



THE PHILIPPINE FLOOD MANAGEMENT

VIRTUAL SUMMIT 2021

NOVEMBER 11-12, 2021 | VIA ZOOM

INTRODUCTION



<https://floodcontrolinternational.com/temporary-flood-wall-barriers/>



<https://messagearewa.com/12-interesting-places-to-visit-in-niger-state/>



<https://www.gettyimages.at/fotos/flood-prevention#>

Philippines ranks third among countries most at risk for natural disaster which includes flood which is triggered by the combination of typhoons, tropical depressions, prolonged heavy rains, clogged waterways, poor pumping stations and drainage systems.

It's a perennial challenge which the Government is trying to address yearly by allocating massive study , budget , construction ,welcoming and integrating various solutions , technologies and partnerships to help resolve or at least to lessen the impact of flooding both to community and the economy.

Metro Manila which is home to million Filipino residents and workers produce more than 36% of total national GDP is facing devastating floods because of more than 20 typhoons passing yearly, producing massive amounts of rainwater which greatly affects business, economy and most importantly Filipino lives

With this, Flood control and Management, River Mitigation ,modernization of pumping stations , Dams , Dikes and all flood related project and solutions are heavily supported and receiving massive budget from the National Government not only for Metro Manila but throughout the country.

The Philippine Flood Management Virtual Summit aims to bring in flood experts, authorities , LGUs and Solution provider to discuss challenges , opportunities , solution and latest innovation to help ease the impact of flooding in the country.

PROJECT PIPELINES

Revised List of Infrastructure Flagship Projects (IFPs) As of May 12, 2021

ONGOING FOR COMPLETION BY 2021

PROJECT TITLE	IMPLEMENTING AGENCY	TOTAL PROJECT COST (in PHP MILLION)	FUNDING SOURCE	SECTOR
GENERAL SANTOS AIRPORT	DOTR	1,096.00	GAA	TRANSPORT AND MOBILITY
BICOL INTERNATIONAL AIRPORT DEVELOPMENT PROJECT (NEW LEGAZPI)	DOTR	4,798.00	GAA	TRANSPORT AND MOBILITY
UNIFIED GRAND CENTRAL STATION	DOTR	2,783.00	GAA	TRANSPORT AND MOBILITY
LTO CENTRAL COMMAND CENTER	DOTR	950.00	GAA	ICT
ROAD TRANSPORT INFORMATION TECHNOLOGY INFRASTRUCTURE PROJECT PHASE I (LTO IT)	DOTR	3,190.00	GAA	ICT
MOTOR VEHICLE RECOGNITION AND ENHANCEMENT SYSTEM	DOTR	750.00	GAA	ICT
SURALLAH-T'BOLI-SAN JOSE ROAD, SOUTH COTABATO	DPWH	3,473.00	GAA	TRANSPORT AND MOBILITY
RECONSTRUCTION AND DEVELOPMENT PLAN FOR GREATER MARAWI (JICA GRANT)	DPWH	970.97	ODA (JAPAN)	URBAN DEVELOPMENT
SAMAR PACIFIC COASTAL ROAD PROJECT	DPWH	1,165.96	ODA (KOREA)	TRANSPORT AND MOBILITY
NATIONAL IRRIGATION SECTOR REHABILITATION AND IMPROVEMENT PROJECT (NISRIIP)	NIA	3,134.45	ODA (JAPAN)	WATER RESOURCES
MALITUBOG- MARIDAGAO IRRIGATION PROJECT	NIA	5,444.85	GAA	WATER RESOURCES
FLOOD RISK MANAGEMENT PROJECT (FRIMP) IN CAGAYAN, TAGOLOAN, AND IMUS RIVERS	DPWH	7,504.91	ODA (JAPAN)	URBAN DEVELOPMENT

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ONGOING FOR COMPLETION BY 2022

