



4th International Symposium on **Disaster Resilience & Sustainable Development**

PLANADES participated as one of the Institutional partner in the 4th International Symposium on Disaster Resilience and Sustainable Development (DRSD) held at the Asian Institute of Technology (AIT) conference hall from November 22 to 24, 2025, in Pathum Thani, Thailand.



Logos of the Institutional Partners of the DRSD 2025 Event

The Event was organized by the Asian Institute of Technology (AIT), aims to bring together global experts, practitioners, policymakers, and students from the Asia-Pacific region and beyond.

The symposium aimed to foster critical discourse on enhancing development practices to reduce systemic and long-term disaster risks while promoting inclusive and equitable sustainability. It featured a comprehensive range of thematic areas, including:

- Climate Change Adaptation and Nature-Based Solutions
- Humanitarian Assistance, Emergency Response, Recovery, and Human Mobility
- Infrastructure Resilience to Natural Hazards
- Mountain Hazards and Resilience Building
- Deltas, Coastal, and Estuarine Systems
- Information Technology, Big Data, and Early Warning Systems
- Disaster Economics and Risk Governance Policies
- Sustainability, Development, Society, and Education, and Interdisciplinary Approaches for Disaster Risk Reduction (DRR)

The PLANADES in collaboration of the School of Urban and Regional Planning, University of the Philippines (UP SURP) along with Students, Faculty Members, and Associates presented eleven (11) researches during this International Symposium (IS) as follow:

Item	Abstract Title	Presenter	Thematic Area
1	Nexus on Sustainable Development Goals and Urban Land Use and Development Planning: The Case of the Philippines	Dr. Tabassam Raza	Infrastructure, Resilience to Natural Hazards
2	A Climate-Resilience Zoning Framework for Foreshore Land Planning and Management for the Coastal Cities of Metro Manila: A Value-Focused on Thinking Approach	Dr. Dina C. Magnaye	Deltas, Coastal and Estuarine Systems
3	Development of a Procedural Model for Mainstreaming Climate Change and Disaster Risk Assessment (CDRA), Local Disaster Risk Reduction Management Plan (LDRRMP), and Local Climate Change Adaptation Plan (LCCAP) into Comprehensive Land Use Plan (CLUP) and Comprehensive Development plan (CDP), Philippines	EnP. Arlene D.R. Santiago and Co-authors	Climate Change Adaptation and Nature Based Solutions
4	Strengthening Business Resilience: Evaluating Flood Risk Continuity and Preparedness Strategies of Shoe Manufacturers in Marikina.	Ms. Jenie G. Darang and Co-authors	Infrastructure, Resilience to Natural Hazards
5	Advancing Urban Flood Resilience: Development and Validation of a Permeable Pavement Feasibility Assessment Tool	Engr. Dianne Joy Cathyrine V. Sanchez and Co-authors	Infrastructure, Resilience to Natural Hazards
6	Enhancing Flood Resilience through Effective Early Warning Systems: A Strategic Framework for Comparative Analysis and	EnP. Jade Agapinan and Co-authors	Humanitarian Assistance, Emergency Response, Recovery, and Human Mobility

	Solutions in Pasig and Marikina Cities		
7	Transitioning from Jeepneys to PUV Modernization in the Philippines: Balancing Franchisee Affordability and Sustainable Urban Air Quality	EnP. Hannah Barbara Gonzales and Co-authors	Infrastructure, Resilience to Natural Hazards
8	Corporate Governance and Strategic Leadership Framework for Business Continuity and Sustainability in Start-Up Selected Coffee Shops: The Case of Marikina City, Philippines	Ms. Erleeh Dwayne Ergina and Co-authors	Sustainability, Development, Society and Education, and Interdisciplinary Approaches for Disaster Risk Reduction
9	Development of Strategic Framework and its Implementation in Assessing DPWH's 11 Flood Control Project's Alignment Level with Existing QC DRRM PPA's in Barangay Bagong Silangan	Engr. Brean Meg Walag and Co-authors	Disaster Economics and Risk Governance Policies
10	Ensuring Compliance with the extended Producers Responsibility Law through ILO's Just Transition Guidelines, Piloting Quezon City, Philippines	Ms. Athena Mari Son and Co-authors	Disaster Economics and Risk Governance
11	Assessing the Current Solutions Adopted in Barangays San Jose and Dagat Dagatan and their Vertical Coherence to the Navotas City Disaster Risk and Reduction Management Plan.	Mr. Marc Joseph Yatco and Co-authors	Disaster Economics and Risk Governance

