



IPB University
— Bogor Indonesia —



CTSS
CENTER FOR TRANSDISCIPLINARY
AND SUSTAINABILITY SCIENCES

SUSTAINABILITY REPORT 2020



Center for Transdisciplinary and Sustainability Sciences (CTSS)

“Complexity, Sustainability and Wisdom for Better Life”

Member of:



SUSTAINABLE DEVELOPMENT
SOLUTIONS NETWORK
A GLOBAL INITIATIVE FOR THE UNITED NATIONS



YAPEKA



PENABULU FOUNDATION
CIVIL SOCIETY RESOURCE ORGANIZATION

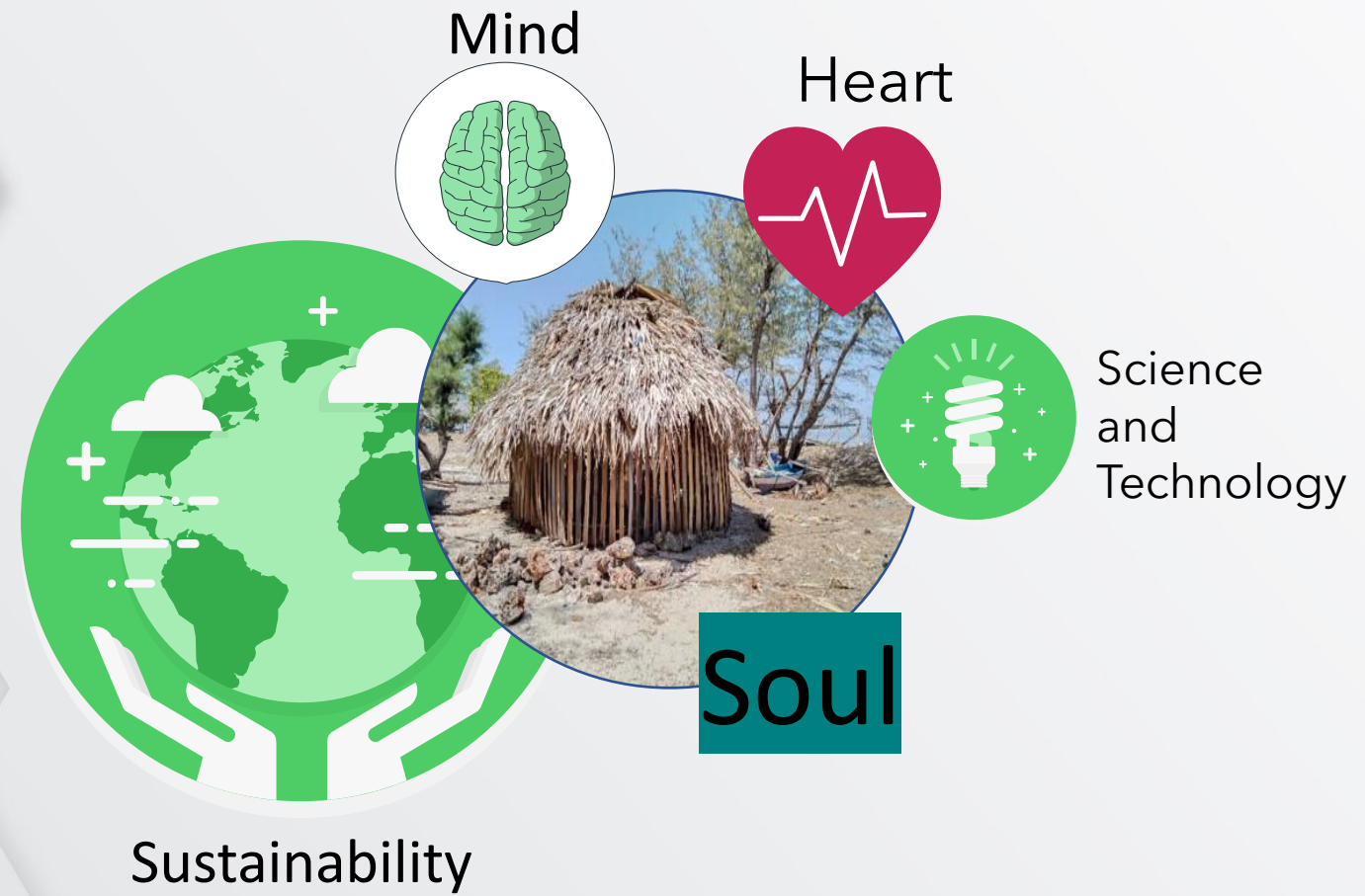
Strategic Partners:

