



Bunaken National Park Management

*An integrated
approach to coastal
hazard and climate
change in UNESCO
Biosphere Reserves:*

*Saving lives, protecting
biodiversity*

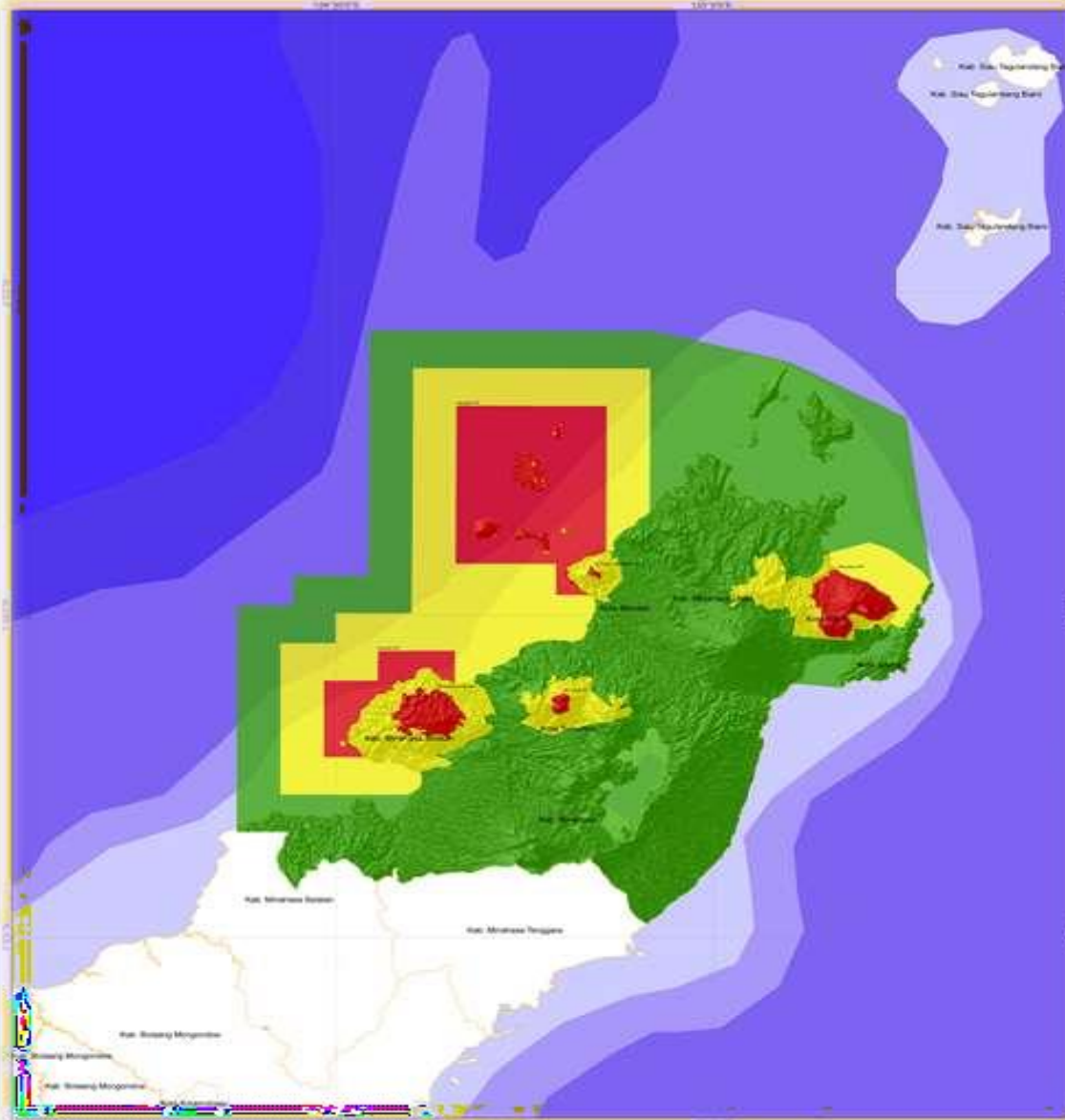
Jakarta, December 15-16th 2022

Objectives

- Component 1: Strengthening national capacity to measure and monitor climate change impacts on coastal hazards and climate changes
- Component 2: Develop and establish local measures for multi-hazard preparedness against inundation from coastal hazards in selected Biosphere Reserves
- Component 3: Strengthen early warning systems at the local, national, and regional level for selected countries
- Component 4: Quantify and develop monitoring indicators for impacts from climate change and coastal hazards on ecosystem services and local socio-economic activities
- Component 5: Strengthen ocean governance and policies to enhance climate resilience of selected Biosphere Reserves
- Component 6: Strengthen communication and collaboration between coastal and island Biosphere Reserves to leverage learning and experience and support expansion of the IOC/MAB approach