PROJECT TITLE	IMPLEMENTING AGENCY	TOTAL PROJECT COST (in PHP MILLION)	FUNDING SOURCE	SECTOR
SINDANGAN-BAYOG-LAKEWOOD ROAD, ZAMBOANGA DEL SUR AND ZAMBOANGA DEL NORTE	DPWH	5,133.01	GAA	TRANSPORT AND MOBILITY
BORACAY CIRCUMFERENTIAL ROAD	DPWH	1,940.00	GAA	TRANSPORT AND MOBILITY
NLEX-SLEX CONNECTOR ROAD	DPWH	23,302.00	PPP (UNSOLICITED)	TRANSPORT AND MOBILITY
INTEGRATED DISASTER RISK REDUCTION AND CLIMATE CHANGE ADAPTATION MEASURES IN THE LOW-LYING AREAS OF PAMPANGA BAY	DPWH	6,151.00	ODA (KOREA)	URBAN DEVELOPMENT
CAGAYAN DE ORO COASTAL ROAD	DPWH	3,166.53	GAA	TRANSPORT AND MOBILITY
C5 SOUTHLINK EXPRESSWAY PROJECT	DPWH/TRB	12,645.00	STOA/PPP	TRANSPORT AND MOBILITY
SOUTHEAST METRO MANILA EXPRESSWAY PROJECT	DPWH/TRB	45,290.00	STOA/PPP	TRANSPORT AND MOBILITY
CHICO RIVER PUMP IRRIGATION PROJECT	NIA	4,372.90	ODA (CHINA)	WATER RESOURCES
BALOG-BALOG MULTIPURPOSE PROJECT PHASE II, TARLAC	NIA	13,370.00	GAA	WATER RESOURCES
LOWER AGNO RIVER IRRIGATION SYSTEM IMPROVEMENT PROJECT, PANGASINAN	NIA	3,500.00	GAA	WATER RESOURCES
TAGUIG INTEGRATED TERMINAL EXCHANGE	DOTR	4,000.00	PPP	TRANSPORT AND MOBILITY
CEBU BUS RAPID TRANSIT	DOTR	16,309.00	ODA (WB)	TRANSPORT AND MOBILITY
DAVAO PUBLIC TRANSPORT MODERNIZATION PROJECT (DPTMP)	DOTR	18,600.00	ODA (ADB)	TRANSPORT AND MOBILITY
SAFE PHILIPPINES PROJECT PHASE I	DILG	20,314.00	ODA (CHINA)	ICT
FLOOD RISK IMPROVEMENT AND MANAGEMENT PROJECT - CAGAYAN DE ORO RIVER	DPWH	8,549.18	ODA (JAPAN)	URBAN DEVELOPMENT
PASIG MARIKINA RIVER CHANNEL IMPROVEMENT PROJECT, PHASE V	DPWH	4,572.65	GAA	URBAN DEVELOPMENT
NLEX HARBOR LINK EXTENSION TO ANDA CIRCLE	DPWH/TRB	12,000.00	STOA/PPP	TRANSPORT AND MOBILITY

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PROJECT TITLE	IMPLEMENTING AGENCY	TOTAL PROJECT COST (in PHP MILLION)	FUNDING SOURCE	SECTOR
DIGITAL TRANSFORMATION CENTERS (UPGRADED "TECH4ED" PROJECT)	DICT	33,983.00	GAA	ICT
NATIONAL GOVERNMENT DATA CENTER	DICT	277.00	GAA	ICT
NATIONAL BROADBAND PROGRAM	DICT	20,305.00	GAA	ICT
MRT 7	DOTr	75,000.00	PPP (UNSOLICITED)	TRANSPORT AND MOBILITY
M'LANG CENTRAL MINDANAO AIRPORT	DOTr	2,600.00	GAA	TRANSPORT AND MOBILITY
MRT 3 REHABILITATION PROJECT	DOTr	21,966.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
NORTH SOUTH COMMUTER RAILWAY (PNR NORTH 1)	DOTr	149,130.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
MANILA METRO LINE 1 CAVITE EXTENSION (BACLARAN - NIOG, BACOR) (A.K.A LRT 1 CAVITE EXTENSION PROJECT)	DOTr	64,915.00	ODA (JAPAN)/PPP	TRANSPORT AND MOBILITY
ARTERIAL ROAD BYPASS PROJECT PHASE III (PLARIDEL BYPASS)	DPWH	5,260.65	ODA (JAPAN)	TRANSPORT AND MOBILITY
DAVAO CITY BYPASS CONSTRUCTION PROJECT	DPWH	46,805.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
BACOLOD-NEGROS OCCIDENTAL ECONOMIC HIGHWAY	DPWH	8,095.00	GAA	TRANSPORT AND MOBILITY
CAMARINES SUR HIGH-SPEED HIGHWAY PROJECT	DPWH	9,235.00	GAA	TRANSPORT AND MOBILITY
PASACAO-BALATAN TOURISM COASTAL HIGHWAY	DPWH	14,972.29	GAA	TRANSPORT AND MOBILITY
IMPROVING GROWTH CORRIDORS IN MINDANAO ROAD SECTOR PROJECT	DPWH	25,257.00	ODA (ADB)	TRANSPORT AND MOBILITY
DAVAO CITY COASTAL ROAD PROJECT, INCLUDING BUCANA BRIDGE	DPWH	28,265.00	GAA/ODA (CHINA)	TRANSPORT AND MOBILITY
SOUTHERN LUZON EXPRESSWAY TOLL ROAD 4	DPWH/TRB	13,100.00	STOA/PPP	TRANSPORT AND MOBILITY
WATER DISTRICT DEVELOPMENT SECTOR PROJECTS (ADBWDSP)	LWUA	4,240.00	ODA (ADB)	WATER RESOURCES
WAWA BULK WATER SUPPLY PROJECT	MWSS	20,000.00	PRIVATE	WATER RESOURCES
JALAU RIVER MULTIPURPOSE PROJECT - STAGE II, ILOILO	NIA	11,212.00	ODA (KOREA)	WATER RESOURCES
PHILIPPINE IDENTIFICATION SYSTEM	PSA	26,260.00	GAA	ICT