The table depict the Abstract Title with corresponding presenters and its thematic areas

The DRSD 2025 held for 3 days, the highlights of the PLANADES participation in collaboration with UP SURP is as follows:

Day – 1 (24th November 2025)

The Day 1 started with the welcoming remarks from the chair and convener, Dr. Indrajit Pal, followed by the opening remarks from the AIT President, Prof. Pai-Chi Li. Further, as an International Symposium institutional partner, the opening remarks were also extended by the PLANADES Executive Director, Prof. Dr. Tabassam Raza and UP SURP Dean, Dr. Dina Magnaye.



From L-R: Dr. Indrajit Pal, Chair and Convener of Disaster Resilience and Sustainable Development (DRSD)2025, Prof. Pai-Chi Li, President, Asian Institute of Technology, Prof. Dr. Tabassam Raza, Executive Director PLANADES and Professorial Lecturer II, UP SURP, & Dr. Dina C. Magnaye, Dean UP SURP

The symposium attended by substantial number of academicians, practitioners, students, public officials, private institutions, non-governmental organizations, and inter-governmental organizations within the disaster risk reduction and sustainable development sectors. Participants from Asia Pacific and beyond were also included



The Day 1 participants of 4th International Symposium on Disaster Resilience and Sustainable Development (DRSD) 2025. From the center to Left Professor Pai-Chi Li, Dr. Tabassam Raza, Dr. Shaker Mahmood Mayo, Dr. Dina Magnaye and others. From Center to Right, Dr. Indrajit Pal.

Day – 2 (25th November 2025)

Dr. Dina C. Magnaye, Dean, UP SURP participated as one of the panelists in the plenary panel discussion 3 related to Climate Change and Human Mobility: Pathways for Protection, Rehabilitation, and Inclusive Futures. It was Chair by Mr. Bradley Mellicker, CMIL, UN Migration with the following panelist: Prof. Paula Banerjee, CGFD, Asian Institute of Technology, Prof. Tuhin Ghosh, Jadavpur University, Dr. Dina Magnaye, UP SURP, University of Philippines, Dr. Akhilesh Surjan, Charles Darwin University, and Dr. Afshana Parven, Chulalongkorn University.



L-R: Chair, Mr. Bradley Mellicker, CMIL, UN Migration, Prof. Paula Banerjee, CGFD, Asian Institute of Technology, Prof. Tuhin Ghosh, Jadavpur University, Dr. Dina Magnaye, UP SURP, University of Philippines, Dr. Akhilesh Surjan, and Dr. Afshana Parven, Chulalongkorn University.



From L-R: Chair, Mr. Bradley Mellicker, CMIL, UN Migration, Prof. Paula Banerjee, CGFD, Asian Institute of Technology, Prof. Tuhin Ghosh, Jadavpur University, Dr. Dina Magnaye, UP SURP, University of Philippines, Dr. Akhilesh Surjan, and Dr. Afshana Parven, Chulalongkorn University.

Prof. Dr. Tabassam Raza, The Executive Director of PLANADES actively participated in the second plenary session on Day 2, specifically during Plenary Panel Discussion 4, entitled “Infrastructure and Built Environment Resilience: Systems Thinking and Innovation for Risk Reduction and Adaptation.”

During this session, the Executive Director contributed to the high-level discourse on advancing systems-based approaches, innovative planning frameworks, and resilience-driven solutions for strengthening infrastructure and the built environment, with a particular emphasis on reducing disaster risk and enhancing adaptive capacity in the face of evolving climate and hazard challenges.

