IPB University
Bogor Indonesia

SUSTAINABLE DEVELOPMENT GOALS

Supplementary

Sustainability Report 2020

SDG 14:

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

IPB University
Bogor Indonesia

SUSTAINABLE DEVELOPMENT GOALS

Learning Program

1 Legalisasi Cantrang Perlu Kebijakan Berbasiskan Data dan Informasi

Tuesday, June 16 th 2020

The policy of banning cantrang began in 2015 through the Ministerial KP Regulation No 2 Permen KP/ 2015 which was later replaced by Permen KP No 71 Permen KP/ 2016 The prohibition policy has generated opposition, not only from cantrang business actors, but also from other fishery business actors Prof Dr Ari Purbayanto a lecturer at IPB University who is a Professor at the PSP Department spoke about the Technical Aspects and Behavior of Fish in Cantrang Operation Prof Ary reminded about the need to apply cantrang fishing gear according to Indonesian national standards

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http://psp.fpik.ipb.ac.id/index.php/id/2020/06/16/legalisasi cantrang perlu kebijakan berbasiskan data dan informasi/

2 Forum Jejaring Unit Pembenihan

June 15-18th 2020
The Department of Aquaculture, FPIK-IPB participated as a resource person in the 'National Fish Hatchery Unit Network' event coordinated by the Directorate of Germination, Directorate General of Aquaculture, Ministry of Marine Affairs and Fisheries. This meeting aims to prepare a draft Decree of the Minister of Marine Affairs and Fisheries related to national fish hatchery nets, and to coordinate with the marine and fisheries services in the provinces and districts/cities. The event was attended by 15 Heads of Technical Implementation Units within the scope of DJPB, 34 heads of provincial offices or their representatives, and representatives of Regency/City KP offices. The event was held on 15-18 June 2021 with Prof. Dr. Alimuddin, teaching staff of the Department of Aquaculture, FPIK-IPB

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http://bdp.fpik.ipb.ac.id/?p=5487

3 Expert Training (Batch 29, 30 and 31)

Port Expert Training is a certified training program in collaboration between CCMRS IPB University and the Ministry of Transportation. The purpose of this training is to prepare port experts related to sustainable port development. The training curriculum is designed in a comprehensive and integrative manner, presenting Green Port Development and Management, Port Environmental Management, Waste Management, etc.

The training in 2020 was the Batch 30 and Batch 31, with 49 and 52 participants, respectively. The Batch 30 training started on July 13-24, 2020, and Batch 31 conducted on November 2-14, 2020.

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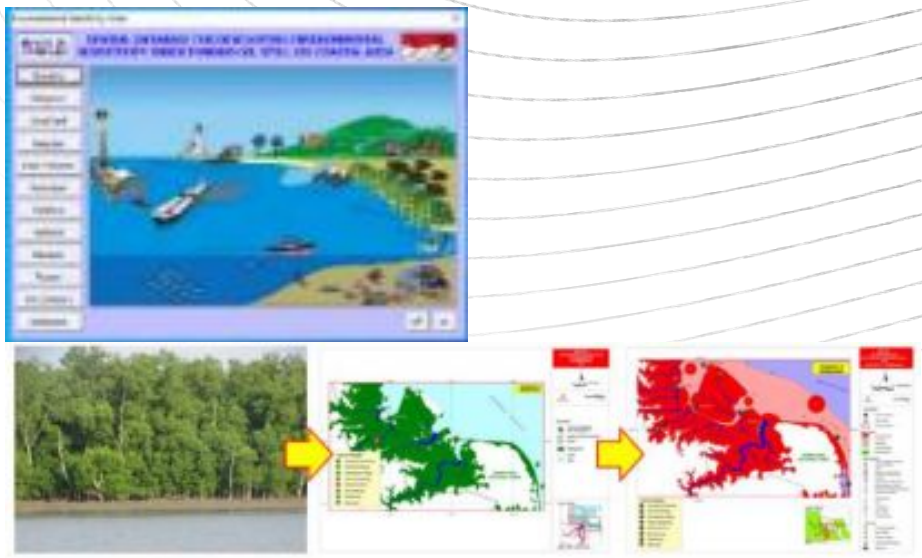
http://pkspl.ipb.ac.id/berita/detail/diklat-ahli-kepelabuhanan-angka
-31

4 Information Sharing: CCMRS IPB University Introduces Environmental Sensitivity Index (IKL) Assessment Algorithm to Public

Information Sharing is a knowledge-sharing activity and routine dissemination by the Center for Coastal and Marine Resources Studies (CCMRS) IPB University. The information-sharing event held on October 1, 2020, with the theme "Algorithm Programming Assessment of Environmental Sensitivity Index (IKL) in Coastal Areas: System tools design to accelerate the analysis process in developing IKL maps".

This Algorithm Programming Assessment is helpful to support the planning of pollution (oil spills) prevention and control strategies in coastal areas, primarily to determine the priority of protected areas to minimize damage.

The information-sharing activity was attended by more than 100 participants from various institutions/agencies such as Government Elements (Relevant Ministries/Local Governments), NGOs, the private sector, universities and students.



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http://pkspl.ipb.ac.id/berita/detail/pkspl-ipb-university-kenalkan-algoritma-penilaian-ikl-pada-warga

5 Roadmap for National Lobster Development

A lecturer staff of the Department of Aquaculture, FFMS, IPB University, Dr Irzal Effendi contributes to the development of lobster aquaculture through the roadmap of national lobster development

Dr Irzal Effendi Tawarkan Roadmap Pengembangan Lobster Nasional

"Budidaya lobster di tanah air belum berkembang," ujar Dr Irzal Effendi, dosen IPB University dari Departemen Budidaya Perairan Fakultas Perikanan dan Ilmu Kelautan (BDP-FPIK) yang pernah meneliti agribisnis lobster pada tahun 1995 di Papua dan pembudidayaannya pada tahun 2004 dan 2018 di Nusa Tenggrara Barat.

Ia mengungkapkan bahwa belum berkembangnya budidaya lobster di tanah air ini berkaitan dengan masih adanya produksi lobster hasil penangkapan. Hal ini memunculkan ungkapan, buat apa bersusah payah budidaya lobster, sementara di alam masih tersedia. Oleh karenanya, usaha budidaya lobster belum kompetitif dibandingkan dengan penangkapan.

"Untuk mengembangkan budidaya lobster nasional yang berdaya saing dan berkelanjutan, perlu roadmap yang bisa menjadi acuan bagi pemerintah, pelaku usaha, peneliti dan masyarakat. Roadmap tersebut mencakup 12 langkah berupa program di level on farm dan off farm," tutur Ketua Program Studi Teknologi Produksi dan Manajemen Perikanan Budidaya Sekolah Vokasi, IPB University ini.

Dua belas langkah yang dimaksud adalah penentuan lokasi pengembangan, pendugaan stok lobster di alam, pengembagan teknologi dan manajemen pendederan dan pembesaran, pengembangan pembenihan (hatchery), pengembangan pasar dan agribisnis, pengembangan aspek legal, pengembangan sumber daya manusia dan kelembagaan, pengelolaan lingkungan perairaan, penerapan standarisasi dan sertifikasi, pelepasliaran, pengembangan fasilitas produksi serta pengembangan infrastruktur wilayah.

"Lokasi pengembangan budidaya harus sesuai berdasarkan pertimbangan biologis, ekologis dan bisnis serta dengan memperhatikan aspek sosial budaya, sehingga dicapai kelangsungan hidup, pertumbuhan dan produksi lobster yang maksimum serta efisiensi usaha yang tinggi. Pengkajian stok lobster berbagai stadia (ukuran) di alam harus dikerjakan guna memberi kepastian ketersediaan benih bagi usaha budidaya yang masih menggunakan benih alam. Hasil kajian ini juga bisa memberi informasi jumlah, ukuran, lokasi dan waktu (musim) benih yang boleh diambil dari alam secara lestari untuk keperluan input produksi budidaya," ujarnya

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https://republika.co.id/berita/ekonomi/pertanian/qjv17h374/pakar-ipb-tawarkan-roadmap-pengembangan-lobster-nasional

6 Pemeriksaan Penyakit pada Ikan

Fish pathogen screening, an extension service conducted technician that supervised by Dr Sri Nurhayati This extension service is under responsibility of Prof Dr Sukenda as Head of Fish Health laboratory

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https://www.youtube.com/watch?v=cUh6kR4WW9k

Seminar: Ecosystem Services and Marine Resources Valuation

Indonesia has a very high potential for aquatic ecosystems with the largest mega-biodiversity globally, both in freshwater, transitional, and marine ecosystems. This potential provides excellent ecosystem services for humans, so it is essential to know the extent of the ecosystem services and the value of existing resources (Fahrudin, 2020).

The economic calculation of ecosystem services can be carried out in six main stages: determining the area to be evaluated; identifying land use and delineating the area; identifying ecosystem functions and services; estimating the biophysical value of ecosystems; estimating the economic value of ecosystem services; estimating changes in the monetary value of ecosystem services. Marine resource valuation provides a clearer understanding of the role of marine resource economic valuation in assessing resource potential and calculating resource damage more precisely.

The Web Seminar on Ecosystem Services and Marine Resources Valuation conducted in a hybrid manner on April 19, 2020, and attended by around 100 participants from all over Indonesia.

The benefits obtained from this web seminar were providing awareness to policymakers and the public about the importance of the valuation of marine resources. The valuation may increase the value of ecosystem services produced by marine resources and, at the same time, assess losses in the event of damage.

http://pkspl.ipb.ac.id/berita/detail/webinar2-jasa ekosistem-dan-valuasi-sumberdaya-kelautan

Seminar: Coastal and Marine Pollutants

The Coastal and Marine Pollutant Web Seminar was conducted in a hybrid manner on May 15, 2020, and attended by around 60 participants discussing pollution problems on the coast and sea in Indonesia. This web seminar tried to provide a broader understanding of pollution, its sources, and the impacts of pollution and pollution in coastal and marine areas.

The main speakers of the web seminar are Prof. Dr. Agung Dhamar Syakti (Rector of Raja Ali Haji Maritime University-Riau Islands) and Dr. Ario Damar (Head of CCMRS IPB University) with Dr. Ruddy Suwandi (Secretary of CCMRS IPB University) as moderator.

http://pkspl.ipb.ac.id/berita/detail/webinar1-angkat-isu-coastal-and-marine-pollutan

9 Discussion: Implementation of ICM into West Papua Provincial RZWP3K

Indonesia Climate Change Trust Fund (ICCTF), BAPPENAS, COREMAP-CTI, the Ministry of Marine and Fisheries, and the Regional Government of West Papua Province conduct the focused discussion on the Implementation of Integrated Coastal Management (ICM) into West Papua Provincial RZWP3K. The event was conducted in the Integrated Coastal Management (ICM) Leader Forum and addressed regional leaders formulating policies to accelerate RZWP3K implementation and fisheries management in West Papua.

This discussion was held on November 23, 2020, in Manokwari Regency, which brought four main speakers: Dr. Tonny Wagey (Executive Director of ICCTF), Setyawati (Head of Fisheries Sub Directorate, The Directorate of Marine and Fisheries of BAPPENAS), Dr. Hendra Yusran Siri (Secretary of Marine Spatial Management Directorate General, Ministry of Marine and Fisheries), Dr. Fery Kurniawan (Director of Integrated Coastal Management Project CCMRS IPB University), moderated by Dr. Ario Damar (Head of CCMRS IPB University).