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MINDANAO RAIL PROJECT PHASE 1	DICT	81,686.00	ODA (CHINA)	TRANSPORT AND MOBILITY
LRT 2 WEST EXTENSION	DICT	10,120.00	GAA	TRANSPORT AND MOBILITY
NEW CEBU INTERNATIONAL CONTAINER PORT	DOTr	9,195.00	ODA (KOREA)	TRANSPORT AND MOBILITY
EDSA GREENWAYS	DOTr	8,793.45	ODA (ADB)	TRANSPORT AND MOBILITY
METRO MANILA SUBWAY PROJECT PHASE 1	DOTr	356,974.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
MRT 3 REHABILITATION PROJECT	DOTr	21,966.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
NEW MANILA INTERNATIONAL AIRPORT	DOTr	735,654.00	PPP (UNSOLICITED)	TRANSPORT AND MOBILITY
MRT 4	DOTr	49,841.00	ODA (ADB)	TRANSPORT AND MOBILITY
PANGUIL BAY BRIDGE	DPWH	7,375.00	ODA (KOREA)	TRANSPORT AND MOBILITY
METRO MANILA PRIORITY BRIDGES FOR SEISMIC IMPROVEMENT PROJECT	DPWH	7,933.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
EMERGENCY ASSISTANCE FOR RECONSTRUCTION AND RECOVERY OF MARAWI (OUTPUT 2: RECONSTRUCTION AND DEVELOPMENT PLAN FOR A GREATER MARAWI, STAGE 2)	DPWH	6,835.00	ODA (ADB)	URBAN DEVELOPMENT
METRO MANILA LOGISTICS NETWORK: PASIG RIVER AND MANGGAHAN FLOODWAY BRIDGES CONSTRUCTION PROJECT A) NORTH AND SOUTH HARBOR BRIDGE B) PALANCA-VILLEGAS BRIDGE C) EAST-WEST BANK BRIDGE 2	DPWH	15,845.84	ODA (CHINA)	TRANSPORT AND MOBILITY
SAMAL ISLAND-DAVAO CITY CONNECTOR BRIDGE	DPWH	23,040.00	ODA (CHINA)	TRANSPORT AND MOBILITY
ROAD NETWORK DEVELOPMENT PROJECT IN CONFLICT AFFECTED AREAS IN MINDANAO	DPWH	25,257.00	ODA (ADB)	TRANSPORT AND MOBILITY
CAVITE INDUSTRIAL AREA FLOOD MANAGEMENT PROGRAM	DPWH	9,890.00	ODA (JAPAN)	URBAN DEVELOPMENT