- Komponen 1: Memperkuat kapasitas nasional untuk mengukur dan memantau dampak perubahan iklim terhadap bahaya pesisir dan perubahan iklim
- **Komponen 2: Mengembangkan dan menetapkan langkah-langkah lokal untuk kesiapsiagaan multi-bahaya terhadap genangan dari bahaya pesisir di Cagar Biosfer tertentu**
- Komponen 3: Memperkuat sistem peringatan dini di tingkat lokal, nasional, dan regional untuk negara-negara tertentu
- **Komponen 4: Mengukur dan mengembangkan indikator pemantauan dampak dari perubahan iklim dan bahaya pesisir terhadap jasa ekosistem dan kegiatan sosial-ekonomi lokal**
- **Komponen 5: Memperkuat tata kelola laut dan kebijakan untuk meningkatkan ketahanan iklim Cagar Biosfer terpilih**
- **Komponen 6: Memperkuat komunikasi dan kolaborasi antara Cagar Biosfer pesisir dan pulau untuk memanfaatkan pembelajaran dan pengalaman serta mendukung perluasan pendekatan IOC/MAB**

Bunaken – Tangkoko - Minahasa



Zonation

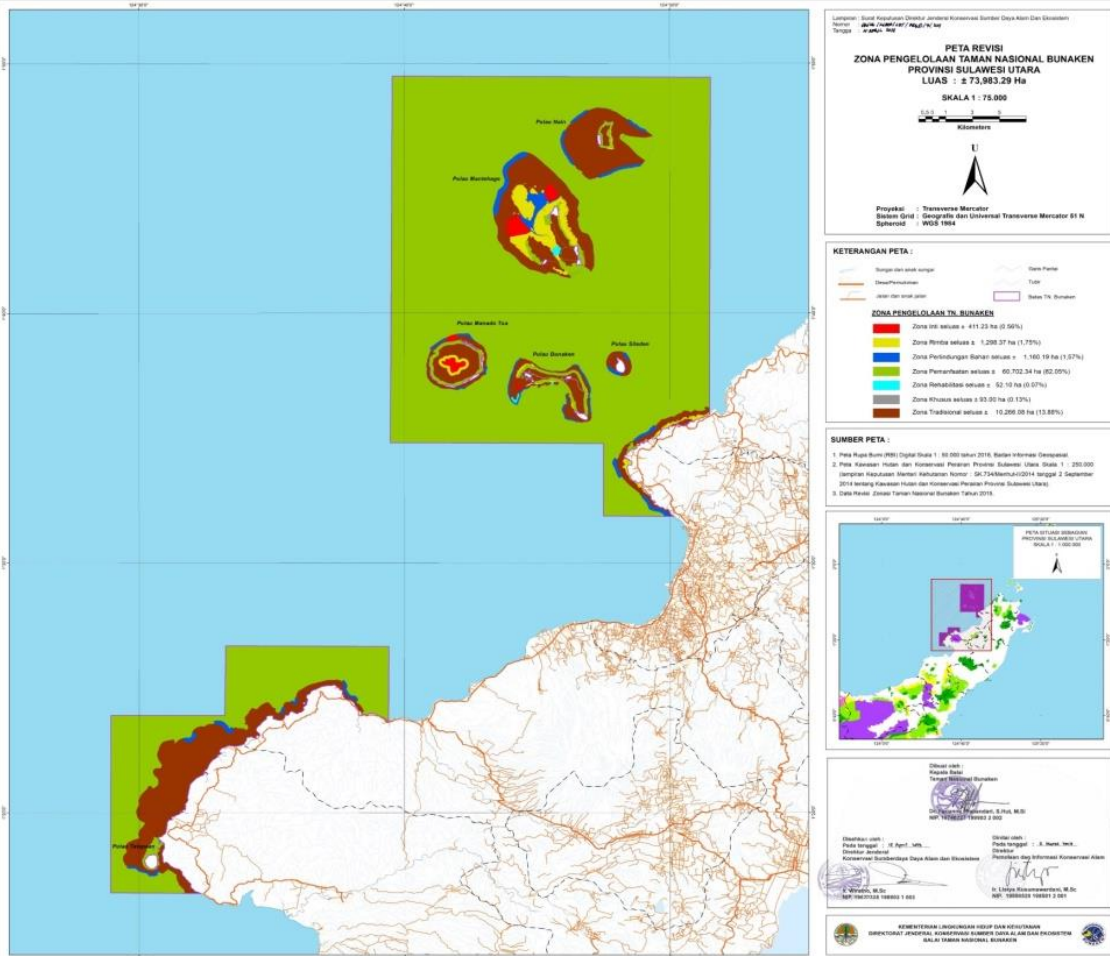


Core Area : 89.682,92 Ha

- I. *Bunaken National Park* : 73.983,29 Ha
 1. *Marine* : 69.986,40 Ha
 2. *Terrestrial* : 3.996,89 Ha
- II. *Mt. Tumpa H.V. worang Forest Park (Terrestrial)* : 208,81 Ha
- III. *Mt. Lokon Nature Reserve (Terrestrial)* : 775,57 Ha
- IV. *Duasudara Nature Reserve (Terrestrial)* : 8.531,68 Ha
- V. *Manembo - nembo Wildlife Reserve (Terrestrial)* : 6.183,99 Ha

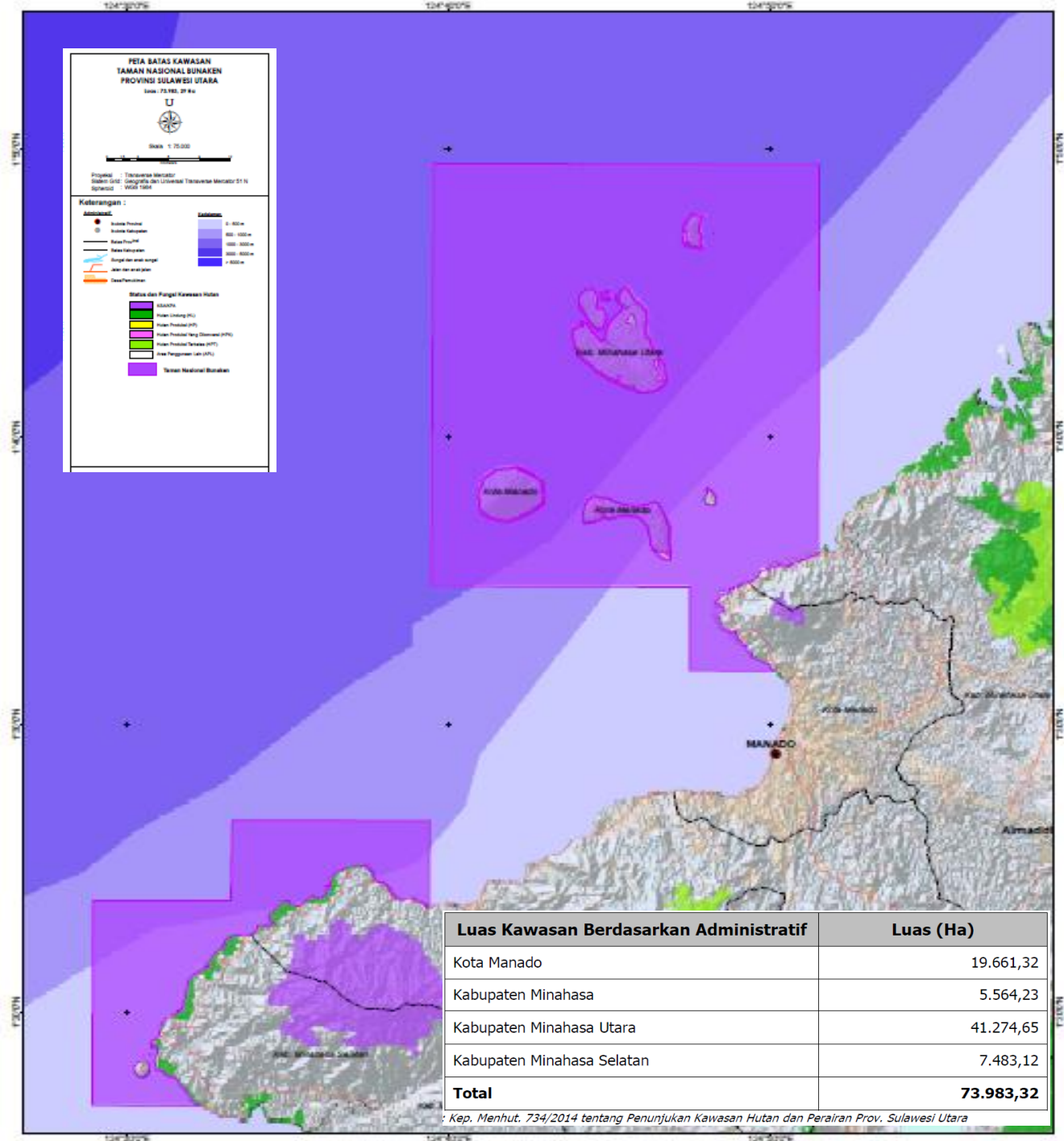
Bunaken NP > 82% area of Biosphere Reserves