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http://pkspl.ipb.ac.id/berita/detail/webinar1-angkat-isu-coastal-and-marine-pollutan

11 Webinar with topic “Fishery Supply Chain during the Covid-19 Pandemic”

Webinar with topic “Fishery Supply Chain during the Covid-19 Pandemic” discuss the following issues on:
- Reducing the problems of the fishery supply chain during a pandemic
- Digital strategy in overcoming fishery supply chain problems

Key message:
“Looking critically after the ratification of Law No. 11 of 2020 concerning job creation at the marine and fisheries sector” discuss about: - Aquaculture policy
- Coastal and small island management policy - Capture fisheries policy
- Logistic system and marketing in fishery industry

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sustainability.ipb.ac.id ipbofficial

12 Webinar with topic “Looking critically after the ratification of Law No. 11 of 2020 concerning job creation at the marine and fisheries sector”

Tuesday, Nov 10th 2020,
Webinar with topic “Looking critically after the ratification of Law No. 11 of 2020 concerning job creation at the marine and fisheries sector” discuss about:
- Aquaculture policy
- Coastal and small island management policy
- Capture fisheries policy
- Logistic system and marketing in fishery industry

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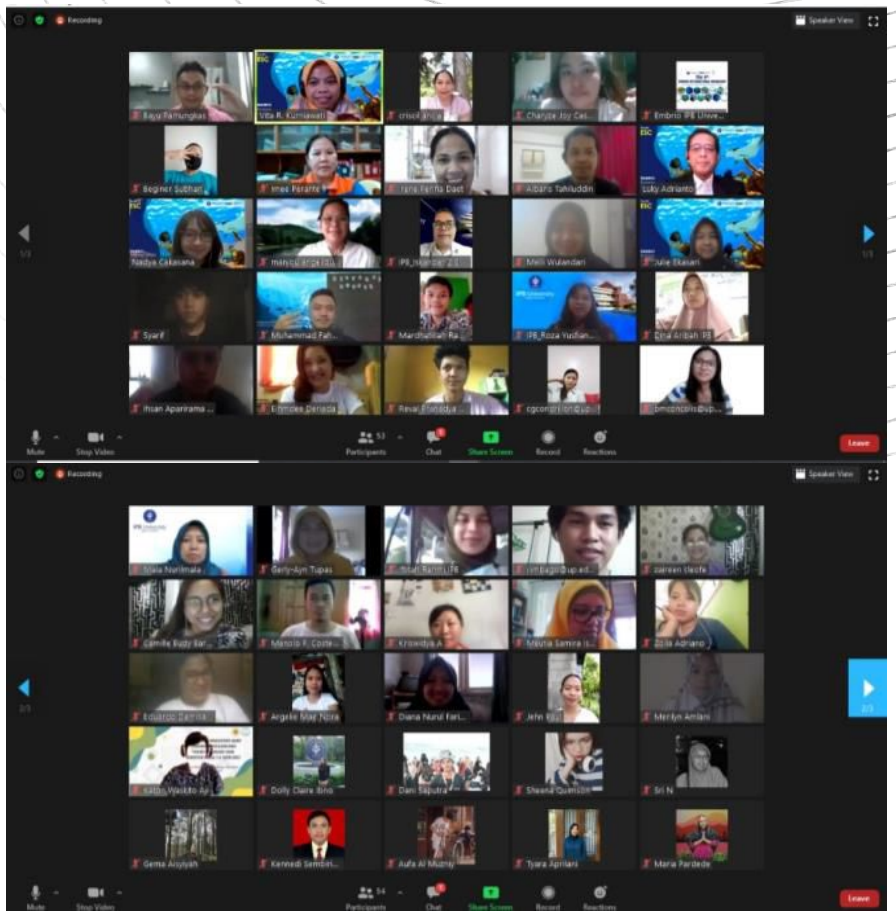
13 EMBRIO Summer Course 2020

EMBRIO (Enhancing Marine Biodiversity Research in Indonesia) FPIK-IPB University conducted EMBRIO Summer Course (ESC). This event was organized virtually via Zoom Cloud Meeting on September 14th to October 5th, 2020.

The ESC topic was “Tropical Aquatic Biodiversity”, was attended by 56 participants from Indonesia, Malaysia, Turkey, dan Philippine. This event was chaired by Dr Ichsan Ahmad Fauzi with full support from EMBRIO FPIK-IPB University team.



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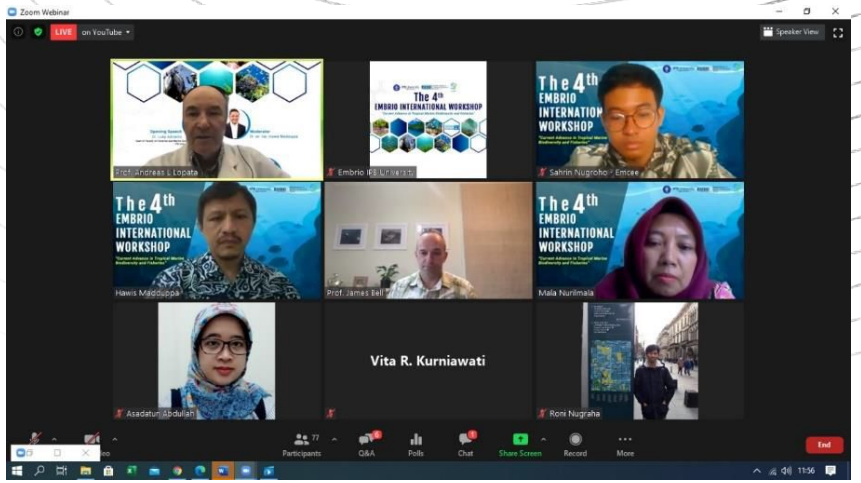
Website : http://esc-embrio.ipb.ac.id/

14 EMBRIO International Workshop 2020

One of events organized by EMBRIO (Enhancing Marine Biodiversity Research in Indonesia) FPIK-IPB University was The 4th EMBRIO International Workshop (The 4th EIW). The EIW topic was “Current Advance in Tropical Marine Biodiversity and Fisheries”. In 2020, EIW was conducted virtually through Zoom Cloud Meeting.

The 4th EIW was carried out in 10th September 2020 and attended by 32 participants from Indonesia, Philippine, China and Australia. This event consisted of webinar, oral presentation, and coaching sessions. Three speakers were invited in the webinar session, namely Professor Andreas L Lopata (James Cook University), Professor James Bell (Victoria University of Wellington) and Dr Mala Nurilmala (IPB University).



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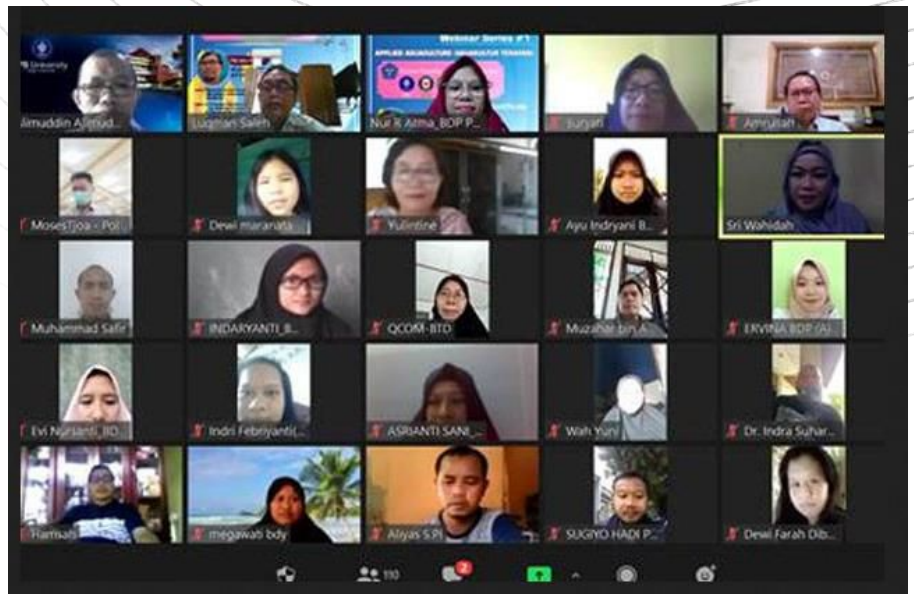
http://eiw-embrio.ipb.ac.id/

15 Webinar Virus dan Vaksin Perikanan

Saturday, Oct 10th 2020
#1st WEBINAR SERIES. The theme for this first series of Applied Aquaculture Webinar was “Vaccines in Aquaculture”. This event was held by Politani Pangkep in collaboration with IPB University, UHO (University of Halouleo Kendari), UNRI (University of Riau), UNTAD (University of Tadulako Palu), and MMAF (Ministry of Marine Affairs and Fisheries). The webinar presented two experts in the field of Aquaculture, namely Alimuddin and Sri Nuryati from the Department of aquaculture, FFMS, IPB University.



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Website :http://bdp.fpik.ipb.ac.id/?p=5487

16 World of Exotic Fish and Aquascape (WEFA)

June 15-18th 2021 As a part of the implementation of Merdeka Belajar Kampus Merdeka (MBKM) program, the Department of Aquaculture, FFMS, IPB University held the World of Exotic Fish and Aquascape (WEFA), with a theme of “The Beauty of Underwater in Artificial Nature”. This event was held online in collaboration with Aquascape IPB Community (AIC) and attended by 280 students

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http://dikti.go.id/kabar-dikti/kampus-kita/implementasi-merdeka-belajar-kampus-merdeka-di-ipb-university-mahasiswa-diajak-bahas-aquascape-dan-marinescape/

17 Kuliah Tamu Program Studi Akuakultur

Prof Dr M Zairin Junior as guest lecturer at Malikussaleh University giving lecturer on Aquaculture 4 0 Technological Development

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https://news.unimal.ac.id/index/single/1714/ini tantangan industri akuakultur yang berkelanjutan

18 Marikultur Cerdas K1000: Aplikasi Monitoring Aktivitas Budidaya Ikan Kerapu dalam Meningkatkan Produktivitas Hasil Panen Kelompok Pembudidaya di Kepulauan Seribu

Kepulauan Seribu, DKI Jakarta

Deskripsi

Gugusan Kepulauan Seribu memiliki potensi yang tidak kecil untuk pengembangan berbagai macam industri, antara lain pertambangan, pariwisata serta yang paling utama adalah perikanan. Pemberdayaan di bidang perikanan untuk membantu menyejahterakan para pembudidaya ikan. Budidaya perikanan juga memiliki beberapa kendala, seperti aktivitas produksi yang tidak tercatat dengan baik sehingga berpengaruh pada hasil produksi budidaya yang tidak optimal. Sesuai dengan tujuan dari sustainable development goals (SDG) yaitu mengonversi dan memanfaatkan secara berkelanjutan sumber daya laut dan maritim untuk pembangunan yang berkelanjutan, maka dibuatlah suatu aplikasi yang disebut dengan Marikultur Cerdas.

Proses Implementasi

Sejak September 2019, tim pengembang Marikultur Cerdas berkunjung ke Kepulauan Seribu untuk bertemu dengan ketua dan bendahara kelompok Sea Farming, yaitu Bapak Nawawi dan Bapak Lakardi. Kunjungan dilaksanakan untuk melakukan wawancara kepada pembudidaya serta melihat proses bisnis yang berlangsung selama aktivitas budidaya. Berdasarkan feedback yang didapatkan, tim pengembang mulai membangun aplikasi berbasis web responsif dengan kerangka kerja Laravel dan Vue js, serta menggunakan MySQL sebagai basis data. Untuk IoT menggunakan protokol jaringan IoT MQTT dan broker menggunakan AWS educate IoT core. Aplikasi akan memiliki fitur Melihat kondisi lingkungan di sekitar keramba jaring apung (KJA) dengan sensor, lalu monitoring aktivitas produksi, dan mencatat aktivitas produksi.

Aplikasi ini dikembangkan oleh Tim dari Mahasiswa dan dosen Departemen Ilmu Komputer. Dr. Irman Hermadi, S.Kom, MS, Auzi Asfarian, S.Komp, M.Kom dan Afriyadi Yanuar Rahmadani adalah tim yang menggembangkan aplikasi ini.

19 6th Voice for Fisheries : Keberlanjutan Perikanan Lobster Skala Kecil

Saturday, July 25 th 2020

In a discussion held by the Faculty of Fisheries and Marine Sciences (IPB on the issue of small scale lobster fisheries, Prof Sulistiono said an important point in regulating lobster management activities was starting from data on production that had increased and the economic value increased However, there are a few things to pay attention to

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https://sumsel.antaranews.com/nasional/berita/1649250/pakar dari ipb bahas aspek penting perikanan lobster skala kecil

7th Voice for Fisheries : Keberlanjutan Industri Sidat di Indonesia

August8 th 2020

“Fishery commodities in Indonesia have great potential One of them is eel whose seed supply can be obtained from nature Eel is a potential exporter of aquaculture processing commodities However, the eel industry has not developed optimally,” said Dr Ronny Irawan Wahju a lecturer at IPB University from the Department of Fisheries Resources Utilization (of the Faculty of Fisheries and Marine Sciences (FPIK)

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https://kumparan.com/news release ipb/pakar ipb indonesia baru bisa penuhi tak lebih dari 2 permintaan sidat jepang 1tyZ3nUP6g2/full

21

Membangun SDM Kompeten & Berdaya Saing Industri Perikanan Sertifikasi Kompetesi

August 29 th 2020

The urgency of the webinar, according to the Secretary of the PSP Department, Dr Iin Solihin is how the competence of Indonesian human resources for the fishing industry can compete with foreign workers both regionally and internationally The certification carried out by the Ministry of Maritime Affairs and Fisheries is not only a paper, but also as a support so that Indonesian human resources can be competitive and can be used as competency standards

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https://kumparan.com/news release ipb/membangun sdm kompeten and berdaya saing industri perikanan sertifikasi kompetesi 1u7VSOBJ3FC/full

22 The discussion on “Strengthening Indonesian Fisheries Management Institutions”

The discussion on “Strengthening Indonesian Fisheries Management Institutions” discussed about the strategic policies in Indonesian fisheries business affairs, from inland to high seas, which still need affirmation to complement sustainable fisheries in the future. Moreover, the fisheries business area is complex and wide, both in terms of ecology and boundaries.

