

The Sustainable Development Goals: Improving Life for Future Generations

Programme Book

4th Internasional Seminar on Sustainable Urban Development

9th August 2017, Jakarta, Indonesia

4th ISoSUD 2017

Faculty of Landscape Architecture and Environmental Technology

Universitas Trisakti

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Journal of Urban Environmental and Technology	

GENERAL INTRODUCTION

Sustainable Development Goals: Improving Life for Future Generations

International Seminar on Sustainable Urban Development (ISoSUD) is a serial seminar organized by Faculty of Landscape Architecture and Environmental Technology, Universitas Trisakti. This seminar held once in 3 (three) years with themes related to the current issues of urban and environmental. The **first** seminar was conducted in **2009**, the **second** was in **2011**, the **third** was in **2014** and now is the **fourth** seminar of ISOSUD 2017. Moreover, these seminars were always invited the speakers with International reputation that deliver a paper on the topic with an appropriate theme and issues at that moment. The seminar organiz "call for papers" from academics, researchers, professionals both from universities, government, private sector, industry and other institutions.

The Sustainable Development Goals (SDGs) replace the Millenium Development Goals (MDGs), are universal call to the action to end poverty, protect the planet, and ensure that all people enjoy peace and prosperity. The SDGs work in the spirit of partnership and pragmatism to make the right choices now to improve life through sustainable way. Achieving the SDGs requires governments, private sector, communities be allied to make sure we leave a better planet for future generations.

Some of the goals were in issue in this seminar area: Clean Water and Sanitation, Alternative and Clean Energy, Sustainable Cities and Communities, Climate Action, Life Below Water, Life on Land.

The sub-themes of the seminar and will be addressed in context of Climate Change:

1. ***Ecological Disaster Mitigation and Adaptation***
Biodiversity and Climate Change, Flood Risk Management, Recovery of Damage Areas, Risk Mitigation, Urban Adaptation on Global Climate Change
2. ***Management of Urban Environment***
Environmental Modeling, Cleaner Production; Waste Minimize and Management, Water Resources and Management, Water Recovery and Management, Waste and Sanitation Management, Ecological Landscape Planning, Landscape Heritage Protection and Management, Land Use Planning, Transportation Planning and Management, Eco-City for The Future, Environmental Indicators of Sustainability, Urban Environmental Pollution, Diseases and Health Status.
3. ***Environmental Technology***
Energy Efficiency, Renewable Energy Technologies (Bio-energy), Energy Management and Policies, Pollution Control Technologies (Waste and Wastewater Treatment And Technology), Eco-drain, Indigenous Technology for adaptation and mitigation on Climate Change, Urban Community Empowerment, Water Supply and Technology .

Faculty of Architecture Landscape and Environmental Technology

Faculty of Landscape Architecture and Environmental Technology (FALTL), Universitas Trisakti, has three study programs, namely Landscape Architecture, Environmental Engineering, and Urban and Regional Planning. All three courses have been accredited (National Accreditation Board of Higher Education No.001 /BAN-PT/AK-XII/S1/III/2009). The Landscape Architecture has partnered with Universiti Putra Malaysia, Universiti Teknologi Malaysia, AKLANI and IALI, regarding with cooperation in education and pedagogy (Tridharma) and publication (non Tridharma), as well as continuous article making in Garden Magazine. Environmental Engineering Department has 71 national cooperation and 5 overseas cooperation. Of the total number of joints which have been completed with cooperation documents are 17 national cooperation and 1 foreign cooperation in the form of Twinning Program with Dutch Saxion Univerisity. Meanwhile, the Regional and City Planning Study Program conducted a national partnership of 5 agencies, namely: 1) PT. Emha Training Center & Advisory Services., With Geography Information System training activities; 2) FMIPA Universitas Terbuka, with activities to create teaching materials for the Regional and Town Planning Study Program; 3) Research and Development Center for Settlement of the Ministry of Public Works of Bandung, with activities of providing apprenticeship for students, obtaining updated information related to the regulations of settlement development and cooperating in research; 4) Ministry of Environment, with activities conducting courses related to Strategic Environmental Assessment (KLHS); and 5) Coordinating Ministry of Economic Affairs, with the activities of organizing national seminars.