More than 95% marine area



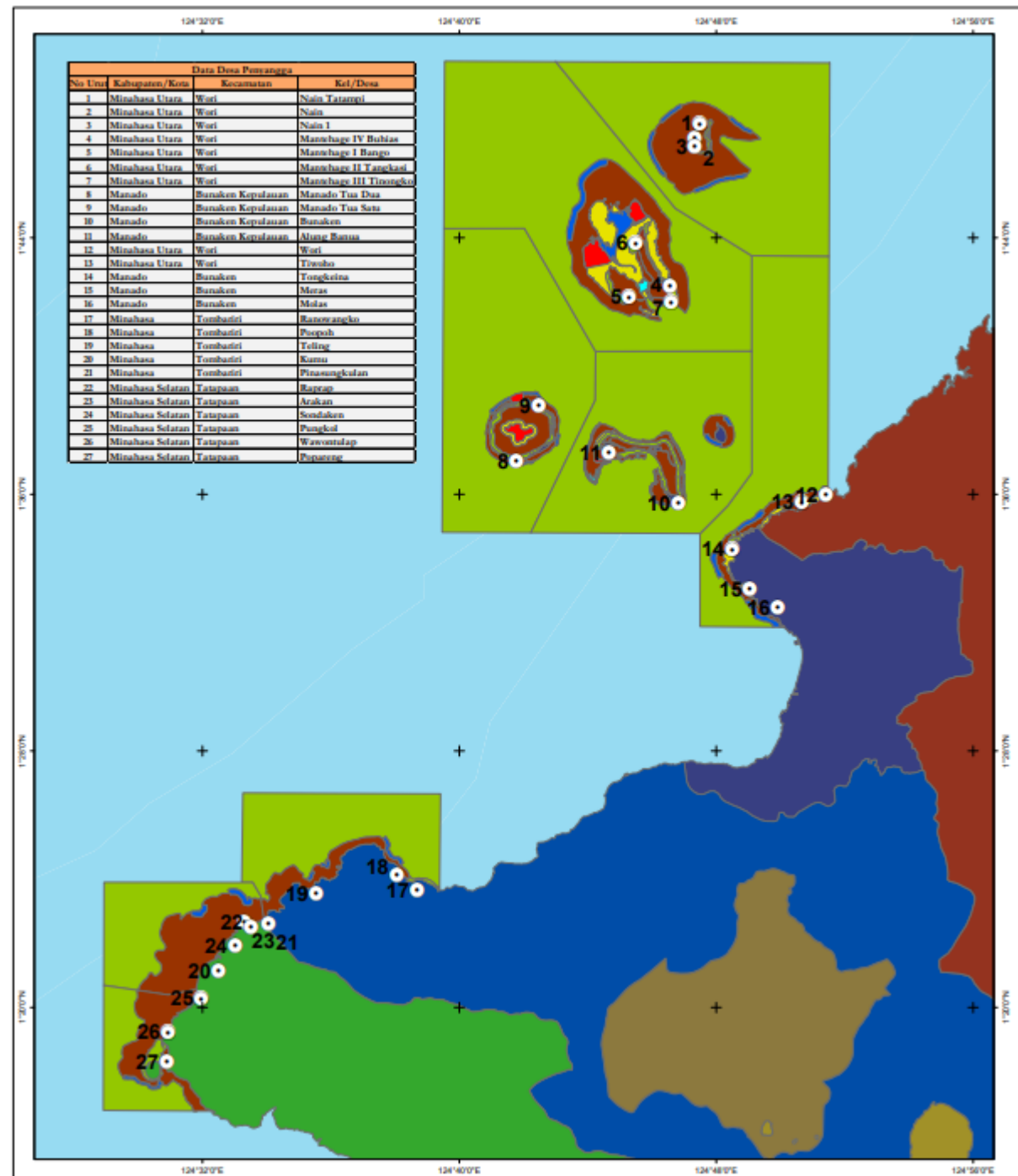
Kep. Dirjen KSDAE Nomor SK.126/KSDAE/SET/KSA.0/4/2019 tanggal 15 April 2019

- Zona Inti seluas ± 411.23 ha (0.56%)
- Zona Rimba seluas ± 1.298.37 ha (1,75%)
- Zona Perlindungan Bahari seluas ± 1.160.19 ha (1,57%)
- Zona Pemanfaatan seluas ± 60.702.34 ha (82,05%)
- Zona Rehabilitasi seluas ± 52.10 ha (0.07%)
- Zona Khusus seluas ± 93.00 ha (0.13%)
- Zona Tradisional seluas ± 10.266.08 ha (13.88%)

