu. M.	23858.22 Cu. M.	23793.93 Cu. M.
CF_SW11-EW6	1.000	1.000	3234.72sq.m	0.00 Cu. M.	3869.94 Cu. M.	3869.94 Cu. M.
CF_SW4-EW2	1.000	1.000	9827.82sq.m	0.00 Cu. M.	30309.78 Cu. M.	30309.78 Cu. M.
CF_SW4-EW3	1.000	1.000	9974.94sq.m	0.00 Cu. M.	27862.09 Cu. M.	27862.09 Cu. M.
CF_SW4-EW4	1.000	1.000	10000.00sq.m	0.00 Cu. M.	26695.24 Cu. M.	26695.24 Cu. M.
CF_SW9-EW7	1.000	1.000	8460.07sq.m	1339.37 Cu. M.	8199.68 Cu. M.	6859.31 Cu. M.
CF_SW9-EW2	1.000	1.000	7691.64sq.m	0.00 Cu. M.	8800.53 Cu. M.	8800.53 Cu. M.
CF_SW6-EW4	1.000	1.000	10000.00sq.m	233.97 Cu. M.	20455.56 Cu. M.	20221.59 Cu. M.
CF_SW6-EW5	1.000	1.000	10000.00sq.m	2.02 Cu. M.	21068.90 Cu. M.	21066.88 Cu. M.
CF_SW6-EW1	1.000	1.000	6192.43sq.m	46.82 Cu. M.	21883.69 Cu. M.	21837.07 Cu. M.
CF_SW11-EW7	1.000	1.000	2726.65sq.m	174.24 Cu. M.	2824.46 Cu. M.	2750.22 Cu. M.
CF_SW5-EW2	1.000	1.000	7690.79sq.m	711.30 Cu. M.	17686.78 Cu. M.	16975.48 Cu. M.
CF_SW11-EW4	1.000	1.000	3234.26sq.m	0.00 Cu. M.	4482.10 Cu. M.	4482.10 Cu. M.
CF_SW11-EW5	1.000	1.000	3234.49sq.m	0.00 Cu. M.	3710.32 Cu. M.	3710.32 Cu. M.
CF_SW10-EW5	1.000	1.000	10000.00sq.m	6428.95 Cu. M.	5929.91 Cu. M.	506.04 Cu. M.
CF_SW10-EW6	1.000	1.000	10000.00sq.m	0.00 Cu. M.	22820.93 Cu. M.	22820.93 Cu. M.
CF_SW8-EW6	1.000	1.000	10000.00sq.m	937.44 Cu. M.	12510.90 Cu. M.	11573.46 Cu. M.
CF_SW8-EW7	1.000	1.000	8460.28sq.m	183.82 Cu. M.	12684.72 Cu. M.	12500.90 Cu. M.
CF_SW5-EW7	1.000	1.000	8546.82sq.m	0.00 Cu. M.	22744.25 Cu. M.	22744.25 Cu. M.
CF_SW1-EW2	1.000	1.000	8397.14sq.m	0.00 Cu. M.	37886.57 Cu. M.	37886.57 Cu. M.
CF_SW11-EW3	1.000	1.000	2487.64sq.m	0.00 Cu. M.	3972.30 Cu. M.	3972.30 Cu. M.
CF_SW7-EW4	1.000	1.000	10000.00sq.m	0.00 Cu. M.	11491.46 Cu. M.	11491.46 Cu. M.
CF_SW6-EW6	1.000	1.000	10000.00sq.m	0.00 Cu. M.	26553.74 Cu. M.	26553.74 Cu. M.
CF_SW2-EW2	1.000	1.000	10000.00sq.m	0.00 Cu. M.	11366.72 Cu. M.	11366.72 Cu. M.
CF_SW10-EW7	1.000	1.000	8459.86sq.m	1376.64 Cu. M.	8066.09 Cu. M.	6689.46 Cu. M.
CF_SW5-EW6	1.000	1.000	10000.00sq.m	0.00 Cu. M.	28092.86 Cu. M.	28092.86 Cu. M.
CF_SW7-EW4	1.000	1.000	10000.00sq.m	0.00 Cu. M.	21432.14 Cu. M.	21432.14 Cu. M.
CF_SW2-EW4	1.000	1.000	8396.51sq.m	0.00 Cu. M.	9817.30 Cu. M.	9817.30 Cu. M.
CF_SW1-EW4	1.000	1.000	8396.51sq.m	0.00 Cu. M.	28749.41 Cu. M.	28749.41 Cu. M.
Totals			540383.08sq.m	20254.89 Cu. M.	1074604.16 Cu. M.	1054349.27 Cu. M.