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Instagram: @fpik_ipb

23 THE 1 ST VOICE FOR FISHERIES

May 9 th 2020

The webinar was organized by the Sustainable Fishing Community of Fisheries Resources Utilization Department The material for the webinar consists of the condition of shark fisheries, conservation efforts, and research opportunities, as well as shark fisheries conservation management and policies

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http://psp.fpik.ipb.ac.id/index.php/id/2020/06/16/the 1st voice for fisheries

24 2ND VOICE FOR FISHERIES INDUSTRI PERIKANAN TUNA INDONESIA DI MASA PANDEMI COVID 19

May 16 th 2020

The Covid 19 pandemic has had a considerable impact on all aspects of life, and the impact on fishery activities, especially tuna fisheries, is an export commodity The PSP Department invites government officials and business actors to discuss Tuna Fishery, what are the impacts and challenges during this pandemic

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https://www.instagram.com/p/CAFgzPvAH5P/

25 DOSEN MENGABDI IPB UNIVERSITY KENALKAN ATRAKTOR CUMI CUMI PADA NELAYAN TEGAL

August 28 th 2020

Prof Mulyono Baskoro Professor of IPB University from the Department of Fisheries Resources Utilization (Faculty of Fisheries and Marine Sciences (was present to virtually explain how the squid attractor works Squid attractor is one of the appropriate technologies that can be developed to increase the carrying capacity of squid resources and at the same time is a means of developing integrated coastal areas The application of squid attractor is intended to enrich squid resources in an aquatic area Squid attractor technology can be used as a means of enriching squid resources naturally, and at the same time increasing the efficiency of capture fisheries, as well as developing alternative livelihoods for coastal communities

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https://ipb.ac.id/news/index/2020/09/dosen-mengabdi ipb university kenalkan atraktor cumi cumi pada nelayan tegal/08d633a5a2a2d18812908013b32c2ca4

26 3th Voice for Fisheries : Diskusi Strategi Pelabuhan Perikanan Tangkap di Masa Pandemi

Saturday, June 13 th 2020

During the COVID 19 pandemic, fishing ports face various challenges, both in terms of catching and post harvest activities as well as supply demand activities This pandemic period affects stakeholders such as fishermen, entrepreneurs and consumers so a strategy is needed to deal with it

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http://psp.fpik.ipb.ac.id/index.php/id/2020/06/16/diskusi-strategi=pelabuhan perikanan tangkap di masa pandemi

27 4th Voice for Fisheries SETNET Teknologi Penangkapan Ikan Masa Depan Ramah Lingkungan

Saturday, June 27 th 2020

This webinar was held through the zoom application and was attended by 500 participants from Sabang to Merauke and a set net expert from Tokyo University of Marine Science Technology, Prof. Takafumi Arimoto and Dr. Yoshio. Present were Prof. Dr. Ir Rokhmin Dahuri , expert staff from the Ministry of Maritime Affairs and Fisheries as keynote speakers, Prof. Dr. Ir Sudirman MP, chairman of the research council and head of the fishing technology lab at PSP Unhas , Dr. Ir Besweni representing the Director General of Capture Fisheries at KKP, Ir Zarochman MPi , the main engineer of capture fisheries. Semarang Fishing Center as a panel speaker and Prof. Dr. Ir Mulyono S Baskoro MSc Head of the Division of Fishing Technology Department of PSP FPIK IPB University as the discussants.

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URL :
https://republika.co.id/berita/qckzqm374/perikanan setnet solusi tingkatkan kesejahteraan nelayan

28 5th Voice for Fisheries Certification of Fisheries Products is Important for Managing Population and Stock of Fish

July 10 th 2020

Fisheries Product Certification is one of the eco label standards used in the fishing industry The application of this certification is used so that the business practices carried out do not damage the environment The application of Ecolabel was born from the concern of various parties with environmental issues who want the implementation of fisheries based on sustainability Accordingto Dr Abdul Halim the main fisheries certification is to regulate fish population and stock, capture strategy and use of fishing gear This is to minimize the environmental impact and to protect marine habitats Fishing operations need to be managed to maintain the structure, productivity and diversity of the ecosystem

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https://ipb.ac.id/news/index/2020/07/sertifikasi produk perikanan tangkap penting untuk mengatur populasi dan stok ikan/377ddd773f1396f4824e2da8b7453519

29 Kuliah Tamu Program Studi Akuakultur

Prof Dr M Zairin Junior as guest lecturer at Malikussaleh University giving lecturer on Aquaculture 4 0 Technological Development

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https://news.unimal.ac.id/index/single/1714/ini tantangan industri akuakultur yang berkelanjutan

30 International Webinar “Environmentally Friendly Technology in Aquaculture” – 2nd Session

21 Oktober 2020

Dr. Julie Ekasari berpartisipasi sebagai Narasumber pada acara International Webinar dengan tema : Biofloc Technology as an Integral Approach to Sustainable Aquaculture” yang diselenggarakan oleh Universitas Brawijaya

Dr. Julie Ekasari as speaker in the International Webinar: Biofloc Technology as an Integral Approach to Sustainable Aquaculture”. The event was organized by Brawijaya University

International Webinar "Environmentally Friendly Technology in Aquaculture" - 2nd Session

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https://www.youtube.com/watch?v=Eb3_nq9w9Qs

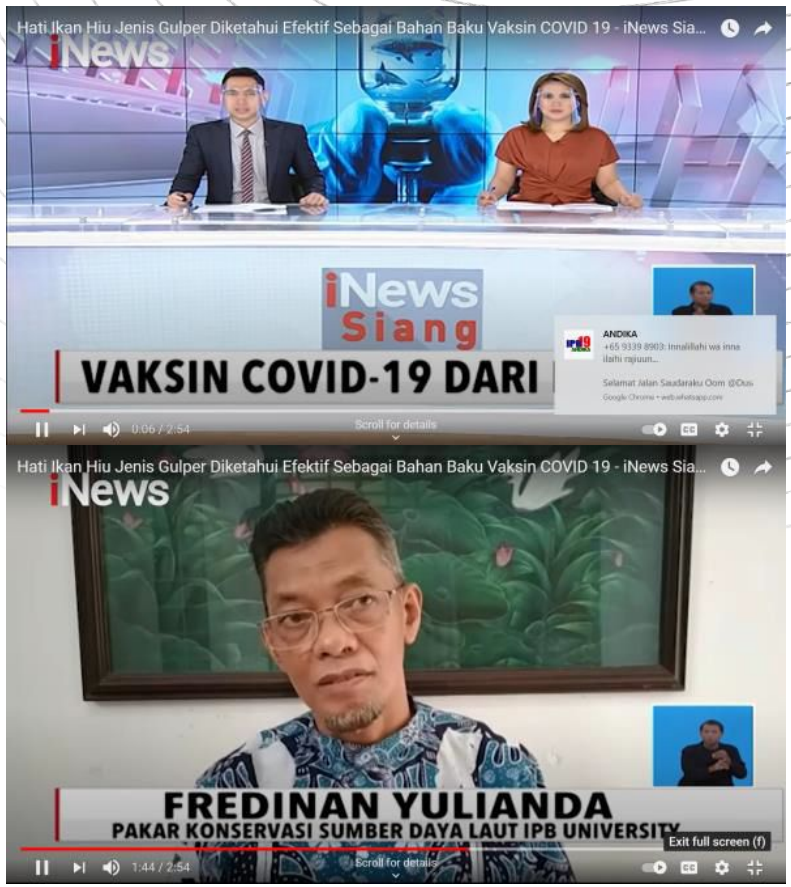
31 Upaya Konservasi Dari Eksploitasi Hati Ikan Hiu Sebagai Bahan Baku Vaksin Covid-19

Saturday, Nov 14th 2020

Dr. Ir. Fredinan Yulianda, M.Sc. seorang pakar konservasi sumberdaya laut IPB University diwawancarai oleh iNews terkait bahan baku vaksin COVID 19 dari hati ikan hiu. Kebutuhan bahan baku hati ikan hiu untuk pembuatan vaksin COVID 19 menyebabkan populasi ikan hiu mulai terancam. Upaya untuk menjelaskan kepada publik bahwa populasi ikan hiu di alam mulai berkurang dan sangat terancam bilai dilakukan eksploitasi dan pemanfaatan hati ikan hiu. Sehingga perlu dilakukan upaya konservasi ikan hiu untuk mencegah eksploitasi besar-besaran, serta mengoptimalkan upaya konservasi populasi ikan hiu.

Saturday, Nov 14th 2020

Dr. Ir. Fredinan Yulianda, M.Sc. an expert on marine resource conservation at IPB University was interviewed by iNews regarding the raw material for the COVID-19 vaccine from shark liver. The need for raw material for shark liver for the manufacture of the COVID-19 vaccine has caused the shark population to be threatened. Efforts are needed to explain to the public that the shark population in nature is starting to decrease and is very threatened if the exploitation and utilization of shark liver is carried out. It is necessary to iniatiate shark conservation efforts to prevent massive exploitation, as well as optimize efforts to conserve shark populations.



https://youtu.be/5f-56bqhH5I

32 H2O Webinar: Ekologi dan Konservasi Ekosistem Padang Lamun "Tantangan Pembangunan Ekonomi di Wilayah Pesisir"

Selasa, 22 September 2020

H_2O webinar diselenggarakan online melalui Zoom Meeting, dengan topik Ekobiologi dan Konservasi Ekosistem Padang Lamun, menghadirkan narasumber dari Dept. MSP-IPB, Universitas Hasanudin, dan LIPI. Webinar membahas tentang keberadaan lamun yang tidak memiliki nilai ekonomi langsung sehingga sering tidak prioritas untuk dijaga keberadaannya. Namun demikian, ekosistem lamun memiliki fungsi ekologi penting dalam sistem ekologi pesisir yang berpotensi memiliki valuasi sumberdaya yang tinggi. Kerusakan dan degradasi lamun akan menimbulkan permasalahan ekologi dan lingkungan yang berujung kepada penurunan fungsi ekonomi juga. Upaya konservasi menjadi sangat penting untuk menyelamat dan mencegah degradasi ekosistem lamun di Indonesia.

Tuesday, Sept 22nd 2020

The H2O webinar was held online through Zoom Meeting, with the topic of Ecobiology and Conservation of the Seagrass Ecosystem, presenting speakers from the Dept. MSP-IPB, Hasanudin University, and LIPI. The webinar discussed the existence of seagrasses that have no direct economic values, which often not become a priority to maintain their existence. However, seagrass ecosystems have important ecological functions in coastal ecological systems that have the potential to have high resource valuations. Damage and degradation of seagrass will cause ecological and environmental problems that lead to a decrease in economic function as well. Conservation efforts are very important to save and prevent the degradation of seagrass ecosystems in Indonesia.

https://youtu.be/vC8fTYDYDhI

33 International Symposium 1st International Horseshoe Crab Day 2020

Jumat, 19 Juni 2020

Dalam rangka memperingati Hari Kepiting Tapal Kuda pada 20 Juni yang ditetapkan oleh The International Union for Conservation of Nature (IUCN), Departemen Manajemen Sumberdaya Perairan (MSP), FPIK-IPB menggelar Symposium Internasional menghadirkan pakar dari berbagai negara. Studi mengenai distribusi dan populasi terkini Kepiting Tapal Kuda sedang menjadi sorotan di kalangan akademisi. Kegiatan ini sebagai bentuk upaya menjaga Kepiting Tapal Kuda di seluruh dunia.

Friday, June 19th 2020

In commemoration of Horseshoe Crab Day on June 20, which was established by The International Union for Conservation of Nature (IUCN), the Department of Aquatic Resources Management (MSP), FPIK-IPB held an International Symposium inviting experts from various countries. The study of the current distribution and population:of the Horseshoe Crab is currently in the spotlight in academic circles. This activity is a form of effort to protect Horseshoe Crab around the world.

