Local perception as a scientific evidence for managing blue carbon ecosystems for climate mitigation and adaptation

Prof. Dr Ryo Kohsaka^{1*}, Mr Jay Mar D. Quevedo², Mr Kevin Muhamad Lukman², Dr Yuta Uchiyama¹ ¹ Graduate School of Environmental Studies, Nagoya University, Japan; ² Graduate School of Environmental Studies, Tohoku University, Japan; * Corresponding author. Email: kohsaka@hotmail.com

BACKGROUND

The Coral Triangle region, which includes Philippines and Indonesia, has one of the largest blue carbon ecosystems (BCEs) in the world. Sustainable BCE management in the region can contribute to local mitigation and adaptation practices and global mitigation strategies as well as enhancing BCEs' multi functions including carbon stocks, disaster risk reduction, and local livelihood.

OBJECTIVE

Our main objective is development of a science-based policy framework and citizen science tool as means of locals' participatory monitoring and evaluation of BCEs. By doing so, we will contribute to blue carbon strategies in different spatial scales.

FRAMEWORK AND METHODOLOGY

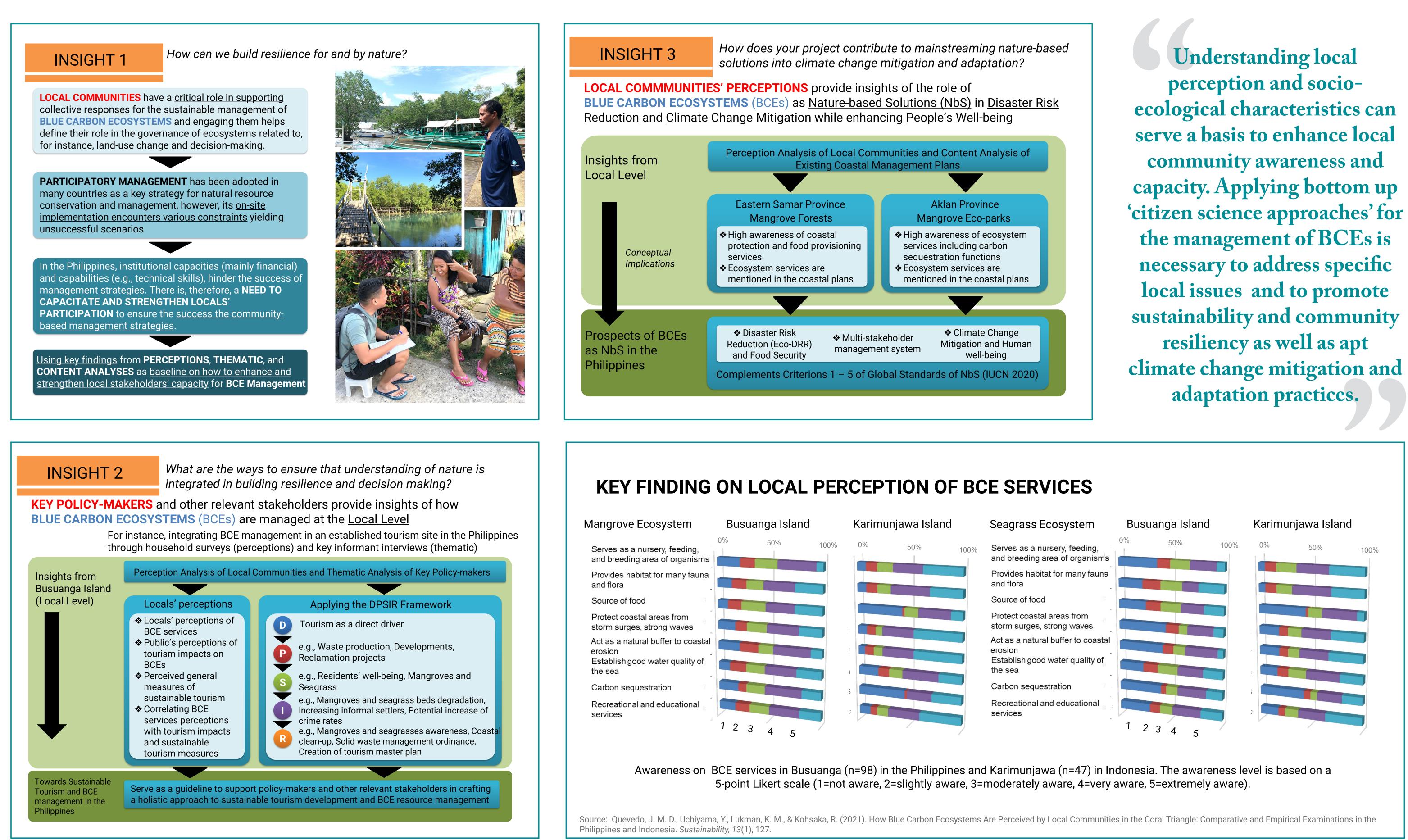
- 1. Identification of key players (stakeholders, policymakers) in BCEs management
- 2. Participatory stakeholder workshops on BCE management and introduction of citizen science concept
- **3.** Monitoring workshop using cellphone applications and visualization
- **4.** Creation of localized guidelines for community's capacity development on BCE
- **5.** Determination of site-specific factors (e.g. local customs and community mechanisms in addressing local environmental issues) influencing BCE management

www.apn-gcr.org **f** @APNGCR

@APN4GCR

CONTACT: APN Secretariat, East Building, 4F, 1-5-2 Wakinohama Kaigan Dori, Chuo-ku, Kobe 651-0073 Japan. Tel : +81-78-230-8017, Fax: +81-78-230-8018, Email: info@apn-gcr.org

A poster presented at the Thirteenth meeting of the SBSTA Research Dialogue, 1-2 June 2021



Acknowledgement: Japan Science and Technology Agency (JST) and Japan International Cooperation Agency (JICA) through the Science and Technology Research Partnership for Sustainable Development Program (SATREPS) - Comprehensive Assessment and Conservation of Blue Carbon Ecosystems and Their Services in the Coral Triangle (Blue CARES) project; Asia-Pacific Network for Global Change Research Grant Number CBA2020-05SY-Kohsaka: Enhancing capacities of local stakeholders in Coral Triangle in managing Blue Carbon Ecosystems for climate mitigation. The JSPS KAKENHI Grant Numbers: JP20K12398; JP16KK0053; JP17K02105; JST RISTEX Grant Number JPMJRX20B3; Kurita Water and Environment Foundation [20C002].

About APN:

APN is an intergovernmental network of 22 countries working towards pursuing an Asia-Pacific region that is successfully addressing the challenges of global change and sustainability. Since its establishment in 1996, APN has provided funding support of over USD 30 million to more than 500 projects, a majority of which were led by researchers and practitioners from developing countries in the Asia-Pacific region. APN contributes to UNFCCC activities through its active participation in Subsidiary Body for Scientific and Technological Advice (SBSTA), including the Nairobi Work Programme (NWP) and the International Warsaw Mechanism; and support for capacity building in its member countries related to Nationally Determined Contributions (NDCs) under the Paris Agreement.

Theme 2: Resilience for and by nature: Building knowledge and understanding to weave the protection and restoration of nature into decision making on mitigation and adaptation