MSM MAASTRICHT
SCHOOL OF
MANAGEMENT

Sebuah Pengantar Tentang Sustainability

Keberlanjutan kehidupan merupakan sebuah isu yang kompleks sehingga tidak mudah untuk menyelesaikannya dengan bermodal disiplin ilmu tertentu. Upaya mewujudkan keberlanjutan kehidupan harus menyeimbangkan antara pola pikir (mind), hati (heart), jiwa (soul), sains dan teknologi

Sustainability of life is a complex issue so it is not easy to solve it with the capital of certain disciplines. Efforts to realize the sustainability of life must balance between the mind, heart, soul and science and technology



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Sharing Knowledge with Knowledge Platform

CTSS sebagai sebuah center yang mempunyai mandat untuk mengembangkan sustainable science, berusaha menginisiasi sebuah platform yang diberi nama knowledge platform. Kehadiran platform ini menjadi penting untuk mengembangkan sustainable science tersebut. Knowledge platform yang dikembangkan ada tiga macam yaitu Transdisciplinary Tea Talk, Graduated Student Monthly Seminar on Sustainability dan Afternoon Discussion on Redesigning the Future.

CTSS as a center that has a mandate to develop sustainable science, is trying to initiate a platform called the knowledge platform. The presence of this platform is important to develop sustainable science. There are three kinds of knowledge platforms developed, namely Transdisciplinary Tea Talk, Graduated Student Monthly Seminar on Sustainability and Afternoon Discussion on Redesigning the Future.



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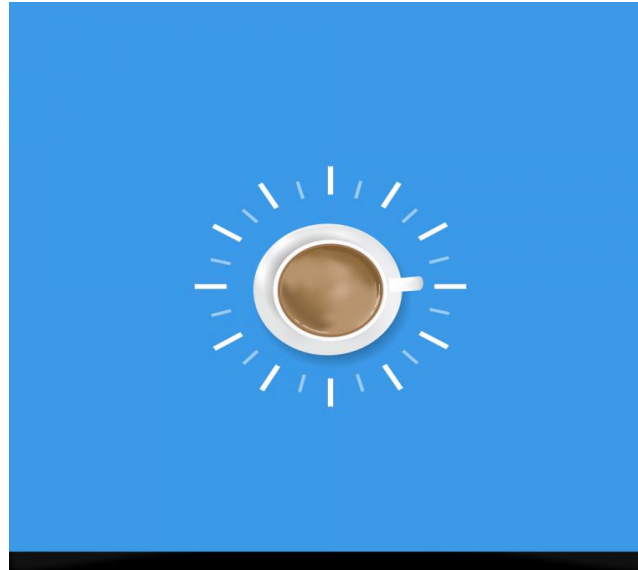
Sharing Knowledge with Knowledge Platform

GRADUATE STUDENT MONTHLY SEMINAR

adalah diskusi yang diselenggarakan dengan mengangkat isu keberlanjutan. Penyelenggaraan diskusi ini ditujukan bagi mahasiswa pascasarjana di seluruh Indonesia.

(is a discussion held by raising the issue of sustainability. This discussion is intended for postgraduate students throughout Indonesia)

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TRANSDISCIPLINARY TEA TALK

Seri diskusi Transdisciplinary Tea Talk diarahkan untuk membahas pendekatan transdisiplin dan aplikasinya di masyarakat. Secara khusus, tahun 2020 membahas isu pandemi Covid-19

(The Transdisciplinary Tea Talk discussion series is directed to discuss the transdisciplinary approach and its application in society. In particular, 2020 discusses the issue of the Covid-19 pandemic)