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http://msp.fpik.ipb.ac.id/

34 SESO LAB WEBINAR SERIES “KERENTANAN PERIKANAN SKALA KECIL DALAM MASA PANDEMI COVID-19”

Thursday, 21 Mei 2020

Social-Ecology System of the Oceans (SESO) Lab dengan SES *Approach* pada Divisi Manajemen Sumberdaya Perikanan, Dept. MSP-FPIK IPB penting dalam pengelolaan pesisir dan pulau-pulau kecil karena akan memperkuat sains pengelolaan pesisir dan pulau kecil secara terpadu. SESO Lab mengadakan webinar dengan topik Kerentanan Perikanan Skala Kecil Dalam Masa Pandemi Covid-19: Sebuah Analisis Sosial-Ecological System, menghadirkan berbagai pakar.

Social-Ecology System of the Oceans (SESO) Lab with SES Approach in Division of Fisheries Resource Management, Dept. MSP-FPIK IPB is important in the management of coastal and small islands because it will strengthen the science of integrated coastal and small island management. SESO Lab held a webinar with the topic of Small-Scale Fishery Vulnerability During the Covid-19 Pandemic:

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35 International Symposium on Aquatic Resources Management, H20 Highland to Ocean

16-17 November 2020

Simposium ini diselenggarakan oleh Departemen Manajemen Sumber Daya Perairan, Fakultas Perikanan dan Ilmu Kelautan, IPB University, bertujuan untuk mengkatalisasi penelitian dan pertukaran ide di antara peneliti, akademisi, praktisi, mahasiswa, dan pembuat kebijakan dari seluruh dunia, serta menjalin hubungan akademik di aspek biologi, ekologi, dan pengelolaan sumber daya perairan. Ini akan memberikan kesempatan untuk berbagi pengalaman dan informasi mengenai penelitian dan pengembangan pengelolaan sumber daya perairan dari hulu hingga hilir.

November 16-17th 2020

The symposium was hosted by Department of Aquatic Resources Management, Faculty of Fisheries and Marine Sciences, IPB University, aiming to catalyze research and exchange ideas among researchers, academics, practitioners, students, and policy makers from around the world, and establish academic relationships in biology, ecology, and aquatic resources management aspects. It will provide opportunities for sharing experiences and information concerning research and development of aquatic resources management from upstream to downstream.

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45 MARITIME TALK 2020 SPECIAL SERIES KERJASAMA DENGAN CONSERVATION INTERNATIONAL

27 Juli 2020

Salah satu seri spesial dari Maritime Talk Departemen ITK kerjasama dengan Conservation International dengan topik Blue Carbon dan Pengelolaan Ekosistem Pesisir untuk Mengurangi Dampak Perubahan Iklim Webinar ini dihadiri lebih dari 500 orang dan dikoordinir oleh Prof. Dr. Ir Dietrich G. Bengen, DEA

Peserta yang hadir dari pemerintahan akademisi dan umum Menghadirkan narasumber dari Kementerian Maritim dan Investasi Dr Safri Burhanuddin Deputi Bidang Koordinasi Sumberdaya dan Victor Nikijuluw Ph.D (Senior Director Marine Program CI)

July 27 th 2020

One of the special series from the Maritime Talk Department of ITK in collaboration with Conservation International with the topic of Blue Carbon and Coastal Ecosystem Management to Reduce the Impact of Climate Change This webinar was attended by more than 500 people and coordinated by Prof. Dr. Ir. Dietrich G. Bengen DEA

Participants who attended were from government, academia and the general public Presenting resource persons from the Ministry of Maritime Affairs and Investment, Dr Safri Burhanuddin (Deputy for Coordination of Resources) and Victor Nikijuluw Ph.D (Senior Director of Marine Program CI)

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http://itk.fpik.ipb.ac.id/

46 The Ocean Voice Special Edition kerjasama dengan Econusa Foundation

5 Juni 2020

Salah satu seri spesial dari The Ocean Voice Departemen ITK kerjasama dengan Econusa Foundation dengan topik Ocean Threats and Issue, webinar dengan pembicara lintas negara (Indonesia, Malaysia, Thailand). Webinar ini dihadiri lebih dari 300 orang dari 11 negara berbeda (Inggris, Iran, Perancis, Jepang, Malaysia, India, New Zealand, Polandia Korea Selatan, China dan Indonesia) dikoordinir oleh Dr Ir Agus S Atmadipoera DESS

Peserta yang hadir dari pemerintahan akademisi dan umum. Menghadirkan narasumber dari Suchana Apple, Ph.D (Thailand) Ong Meng Chuan Ph.D (Malaysia) Dr Jonson L Gaol (Indonesia), Bustar Maitar (Econusa) dan Kirana Kejora (Aktivis) dan sebagai keynote speaker Alan F Koropitan Ph.D (Tenaga Ahli Kantor Kepresidenan RI)

June 5 th 2020

One of the special series from The Ocean Voice ITK Department in collaboration with the Econusa Foundation with the topic Ocean Threats and Issues, webinars with speakers across countries (Indonesia, Malaysia, Thailand) This webinar was attended by more than 300 people from 11 different countries (UK, Iran, France, Japan, Malaysia, India, New Zealand, Poland, South Korea, China and Indonesia) coordinated by Dr Ir Agus S Atmadipoera DESS

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Participants who attended were from government, academia and the general public Presenting, speakers from Suchana Apple, Ph.D (Thailand) Ong Meng Chuan, Ph.D (Malaysia) Dr. Jonson L. Gaol (Indonesia) Bustar Maitar (Econusa) and Kirana Kejora (Activist) and as keynote speakers Alan F Koropitan Ph D (Experts from the Indonesian Presidential Office).

URL : https://www.instagram.com/p/CHMleJ3jRaK/

47 INTERNATIONAL MARINE VLOG COMPETITION

Agustus - Oktober 2020

Lomba kompetisi video blogging atau VLOG yang dilaksanakan oleh Departemen Ilmu dan Teknologi Kelautan pada tahun 2020 yang diikuti oleh 6 negara yaitu Indonesia, Malaysia, Korea Selatan, Perancis, China dan Polandia acara ini dikoordinir oleh Dr. Ir. Agus S. Atmadipoera, DESS dan yang menjadi juri adalah Ramadian Bachtiar, S.Pi, M.Si (NatGeo Contributor dari New Zealand)

Tema yang diangkat dalam kompetisi ini adalah isu isu lingkungan laut dan peserta adalah mahasiswa dari 5 negara

August - Oct 2020

The video blogging competition or VLOG held by the Department of Marine Science and Technology in 2020 which was participated by 6 countries namely Indonesia, Malaysia, South Korea, France, China and Poland Ir Agus S Atmadipoera DESS and the judges were Ramadian Bachtiar S Pi M Si NatGeo Contributor from New Zealand)

The theme of this competition is marine environmental issues and the participants are students from 5 countries

https://www.instagram.com/p/CGbnx39j2hG/

48 KISAH SELAM 2020

Mei - Juni 2020

Kegiatan rutin bulanan yang dilaksanakan oleh Departemen Ilmu dan Teknologi Kelautan dengan mengundang narasumber dari pemerhati kelautan terutama penyelam penyelam profesional yang berada di Indonesia Acara ini dikoordinir oleh Dr. Beginer Subhan, S.Pi, M.Si

Acara ini mengangkat tema menyingkap daerah daerah penyelaman baru dan pariwisata laut yang akan menjadi kekuatan ekonomi baru dan magnet dari sumberdaya laut Indonesia. Total viewer acara ini sampai saat ini lebih dari 500 orang setiap episodenya dan saat ini sebagai salah satu acara referensi di dunia selam Indonesia.

May - June 2020

Monthly routine activities carried out by the Department of Marine Science and Technology by inviting resource persons from marine observers, especially professional divers in Indonesia. This event was coordinated by Dr Beginer Subhan, S Pi M Si.

This event has the theme of uncovering new diving areas and marine tourism that will become a new economic power and magnet for Indonesia's marine resources

The total viewer of this show to date is more than 500 people per episode and is currently one of the reference shows in the Indonesian diving world.

https://www.instagram.com/p/CBP7Ao9jwzd/

49 The Ocean Voice: Laut Berkelanjutan Masa Depan Kita

June 5 th 2020

Dr. Alan explained about sustainability, of which approach can be through various aspects, namely the connection between the environment, humans and social relationships Environmentally, Indonesia's maritime potential has enormous potential, it's just that this potential will only become potential if it is not empowered optimally One of the world's ocean biodiversity is in Indonesia (as a country composed of islands) The implication is that we have a comparative advantage that other nations don't have, so we need to develop the science of biodiversity optimally.

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50 SHARK AND RAYS CONSERVATION

11 Juli 2020

Departemen ITK FPIK IPB University berkolaborasi dengan HAITEK, HIMITEKA, CI Indonesia dan Sawfish Project Indonesia mengadakan kolaborasi Riset dan Konservasi Hiu dan Pari di Indonesia"

July 11 th 2020

The ITK Department of FPIK IPB University collaborates with HAITEK, HIMITEKA, CI Indonesia and Sawfish Project Indonesia to hold a collaboration on Research and Conservation of Sharks and Rays in Indonesia"

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https://www.instagram.com/p/B7aZPIoJIEG/

51 PELATIHAN DARING SERI 1: “TEKNIK TEKNIK ANALISIS PENGELOLAAN PERIKANAN TANGKAP”

Series (May 18 20 th 2020 dan Series II (June 2 4 th 2020

The training materials included input output control analysis techniques, supply chain management systems, traceability, balanced scorecard, analytical hierarchy process, and interpretative structural modeling The training participants were graduate students from capture fisheries study programs, alumni who work in the field of capture fisheries, academics, researchers from\ various institutions in Indonesia, and public The first training series was attended by 50 participants

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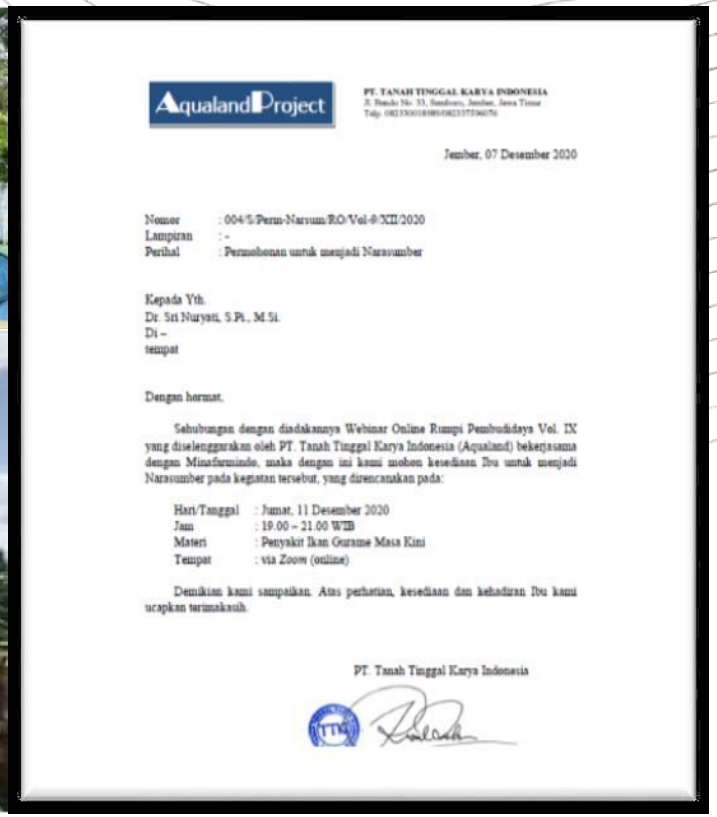
http://psp.fpik.ipb.ac.id/index.php/id/2020/05/28/pelatihan daring seri 1 teknik teknik analisis pengelolaan perikanan tangkap/

52 Webinar Online Rumpi Pembudidaya Vol. IX (PT. Tanah Tinggal Karya Indonesia)

Dr Sri Nuryati contributing as speaker on Webminar Online Rumpi Pembudidaya organized by PT Tanah Tinggal Karya Indonesia onl 11 Desember 2020



Aqualand Project

PT. TANAH TINGGAL KARYA INDONESIA

Jember, 07 Desember 2020

Nomor : 004/S/Perm-Narsum/RO/Vol-9/XII/2020
Lampiran : -
Perihal : Permohonan untuk menjadi Narasumber

Kepada Yth.
Dr. Sri Nuryati, S.Pi., M.Si.
Di –
tempat

Dengan hormat,

Sehubungan dengan diadakannya Webinar Online Rumpi Pembudidaya Vol. IX yang diselenggarakan oleh PT. Tanah Tinggal Karya Indonesia (Aqualand) bekerjasama dengan Minafurninde, maka dengan ini kami mohon kesediaan Ibu untuk menjadi Narasumber pada kegiatan tersebut, yang direncanakan pada:

Hari/Tanggal : Jumat, 11 Desember 2020
Jam : 19.00 – 21.00 WIB
Materi : Penyakit Ikan Gurame Masa Kini
Tempat : via Zoom (online)

Demikian kami sampaikan. Atas perhatian, kesediaan dan kehadiran Ibu kami ucapkan terimakasih.