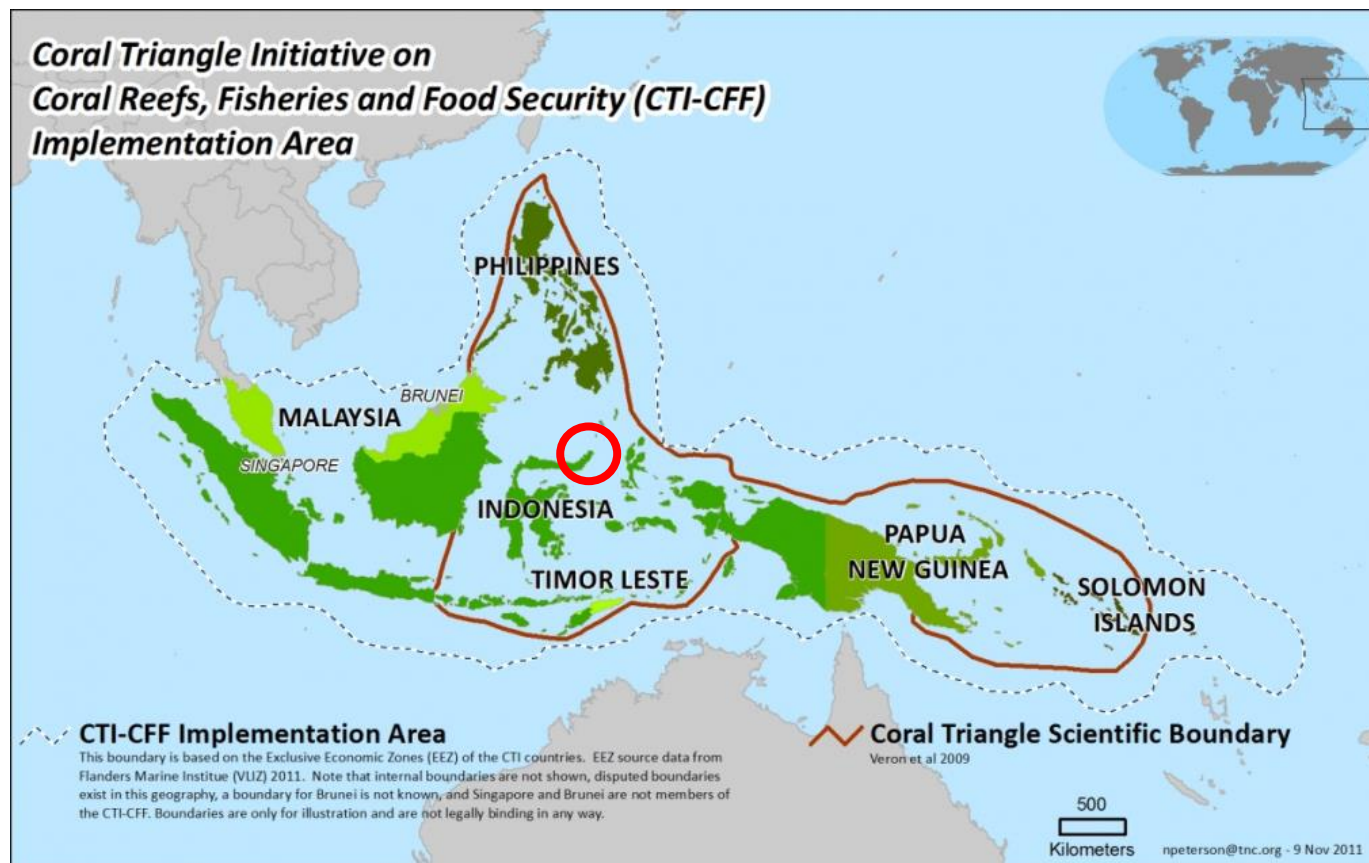


Buffer zone map

- 27 villages (4 district)
- > 30.000 people
- high community dependence on natural resources in Bunaken NP
- Coastal communities
- Low level economic, education, and health
- Blue economy > Blue nutrition



Strategic Position



- Located on Center of The World's Coral Triangle → small area with abundance and high diversity
- Bunaken National Park included in National Tourism Strategic Area / Kawasan Strategis Pariwisata Nasional (KSPN) and
- 1 of 5 Indonesia's Super Priority Tourism Destinations Likupang / Destinasi Pariwisata Super Prioritas (DPSP)
- Biosphere Reserve (Bunaken – Tangkoko - Minahasa) dalam 32nd (MAB) UNESCO meeting in Paris, France October 28th 2020