The session was Chair by Mr. Dr. Iftekhar Ahmed, University of Newcastle, Australia with the panelists Prof. Pennung Warnitchai, Asian Institute of Technology, Thailand, Prof. Netra Prakash Bhandary, Ehime University, Japan, Prof. Shaker Mahmood Mayo, University of Engineering and Technology Lahore, Pakistan, Dr. Tabassam Raza, PLANADES, Philippines, Ms. Fa Likitswat, Assistant Professor of Landscape Architecture, Thammasat University, Thailand



From L-R: Chair by Mr. Dr. Iftekhar Ahmed, University of Newcastle, Australia with the panelists Prof. Pennung Warnitchai, Asian Institute of Technology, Thailand, Prof. Netra Prakash Bhandary, Ehime University, Japan, Prof. Shaker Mahmood Mayo, University of Engineering and Technology Lahore, Pakistan, Dr. Tabassam Raza, PLANADES, Philippines, Ms. Fa Likitswat, Assistant Professor of Landscape Architecture, Thammasat University, Thailand



From L-R: Chair by Mr. Dr. Iftekhar Ahmed, University of Newcastle, Australia with the panelists Prof. Pennung Warnitchai, Asian Institute of Technology, Thailand, Prof. Netra Prakash Bhandary, Ehime University, Japan, Prof. Shaker Mahmood Mayo, University of Engineering and Technology Lahore, Pakistan, Dr. Tabassam Raza, PLANADES, Philippines, Ms. Fa Likitswat, Assistant Professor of Landscape Architecture, Thammasat University, Thailand

Day – 3 (26th November 2025)

PLANADES and in collaboration of University of the Philippines, School of Urban and Regional Planning, along with its Board Members and associates presented eleven (11) researches during this International Symposium DRDS 2025.

Presenter 1- DRSD2025_031: Dr. Dina C. Magnaye presented her research entitled “A Climate-Resilient Zoning Framework for Foreshore Land Planning and Management for the Coastal Cities of Metro Manila: A Value-Focused Thinking Approach” during Session 4-A, themed “Resilience Building in Delta, Estuarine, Coastal, and Marine Socio-Ecological Systems.”

Her presentation formed part of a focused technical session dedicated to advancing resilience-based planning approaches for complex coastal environments. Each

presentation within the session was allocated a fifteen-minute time slot, allowing for concise yet substantive delivery of research findings and policy-relevant insights.



UP SURP Dean Dr. Dina C. Magnaye presenting her findings on A Climate-Resilience Zoning for the Coastal Cities in Metro Manila: A Value-Focused Thinking Approach



The Co-Chairs Dr. Md. Abdul Malak and Dr. Mohana Sundaram Shanmugan, and participants in Session 4-A: Resilience Building in Delta, Estuarine, Coastal and Marine Socio-Ecological Systems

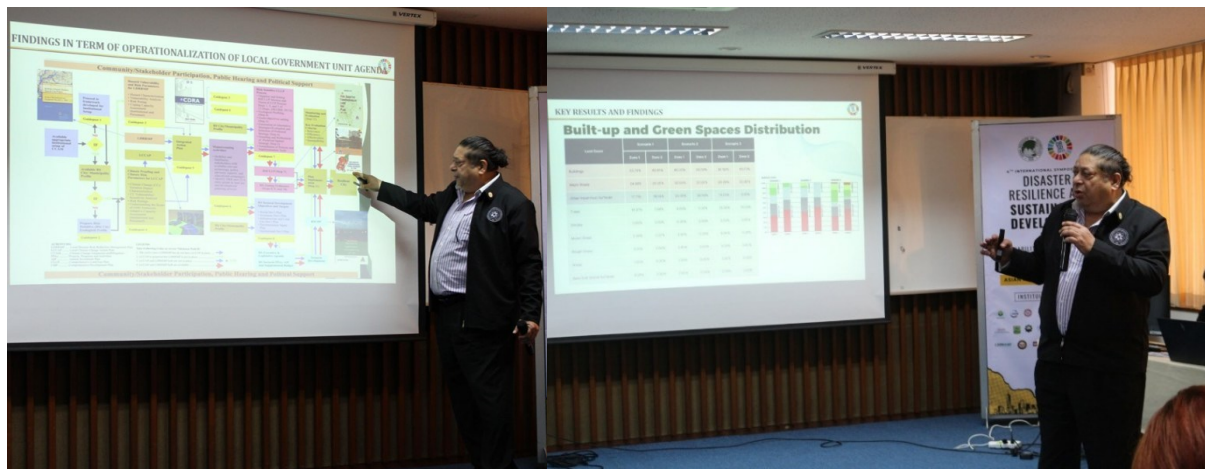
Presenter 2- DRSD2025_298: Ms. Jenie G. Darang presented her research entitled “Strengthening Business Resilience: Evaluating Flood Risk Continuity and Preparedness Strategies of Shoe Manufacturers in Marikina City” during Session 5-C, which focused on Urban, Infrastructure, and Built Environment Resilience.