PT. Tanah Tinggal Karya Indonesia

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Website :
https://drive.google.com/file/d/14xmDbqVi7sS8QIbx0Teuydf4 kAOXL6M/view?usp=sharing

IPB University
Bogor Indonesia

SUSTAINABLE DEVELOPMENT GOALS

Student Activities

53 AQUAFEST: Aquaculture Festival 2020

September 26th – October 18th 2020

• Aquafest 2020 is the largest annual aquaculture festival in Indonesia. Due to Covid-19 pandemic starting on 2020, this festival was held virtually by the Aquaculture Student Association (Himakua)-Department of Aquaculture FPIK, IPB University.

• There were two main activities in Aquafest 2020, namely e-conference and competitions. E-conferences took the form of virtual seminars and workshops, while the competitions included contests of infographic, videographics, and video photo.

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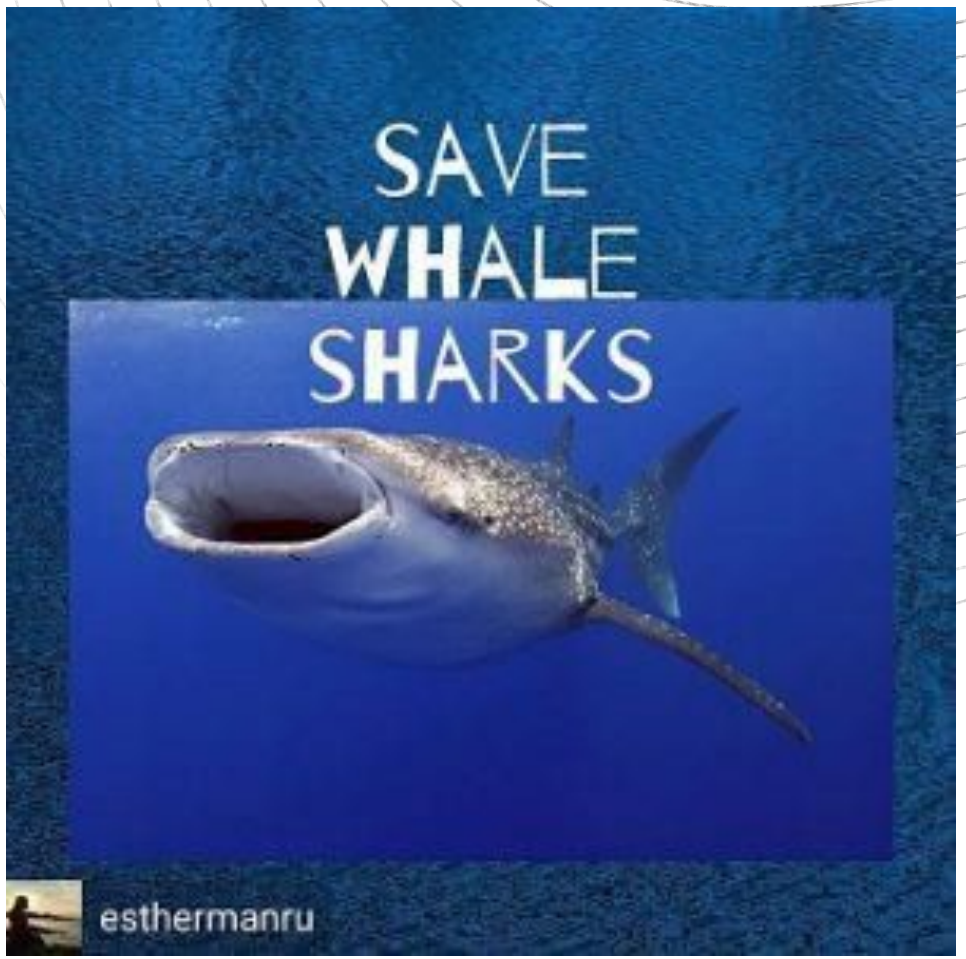
http://bdp.fpik.ipb.ac.id/?p=5487

54 MARINE CAMPAIGN



Mei 2020

Sustainable Development Goal (SDG) 14 : life below water merupakan salah satu hal penting yang perlu diketahui dan diimplementasikan pencapaiannya Salah satu hal yang penting adalah pendidikan dan penyadartahuan tentang konservasi biota laut. Melalui kuliah dari mata kuliah Keanekaragaman Hayati Laut (Berbagai desain infografis yang dibuat mahasiswa ITK dipublikasikan di media sosial Instagram baik dalam bentu Feed maupun Instastory

May 2020

Sustainable Development Goal (SDG) 14 : life below water is one of the important things that needs to be known and implemented One of the important things is education and awareness about marine biota conservation, for example through lectures from the Marine Biodiversity course Various infographic designs made by students were published on social media of Instagram both in the form of Feeds and Instastory.

14 LIFE BELOW WATER

http://ipb.ac.id/news/index/2020/05/implementasisdg-14-tugas-kuliah-menjadi-media-kampanye-hewan-laut-dilindungi/c17bf357a5e13f97b1ea67c44e6789b2

55 PROGRAM KREATIVITAS MAHASISWA

- Kegiatan lomba nasional (yang diikuti oleh mahasiswa ITK Nadiyah Adelia, Bertha Citra Asih Br S dan Mochammad Adam Maulana
- Judul Hologram Interactive Edutaintment of Redlist Sea (HOLIE SEA) Wisata Bahari Futuristik Guna Mewujudkan Konservasi Berkelanjutan
- Pembimbing Dr Ir Sri Pujiyati M Si

- The national competition activity (which was participated by ITK students Nadiyah Adelia, Bertha Citra Asih Br S and Mochammad Adam Maulana
- Title Hologram Interactive Education of Redlist Sea (HOLIE SEA) Futuristic Marine Tourism to Realize Sustainable Conservation
- Supervisor Dr Ir Sri Pujiyati M Si

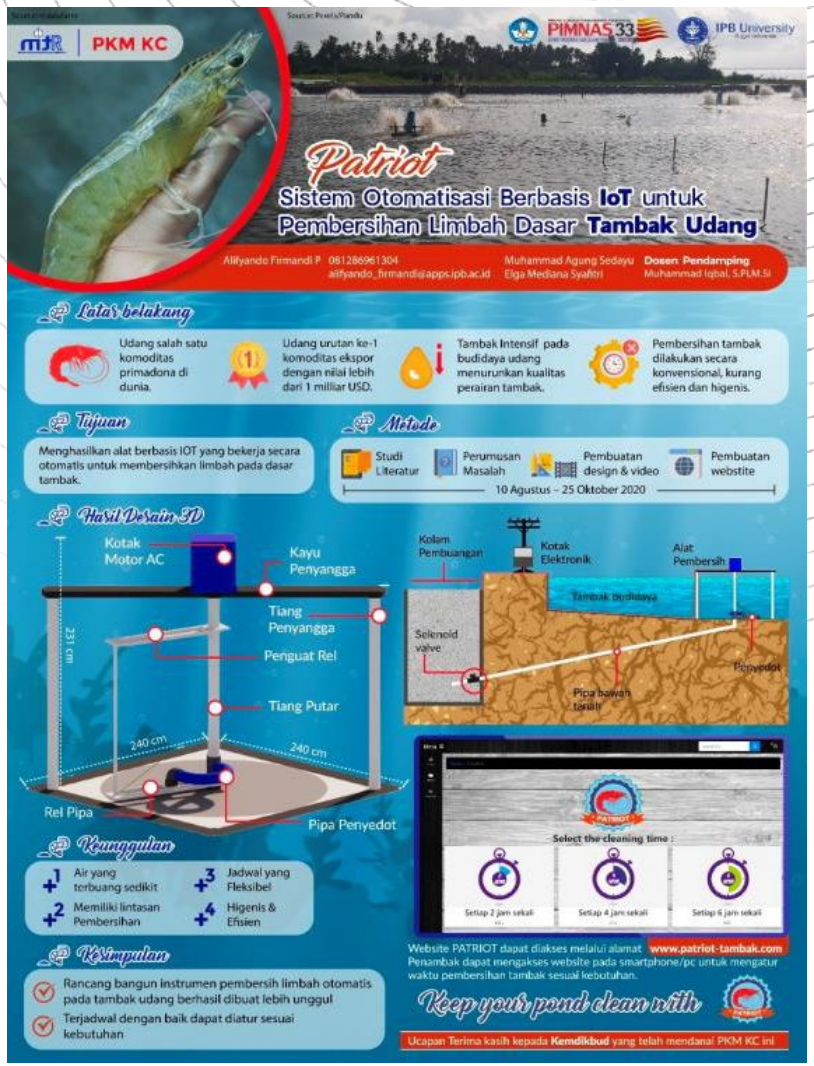
14 LIFE BELOW WATER

https:://pkmcenter.ipb.ac.id/2021/01/17/holie-sea-wisata-bahari-buatan-berbasis-hologram-interaktif-guna-mewujudkan-konservasi-berkelanjutan/

56 PROGRAM KREATIVITAS MAHASISWA

- Kegiatan lomba nasional (PKM) yang diikuti oleh mahasiswa ITK Alifyando Firmandi Pandewo, Muhammad Agung Sedayu, Elga Mediana Syafitri
- Judul Patriot Sistem Otomatisasi Berbasis Iot untuk Pembersihan Limbah Dasar Tambak Udang
- Pembimbing Muhammad Iqbal, S.Pi, M.Si

- National competition activity (PKM) which was participated by ITK students Alifyando Firmandi Pandewo, Muhammad Agung Sedayu, Elga Mediana Syafitri
- Title Patriot IOT Based Automation System for Shrimp Farm Base Waste Cleaning
- Supervisor Muhammad Iqbal, S.Pi, M.Si



14 LIFE BELOW WATER

https://www.youtube.com/watch?v=w_JtxM4YRGk

57 PROGRAM KREATIVITAS MAHASISWA

- Kegiatan lomba nasional (yang diikuti oleh mahasiswa ITK Mochamad Adam, Maulana, Bertha Citra Asih, Nadiyah Adelia
- Judul : ULTRAS Penerapan Kecerdasan Buatan (Artificial Intelligence) terhadap Ekowisata Pesisir demi Mewujudkan Indonesia Bebas Marine Debris 2030
- Pembimbing Dr. Ir. Sri Pujiyati, M.Si

- National competition activity (which was participated by ITK students Mochamad, Adam Maulana, Bertha Citra Asih Nadiyah Adelia
- Title : ULTRAS Application of Artificial Intelligence (Artificial Intelligence) to Coastal Ecotourism to Realize Indonesia Free of Marine Debris 2030
- Supervisor : Dr Ir Sri Pujiyati M.Si

