

Saving Oceans for a Sustainable Blue Economy



Marthen Welly – Marine Conservation Advisor
Coral Triangle Center (CTC)
Green Job Forum
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Why the Ocean is important

- Major economic resources
- Food source and medicine materials
- Global oxygen supply (50 - 80%, NOAA 2021)
- Clean energy resources
- Over three billion people depend on coastal and marine biodiversity for their livelihoods (UN 2020)

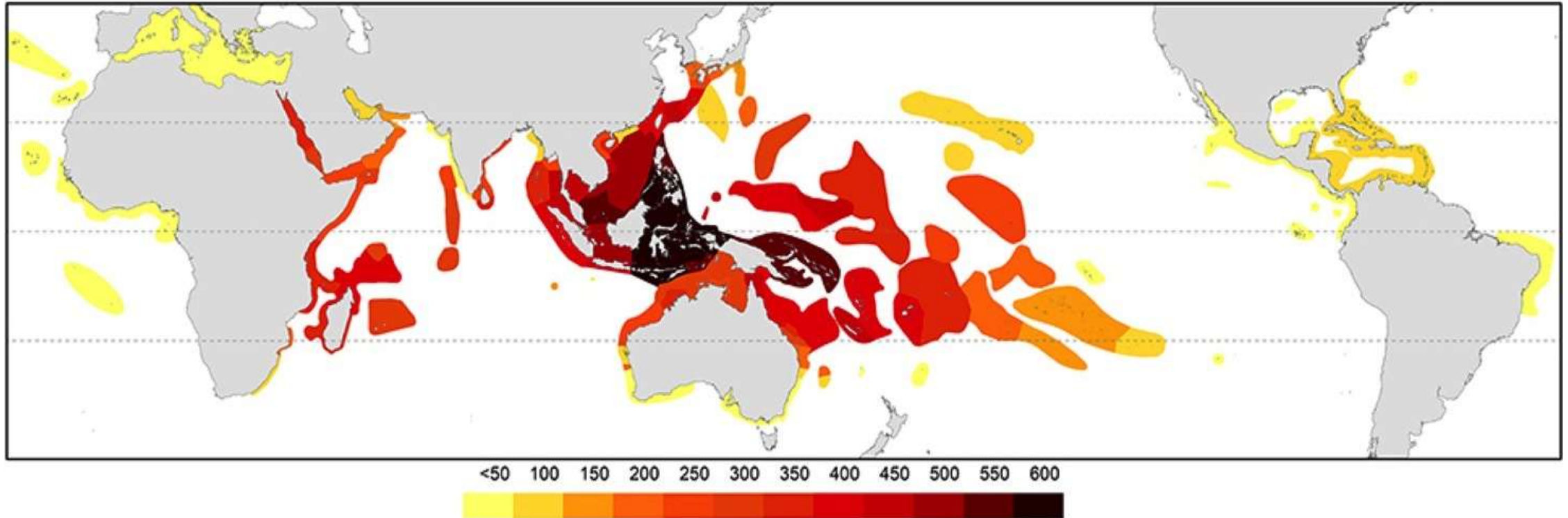
Economic value of coral reef

Economic value of the coral reef/km²/year from fisheries, marine tourism and other ecosystem services
USD100.000 – USD 600.000
(UNEP 2006).



Source : Robert Delfs

Coral Triangle is “the bull’s eye of marine biodiversity” in the world



NUMBER OF CORAL REEF SPECIES PER ECO REGION

Compiled from global distribution data of all coral species by Charlie Veron, Lyndon DeVantier and Emre Turak.
Production by Stuart Kininmonth. A product of Coral Geographic, November, 2007.

- ✓ Coral reef area in the coral triangle = 77.000 km²
- ✓ Indonesia's coral reef area = 50.000 km²
- ✓ 65% coral reef in the coral triangle and 18% in the world
- ✓ 130 million people depend on with coastal biodiversity

source : CTI-CFF, 2015

THE CORAL TRIANGLE



✓ 590 species of coral

✓ 76% species in the world

✓ 3000 species of fish

source : CTI-CFF, 2015

THE CORAL TRIANGLE



THE CHALLENGE

Protecting the global epicenter of marine biodiversity

Against the threat of...