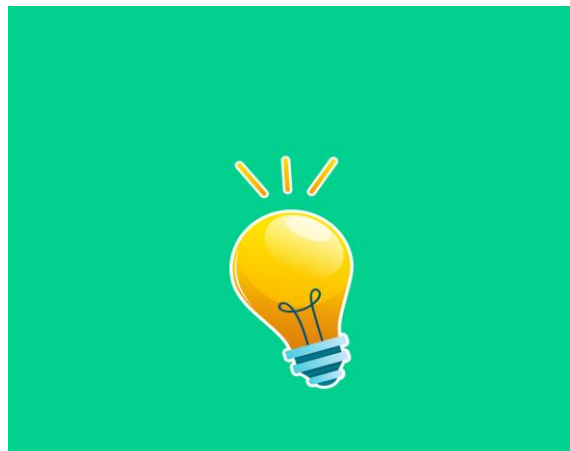
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AFTERNOON DISCUSSION REDESIGNING THE FUTURE

Diskusi ini merupakan seri diskusi “out of the box” yang membahas *interconnectedness and wisdom*. Seri diskusi ini berusaha mengajak masyarakat memandang masa depan dengan cara yang berbeda

(This discussion is an “out of the box” discussion series that discusses interconnectedness and wisdom. This discussion series seeks to invite the public to look at the future in a different way)

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Goals

4

2nd International Symposium on Transdisciplinarity Approach for Knowledge Co-creation in Sustainability (ISTAKCOS)

The 2nd International Symposium on Transdisciplinary Approach for Knowledge co-Creation in Sustainability (2nd ISTAKCOS) merupakan biannual konferens yang diselenggarakan oleh CTSS IPB University. Tahun 2020, ISTAKCOS mengangkat tema "**Understanding Complexity and Transdisciplinary for Sustainability.**"

The 2nd International Symposium on Transdisciplinary Approach for Knowledge co-Creation in Sustainability (2nd ISTAKCOS) is a biannual conference organized by CTSS IPB University. In 2020, ISTAKCOS raised the theme "Understanding Complexity and Transdisciplinary for Sustainability."

[Baca: 2nd ISTAKCOS CTSS IPB University](#)



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2nd International Symposium on Transdisciplinarity Approach for Knowledge Co-creation in Sustainability (ISTAKCOS)

Konferens ini dilaksanakan pada 3-4 November 2020 secara online menggunakan Zoom meeting. Simposium ini merupakan wadah pertemuan berbagai pakar untuk berbagi hasil penelitian dan pengalaman mereka terkait dengan keberlanjutan. Konferensi ini memberikan wawasan tentang implementasi ilmu transdisiplin dan keberlanjutan dalam memecahkan masalah isu pembangunan yang semakin kompleks.

Kegiatan konferens diikuti oleh 230 peserta yang berasal dari Indonesia, Filipina, Jerman, Taiwan, Italia dan Afrika Selatan. Pada kegiatan ini, panitia menerima 68 abstrak untuk dipresentasikan dan 42 full paper untuk dipublikasikan di IOP Earth and Environmental Sciences.

[Baca artikelnya di IOP Earth and Environmental Sciences](#)

The conference was held on November 3-4, 2020 via zoom webinar and zoom meeting. This symposium is a meeting platform for various experts for sharing the results of their research and experineces related to sustainability. The conference provides insights into the implementation of transdisciplinary and sustainability science in solving the problems of increasingly complex development issues.

The conference was attended by 230 participants from Indonesia, the Philippines, Germany, Taiwan, Italy and South Africa. In this activity, the committee received 68 abstracts to be presented and 42 full papers to be published in IOP Earth and Environmental Sciences.

[Read the article on IOP Earth and Environmental Sciences](#)





RESEARCH

15 LIFE ON LAND



CONSERVATION AND BIODIVERSITY

Pemanfaatan AI untuk Memerangi Perdagangan Satwa Liar (Utilization of AI to Combat Wildlife Trade)

Illegal *wildlife trade* (IWT) mencerminkan permasalahan keberlanjutan yang kompleks, sehingga membutuhkan inovasi dan solusi dari berbagai sektor. Salah satu inovasi yang dirancang oleh CTSS IPB University dan Wildlife Conservation Society (WCS) adalah pemanfaatan teknologi artificial intelligence untuk memerangi IWT.

The illegal wildlife trade (IWT) reflects complex sustainability issues, which require innovation and solutions from various sectors. One of the innovations designed by CTSS IPB University and the Wildlife Conservation Society (WCS) is the use of artificial intelligence technology to combat IWT.