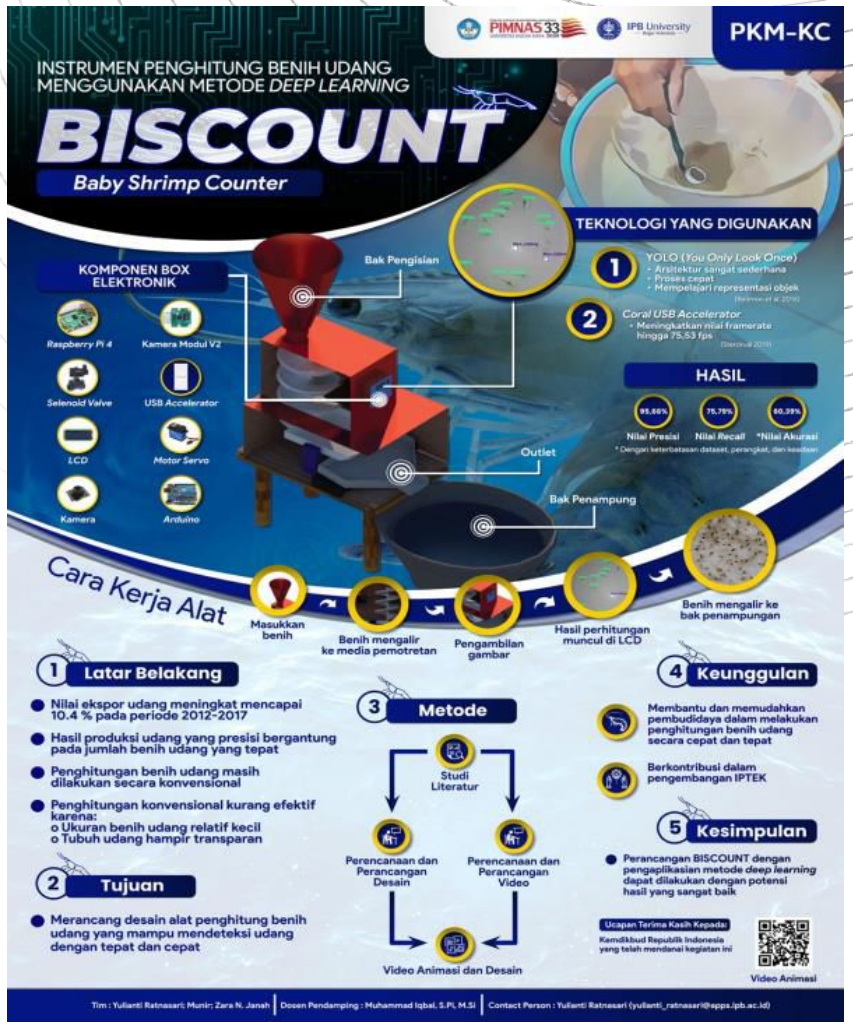
https://www.youtube.com/watch?v=_zkHtmawaKM

58 PROGRAM KREATIVITAS MAHASISWA

- Kegiatan lomba nasional (PKM) yang diikuti oleh mahasiswa ITK Yulianti Ratnasari Munir, Zara Nuramelia Janah.
- Judul : Instrumen Penghitung Benih Udang Menggunakan Metode Deep Learning
- Pembimbing : Muhammad Iqbal, S.Pi, M.Si

:

- National competition activity (PKM) which was participated by ITK students Yulianti Ratnasari, Munir,, Zara Nuramelia Janah
- Title : Shrimp Seed Counting Instrument Using Deep Learning Method
- Supervisor Muhammad Iqbal, S.Pi, M.Si



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https://www.youtube.com/watch?v=bNGgEv5Npro

59 PROGRAM KREATIVITAS MAHASISWA

BBP 3 KP organized this Webinar with the Indonesian Fisheries Product Processing Society (Department of Aquatic Products Technology FPIK IPB, and the FPIK IPB Alumni Association The theme of this Webinar is The Development of Innovation on Fishery Product Based Collagen Facts and Solutions Dr Wini Trilaksani and Dr Mala Nurilmala were the main speakers in this activity The seminar will be held on December 17, 2020

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: https://www.instagram.com/p/CIzFxS1IOn_/?utm_medium=copy_link

IPB University
Bogor Indonesia

SUSTAINABLE DEVELOPMENT GOALS

Research, Innovation and Business

60 Fisheries Management Workshop using Bioeconomic Approach for Regional Leaders in Formulating Policies for Acceleration of RZWP3K Implementation and Fisheries Management in West Papua

CCMRS IPB University, in collaboration with the Indonesia Climate Change Trust Fund (ICCTF), BAPPENAS, COREMAP-CTI, and West Papua Provincial Government, was conducting the workshop on November 23, 2020. The event's title was "Fisheries Management Workshop using Bioeconomic Approach for Regional Leaders in Formulating Policies to Accelerate the RZWP3K and Fisheries Management Implementation in West Papua."

There were three main speakers at this workshop, namely: Prof. Jon G Sutinen (University of Rhode Island USA), Prof. Kuperan (University of Utaran Malaysia) and Prof. Ronnie Bawole (University of Papua), guided by Dr. Tony Wagey (Executive Director of the ICCTF). The workshop material contains a bioeconomic approach in fisheries management, integrated coastal zone management, and capture fisheries policy in West Papua. As many as 37 participants attended this workshop.

The benefit achieved from the implementation of this workshop is the improvement of sustainable fisheries management practices.

http://pkspl.ipb.ac.id/berita/detail/pkspl-ipb-gelar workshop-pengelolaan-pesisir-terpadu-dan perikanan-dengan-pendekatan-bioekonomi

http://ipb.link/bioekonomi

61 Tim Satuan Gugus Tugas Pengendalian Penyakit Ikan Nasional

Staff from Department of Aquculture contributing in the workshop on developing master plan to manage AHPND on Vanamei The event was held in 10 Agustus 2020 and organize by Ministry of Fisheries and Marine Affair

KEMENTERIAN KELAUTAN DAN PERIKANAN
DIREKTORAT JENDERAL PERIKANAN BUDIDAYA

Nomor : 7516/DJPB.D2/TU.330/VIII/2020 05 Agustus 2020
Lampiran : 1 berkas
Hal : **Rapat Konsultasi dan Finalisasi Rancana Aksi Nasional Penanganan AHPND**

Yth. terlampir

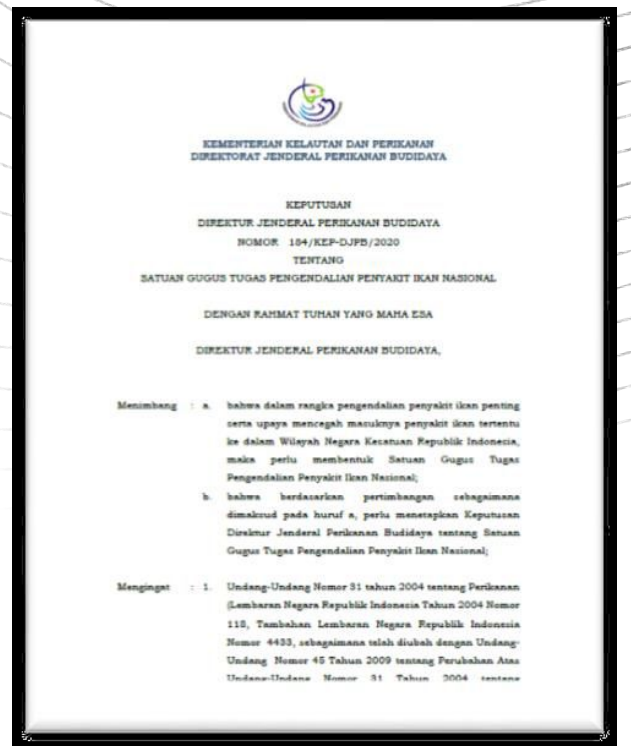
Menindaklanjuti rapat penyusunan rencana aksi penanganan penyakit *Acute Hepatopancreatic Necrosis Disease* (AHPND) di Indonesia yang telah dilakukan akan sebelumnya, maka kami mengundang Tim Satuan Gugus Tugas Pengendalian Penyakit Ikan Nasional serta Ketua Asosiasi bidang perikanan budidaya untuk hadir dalam rapat yang akan diaksanakan pada:

Hari/tanggal : Senin, 10 Agustus 2020
Waktu : 09.00 WIB – selesai
Media : ZOOM conference
(Meeting ID : 451 275 2648, Password : AHPND20)
Pimpinan Rapat : Direktur Kawasan dan Kesehatan Ikan
Agenda : Konsultasi dan Finalisasi Rencana Aksi Penanganan Penyakit AHPND

Demikian disampaikan, atas perhatian dan kerjasamanya diucapkan terima kasih.

An. Direktur Jenderal Perikanan Budidaya
Direktur Kawasan dan Kesehatan Ikan

Tembusan :
- Direktur Jenderal Perikanan Budidaya
- Kepala Badan KIPM



KEMENTERIAN KELAUTAN DAN PERIKANAN
DIREKTORAT JENDERAL PERIKANAN BUDIDAYA

KEPUTUSAN
DIREKTUR JENDERAL PERIKANAN BUDIDAYA
NOMOR 184/KEP-DJPB/2020
TENTANG
SATUAN GUGUS TUGAS PENGENDALIAN PENYAKIT IKAN NASIONAL

DENGAN RAHMAT TUHAN YANG MAHA ESA

DIREKTUR JENDERAL PERIKANAN BUDIDAYA,

Menimbang : a. bahwa dalam rangka pengendalian penyakit ikan penting serta upaya mencegah masuknya penyakit ikan tertentu ke dalam Wilayah Negara Kesatuan Republik Indonesia, maka perlu membentuk Satuan Gugus Tugas Pengendalian Penyakit Ikan Nasional;

b. bahwa berdasarkan pertimbangan sebagaimana dimaksud pada huruf a, perlu menetapkan Keputusan Direktur Jenderal Perikanan Budidaya tentang Satuan Gugus Tugas Pengendalian Penyakit Ikan Nasional;

Mengingat : 1. Undang-Undang Nomor 31 tahun 2004 tentang Perikanan (Lembaran Negara Republik Indonesia Tahun 2004 Nomor 118, Tambahan Lembaran Negara Republik Indonesia Nomor 4433, sebagaimana telah diubah dengan Undang-Undang Nomor 45 Tahun 2009 tentang Perubahan Atas Undang-Undang Nomor 31 Tahun 2004 tentang

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Website :

https://drive.google.com/file/d/1 VIErWM5eEEX6XU_J1pYLmjbKplzkKsU/view?usp=sharing

62 Discussion on the Draft of Indonesian National Standards

June 9-11th 2020
The teaching staff of the Department of Aquaculture, FPIK-IPB participated as resource persons in the 'Discussion on the Draft of Indonesian National Standards' regarding Aquaculture (65-07) coordinated by the Directorate General of Aquaculture, Ministry of Marine Affairs and Fisheries. This meeting discussed 4 drafts of the new RSNI and 1 revision of the old SNI. The event was attended by 24 participants offline and online, on 9-11 June 2021 with Prof. Dr. Alimuddin and Dr. Ir. Tatag Budiardi MSi, lecturer at the Department of Aquaculture, FPIK-IPB

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http://bdp.fpik.ipb.ac.id/?p=5487

63 Domestikasi Baronang

March 29th 2020
The Department of Aquaculture, FPIK-IPB participated as a resource person in the drafting of the release of a new variety of domesticated baronang fish by the Brackish Water Fisheries Research Institute and Fisheries Extension, Maros South Sulawesi, Ministry of Marine Affairs and Fisheries. The event was held online on March 29, 2021 with Prof. Dr. Alimuddin

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https://twitter.com/search?q=Domestikasi%20Baronang%2C%20Siganus%20Guttatus&src=typed_query

64 Broodstock Management For Freshwater Fish

March 18th 2021
Lecturer staffs of the Department of Aquaculture, FFMS, IPB University, Prof. Dr. Alimuddin and Dr. Dedi Jusadi participated as the keynote speakers in an event with a theme Open Discussion about Broodstock Management for Freshwater Fish held by PT Suri Tani Pemuka

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65 Bisnis Marine Culture Solusi Percepat Pembenihan Ikan

A lecturer staff of the Department of Aquaculture, FFMS, IPB University, Dr Irzal Effendi contributes to the development of marine culture From economic and environmental point of view, marine aquaculture business is more interesting and profitable However, marine aquaculture business still faces some challenges such as larvae culture, live food culture for the fish, and the environmental quality for fish culture in open seas

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https www.medcom.id /pendidikan/riset-penelitian/nbwl6PJk-dosen-ipb-bisnis-marine-culture solusi-percepat-pembenihan-ikan

66 Peningkatan Produksi Ikan Koi Cyprinus carpio Menggunakan Vaksin DNA Anti Koi Harves Virus (KHV)

Dr Sri Nuryati, Dr Yuni Puji Hastuti, dan Dr Odang Carman conducting research on Enhancement of Koi production through anti Koi herper virus vaccinization

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https://www.youtube.com/watch?v=cUh6kR4WW9k

67 Pemeriksaan Penyakit pada Ikan

Fish pathogen screening, an extension service conducted technician that supervised by Dr Sri Nurhayati This extension service is under responsibility of Prof Dr Sukenda as Head of Fish Health laboratory

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Website :

https://www.youtube.com/watch?v=cUh6kR4WW9k

68 Perkembangan riset bioflok untuk budidaya ikan

Dr Julie Ekasari as speaker on Biofloc research development for aquaculture webinar that organize by BBPBAT Sukabumi, on 29 Juli 2020

Perkembangan riset bioflok untuk budidaya ikan (Webinar 1 BBPBAT Sukabumi)

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Website :

https://www.youtube.com/watch?v=LM_lKwZUgWw

69 Marikultur Cerdas K1000: Aplikasi Monitoring Aktivitas Budidaya Ikan Kerapu dalam Meningkatkan Produktivitas Hasil Panen Kelompok Pembudidaya di Kepulauan Seribu

Kepulauan Seribu, DKI Jakarta

Deskripsi

Gugusan Kepulauan Seribu memiliki potensi yang tidak kecil untuk pengembangan berbagai macam industri, antara lain pertambangan, pariwisata serta yang paling utama adalah perikanan. Pemberdayaan di bidang perikanan untuk membantu menyejahterakan para pembudidaya ikan. Budidaya perikanan juga memiliki beberapa kendala, seperti aktivitas produksi yang tidak tercatat dengan baik sehingga berpengaruh pada hasil produksi budidaya yang tidak optimal. Sesuai dengan tujuan dari sustainable development goals (SDG) yaitu mengonversi dan memanfaatkan secara berkelanjutan sumber daya laut dan maritim untuk pembangunan yang berkelanjutan, maka dibuatlah suatu aplikasi yang disebut dengan Marikultur Cerdas.