Houses

76%

of all coral species in the world

Home to

3,000

species of reef fish

Provides

130 million

people with food and income

Generates

\$1.6 billion

in revenue from fish catch and marine tourism

TOP CORAL REEF THREATS

Coastal development



Unsustainable fishing



Irresponsible tourism



Pollution



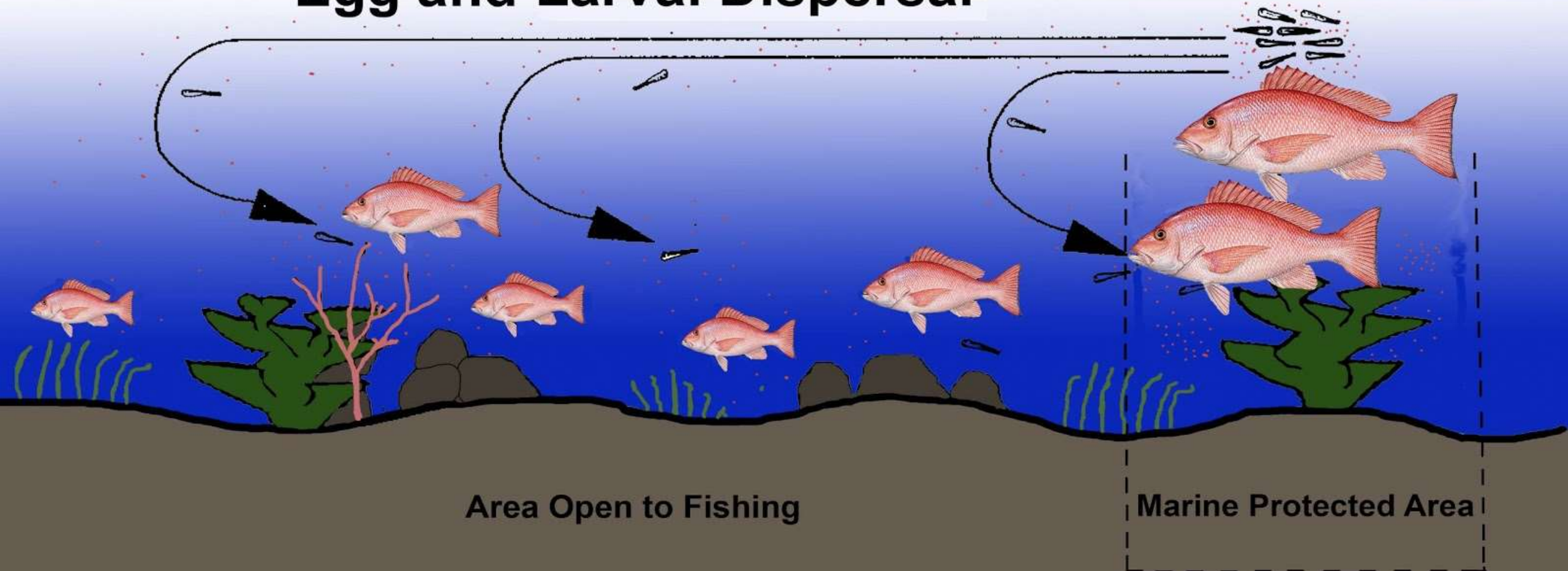
Climate change



Why Marine Protected Areas (MPAs) are important?

The Importance of MPAs for Marine Biodiversity and Fisheries

Egg and Larval Dispersal



KAWASAN PERLINDUNGAN LAUT

Kawasan yang ditentukan masyarakat dan dikuatkan dengan peraturan lokal desa sebagai tempat yang dijaga dari gangguan kegiatan manusia untuk dimanfaatkan kegiatan tertentu

SUDAH DILANGKAH, JANGAN AMBIL IKAN PUNYA

WILAYAH BINAAN RUMPU LAUT

Area perlindungan yang tidak boleh dimanfaatkan untuk kegiatan apapun jenisnya/daerah larang ambil, untuk melindungi biota yang ada didalamnya. Khusus untuk penelitian dan ekowisata