Her presentation contributed to the session’s examination of practical and sector-specific resilience strategies, highlighting how small and medium enterprises can enhance business continuity and preparedness in flood-prone urban settings. Each presentation in the session was allotted a fifteen-minute time slot, enabling a focused presentation of findings and recommendations.



Right: PLANADES Associate Ms. Jenie G. Darang, presenting Strengthening Resilience: Evaluating Flood Risk and Continuity and Preparedness Strategies of Shoe Manufacturers in Marikina City, Philippines. Left: Dr. Chaitanya Krishna G.; Dr. Donald M. Ugsang, Co-Chairs in Session 5-C: Urban, Infrastructure and Built Environment Resilience

Presenter 3- DRSD2025_303 Prof. Dr. Tabassam Raza presented his research work entitled: Nexus of Sustainable Development Goals and Urban Land Use and Development Planning: The Case of the Philippines in Session 5-C: Urban, Infrastructure and Built Environment Resilience. The allocated time for each presentation was fifteen minutes.



The PLANADES Executive Director Dr. Tabassam Raza, presenting findings from his paper, Nexus on Sustainable Development Goals and Urban Land Use and Development Planning.



Left: Co Chairs Dr. Chaitanya Krishna G., and Dr. Donald M. Ugsang, Co-Chairs in Session 5-C: Urban, Infrastructure and Built Environment and participant from the session.

Presenter 4- DRSD2025_305 Engr. Dianne Joy Cathyrine V. Sanchez presented her research work entitled: Advancing Urban Flood Resilience: Development and Validation of a Permeable Pavement Feasibility Assessment Tool in Session 5-C: Urban, Infrastructure and Built Environment Resilience. The allocated time for each presentation was fifteen minutes.



Engr. Dianne Joy Cathyrine V. Sanchez presented her research work entitled: Advancing Urban Flood Resilience: Development and Validation of a Permeable Pavement Feasibility Assessment Tool in Session 5-C: Urban, Infrastructure and Built Environment Resilience.

Presenter 5- DRSD2025_292 EnP. Hannah Barbara Gonzales presented her research work entitled: Transitioning from Jeepneys to PUV Modernization in the Philippines: Balancing Franchisee Affordability and Sustainable Urban Air Quality

in SESSION 5-C: Urban, Infrastructure and Built Environment Resilience. The allocated time for each presentation was fifteen minutes.



PLANADES Board of Trustees EnP. Hannah Barbara Gonzales presenting her paper Transitioning from Jeepneys to PUV Modernization in the Philippines: Balancing Franchisee Affordability and Sustainable Urban Air Quality



Panelists and presenters from Session 5-C: Urban, Infrastructure and Built Environment Resilience: Systems Thinking and Innovation for a Risk Reduction and Adaptation where PLANADES secretariat presented their research and findings.

Presenter 6- DRSD2025_302 EnP. Jade Agapinan presented his research work entitled: Enhancing Flood Resilience through Effective Early Warning Systems: A Strategic Framework for Comparative Analysis and Solutions in Pasig and Marikina Cities, Philippines in Session 5-B: Emerging Trends in Disaster Risk Governance, Humanitarian Action, Response and Recovery. The allocated time for each presentation was fifteen minutes.