For literature, the faculty provides textbooks and journals from all three majors, totaling 5801 titles and 6399 copies, and 9 national journals and 12 international journals. In addition, the FALTL library is available in 9 accredited journals, as well as 12 international journals, 8 of them are e-journal.

In line with the direction of Higher Education Development Pattern of Universitas Trisakti, the curriculum of each course within the Faculty of Landscape Architecture and Environmental Technology is designed based on a competency-based curriculum with respect to local culture, the development of the times and the demands of international standards. This process makes the graduates expected to be in accordance with the needs of stakeholders and has its own characteristics and advantages of graduates and easily absorbed in the job market, especially in the field of Landscape Architecture, Environmental Engineering and Regional and City Planning.

The three areas of the study program nationally experienced a rapid development in line with the development of increasingly complex environmental quality issues. The increasing presence of similar programs in both state universities and private universities, makes the need to improve the quality of learning through the application of a competency-based curriculum and supported by governance, human resources, financing system and quality infrastructure.

WELCOME PARTICIPANT

Assalamu'alaikum warrahmatullahi wabarakatuh,
Very Good Morning

The honorable and our respectable :

- Rector of Universitas Trisakti, Jakarta Prof. dr. Ali Ghufron Mukti, M.Sc., Ph.D
- Dean of Faculty of Landscape Architecture and Environmental Technology, Ir. Ida Bagus Rabindra, MSP.
- Keynote speakers:
 1. Dr. Ir. Gellwyn Daniel Hamzah Jusuf, M.Sc. – Deputy of Ministry of National Development Planning/National Development Planning Agency, Maritime and Natural Resources Affairs, Republic of Indonesia
 2. Dr. Yusnani Mohd. Yusof, Urban Planning, Affordable City, Universiti Brunei Darussalam, Brunei Darussalam
 3. Prof. Dr. Pasi Lehmusluoto, Department of Limnology and Environment Protection, University of Helsinki, Finland
 4. Prof. Dr. Mohd. Razman Salim, Department of Environmental Engineering, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia
- Participants of the 4th ISoSUD 2017

Distinguished guests, ladies and gentlemen,
First of all, praise be to Allah, the Cherisher and Sustainer of the world, for His blessing for all of us. He who has provided us a chance so that we could be here.

On behalf of the Organizing Committee, it is our great pleasure to welcome you to **the 4th International Seminar on Sustainable Urban Development (ISoSUD) 2017**, held by Faculty of Landscape Architecture and Environmental Technology, Universitas Trisakti, Jakarta, Indonesia at Hotel Ciputra.

To the academicians, our colleagues from overseas universities, guests, participants, students, please accept our gratitude, warm welcome and appreciation.

The seminar gathers eminent speakers and scholars that are engaged in Sustainable Urban Development field. The theme for this event is:

THE SUSTAINABLE DEVELOPMENT GOALS: IMPROVE LIFE FOR FUTURE GENERATION

Achieving the SDGs requires of governments, private sector, civil society and citizens alie to make sure we leave a better planet for future generations. All 17 Goals interconnect, meaning success in one goal affects success for others. In short word, this is the greatest chance we have to improve life for future generations. Some of the goals that in major issue of **4th International Seminar on Sustainable Urban Development** are:

- Goals No. 6: Clean Water and Sanitation
- Goals No. 7: Affordable and Clean Energy
- Goals No.11: Sustainable Cities and Communities
- Goals No. 13: Climate Action
- Goals No. 14: Life Below Water
- Goals No. 15: Life on Land

This year, the committee received over than 150 papers both in oral and poster presentation from more than 15 universities in Indonesia and from UK, Japan, Malaysia, Italy, and Iraq as well. Selected papers will be proposed to be published in IOP Publisher Conferences Series: Earth and Environmental Science, indexing by Scopus and Thomson Reuters. Other selected papers will be published in National Journal accredited by Ministry of Research and Higher Education of Indonesia, i.e: Aceh International Journal of Science and Technology published by Universitas Syiahkuala, Aceh and Jurnal Reaktor published by Universitas Diponegoro, Semarang.