AREA PERLINDUNGAN TERUMBU KARANG

MERUMAH KEMBALAH TERUMBU KARANG LINDUNG SUDAH KUBANGUN JABAL

REKREASI

UNTUK REKREASI, DI PESISIR SINI AMAN DAN NYAMAN

HEHE! ADA CUKUT BAKI KEMBALA JARAK KAWASAN PERLINDUNGAN TERUMBU KARANG

DAERAH TANGKAPAN IKAN

The Nature Conservancy

SEA CMPA

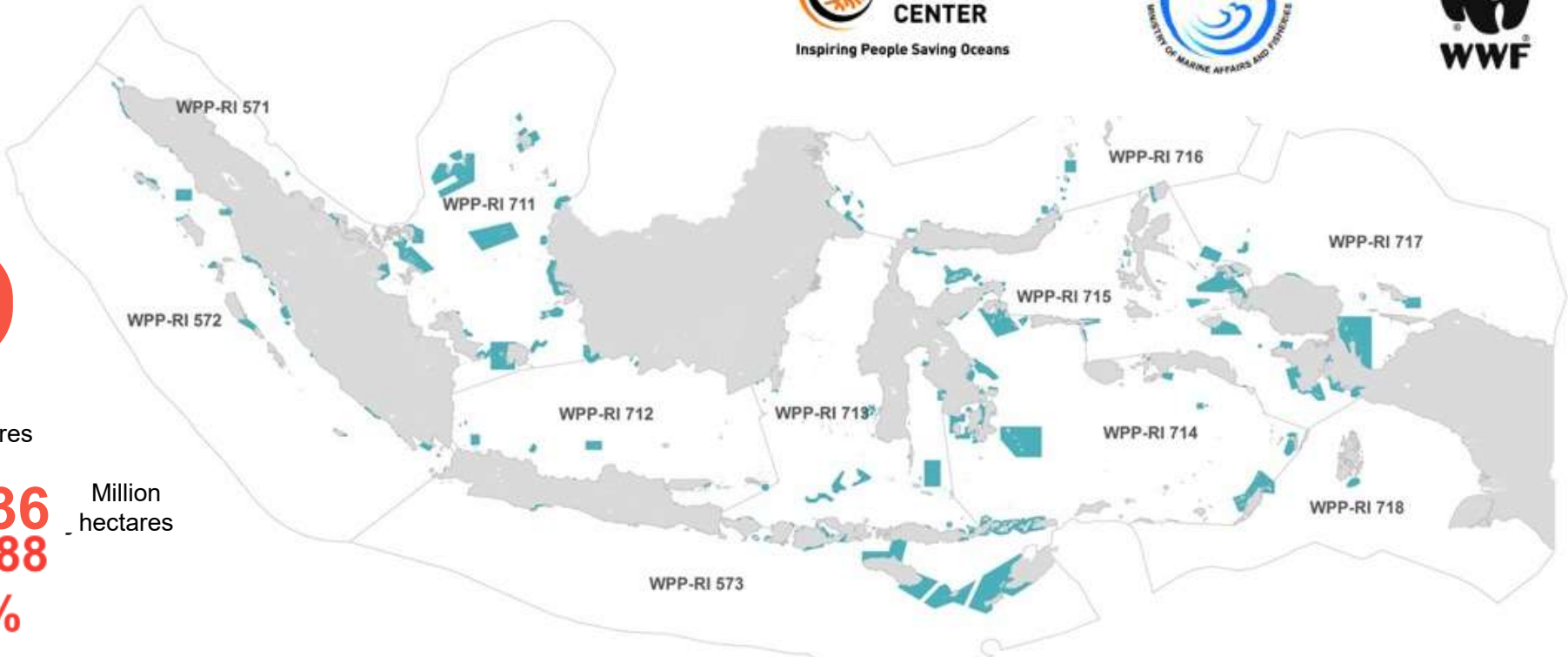
USAID



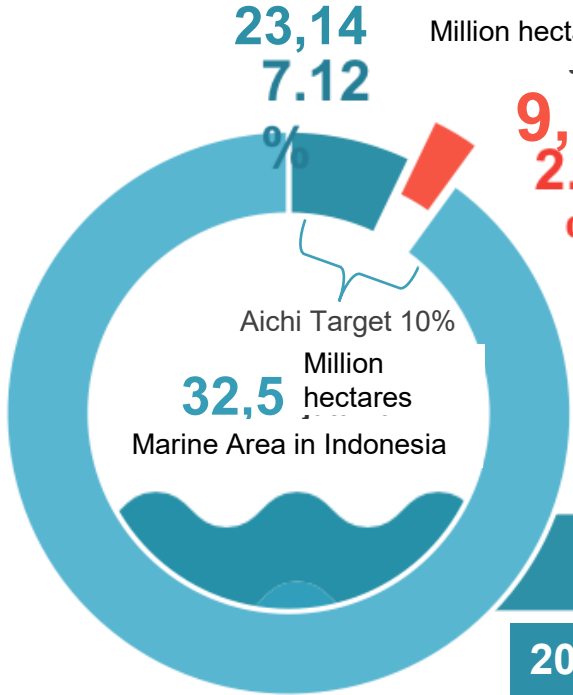
Zoning System in MPA

- **Core Zone**
- **Limited Utilization Zone**
- **Other Zone**

Developing A Roadmap for Indonesia's MPA Vision 2030



**AICHI TARGET,
SDG 14 : 10%**



9,36
2.88
%

Million hectares



2015	2016	2017	2018	2019
+ 851.671 ha 17.302.747,78 ha	+ 677.904,22 ha 17.980.651,99 ha	+ 1.164.042,29 ha 19.144.694,33 ha	+ 1.730.439,79 ha 20.875.134,08 ha	+ 2.271.240,73 ha 23.146.374,81 ha

Source: MMAF

VISION

CTC envisions healthy seas that enrich people and nature.

MISSION

CTC inspires and trains generations to care for coastal and marine ecosystems.