Land 3D Data Calculation Report

Project Location - Japan
Calculation for cut and fill volume of earthwork construction.

Given Topographic Data

Generated 3D Topo



ANIMATION, AR/VR



Thilawa Multipurposed International Terminal
Construction Sequence Animation



Thilawa Multipurposed International Terminal

Project Location - Thanlyin, Myanmar

Virtual representation of the TMIT port, showcasing functionalities from early Design development stage to End of Construction. The Construction sequence animation accompanied by the Augmented reality and Virtual Reality for enhancing collaboration and understanding between stakeholders.



ANIMATION, AR/VR

3-D PROJECT COMPLETION ANIMATION WITH CONSTRUCTION SEQUENCE OF MAJOR WORKS BAGO RIVER BRIDGE CONSTRUCTION PROJECT

The Employer: Ministry of Construction, Government of the Republic of the Union of Myanmar

The Engineer : Joint Venture of Nippon Koei Co., Ltd., Oriental Consultants Global Co., Ltd., Chodai Co., Ltd., Nippon Engineering Consultants Co., Ltd., Metropolitan Expressway Company Limited, Myanmar Koei International Ltd., In Association with Oriental Consultants Japan Co., Ltd.

The Contractor

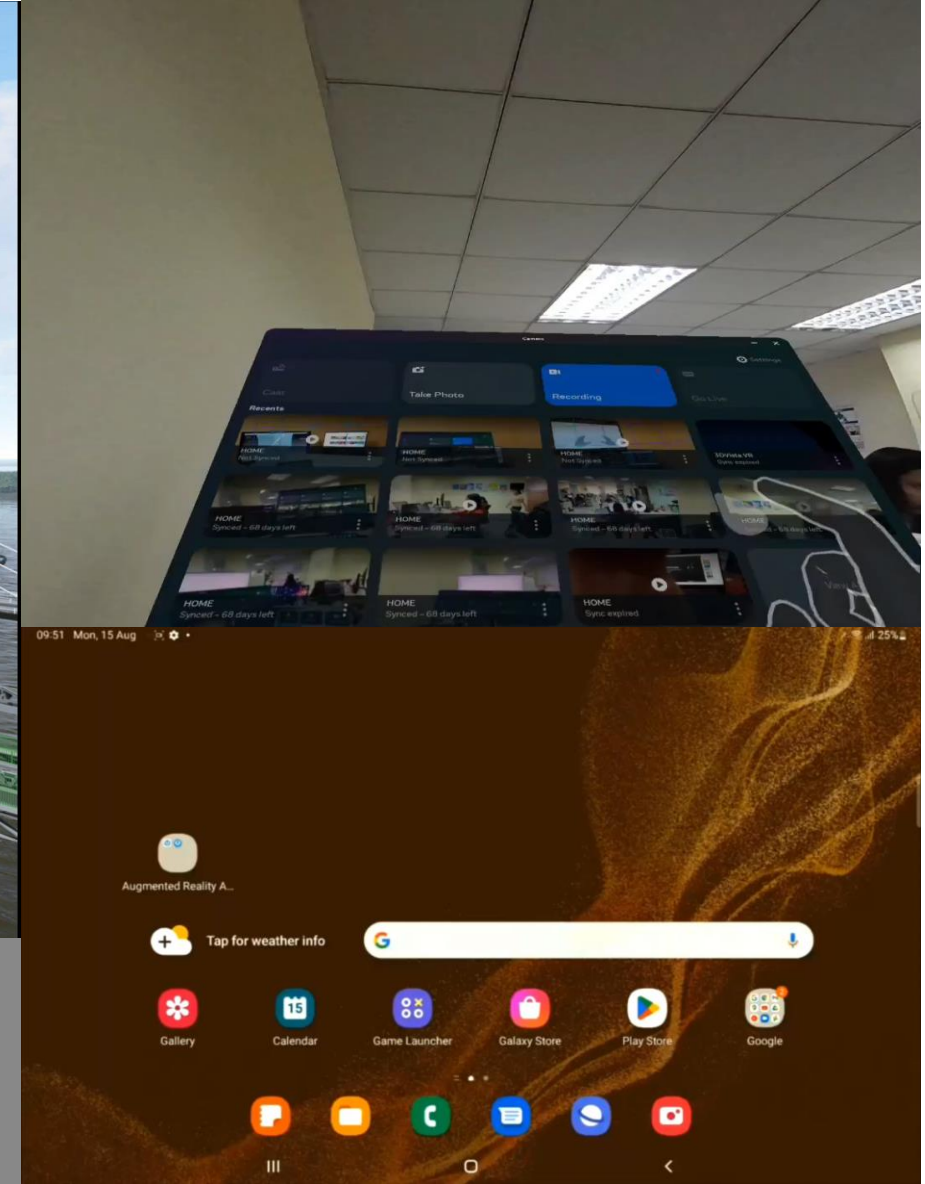
- Package 1&2: Sumitomo Mitsui Construction Co., Ltd. – Yokogawa Bridge Corporation Joint Venture
- Package 3 : Tokyu Construction Co., Ltd.