PLANADES Board of Trustees EnP. Jade Agapinan, presenting Enhancing Flood Resilience through Effective Early Warning Systems (EWS): A Strategic Framework for Comparative Analysis and Solutions in Pasig and Marikina



Figure 16: Co-Chairs Mr. Anand Kumar Sharma and Dr. Djoen Santoso, and participants in Session 5-B: Emerging Trends in Disasters Risk Governance, Humanitarian Action, Response and Recovery

Presenter 7- DRSD2025_304 EnP Arlene D.R. Santiago presented her research work entitled: Development of a Procedural Model for Mainstreaming Climate Change and Disaster Risk Assessment (CDRA), Local Disaster Risk Reduction Management Plan (LDRRMP), and Local Climate Change Adaptation Plan (LCCAP) into Comprehensive Land Use Plan (CLUP) and Comprehensive Development plan (CDP), Philippines in Session 4-C: Climate Change: Mitigation, Adaptation and Nature-based Solutions. The allocated time for each presentation was fifteen minutes.



PLANADES Board of Trustees EnP. Arlene D.R. Santiago presenting their studies on Development of a Procedural Model for Mainstreaming Climate Change and Disaster Risk Assessment (CDRA). Local Risk Reduction and Management Plan (LDRRMP), and Local Climate

Presenter 8- DRSD2025_297 Ms. Erleeh Dwayne Ergina presented her research entitled “Corporate Governance and Strategic Leadership Framework for Business Continuity and Sustainability in Selected Start-Up Coffee Shops: The Case of Marikina City, Philippines” during Session 5-A, themed “Interdisciplinary Approaches for Disaster Risk Reduction and Sustainable Development.”

Her presentation contributed to the session’s interdisciplinary discourse by examining the role of governance structures and strategic leadership in strengthening business continuity and long-term sustainability among start-up enterprises in hazard-prone urban contexts. Each presentation within the session was allocated a fifteen-minute time slot, allowing for a concise yet substantive discussion of the study’s findings and implications.



PLANDES Associate Ms. Erleeh Ergina (standing right), presenting the study of Corporate Governance and Strategic Leadership Framework for Business and Continuity and Sustainability in Start-Up selected coffee shops: The case of Marikina City, Philippines. Sitting from Left are Prof. MD. Abdur Rahim and Dr. Shubham Pathak, Co-Chair in Session 5-A: Interdisciplinary Approaches for Disaster Risk Reduction and Sustainable Development



Presenters from Session 5A – Interdisciplinary Approaches for Disaster Risk Reduction and Sustainable Development answering questions from the chairs and audience as PLANADES Secretariat Ms. Erleeh Ergina (first from the left) and Dr. Reynold Ferdinand

Presenter 8- DRSD2025_293 Engr. Brean Meg Walag presented her research work entitled: Development of Strategic Framework and its Implementation in Assessing DPWH's 11 Flood Control Project's Alignment Level with Existing QC DRRM PPA's in Barangay Bagong Silangan in Session 5-B: Emerging Trends in Disaster Risk Governance, Humanitarian Action, Response and Recovery The allocated time for each presentation was fifteen minutes.