VALUES

Excellence
Local Stewardship
Collaboration
Results



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CENTER**

Inspiring People Saving Oceans

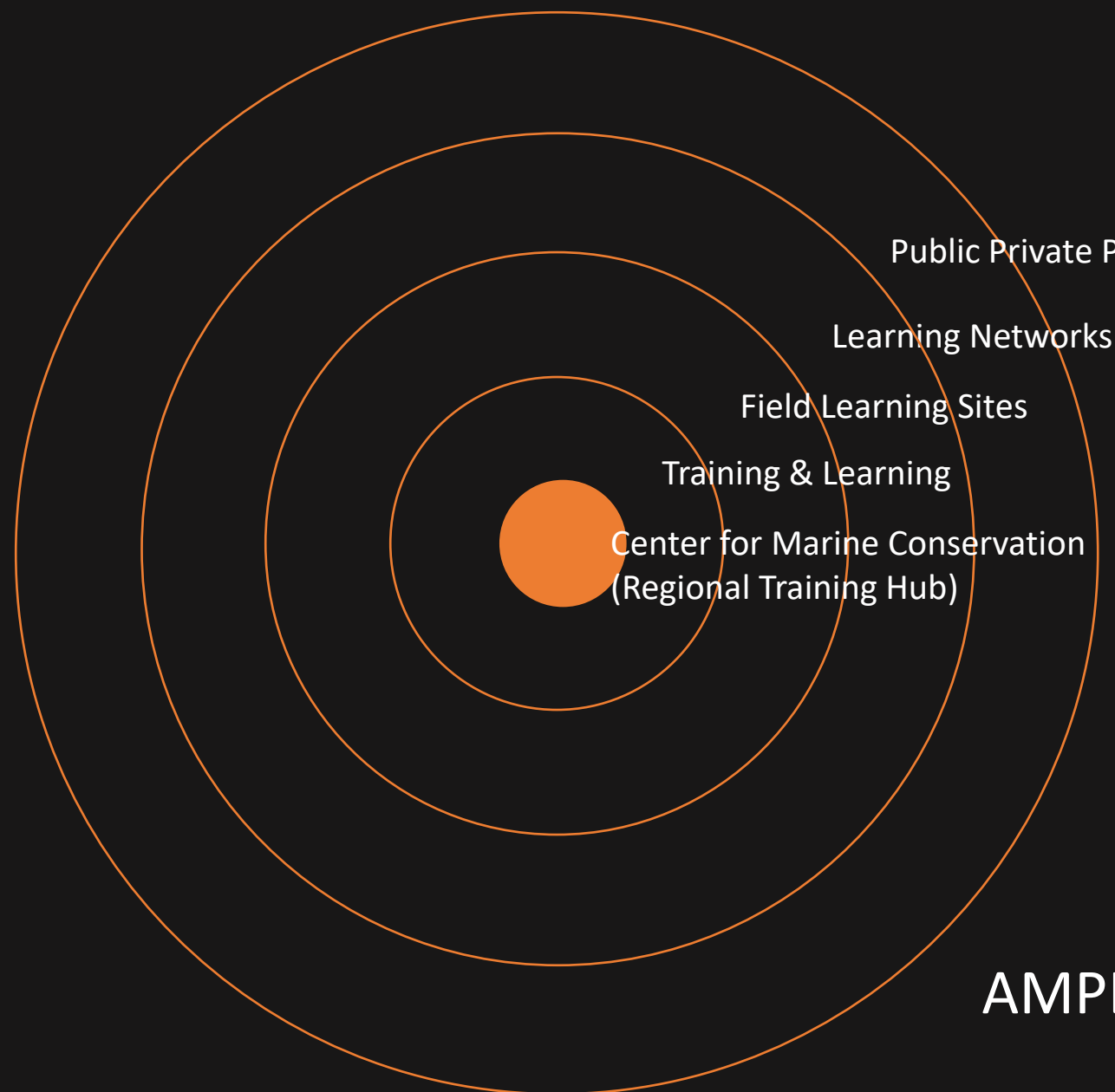
Established 2010

CTC is a member of the IUCN, the International Coral Reef Initiative (ICRI) and a development partner of the Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security (CTI-CFF).



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LOCAL

NATIONAL

REGIONAL

GLOBAL

AMPLIFY MARINE CONSERVATION

WHAT does CTC DO?

WE TRAIN



WE CONNECT



WE LEARN



WE
PARTNER



WE EQUIP



WE ENGAGE
WE INSPIRE



National Strategies Development



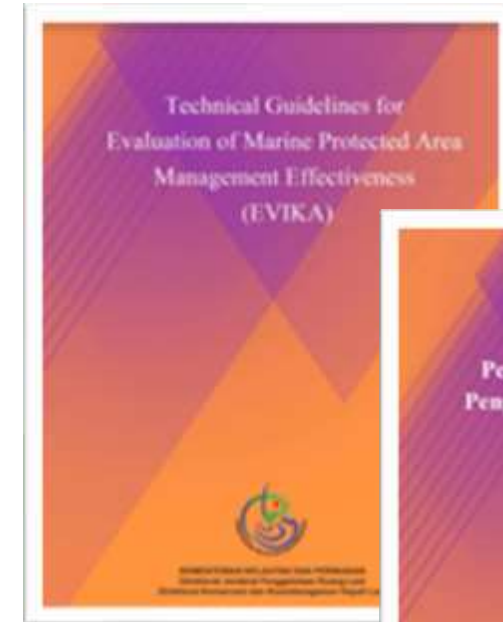
MPA VISION 2030



KAJIAN KEBUTUHAN DAN PETA JALAN PENGEMBANGAN KAPASITAS PENGELOLA KAWASAN KONSERVASI PERAIRAN, PESISIR, DAN PULAU-PULAU KECIL (KKP20K) DI INDONESIA 2020 - 2024