We are very grateful to Rector of Universitas Trisakti, Jakarta, Dean of Faculty of Landscape Architecture and Environmental Technology, Head of Environmental Engineering Department, Head of Landscape Architecture Department, Head of Urban and Regional Planning Department, the members of Advisory board, the members of Steering committee, Peer Reviewers, and Organizing committee that very supported and helpful within the preparations and conduction this seminar. Our grateful deliver as well to Association of Experts in Sanitary Engineering (TP) and Environmental Engineering (TL), IATPI (Ikatan Ahli Teknik Penyehatan dan Teknik Lingkungan Indonesia), for their support to the seminar. Last but not least, we would like to express our gratitude to all the authors, session chairs, reviewers, participants, institutions for their contribution to 4th ISoSUD 2017.

We believe that this event will be able to facilitate a good networking among researchers, scientists, engineers and practitioners of with common interest especially in sharing the latest research results, ideas, development and applications in the Sustainable Urban Development. We hope you enjoy the seminar and find this experience inspiring and helpful in your professional field. We look forward to seeing you at our upcoming seminar in the next 3 years on 5th ISoSUD 2020.

Thank you for your participation and hope you enjoy the seminar.

Jakarta, August 9th, 2017

A handwritten signature in black ink, appearing to read 'Astri Rinanti Nugroho'.

Chair person of 4th ISoSUD 2017

Dr. Astri Rinanti Nugroho, MT

RECTOR REMARKS

The Honorable:

- Dean of Faculty of Landscape Architecture and Environmental Technology, Universitas Trisakti, Ir. Ida Bagus Rabindra, MSP
- Keynote speakers, Advisory boards, Steering Committee, Organizing Committee
- Participants of the 4th ISoSUD 2017

Distinguished participants, ladies, and gentlemen

Assalamu'alaikum Warahmatullahi Wabarakatuh, and Good Morning

On this special occasion, let me invite you to praise Allah SWT for His mercy and grace that we are able to attend the **4th International Seminar on Sustainable Urban Development (ISoSUD) 2017** today. On behalf of the university, I warmly welcome you, all the impressive keynote speakers and participants. Welcome to Universitas Trisakti, Jakarta Indonesia.

In September 2015, The United Nations (UN) held The UN Development Summit that formally adopted the agreement "**Transforming our World: The 2030 Agenda for Sustainable Development**". The summit embraced the three dimensions of sustainability, such as economic, social and environment. The summit also aimed at ending global poverty and building a life of dignity for all.

That was a generally accepted concept of Sustainable Development Goals (SDGs) in the world. The report of the 1987 World Environment and Development Committee argues that "Sustainable development is development that meets the needs of present without compromising the ability of future generations to meet their own needs". Three dimensions of sustainable development which consist of society, economy and environment should exist together. Economic development should not depend on excessive resource consumption; meanwhile, environmental sustainable development should be considered more important. This 4th International Seminar on Sustainable Urban Development is conducted to provide the opportunity for government officials, researchers, academicians, industry practitioners, non-governmental and multinational organization staffs and other stakeholders to share their views and experiences to build international collaborative networks on managing sustainable development.

THE SUSTAINABLE DEVELOPMENT GOALS is a common thing to be realized without compromising the ability to improve life for future generation. It must be done to prevent any adverse impacts on our lives such as air and water pollution, land use and contamination, material depletion, impacts on human health, and climate change. Therefore, it is expected that the incorporation of sustainable development concept in terms of research, product, and values will enhance the energy performance of environment development and bring about building sustainability as well as disaster management.

The 4th International Seminar on Sustainable Urban Development (ISoSUD) 2017, takes theme in this urgent agenda of:

THE SUSTAINABLE DEVELOPMENT GOALS, TO IMPROVE LIFE FOR FUTURE GENERATION

The seminar plays role as the media to share wisdom and experiences, and develop knowledge as well as skill and recent technologies on the application of built urban, environmental sciences and technologies. The Boundary between urban and rural is not so clearly, so we should not limit the discussion in these two terms. The environmental problems

also show up in rural, but since Universitas Trisakti is located in Jakarta as Indonesia Capital, we focus our vision on solving of urban problems. Universitas Trisakti is very concern about urban and all its problems. This challenge is in line with our vision to be the leading private university and centre of excellence in the world in developing science, technology and arts for community welfare and sustainable development.

I do hope that this seminar will inspire us to enhance our awareness to explore any possibilities in involving sustainable development. Also, I look forward to hearing discussions (on these topics) and I hope we can be inspired by the best practices we will hear from our distinguished speakers.

