



Report on the PIANC Asian Seminar 2025

On October 21, 2025, the PIANC Asian Seminar 2025 was successfully held with the support of the Ministry of Land, Infrastructure, Transport and Tourism (MLIT), the Ministry of Agriculture, Forestry and Fisheries (MAFF) and Japan International Cooperation Agency (JICA).

Since 2021, the PIANC Asian Seminar has addressed a wide range of issues related to waterborne transport infrastructure, including coastal disaster prevention, port and harbor maintenance, siltation, and soft ground improvement.

This year as the fifth webinar, PIANC Japan organized a webinar to share the latest knowledge and technologies under the theme of “Environmental Restoration and Port Development”.

Distinguished researchers from across Asia delivered lectures on topics such as ecosystem rehabilitation, blue carbon, ecological and environmental data analysis, and the economic evaluation of marine environments in various Asian seas.

About 290 audiences from 19 countries/regions attended the seminar, about 100 of which were from overseas (Indonesia, the Philippines, Singapore, Malaysia, Thailand, Cambodia, Australia, Korea, Hong Kong, Myanmar and Bangladesh etc.). The audience showed their keen interest in the marine/coastal environment issues by raising questions to lecturers.

Seminar Program

Date & Time: Monday, October 21, 15:30 - 17:45 (JST)

Representative of Organizer

Dr. Yoshiaki Kuriyama, Chair of PIANC-Japan

Opening Address

Mr. Makoto Morihashi, Deputy Director General for Engineering Affairs, Ports and Harbours Bureau, MLIT, Japan.

Dr. Yoshiaki Kuriyama



Mr. Makoto Morihashi



Video Message from PIANC HQ

Mr. Francisco Esteban Lefler, President of PIANC, gave the audience an insightful message highlighting ‘Working with Nature’ as one of the PIANC’s main philosophies, win-win solution for both navigation and environment issues is the best.

Mr. Francisco Esteban Lefler



-Lecture Session

Moderator: Dr. Yoshiaki Kuriyama, PIANC-Japan

-Lecture 1: "Monitoring of estuarine fish compositions using an environmental DNA metabarcoding"

Dr. Shinya Hosokawa, Port and Airport Research Institute (PARI), Japan

- What's environmental DNA (eDNA)?
- Advantages of the eDNA technology
- Challenges in using eDNA technology in estuaries and coasts
- What will eDNA technologies contribute?
- Collaborations with open data platform
- Conclusions

Click [here](#) for the presentation by Lecturer 1



-Lecture 2: "BLUE ECOSYSTEM MANAGEMENT AND SUPPORT FOR BLUE PORT PROGRAM "

Dr. Yonvitner, IPB University, Indonesia

- Blue Port on Economy Framework
- Blue Port System Science
- Blue Ecosystem
- Blue Ecosystem and Blue Port Integration
- Conclusion

Click [here](#) for the presentation by Lecturer 2



-Lecture 3: "Decision making criteria between conservation and development "

Dr. Suk-Jae KWON, Korea Institute of Ocean Science and Technology (KIOST), Korea

- Ocean Regime and issues
- Ocean governance and treatment
- Criteria for decision making b/w conservation and development: B/C Analysis
- Techniques for non-market valuation
- Exxon Valdes Oil Spill Accident and CVM
- Published articles relating to economic valuation of wetlands by using CVM, TCM, and HPM
- Wetland restoration and creation link to blue carbon
- Summary and conclusions

Click [here](#) for the presentation by Lecturer 3



-Lecture 4: "Development of Seaweed Bed Creation Reefs and Contribution to Blue Carbon"

Prof. Yoshihiro SUENAGA, Kagawa University, Japan

- What is blue carbon
- Comparison with Green carbon
- Carbon sequestration and storage
- Functions and effects of seaweed bed building reefs
- Marinemash -Overview and Functions-
- Estimating Carbon Sequestered by Marinemash
- Key points for the regeneration of the Seto Inland Sea

Click [here](#) for the presentation by Lecturer 4



-Question and Answer Session

Questions from the audience were collected through the Chat icon of the webinar. Moderator Kuriyama summarized and introduced those questions to the lecturers.

A summary of Q & A will be posted in the next news.



Closing Address

Mr. Hiroyuki Matono, Director of Construction Division, Fisheries Infrastructure Department, Fisheries Agency, MAFF Japan



Acknowledgements

Our heartfelt appreciation is extended to all lecturers, MLIT, MAFF, JICA, webinar staff members from National Institute for Land Infrastructure Management (NILIM), Port and Airport Research Institute (PARI), NIKKEN KOGAKU co., ltd, as well as the parties concerned of PIANC Japan for their enormous contribution in the preparation of the seminar.

PIANC Japan will organize the next Asian Seminar on a different theme.