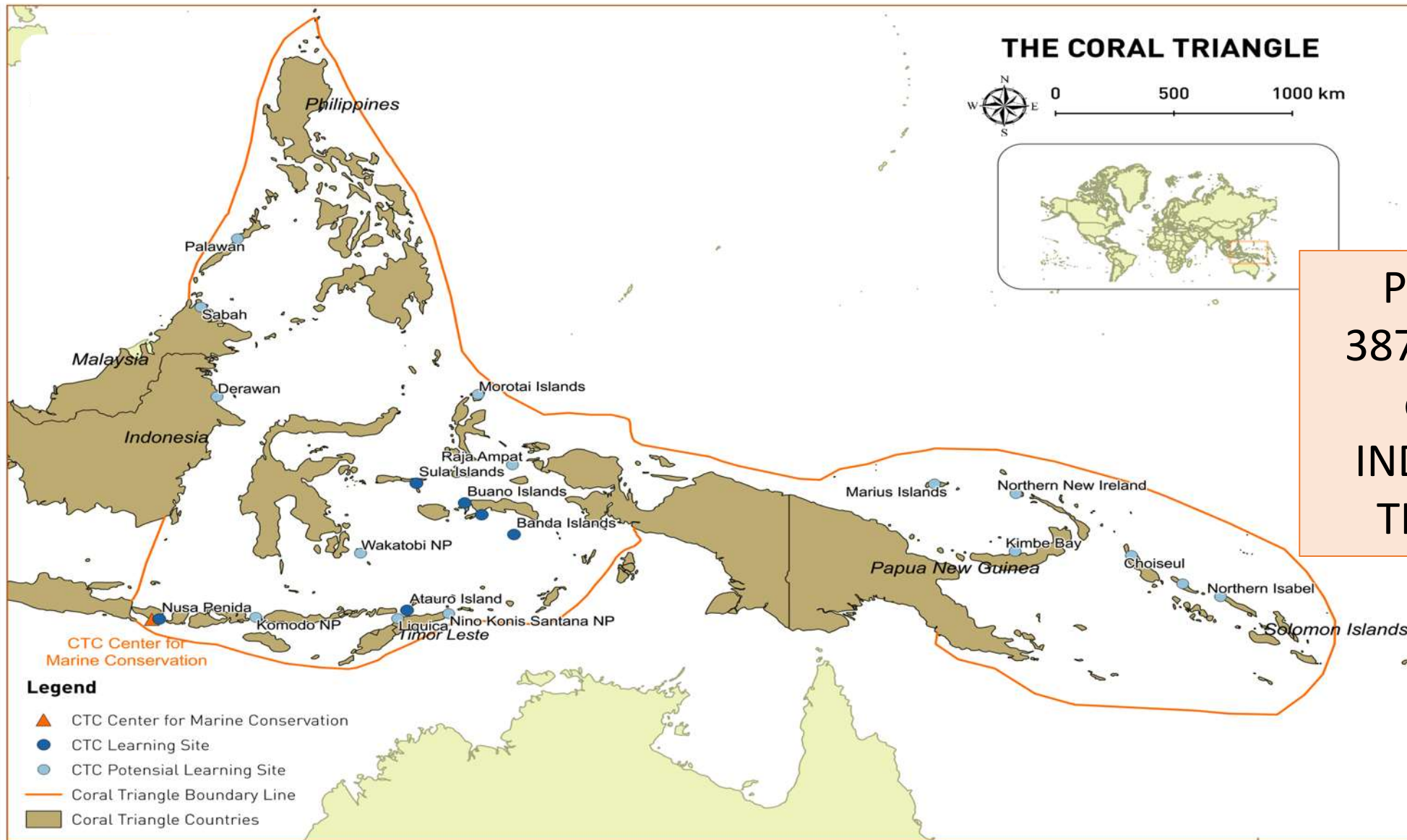
Penyusun:
Yusuf Mulyadi, Rudianto, dan tim, Kementerian Kelautan dan Perikanan
Budi Hidayat, Guntur, dan tim, Kementerian Kelautan dan Perikanan
Rizki Nur Hafidha, dan tim, Kementerian Kelautan dan Perikanan
Rizki Nur Hafidha, dan tim, Kementerian Kelautan dan Perikanan
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MPA CAPACITY BUILDING
ROADMAP 2020-2024