Let me deeply express a special appreciation to the speakers:

- 1) Dr. Ir. Gellwyn Daniel Hamzah Jusuf, M.Sc. – Deputy of Minister of National Development Planning/National Development Planning Agency, Maritime and Natural Resources Affairs, Republik Indonesia
- 2) Dr. Yusnani Mohd. Yusof from Urban Planning, Affordable City, Universiti Brunei Darussalam
- 3) Prof. Dr. Pasi Lehmusluoto, from Department of Limnology and Environment Protection, University of Helsinki, Finland
- 4) Prof. Dr. Mohd. Razman Salim, from Department of Environmental Engineering, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia

Our appreciation is also for all the participants who have actively written excellent research papers. It is desired to have a sustainable seminar to be continuously held in the future times, as we are challenged to make a sustainable building and environment for a sophisticated life.

Finally, by reciting “Bismillahirrahmanirrahim” hereby I officially open the event of **4th International Seminar on Sustainable Urban Development (ISoSUD) 2017**. May Allah always guide us and lighten our step.

Thank you for your attending and participation, have a great seminar and Welcome to Universitas Trisakti, Jakarta.

Wassalamu’alaikum Warahmatullahi Wabarakatuh.

Jakarta, August 9th, 2017



Rector of Universitas Trisakti, Jakarta
Prof. dr. Ali Ghufon Mukti, M.Sc., Ph.D

CONFERENCE PROGRAMME

THE 4TH INTERNATIONAL SEMINAR ON SUSTAINABLE URBAN DEVELOPMENT
(4th ISoSUD 2017)
9TH AUGUST 2017 – HOTEL CIPUTRA, JAKARTA, INDONESIA

TIME	PROGRAMME
07:30-08:30	Registration
	Opening Ceremony
08:30-08:45	1. Report: OC Chairperson: Assoc. Prof. Dr. Astri Rinanti, MT 2. Opening Remark: Rector of Universitas Trisakti Prof. Dr. Ali Ghufon Mukti, M.Sc., Ph.D.
08:45 - 09:00	Photo Session
	Poster presentation session
09:00-09.30	Coffee Break
	Plenary Session Moderator: Assoc. Prof. Dr. Ir. Rustam Hakim, MT. Keynote Speakers:
09:30-12:00	1. Prof. dr. Ali Ghufon Mukti, M.Sc, Ph.D. 2. Dr. Ir. Gellwyn Daniel Hamzah Jusuf, M.Sc. 3. Dr. Yusnani Mohd. Yusuf 4. Prof. Dr. Pasi Lehmusluoto 5. Prof. Dr. Mohd. Razman Salim Discussion (Q & A)
12:00-13:00	Lunch and Break
	Oral Presentation session
13:00-15:30	(Look at the Table Bellow)
	Poster presentation session
15:30-16:00	Coffee Break
	Closing Ceremony at Plenary Hall
16:00-16:15	<i>Closing Remark: Dean of Faculty of Landscape Architecture and Environmental Technology, Universitas Trisakti</i>
16:15-16:30	Photo Group Session

[ABS-169] Intelligent Seismic Risk Mitigation System on Structure Building

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Abstract. Indonesia located on the Pacific Ring of Fire, is one of the highest-risk seismic zone in the world. The strong ground motion might cause catastrophic collapse of the building which leads to casualties and property damages. Therefore, it is imperative to properly design the structural response of building against seismic hazard and seismic risk mitigation system. Seismic-resistant building design process requires structural analysis to be performed to obtain the necessary building responses and. However the structural analysis could be very difficult and time consuming. This study aims to predict the structural response includes displacement, velocity, and acceleration of multi-storey building with the fixed floor plan using Artificial Neural Network (ANN) method based on the 2010 Indonesian seismic hazard map. By varying the building height, soil condition, and seismic location in 47 cities in Indonesia, 6345 data sets were obtained and fed into the ANN model for the learning process. The trained ANN is capable of predicting the displacement, velocity, and acceleration responses with up to 96% of predicted rate. The trained ANN architecture and weight factors were later used to build a simple tool in Visual Basic program which possesses the features for prediction of structural response as mentioned previously

HOTEL CIPUTRA - JAKARTA
6th FLOOR



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