VISION and MISSION

VISION :

Terwujudnya Taman Nasional Bunaken sebagai Pusat Ekowisata dan Studi Ekologi Kelas Dunia Berbasis Ekosistem Perairan Laut dan Daratan yang Bermanfaat bagi Masyarakat”

The realization of Bunaken National Park as a World-Class Ecotourism and Ecological Study Center Based on Marine and Land Water Ecosystems that Benefits to Community

Mission

- Melestarikan ekosistem Laut dan Daratan Taman Nasional Bunaken.
- Melestarian manfaat sumber daya alam hayati dan ekosistem Taman Nasional Bunaken untuk kepentingan pendidikan, penelitian, menunjang budidaya dan pariwisata alam.
- Memantapkan kerja sama dengan parapihak untuk pengelolaan Taman Nasional Bunaken.
- Menyediakan peluang usaha bagi masyarakat dan dunia usaha.

- *Preserving the Marine and Land ecosystems of Bunaken National Park.*
- *Preserving the benefits of biological natural resources and ecosystems of Bunaken National Park for the benefit of education, research, supporting cultivation and natural tourism.*
- *Strengthening cooperation with stakeholders for the management of Bunaken National Park.*
- *Providing business opportunities for the community and the business world.*

5 Basis Kelola Kawasan Konservasi

resep anti hoax



Regulation Based



Scientific Based



Evidence Based



Experience Based



Precautionary Principle Based





Primary forest



**BUNAKEN
NATIONAL PARK
ECOSYSTEM**



Coral reefs



Seagrass



Mangrove forest

Important Value of Bunaken National Park



Coral reef ecosystem

Coral reef area 8.010,7 Ha with > 390 species from 63 genera and 15 famili

Manadotua and Mantehage Island

Main forest area 298,1 Ha from Land area 4.983,29 ha

Habitat > 30 species birds
Rusa Timorensis

Coral fishes

More than 1000 species in 175 familia



Flagship and important species

Habitat marine mamals dugong, cetaceans dan seaturtles

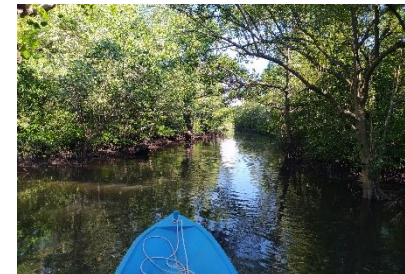


Multiplier effect ecotourism



Mangrove forest and Seagrass

Mangrove forest area 2.652 Ha with 30 species and Seagrass area 5.730 Ha with 9 species



Community

> 30.000 people lives in buffer zone (coastal and small islands)