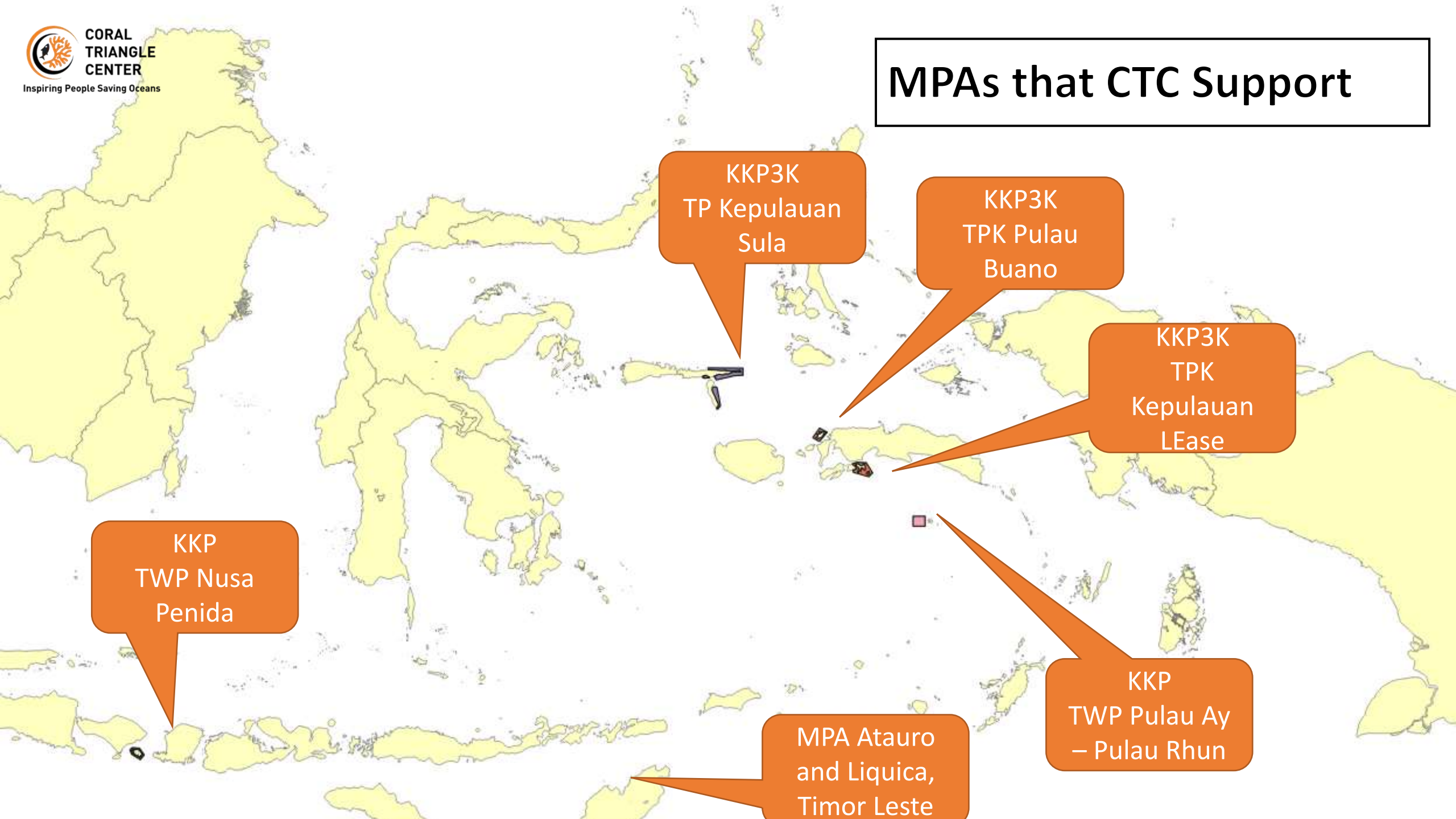
EVIKA MARINE PROTECTED AREA
MANAGEMENT EFFECTIVENESS
TOOL

WHERE WE WORK



PROTECTING
387,000 hectares
of MPAs in
INDONESIA and
TIMOR-LESTE

MPAs that CTC Support



KKP3K
TP Kepulauan
Sula

KKP3K
TPK Pulau
Buano

KKP3K
TPK
Kepulauan
LEase

KKP
TWP Nusa
Penida

MPA Atauro
and Liquica,
Timor Leste

KKP
TWP Pulau Ay
– Pulau Rhun

CONSERVATION ON THE GROUND

FIELD LEARNING SITES

Nusa Penida Marine
Protected Area, Bali



Banda Islands Marine
Protected Area Network,
Maluku



ESTABLISHING NEW MARINE PROTECTED AREAS



Buano, Maluku



Morotai, North Maluku



Lease, Maluku



Sula, North Maluku



Atauro, Timor-Leste



Liquica, Timor-Leste

SUSTAINABLE MARINE TOURISM

Bali and Labuanbajo (CTC Green Fins)