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AMBAL SIMUAY RIVER AND RIO GRANDE DE MINDANAO RIVER FLOOD CONTROL PROJECTS	DPWH	39,220.00	ODA (CHINA)	URBAN DEVELOPMENT
PASIG-MARIKINA RIVER CHANNEL IMPROVEMENT PHASE IV	DPWH	33,097.00	ODA (JAPAN)	URBAN DEVELOPMENT
NEW CENTENNIAL WATER SOURCE - KALIWA DAM PROJECT	MWSS	12,189.00	ODA (CHINA)	WATER RESOURCES
AQUEDUCT NO. 7	MWSS	7,429.00	ODA (ADB)	WATER RESOURCES
METRO MANILA BRT LINE 1 (QUEZON AVE)	DOTR	5,463.00	ODA (WB)	TRANSPORT AND MOBILITY
SUBIC CLARK RAILWAY	DOTR/BCDA	50,031.00	ODA (CHINA)	TRANSPORT AND MOBILITY
METRO MANILA LOGISTICS NETWORK: PASIG RIVER AND MANGGAHAN FLOODWAY BRIDGES CONSTRUCTION PROJECT A) J.P. RIZAL-LOPEZ JAENA BRIDGE (MARIKINA RIVER) B) J.P. RIZAL-ST. MARY BRIDGE (MARIKINA RIVER) C) MARIKINA-VISTA REAL BRIDGE (MARIKINA RIVER)	DPWH	9,163.00	ODA (ADB)	TRANSPORT AND MOBILITY
CEBU-MACTAN BRIDGE AND COASTAL ROAD CONSTRUCTION PROJECT	DPWH	76,413.00	ODA (JAPAN)	TRANSPORT AND MOBILITY
PANAY-GUIMARAS NEGROS BRIDGE PHASE 1	DPWH	65,701.16	ODA (TBD)	TRANSPORT AND MOBILITY
HEALTH SYSTEM ENHANCEMENT TO ADDRESS AND LIMIT (HEAL) COVID-19 PROJECT	DOH	21,353.75	ODA (ADB)	HEALTH
PHILIPPINES COVID-19 EMERGENCY RESPONSE PROJECT (PCERP)	DOH	20,090.00	ODA (WB)	HEALTH
PHILIPPINES SEISMIC RISK REDUCTION AND RESILIENCE PROJECT	DPWH	15,086.80	ODA (WB)	URBAN DEVELOPMENT
MRT 3 REHABILITATION PROJECT	DOTR	23,500.00	ODA (WB & AIIB)	URBAN DEVELOPMENT
VIROLOGY SCIENCE AND TECHNOLOGY INSTITUTE OF THE PHILIPPINES	DOST	500.00	GAA	HEALTH
BATAAN-CAVITE INTERLINK BRIDGE	DPWH	175,656.25	ODA (TBD)	TRANSPORT AND MOBILITY

CONFIRMED SPEAKERS



**DR. ANDREAS KLIPPE,
CHAIR AND PRESIDENT,
FLOOD CONTROL ASIA RS CORP.**



**AR. JUN FELINO PALAFOX
PRINCIPAL ARCHITECT
PALAFOX ASSOCIATES**



**MR. KIM SANGMOO,
SR INVESTMENT OPERATIONS
SPECIALIST (URBAN),
AIIB**

INVITING SPEAKERS



Sen. Manny Pacquiao,
Senator , Chairman
Senate Committee on
Public Works hearing



Mr. Richard Sanders,
Willis Re's Executive
Director, Head of
Catastrophe Analytics
in Singapore



Usec. Ricardo Jalad
Head of Civil Defense
NDRRMC



Mr. Roy Cimatu
Secretary
DENR



Hon. Fortunato Dela Pena
Secretary
DOST



Mr. Vicente Malano
Administrator
PAG-ASA - DOST



Mr. Baltazar n. Melgar
Director IV ,
Flood Control &
Sewerage Management
Office - MMDA



Mr. Jaime Medina,
General Manager.
Laguna Lake
Development
Authority



Mr. Karl Kendrick Chua
Secretary
NEDA



Mr. Antonio Dano,
Executive Director,
River Basin Control
Office

AGENDA DAY 1

1:00 - 1:20	PM	SPONSOR VIDEO PRESENTATION
1:20 - 1:30	PM	OPENING REMARKS: EVENT CHAIRMAN DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED)
1:30 - 1:50	PM	OPENING ADDRESS SEN. MANNY PACQUIAO – CHAIRMAN SENATE COMMITTEE ON PUBLIC WORKS (INVITING)
1:50 - 2:10	PM	KEYNOTE SPEECH FLOOD MANAGEMENT PROJECT UPDATE, PLANS AND STATUS DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (INVITING)
2:10 - 2:30	PM	FINANCING URBAN RESILIENCE FOR SUSTAINABLE GROWTH IN THE PHILIPPINES MR. SANGMOO KIM, SENIOR INVESTMENT OPERATIONS SPECIALIST, AIIB
2:30 - 2:50	PM	HOW GIS MAPPING CAN HELP IN FLOOD MANAGEMENT IN THE PHILIPPINES SEC. ROY CIMATU, SECRETARY - DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR) (INVITING)
2:50 - 3:50	PM	MLION
3:50 - 4:00	PM	KOMUNIDAD
4:00 - 5:00	PM	PANEL DISCUSSION CONSTRUCTION, PREVENTION AND CONTROL: DAMS, DIKES, DRAINAGE, PUMPING STATION AND RIVER MITIGATION - IMPORTANCE OF FLOOD CONTROL INFRASTRUCTURE IN PREVENTING AND MINIMIZING FLOOD DAMAGES IN INFRASTRUCTURE AND AGRICULTURE - DISASTER AND FLOOD RESILIENCE THROUGH MODERN TOOLS AND BEST PRACTICES - WHY FLOOD PROJECTS INFRASTRUCTURE IS IMPORTANT PART OF BUILD BUILD BUILD PROJECTS - IMPLEMENTING DISASTER RISK EFFORT AND INNOVATION A KEY IN FLOOD PROJECT DEVELOPMENT MODERATOR: DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED) PANELISTS: - ARCH. FELINO "JUN" PALAFOX, PALAFOX ASSOCIATES (CONFIRMED) - USEC. RICARDO JALAD, HEAD OF CIVIL DEFENSE, NATIONAL RISK REDUCTION AND MANAGEMENT COUNCIL (NDRRMC) (INVITING) - DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR) (INVITING) - MR. GLENN MIGUEL, 2ND DISTRICT ENGINEER, DPWH (INVITING) - MR. BENJAMIN ABALOS JR., CHAIRMAN, MMDA (INVITING)
5:00 - 5:10	PM	CLOSING REMARKS: EVENT CHAIRMAN DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED)
5:10 - 5:30	PM	SPONSOR VIDEO PRESENTATION