Strategi pengelolaan TN Bunaken

1. Menjamin keberadaan ekosistem laut dan daratan kawasan Taman Nasional Bunaken



2. Menjamin kelestarian TSL dan ekosistem Taman Nasional Bunaken



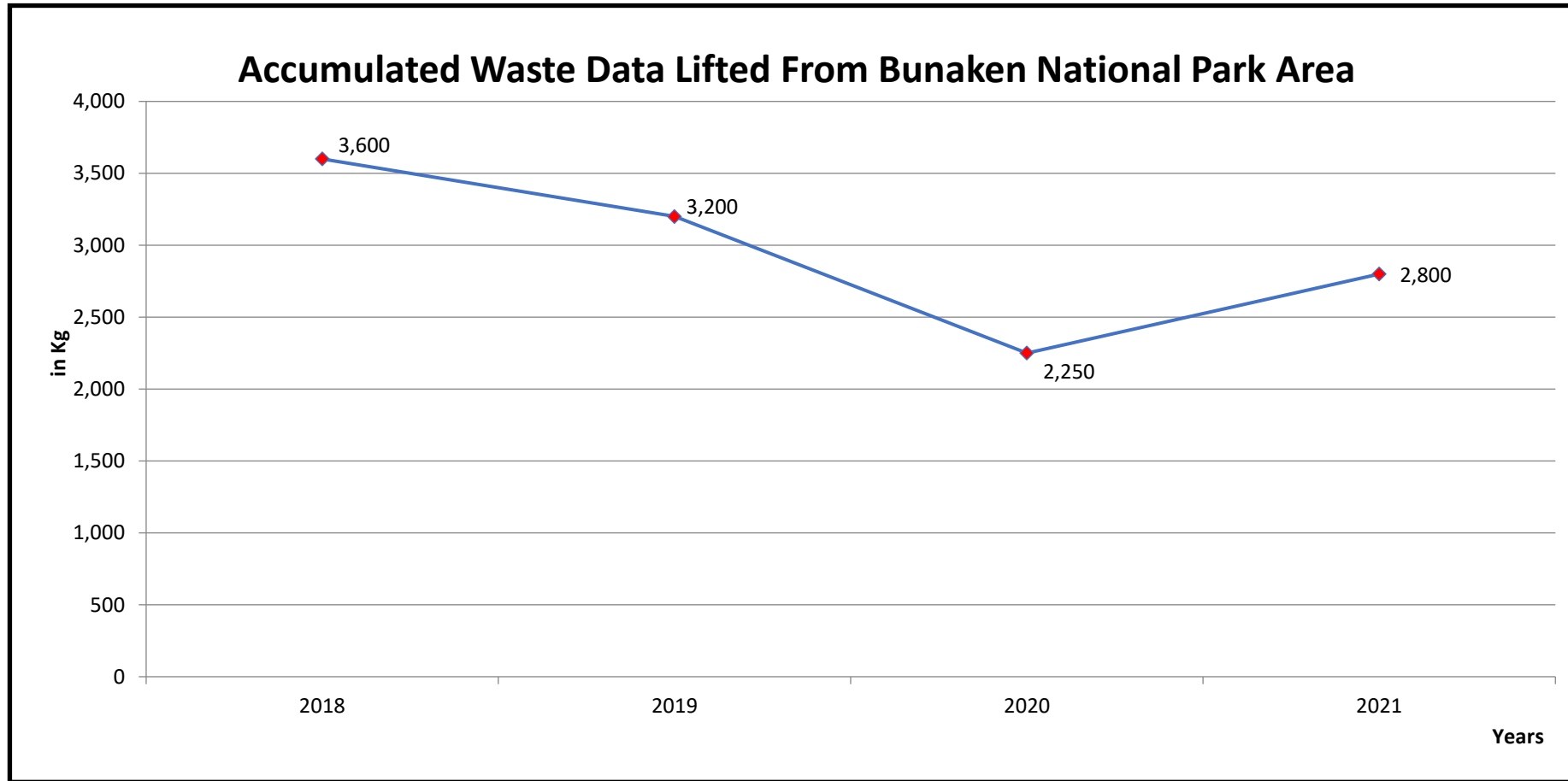
3. Menjamin mantapnya kolaborasi dan pembagian peran para pihak dalam menunjang pengelolaan Taman Nasional Bunaken