Proses Implementasi

Sejak September 2019, tim pengembang Marikultur Cerdas berkunjung ke Kepulauan Seribu untuk bertemu dengan ketua dan bendahara kelompok Sea Farming, yaitu Bapak Nawawi dan Bapak Lakardi. Kunjungan dilaksanakan untuk melakukan wawancara kepada pembudidaya serta melihat proses bisnis yang berlangsung selama aktivitas budidaya. Berdasarkan feedback yang didapatkan, tim pengembang mulai membangun aplikasi berbasis web responsif dengan kerangka kerja Laravel dan Vue js, serta menggunakan MySQL sebagai basis data. Untuk IoT menggunakan protokol jaringan IoT MQTT dan broker menggunakan AWS educate IoT core. Aplikasi akan memiliki fitur Melihat kondisi lingkungan di sekitar keramba jaring apung (KJA) dengan sensor, lalu monitoring aktivitas produksi, dan mencatat aktivitas produksi.

Aplikasi ini dikembangkan oleh Tim dari Mahasiswa dan dosen Departemen Ilmu Komputer. Dr. Irman Hermadi, S.Kom, MS, Auzi Asfarian, S.Komp, M.Kom dan Afriyadi Yanuar Rahmadani adalah tim yang menggembangkan aplikasi ini.

Marikultur Cerdas K1000: Aplikasi Monitoring Aktivitas Budidaya Ikan Kerapu dalam Meningkatkan Produktivitas Hasil Panen Kelompok Pembudidaya di Kepulauan Seribu (Lanjutan)

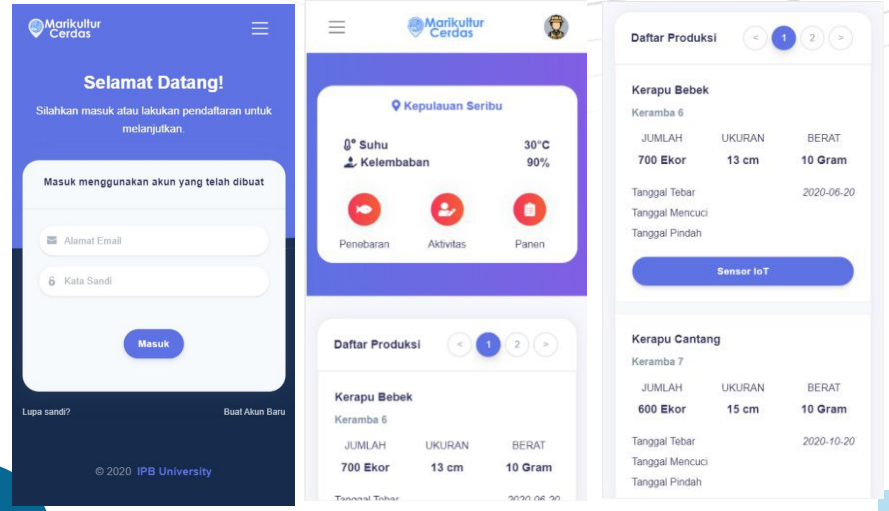
Hasil dan Dampak Kegiatan Penelitian ini menghasilkan Aplikasi Marikultur Cerdas K1000 yang dapat membantu pembudidaya dalam melakukan aktivitas budidayanya. Selain itu dengan adanya bantuan teknologi, dapat meningkatkan produktivitas hasil panen dan memudahkan proses bisnis yang dilakukan oleh pembudidaya. Aplikasi Marikultur Cerdas ini dikembangkan pada platform Android yang sehingga lebih fleksibel untuk dipergunakan saat ini.

Tantangan dan *Lesson Learned*

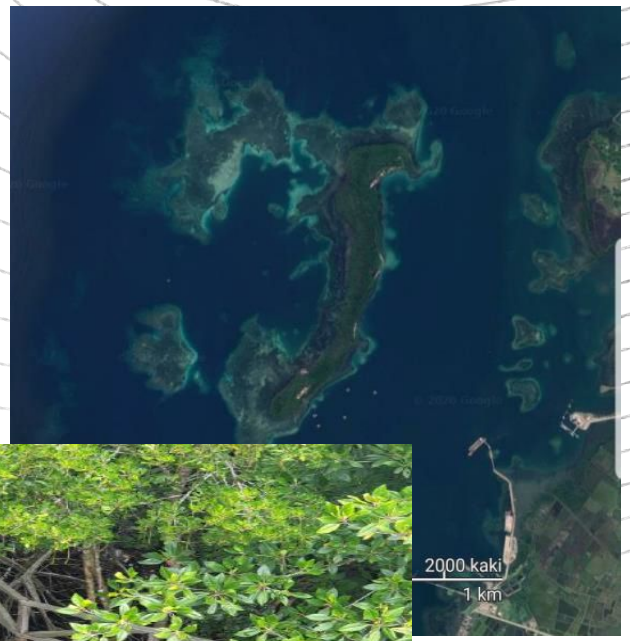
Komitmen untuk senantiasa berkoordinasi agar dapat memanfaatkan tool ini sebagai salah satu informasi bagi pembudidaya sehingga bisa menjadi pertimbangan dalam pengambilan keputusan menjadi tantangan tersendiri. Selain itu, perubahan mindset pembudidaya dan kemampuan literasi TIK (Teknologi Informasi & Komunikasi) untuk menerapkan Teknologi Informasi menjadi salah satu tantangan yang juga harus dihadapi ketika akan mengimplementasikan Marikultur Cerdas. Lebih jauh lagi, perlu ada sebuah lembaga baik berupa kelompok petani/pembudidaya atau pihak regulator (pemerintah) maupun swasta yang menjalankan dan mengelola platform ini agar berfungsi dan berjalan berkelanjutan.

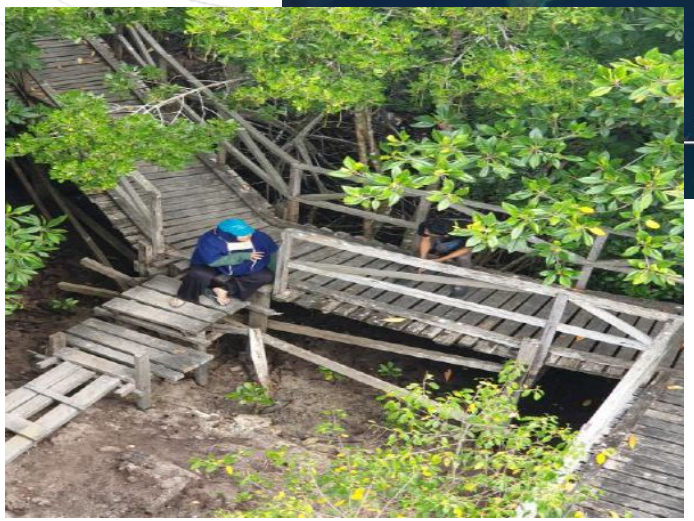
Replicability

Potensi untuk menerapkan aplikasi ini oleh komunitas pembudidaya ikan atau regulator atau swasta pada skala yang lebih luas maupun beragam sangat dapat dilakukan. Selain itu, dengan penerapan aplikasi ini secara luas akan didapatkan umpan balik untuk keberlanjutan aplikasi Marikultur Cerdas.



71 Pemanfataan Lestari Pulau Pannikiang Sebagai Ekowisata Mangrove





Pulau Pannikiang terletak di Kabupaten Barru, Sulawesi Selatan merupakan pulau mangrove dengan luas 86.31 hektar. Potensinya tinggi namun belum dimanfaatkan secara maksimal. Oleh karena itu, kajian ini menghitung kapasitas mangrove Pulau Pannikiang untuk pengembangan ekowisata mangrove, serta sebagai upaya perlindungan mangrove sebelum mengalami kerusakan.

Pannikiang Island, located in Barru Regency, South Sulawesi, is a mangrove island with an area of 86.31 hectares. The potential is high but has not been utilized to its full potential. Therefore, this study calculates the mangrove capacity of Pannikiang Island for the development of mangrove ecotourism, as well as an effort to protect mangroves before they are damaged.

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https://journal.ipb.ac.id/index.php/jurnalikt/article/view/32847

https://m.facebook.com/story.php?story_fbid=2484153061826794&id=100006963727152

72 Pelatihan dan Penyuluhan Sumberdaya Perairan di Kabupaten Garut (Training and Counseling on Aquatic Resources in Garut Regency)

Lembaga Penelitian dan Pengabdian kepada Masyarakat (LPPM) bekerjasama dengan Pusat Kajian Sumberdaya Pesisir dan Lautan (PKSPL), Departemen Teknologi Hasil Perairan (THP), Fakultas Perikanan dan Ilmu Kelautan (FPIK) IPB Universitymelakukan kegiatan Dosen Mengabdi di Kecamatan Pameungpeuk Kabupaten Garut selama empat hari. Dalam kegiatan ini, tim Dosen Mengabdi IPB University melakukan survei potensi sumberdaya pesisir di Pantai Desa Mancagahar, Kecamatan Pameungpeuk, menggelar pelatihan, penyuluhan dan observasi lapang. Dari hasil survei dan observasi, diketahui bahwa kondisi perairan di Pantai Desa Mancagaha yang masih bagus dengan jenis serta jumlah rumput laut yang banyak, meskipun hampir dipanen/diambil setiap hari.

The Institute for Research and Community Service (LPPM) in collaboration with the Center for Coastal and Ocean Resources Studies (PKSPL), Department of Aquatic Product Technology (THP), Faculty of Fisheries and Marine Sciences (FPIK) IPB University conducted Lecturer Service activities in Pameungpeuk District, Garut Regency for four day. In this activity, the team of Lecturers in Service of IPB University conducted a survey of the potential of coastal resources at Mancagahar Village Beach, Pameungpeuk District, held training, counseling and field observations. From the results of surveys and observations, it is known that the condition of the waters on the Mancagaha Village Beach is still good with a large number of types and quantities of seaweed, although almost harvested / taken every day

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https://lppm.ipb.ac.id/dosen-mengabdi-ipb-university-berikan-pelatihan-dan-penyuluhan-sumberdaya-perairan-di-kabupaten-garut

73 Studi Kelayakan Pembangunan Sentra Industri Pengolahan Produk Perikanan di Kab. Natuna (Feasibility Study of Development of Fisheries Product Processing Industry Center in Natuna Regency)

Kegiatan Studi Kelayakan Pembangunan Sentra Industri Pengolahan Produk Perikanan di Kabupaten Natuna diselenggarakan oleh Disperindagkop Kabupaten Natuna. Kajian ini bertujuan untuk Mendeskripsikan dan menganalisis potensi dan nilai strategis industri pengolahan hasil perikanan di Natuna dan Mengidentifikasi bahan baku dan volume produk di industri pengolahan hasil perikanan Natuna skala mikro dan kecil. Acara ini dilaksanakan pada bulan Oktober hingga Desember tahun 2020 dengan tim pakar atau narasumber diketuai oleh Prof. Dr.Eng Uju dan beranggotakan Prof. Sugeng Heri Suseno dan Dr.Eng Wahyu Ramadhan.

The Feasibility Study for the Development of Fishery Product Processing Industry Center in Natuna Regency was organized by the Department of Industry and Trade of Natuna Regency (Disperindagkop). This study aims to describe and analyze the potential and strategic value of the fisheries product processing industry in Natuna and identify raw materials and production volumes in the micro and small scale Natuna fishery processing industry. This event was held from October to December 2020 with a team of experts commanded by Prof. Dr.Eng Uju, with members Prof. Sugeng Heri Suseno and Dr. Eng Wahyu Ramadhan.