THE PHILIPPINE FLOOD MANAGEMENT VIRTUAL SUMMIT

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AGENDA DAY 2

1:00 - 1:20	PM	SPONSOR VIDEO PRESENTATION
1:20 - 1:30	PM	OPENING REMARKS: EVENT CHAIRMAN DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED)
1:30 - 1:50	PM	OPENING ADDRESS HON. FORTUNATO T. DELA PEÑA, SECRETARY, DOST (INVITING)
1:50 - 2:10	PM	KEYNOTE SPEECH NATIONAL ECONOMIC DEVELOPMENT AUTHORITY (INVITING)
2:10 - 2:40	PM	FLOOD BARRIERS FOR HOUSE OWNERS, BUSINESS MANAGERS, ARCHITECTS & ENGINEERS, AND PUBLIC LEADERS SAVE YOUR HARD-EARNED MONEY AND LIVE A HAPPY LIFE WITHOUT THE FEAR OF MESS, DESTRUCTION AND DAMAGE OF BUILDINGS AND CRITICAL INFRASTRUCTURE DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED)
2:40 - 3:00	PM	NDRRMC INITIATIVES TO ENSURE SAFETY IN ADDRESSING NATURAL DISASTERS INCLUDING FLOODS IN THE COUNTRY NATIONAL RISK REDUCTION AND MANAGEMENT COUNCIL (NDRRMC) (INVITING)
3:00 - 3:20	PM	ADVANCE ENVIRONMENT
3:20 - 3:30	PM	ANDRITZ
3:30 - 3:40	PM	RESERVED FOR SPONSOR
3:40 - 3:50	PM	RESERVED FOR SPONSOR
4:00 - 5:00	PM	PANEL DISCUSSION ADDRESSING CHALLENGES IN MANAGING FLOOD RISKS MANAGEMENT IN THE COUNTRY FLOOD MITIGATION, DRAINAGE AND IRRIGATION - MINIMIZING DAMAGE THROUGH EFFICIENT FLOOD MITIGATION - HOW EFFICIENT DRAINAGE AND SEWERAGE TAKE BIG PART IN CONTROLLING FLOOD - FLOOD IRRIGATION KEY IN MINIMIZING DAMAGE IN INFRASTRUCTURE AND AGRICULTURE MODERATOR: DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED) PANELISTS: - MR. JAIME MEDINA, GENERAL MANAGER, LAGUNA LAKE DEVELOPMENT AUTHORITY (INVITING) - RIVER BASIN CONTROL OFFICE, RBCO – DENR (INVITING) - MR. RICARDO R. VISAYA, ADMINISTRATOR, NATIONAL IRRIGATION ADMINISTRATION (INVITING) - MR. BALTAZAR N. MELGAR, DIRECTOR IV, FLOOD CONTROL & SEWAGE MANAGEMENT OFFICE, MMDA (INVITING)
5:00 - 5:10	PM	CLOSING REMARKS: EVENT CHAIRMAN DR. ANDREAS KLIPPE, PRESIDENT & CEO, FLOOD CONTROL ASIA RS CORPORATION (CONFIRMED)
5:10 - 5:30	PM	SPONSOR VIDEO PRESENTATION