BRBC Construction Animation

Project Location - Bago, Myanmar

The objective is to showcase the project's progress, key milestones, and construction methodology through a realistic and engaging visualization. The animation will serve as a powerful communication tool for stakeholders, facilitating understanding and enhancing collaboration.






PROGRESSIVE DX CONTENTS

MKI Office Metaverse Demo

NIPPON KOEI

MYANMAR KOEI INTERNATIONAL

WELCOME

 Press Alt+Z to use GeForce Experience in-game overlay

Digital Team's Projects Showcase

AVE SIMULATION

ANIMATION OF GULLY EROSION

INTERNATIONAL AIRPORT PROJECT



NK Urban Office Demo

- START
- OPTIONS
- EXIT

Metaverse Applications

Creating virtual worlds to showcase immersive and engaging experiences for users showcasing the desired functionalities and informations using Game Engines .

PROGRESSIVE DX CONTENTS



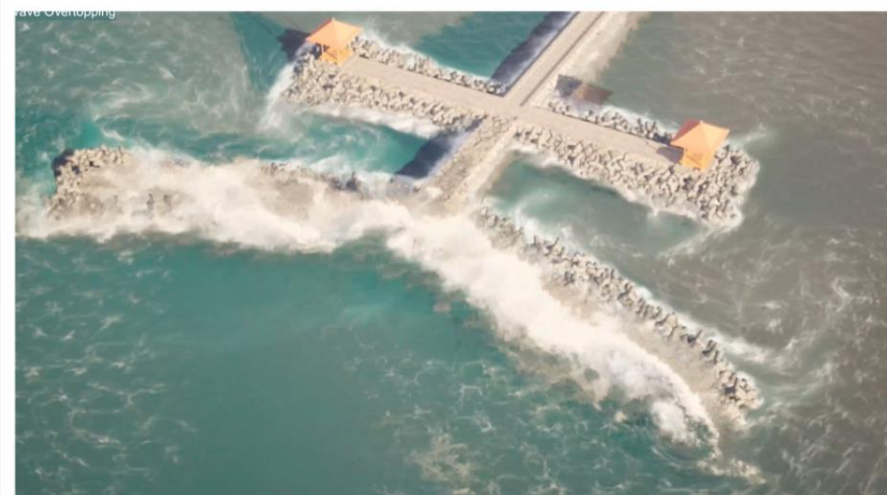
Sea Wave Simulation



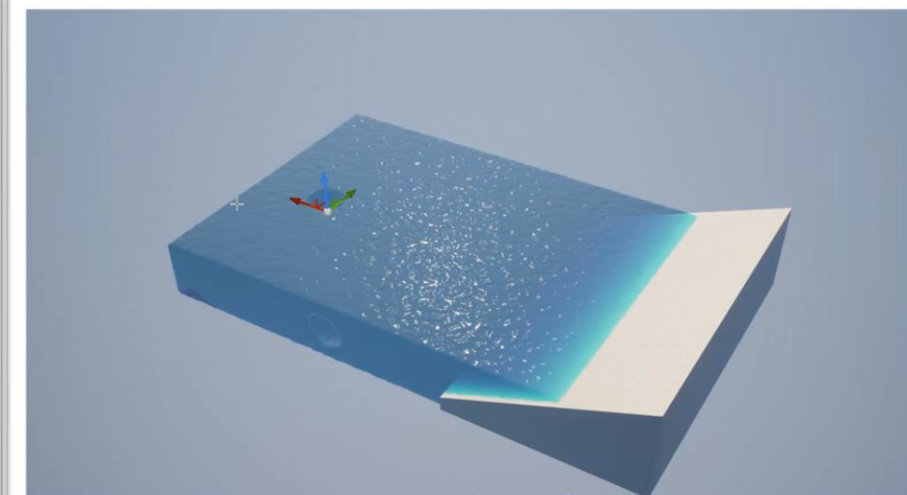
River Flood Simulation



Wave Interaction on Rubble & Sea Walls



Interactive Sea Wave Simulation



Wave & Water Simulation

(Developed in Game Engine)
Created using game engines and other modeling tools to simulate the tidal wave functions on the beach, sea walls, river flooding and interactive water movements.

Contact Us

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Thank you!