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RESEARCH

CONSERVATION AND BIODIVERSITY



Pemanfaatan AI untuk Memerangi Perdagangan Satwa Liar *(Utilization of AI to Combat Wildlife Trade)*

Program ini berlangsung dari Oktober 2020 - Agustus 2021. Pengembangan teknologi AI diharapkan dapat menciptakan perangkat lunak pemetaan prediktif yang mampu mengidentifikasi area berisiko tinggi perdagangan untuk saat ini dan masa depan. Program ini juga menjadi wadah dalam pelaksanaan forum pakar IWT dan kumpulan pakar IWT.

The program runs from October 2020 - August 2021. The development of AI technology is expected to create predictive mapping software capable of identifying high-risk areas of trade for now and the future. This program is also a forum for the implementation of the IWT expert forum and the IWT expert group.

Selengkapnya: [AI untuk Penanggulangan IWT](#)



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SUSTAINABILITY OF SMALL ISLANDS

Pengelolaan Kemandirian Pulau-Pulau Kecil di Era Covid-19: Sebuah Pendekatan Holistic dan Inklusif melalui Pendekatan Transdisiplin

Di masa pandemi, CTSS turut berpartisipasi dalam pengembangan pendekatan transdisiplin. Partisipasi ini diwujudkan melalui penelitian tentang pengelolaan kemandirian pulau-pulau kecil di Era Covid-19. Program ini berusaha menggali kemampuan masyarakat di Kepulauan Seribu dalam menghadapi pandemi Covid-19.

During the pandemic, CTSS participated in the development of a transdisciplinary approach. This participation is realized through research on the management of the independence of small islands in the Covid-19 Era. This program seeks to explore the capabilities of the people in the Thousand Islands in the face of the Covid-19 pandemic.

Request a report to email: ctss@apps.ipb.ac.id



Foto: Wawancara dan survei dengan dinas perikanan di Kepulauan Seribu. (Sumber: Jordan Tito)





RESEARCH

SUSTAINABILITY OF SMALL ISLANDS

Pemanfaatan Kawasan Konservasi Perairan oleh Masyarakat Secara Berkelanjutan di Laut Sawu

(Sustainable Utilization of Marine Protected Areas in the Savu Sea)



Di samping membangun pemahaman dan pengetahuan tentang keberlanjutan melalui diskusi, CTSS IPB University juga berupaya mewujudkan konsep keberlanjutan di masyarakat secara langsung. Aksi CTSS tersebut antara lain program pemanfaatan kawasan konservasi perairan oleh masyarakat secara berkelanjutan di Laut Sawu.



In addition to building understanding and knowledge about sustainability through discussion, CTSS IPB University also seeks to realize the concept of sustainability in the community directly. The CTSS actions include the community's sustainable use of water conservation areas in the Savu Sea.



Foto: Plank nama wisata alam Kelabba Madja.
(Sumber: Galuh Adriana)

Pemanfaatan Kawasan Konservasi Perairan oleh Masyarakat Secara Berkelanjutan di Laut Sawu

(Sustainable Utilization of Marine Protected Areas in the Savu Sea)

Program ini merupakan program bersama antara CTSS IPB University dengan Yapeka, Yayasan Penabulu, Indonesia Ocean Pride (IOP) melalui program *The Coral Reef Rehabilitation and Management Program – Coral Triangle Initiative (COREMAP-CTI)*. Pelaksanaan program berada dalam pengawasan Kementerian Perencanaan Pembangunan Nasional (PPN)/Badan Perencanaan Pembangunan Nasional (Bappenas) melalui *Indonesia Climate Change Trust Fund (ICCTF)*

This program is a joint program between CTSS IPB University and Yapeka, Penabulu Foundation, Indonesia Ocean Pride (IOP) through The Coral Reef Rehabilitation and Management Program – Coral Triangle Initiative (COREMAP-CTI). Program implementation is under the supervision of the Ministry of National Development Planning (PPN)/National Development Planning Agency (Bappenas) through the Indonesia Climate Change Trust Fund (ICCTF)

- ❖ **Kajian Kelayakan Investasi untuk Ekowisata di Taman Nasional Perairan Laut Sawu/*Investment Feasibility Study for Ecotourism in Sawu Marine National Park***
- ❖ **Kajian Gender/*Gender Studies***

Detail program dapat diakses di Program Research CTSS