4. Menjamin masyarakat dan dunia usaha mendapat manfaat dari keberadaan Taman Nasional Bunaken



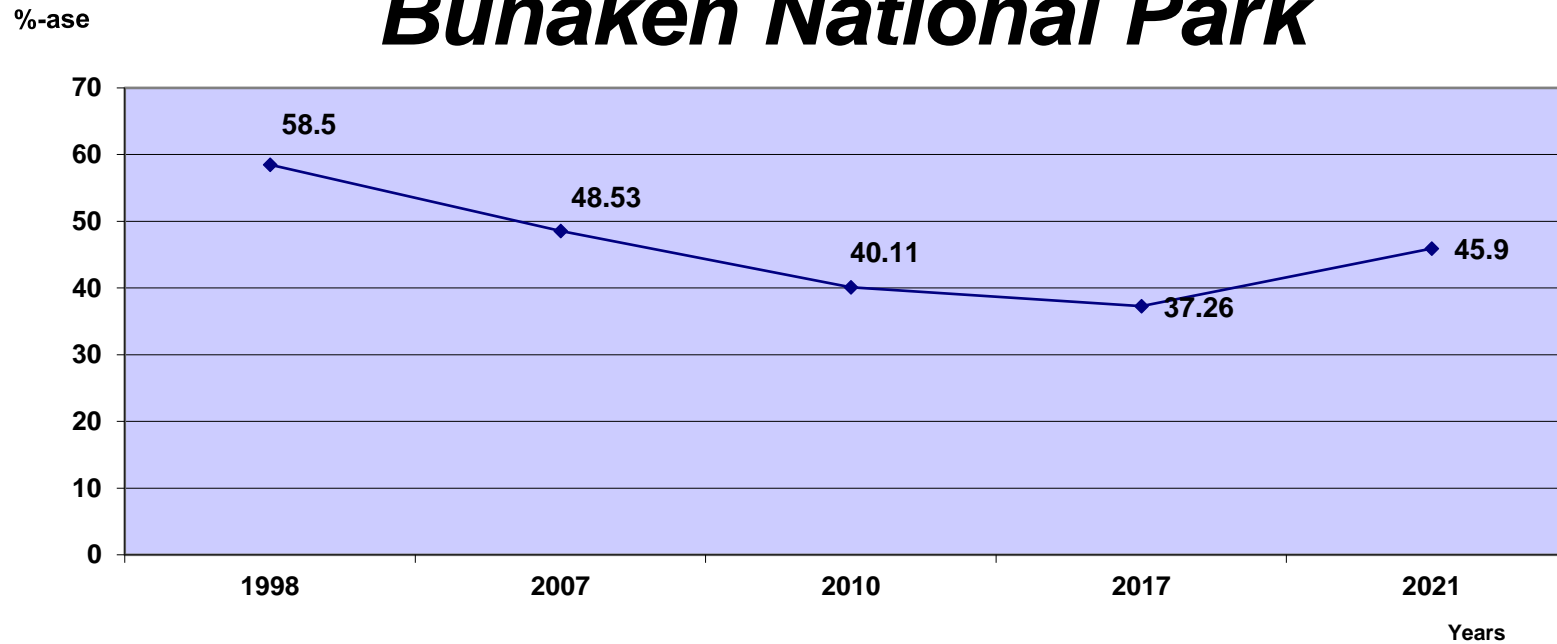
Marine Debris Handling



Coral transplantation result (Poopoh site)



Live coral reef cover Bunaken National Park



Live coral cover increases due to decreasing tourism due to Covid 19 pandemic

Reccomendation Key Activities

- Massive mangrove planting
- Coral transplantation
- Garbage nets in the river



Coral transplantation (Ecosystem recovery)

Tabel 6. Jenis Terumbu Karang Yang Akan Ditanam

No	Lokasi	Luas	Jenis Tanaman
1	Pesisir Selatan	8	Acropora, Montipora, Pocilopora, Millepora
2	Pulau Bunaken	3,22	
3	Pulau Manado Tua	1	
4	Pulau Mantehage	0,87	
5	Pulau Nain	1	





BALAI TAMAN NASIONAL BUNAKEN



Membangun Zona Integritas Menuju

WILAYAH BEBAS DARI KORUPSI (WBK)

&

WILAYAH BIROKRASI BERSIH DAN MELAYANI (WBMM)

Dapatkan info lengkap di
www.tn-bunaken.com



Call center
082195399339



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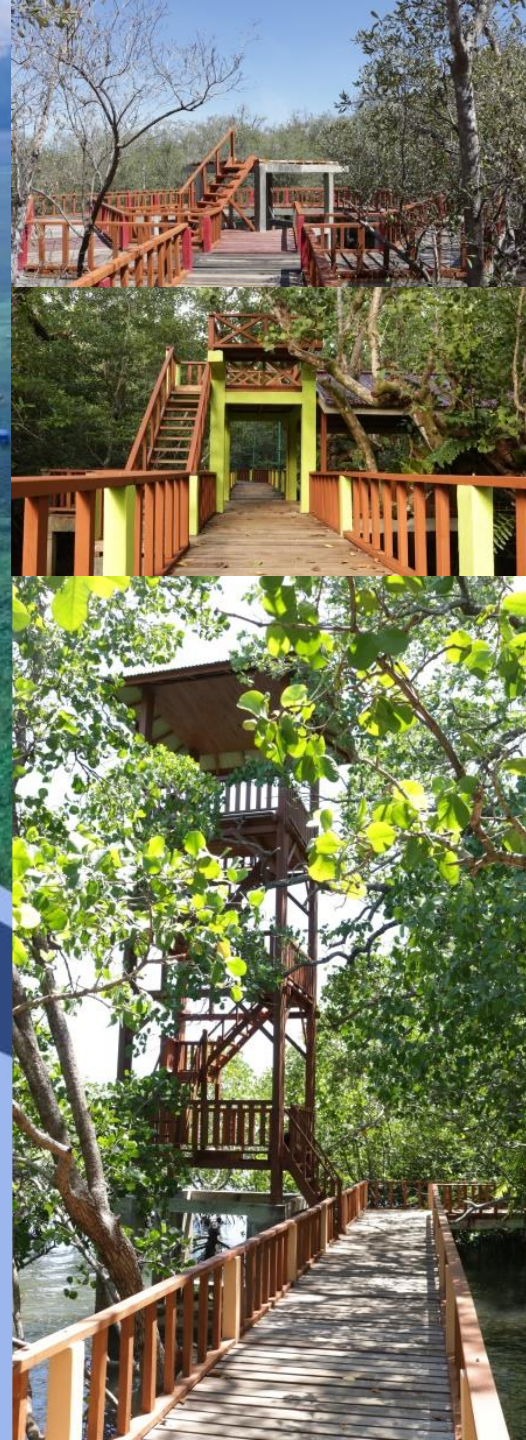
bunaken.np@
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Taman Nasional Bunaken



Taman Nasional Bunaken



THANK YOU!
TERIMA KASIH