Diving Certification for local community

Nusa Penida MPA (CTC)



Diving Certification for local community (**14** Open water divers)

CLEANING the OCEAN FROM GHOST NETS (CTC – UNDP)

- CTC worked with fishermen in Merauke, Papua to address ghost net problem (UNDP ATSEA Project)
- 10 tons of discharged fishing net exported to Slovenia and providing alternative income for fishermen group



<https://www.youtube.com/watch?v=zpAe-M2rnPY&feature=youtu.be...>

Community-Based Mangrove Tours

Jungut Batu village, Nusa Lembongan, Bali (CTC)



34 local guide (Surya Mandiri Group) from Jungut Batu village for mangrove tour (30 – 50 tourists/day) MS / Surya Mandiri / CTC CTC

Community Based - Adopt the Mangrove

Lembongan village, Nusa Lembongan, Bali (CTC)



15 community members (Satya Posana Nusa Group) from Lembongan village, Nusa Penida

COMMUNITY INVOLVEMENT IN MANGROVE PLANTING

Lembongan village, Nusa Lembongan (CTC - ADB Project)

Planting 14,000 mangrove seedlings from 18 different species with over **91** community members and stakeholders



Community members are still actively managing a dedicated nursery with 6,000 seedlings for future rehabilitation activities.

WOMEN TAKE LEAD AS MANGROVE TOUR FACILITATORS

Capacity building of local communities



26 women in Lembongan trained as mangrove source person and tour facilitators (CTC - ADB Project)



Community-based mangrove tour

COMMUNITY INVOLVEMENT IN CORAL REEF RESTORATION

Empowering Communities, Restoring Reefs (Nusa Penida MPA)

120 people engaged in coral reef restoration activities :

- CTC involved community groups in three villages: Baruna Jaya, Nuansa Pulau Surya Mandiri
- Involved in the installation of 300 Reef Stars, 42 fish-domes, three artificial reefs made from concrete, and two Gajah Mina statues.
- Trained to maintain and monitor coral reef restoration sites
- CTC running adopt the coral program with community groups



SEAWEED FARMING BY COMMUNITY

Nusa Lembongan, Bali



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120 seaweed farmers in Nusa Lembongan, Bali

SEAWEED FARMING BY COMMUNITY

Nusa Lembongan, Bali



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SEAWEED TOURISM BY COMMUNITY

Lembongan village, Nusa Penida MPA (CTC)



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SEAWEED TOURISM BY COMMUNITY

Lembongan village, Nusa Penida MPA (CTC)



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Marthen Welly / CTC

SEAWEED LEARNING CENTER BY COMMUNITY

Lembongan village, Nusa Penida MPA (CTC)



COMMUNITY INVOLVEMENT IN CORAL REEF RESTORATION

Empowering Communities, Restoring Reefs (South Sulawesi)

More than **180** people employed in coral reef restoration program in Bontosua, Makassar (ref program Mars Sustainable Solutions Program)

- Reef Star structure workshop in Badi Island (40 people)
- Women involvement in rust converter and sand coating (40 people)
- More than 100 people of Bontosua island employed to tie coral fragments, including women



WOMEN ACTIVE IN CORAL REEF RESTORATION (ADB Project)

Gili Trawangan - NTB



52 women actively involved in coral reef restorations

Community Based – Sea Turtle Conservation

Kurma Asih Group, Perancak, Jembrana, Bali



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Community Based – Sea Turtle Conservation

Kurma Asih Group, Perancak, Jembrana, Bali



National Award – Kalpataru from President of Indonesia

Lesson Learned on Blue Economic Development

- Local potency and culture
- Gender Equity and Social Inclusive (GESI) principles
- Participatory approach
- Capacity and market access
- Sustainability



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Lets save and restore our ocean
for now and next generation

THANK YOU

Coral Triangle Center
Jalan Betngandang II, 88-89
Sanur,Bali, 80228 Indonesia
info@coraltrianglecenter.org

www.coraltrianglecenter.org
www.savingoceansnow.com