



**EAS
CONGRESS
2018**

THE EAST ASIAN SEAS CONGRESS

25 Years of Partnerships for
Healthy Oceans, People and Economies
Moving as One with the Global Ocean Agenda

27-30 November 2018 • Iloilo Convention Center, Philippines



TRACK 5: RESEARCH AND TOOLS

SESSION 5.1

Speed-dating with Technical Tools for Strengthening Coastal Management

CONVENER:



Capturing Coral Reef and
Related Ecosystem Services



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Iloilo City, Philippines, 27-30 November 2018

Partnership Hub Track 5: **Research and Tools**

Dialogue 5.1: **Speed-dating with Technical Tools for Strengthening Coastal Management**

27 November 2018

Partnership Hub Dialogue Convenor:

The Capturing Coral Reef & Related Ecosystem Services (CCRES) project

Partnership Hub Dialogue Co-Speakers:

Prof. Damian Hine, Associate Professor, Innovation and Commercialization, Faculty of Business, Economics and Law, The University of Queensland, and Team Leader, Business Development, CCRES

Dr. Liz Izquierdo, Research Partnership Office, The University of Queensland, and Project Manager, CCRES

Mr. Makoto Harunari, Technical Session Chair of the EAS Partnership Council

Partnership Hub Dialogue Co-Facilitators:

Carlie Dario and **Dr. Vera Horigue**, both of the University of Philippines Marine Science Institute, Manila, Philippines (Marine planning).

Benjamin Adriano, Jr., Palawan Council of Sustainable Development, Puerto Princesa, Philippines, and **Gianina Decano**, Palawan State University, Puerto Princesa, Philippines (Systems analysis).

Assoc. Prof. Damian Hine, The University of Queensland, Brisbane, Australia, and **Eva Marie Ponce de Leon**, Palawan State University, Puerto Princesa, Philippines (Business development).

Dr. Dedi Adhuri, Research Center for Society and Culture, Indonesian Institute of Sciences (LIPI), Jakarta, Indonesia, and **Erik Simmons**, The University of Queensland, Brisbane, Australia (Behaviour change).

Partnership Hub Dialogue Coordinator:

Mark Paterson, Principal, Currie Communications, Melbourne, Australia, and Team Leader, Communications & Engagement, CCRES.

1. INTRODUCTION

- 1.1 In developing countries, coastal ecosystems — coral reefs, mangroves and seagrass beds — provide fish to eat and trade, support tourism, protect coastlines from storms and filter water. Coastal communities rely on these coastal ecosystems for their livelihoods, food and wellbeing. Unfortunately, these ecosystems are under threat from pollution, overfishing, destructive fishing, unsustainable coastal development and climate change.
- 1.2 The Capturing Coral Reef & Related Ecosystem Services (CCRES) project (2014-2018) has been assisting governments and communities to sustain these coastal ecosystems. In collaboration with project partners and beneficiaries, the CCRES project has developed a suite of technical models, tools and knowledge products to assist managers, policy-makers and planners to strengthen the governance of coastal ecosystems.
- 1.3 The tools are used for planning Marine Protected Areas (MPAs), modelling socio-ecological systems, developing sustainable enterprises and fostering behaviour change. They have been developed following research by multi-disciplinary teams that include scientists, policy-makers, businesses and other experts from a range of fields — collaboration between centres of discovery, learning and engagement in North America, Australia and importantly our partners in Indonesia and the Philippines.
- 1.4 **Assoc. Prof. Damian Hine** opened the session with an overview of the tools and the speed-dating session. He emphasized that the new tools can be used to build system-wide solutions for strengthening the management of large, transboundary coastal, marine and freshwater ecosystems as part of the formulation and implementation of Strategic Action Programmes.

2. SPEED-DATING

- 2.1 In this session attendees joined fun, interactive “speed-dating” groups, facilitated by experienced CCRES team members. The session “matched” tools with 24 participants and explored how together they can strengthen integrated coastal management, planning and governance across the East Asian Seas region.
- 2.2 The marine planning tools have been used by World Wildlife Fund (WWF) Indonesia and the Ministry of Marine Affairs and Fisheries (MMAF) in 27 locations across 34 Indonesian provinces and the Haribon Foundation, a Responsible Partner of the DENR/UNDP Smart Seas PH Project, has used the [Fish SPACE](#) tool to evaluate marine reserve design and fisheries management initiatives in Lanuza Bay, Surigao del Sur, Philippines.
- 2.3 Four tools — the [MPA toolkit](#), a governance tool [FishCollab](#), a behaviour change tool [My Future, My Oceans](#) and a business development output [Waste2Enterprise](#) — have been used by the Parak community at Selayar, Indonesia. Parak villagers used these tools to develop community-designed Marine Protected Areas (MPAs) and a management plan, and to start their own garbage bank to create alternative livelihoods from the collection and value-adding of waste plastic.

- 2.4 The business development tool, [EbBD](#), has been used by The National Park Service in Taka Bonerate, Indonesia, in partnership with the DINAS (government unit) to promote sustainable tourism and small-scale home industries and get commitments for a number of biorock installations around Selayar and to promote ecotourism and support conservation efforts.
- 2.5 The systems analysis tools [SESAMME](#) and [SYSTORY](#), have been used in the Philippines by the Eastern Visayas University in undergraduate and graduate teaching programs and [My Future, My Oceans](#) has been used by eco-tourism operator Ten Knots Development Corporation, in partnership with the CCRES project, to empower villagers to improve waste management near one of its resorts at El Nido in the province of Palawan.
- 2.6 In Indonesia [FishCollab](#) will be rolled out at five locations during 2018/19 — Langkat, North Sumatra; Lampung, South Sumatra; Demak, Central Java; West Nusa Tenggara, East Lombok; and Selayar, South Sulawesi — in a trial by the Indonesian Institute of Sciences (LIPI) to develop effective interventions for tackling poverty in fishing communities.

3. TOOLS LAUNCH

- 3.1 **Dr. Liz Izquierdo** shared that the tools have been linked with/uploaded to PEMSEA's SEA Knowledge Bank. The tools demonstrate links between the ecological value of healthy coastal ecosystems, the economic value and market potential of the services that these ecosystems provide to coastal communities.
- 3.2 **Mr. Makoto Harunari** acknowledged that under a partnership in knowledge management for strengthening coastal resources management between the Partnerships in Environmental Management for the Seas of East Asia (PEMSEA) and CCRES, the CCRES tools are a welcome, new addition to the [SEA Knowledge Bank](#)

4. CLOSING

- 4.1 The session recognized that the CCRES tools and knowledge products are informing planning and management decisions that promote the health of coastal ecosystems and harness the economic benefits from their sustainable use.
- 4.2 They can be used individually to address a specific coastal challenge, such as identifying the size and location of MPAs, or collectively to deliver a system-wide solution.
- 4.3 The tools are downloadable from the CCRES [web site](#), PEMSEA Seas of East Asia Knowledge Bank knowledge portal <http://seaknowledgebank.net/e-library> and the Marine Science Institute, University of Philippines <http://www.msi.upd.edu.ph/extension/tools>

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