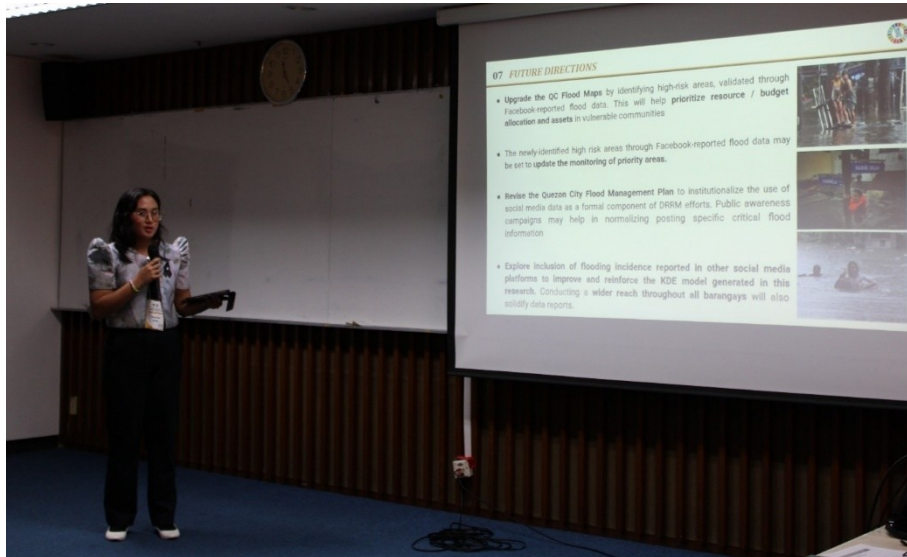


UP SURP Student, Engr. Brean Meg Walag, presenting Development of a Strategic Framework and Its implementation in Assessing DPWH's as Flood Control Projects' Alignment Level with the Existing QC DRRM PPA's in Barangay Bagong Silangan.



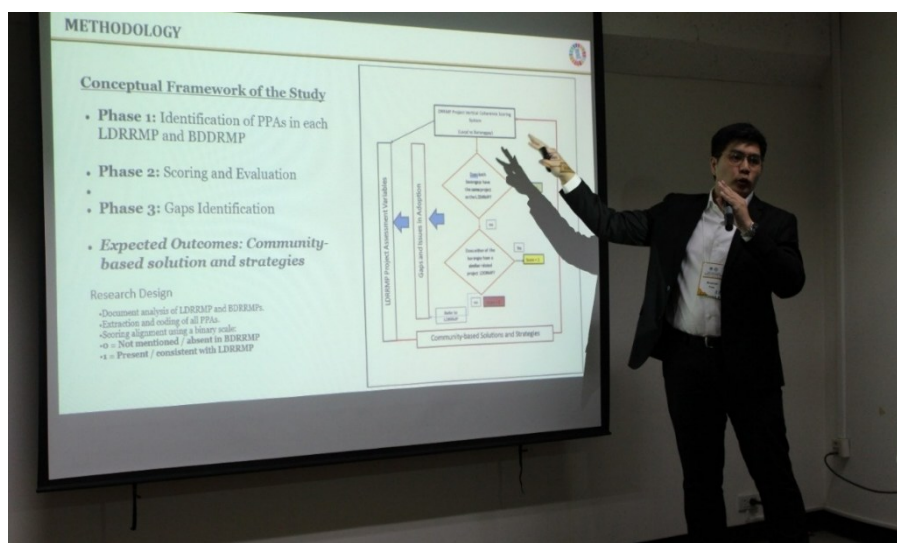
Co-Chairs Mr. Anand Kumar Sharma and Dr. Djoen Santoso, and participants in Session 5-B: Emerging Trends in Disasters Risk Governance, Humanitarian Action, Response and Recovery

Presenter 10- DRSD2025_295 Ms. Athena Mari Son presented her research work entitled: Ensuring Compliance with the extended Producers Responsibility Law through ILO's Just Transition Guidelines, Piloting Quezon City, Philippines in Session 5-B: Emerging Trends in Disaster Risk Governance, Humanitarian Action, Response and Recovery. The allocated time for each presentation was fifteen minutes.



Ms. Athena Mari Son presented her research work entitled: Ensuring Compliance with the extended Producers Responsibility Law through ILO's Just Transition Guidelines, Piloting Quezon City, Philippines in Session 5-B: Emerging Trends in Disaster Risk Gove

Presenter 11- DRSD2025_299 Mr. Marc Joseph Yatco presented his research work entitled: Assessing the Current Solutions Adopted in Barangays San Jose and Dagat Dagatan and their Vertical Coherence to the Navotas City Disaster Risk and Reduction Management Plan. in Session 5-B: Emerging Trends in Disaster Risk Governance, Humanitarian Action, Response and Recovery. The allocated time for each presentation was fifteen minutes.



Mr. Marc Joseph Yatco presented his research work entitled: Assessing the Current Solutions Adopted in Barangays San Jose and Dagat Dagatan and their Vertical Coherence to the Navotas City Disaster Risk and Reduction Management Plan.

Closing Session

The closing session of DRSD 2025 concluded with the awarding of certificates for Best in Presentation, followed by the closing remarks delivered by the AIT Vice President, Prof. Dr. Siddharth K. Jabade.



Best in presentation awarding ceremony



Closing Photo Ceremony DRSD 2025