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https://thp.ipb.ac.id/studi-kelayakan-pembangunan-sentra-industri-pengolahan-produk-perikanan-di-kabupaten-natuna/

74 Coral Conservation and Rehabilitation

Laboratorium selam ilmiah Departemen ITK, FPIK mengadakan kegiatan Scientific Diving and Conservation Program Kegiatan ini dilakukan pada tanggal 12 - 16 Januari 2020 di Pemuteran Taman Nasional Bali Barat dan Coral Triangle Center Sanur yang diikuti oleh mahasiswa dan masyarakat umum.

Program ini meliputi beberapa bagian yaitu:

1. Pelatihan sertifikasi selam level Open Water Diver,
2. Pelatihan penggunaan Underwater Drone
3. Pengenalan kegiatan restorasi terumbu karang

The ITK Department's scientific diving laboratory, FPIK held a Scientific Diving and Conservation Program activity This activity was carried out on January 12 - 16, 2020 in Pemuteran West Bali National Park and Coral Triangle Center Sanur which was attended by students and the general public.

This program includes several parts, namely

1. Open Water Diver level diving training/certification,
2. Underwater Drone use training
3. Introduction to coral reef restoration activities

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https://www.instagram.com/p/B7aZPIoJIEG/

75 Era Adaptasi Norma Baru Dunia Usaha dan Industri Perikanan dan Kelautan : Peluang , Tantangan dan Arah ke Depan

July 2 nd August 25 th 2020

The Capture Fisheries Partnership Communication Forum (FK 2 PT) supported by academics from various universities, elements of the government, business and industry as well as the community planned to discuss, unravel the problems of the business world and the fisheries and marine industry in Indonesia which were also experiencing the impact of the pandemic outbreak and also accumulation of various problems before the pandemic occurred Creativity and use of information technology is a necessity for the revival of the business world and the fisheries and marine industry in the pandemic period and in the future

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http://psp.fpik.ipb.ac.id/index.php/id/2020/06/24/era adaptasi-norma baru dunia usaha dan industri perikanan dan kelautan peluang tantangan dan arah ke depan

76 Hilirisasi Inovasi Rumpon Portable ke P T Agung Samudra Sumatera Abadi (P T Assa) d an Sekolah Tinggi Perikanan dan Kelautan Matauli (S TPK Matauli)

May 10 th 2020

eFAD (Portable FAD) is an innovative fishing device that uses the sound frequency feature to collect fish The sound frequency can turn on automatically in the water, using a special suitcase for storage so that it is practical and easy to carry at the desired fishing location and when finished catching fish can be brought back to the house, thus minimizing the impact of being lost or carried away by the current Dr Roza explained about the results of the eFAD (Portable FAD) research since 2013 in several waters in Indonesia and the catches were tuna, skipjack, swordfish, selar to squid

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http://psp.fpik.ipb.ac.id/index.php/id/2020/05/10/hilirisasi inovasi rumpon portable ke pt agung samudera sumatera abadi pt assa dan sekolah tinggi perikanan dan kelautan matauli stpk matauli/

77 PEMBAHASAN PROPOSAL TEKNIS RISET BRPBAP MAROS

September 20th – October 18th 2020
A lecturer staff of the Department of Aquaculture, FFMS, IPB University, Prof. Dr. Alimuddin participated as a keynote speaker in the discussion about Research Proposal in the Balai Riset Perikanan Budidaya Air Payau dan Penyuluhan Perikanan, Maros Sulawesi Selatan, Kementerian Kelautan dan Perikanan

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http://psp.fpik.ipb.ac.id/index.php/id/2020/05/10/hilirisasi inovasi rumpon portable ke pt agung samudera sumatera abadi pt assa dan sekolah tinggi perikanan dan kelautan matauli stpk matauli/

78 Pengembangan Klaster Komoditas Unggulan

May 20th 2020
Lecturer staff of the Department of Aquaculture, FFMS, IPB University, Prof. Dr. Alimuddin and Dr. Irzal Effendi participated as the keynote speakers in the Cluster Development for Aquaculture Prime Commodities Meeting organized by Kedeputian Bidang Koordinasi Sumberdaya Maritim, Kemenko Kemaritiman dan Investasi. This meeting was attended by representatives from DJPB, litbang KP, Bappenas, Start-ups, and other stakeholders

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http://bdp.fpik.ipb.ac.id/?p=5487

79 Roadmap for National Lobster Development

A lecturer staff of the Department of Aquaculture, FFMS, IPB University, Dr Irzal Effendi contributes to the development of lobster aquaculture through the roadmap of national lobster development

Dr Irzal Effendi Tawarkan Roadmap Pengembangan Lobster Nasional

"Budidaya lobster di tanah air belum berkembang," ujar Dr Irzal Effendi, dosen IPB University dari Departemen Budidaya Perairan Fakultas Perikanan dan Ilmu Kelautan (BDP-FPIK) yang pernah meneliti agribisnis lobster pada tahun 1995 di Papua dan pembudidayaannya pada tahun 2004 dan 2018 di Nusa Tenggrara Barat.

Ia mengungkapkan bahwa belum berkembangnya budidaya lobster di tanah air ini berkaitan dengan masih adanya produksi lobster hasil penangkapan. Hal ini memunculkan ungkapan, buat apa bersusah payah budidaya lobster, sementara di alam masih tersedia. Oleh karenanya, usaha budidaya lobster belum kompetitif dibandingkan dengan penangkapan.

"Untuk mengembangkan budidaya lobster nasional yang berdaya saing dan berkelanjutan, perlu roadmap yang bisa menjadi acuan bagi pemerintah, pelaku usaha, peneliti dan masyarakat. Roadmap tersebut mencakup 12 langkah berupa program di level on farm dan off farm," tutur Ketua Program Studi Teknologi Produksi dan Manajemen Perikanan Budidaya Sekolah Vokasi, IPB University ini.

Dua belas langkah yang dimaksud adalah penentuan lokasi pengembangan, pendugaan stok lobster di alam, pengembagan teknologi dan manajemen pendederan dan pembesaran, pengembangan pembenihan (hatchery), pengembangan pasar dan agribisnis, pengembangan aspek legal, pengembangan sumber daya manusia dan kelembagaan, pengelolaan lingkungan perairaan, penerapan standarisasi dan sertifikasi, pelepasliaran, pengembangan fasilitas produksi serta pengembangan infrastruktur wilayah.

"Lokasi pengembangan budidaya harus sesuai berdasarkan pertimbangan biologis, ekologis dan bisnis serta dengan memperhatikan aspek sosial budaya, sehingga dicapai kelangsungan hidup, pertumbuhan dan produksi lobster yang maksimum serta efisiensi usaha yang tinggi. Pengkajian stok lobster berbagai stadia (ukuran) di alam harus dikerjakan guna memberi kepastian ketersediaan benih bagi usaha budidaya yang masih menggunakan benih alam. Hasil kajian ini juga bisa memberi informasi jumlah, ukuran, lokasi dan waktu (musim) benih yang boleh diambil dari alam secara lestari untuk kepeduan input produksi budidaya," ujarnya

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https://ipb.ac.id/news/index/2020/11/dr-irzal-effendi-offers-a-roadmap-for-national-lobster-development/f6f965ff8beda250fe9c50460fa0d4ab , https republika.co.id /berita/ekonomi/pertanian/qjv17h374/pakar

ipb tawarkan roadmap pengembangan lobster nasional

IPB University
Bogor Indonesia

SUSTAINABLE DEVELOPMENT GOALS

Community Development

80 Sustainable Utilization of Marine Protected Areas in the Sawu sea

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

This program is 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 supervision of the Ministry of National Development Planning (PPN)/National Development Planning Agency (*Bappenas*) through the Indonesia Climate Change Trust Fund (ICCTF).

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Link Activity:
https://ctss.ipb.ac.id/2021/08/01/institutionalization-of-local-communities-for-conservation-purposes-of-savu-sea-marine-national-park-it-is-inevitable/

81 Stakeholder Level Integrated Coastal Zone Management Training to Support the Coastal and Small Islands Zoning Plan (RZWP3K) Implementation in West Papua Province

A program to accelerate West Papua Provincial RZWP3K and KKP/KKPD (Water Conservation Areas/Regional Water Conservation Areas) implementation, particularly in Raja Ampat Regency, is capacity building on the fields of marine spatial planning, tourism, fisheries and conservation.

One of the Integrated Coastal Zone Management (ICZM) activities is the Stakeholder Level Training for Integrated Coastal Zone Management to support RZWP3K in West Papua Province. The event was conducted in Manokwari Regency from November 30 to December 4, 2020, involving 30 participants from relevant stakeholders.

The achieved benefits are the increased capacity of stakeholders in integrated coastal zone management in marine spatial planning, tourism, fisheries, and conservation.

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https://kumparan.com/news-release-ipb/pkspl-ipb-university-gelar-pelatihan-kepentingan-pengelolaan-pesisir-papua-barat-1umjW3lUJKE

82 Lecturer Service: Training and Coaching of Coastal Resources for Fishers Representations in Mancagahar Village, Pameungpeuk District, Garut Regency

IPB University, through the Institute for Research and Community Service of IPB University (LPPM IPB University), in collaboration with CCMRS IPB University, Center of Excellence (CoE) of SSNS (Sustainable Seafood and Nutritional Security), Faculty of Marine Science and Fisheries (FPIK) IPB University and the Aquatic Product Technology Department (THP) of FPIK IPB University, carried out the "IPB Lecturer Service" activity in Pameungpeuk District, Garut Regency. The activity of "IPB Lecturers Service" in Pameungpeuk District was carried out in "Training and Coaching of Aquatic Resources" from August 31 to September 3, 2020, attended by 20 participants, most of whom were fishers.

The main resource person for this training is Dr. Ruddy Suwandi, MS., M.Phil., Prof. Dr. Nurjanah, Dr. Mala Nurimala, and Dr. Roni Nugraha

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http://pkspl.ipb.ac.id/berita/detail/webinar1-angkat-isu-coastal-and-marine-pollutan

83 Training on Integrated Coastal Management in West Kalimantan in Anticipation of Nuclear Power Plant Development

The TRAINING ON INTEGRATED COASTAL ZONE MANAGEMENT IN WEST KALIMANTAN IN ANTICIPATION OF NUCLEAR POWER PLANT DEVELOPMENT activity collaborates between the Atomic Energy Agency (BATAN) and the Center for Coastal and Marine Resources Studies IPB University. The training was conducted from November 9 to December 30, 2020.

This training aims to improve the capacity of cross-stakeholder personnel (consortiums) in integrated coastal zone management within the ICM (Integrated Coastal Management) framework concerning the operational plan of a Nuclear Power Plant (NPP) in West Kalimantan.

Participants in this training were members of a consortium consisting of lecturers/researchers from the University of Tanjungpura Pontianak, researchers from the Research Development Agency (Balitbang) of the Ministry of Health, researchers from the BPPT Marine Survey Technology Center (Baruna Jaya), lecturers/researchers from Sriwijaya University and staff from the Tanjung Pinang Municipal Government.

The training expectedly could improve cross-stakeholder personnel (consortiums) capacity in integrating coastal area management within the ICM (Integrated Coastal Management) framework concerning the operational plan of nuclear power plants in West Kalimantan.

https://sustainability.ipb.ac.id/wp-content/uploads/2021/07/Pusat_PKSI
s-Report_2020_IndEng.pdf

84 Accompaniment In Constructing Compensation Formula For Community Affected By Oil Spills In North Karawang, West

1.1 Implementation Time
September 2019 – January 2020

1.2 Brief Description

The oil spill incident due to the drilling of a well in Karawang, West Java, in July 2019 had impacts on coastal ecosystems and it affected the lives of coastal communities who depend on activities on the coast. The affected districts include fishers, fish and shrimp cultivators, salt farmers, processing groups and marketers of fishery products, marine tourism, other businesses related to coastal activities.

The calculation of the losses in community due to pollution and environmental damage involves a vast dimension. However, related to ecological damage, the most important component was compensable damage. Some of these components can be calculated directly through the market mechanism, and some of them must be calculated through indirect measurements with the approach (revealed preference) or the choice that emerges by calculating the willingness to accept and willingness to pay. In oil pollution incidents, a system based on a market approach is used. The input and output price variables are assessed based on market prices, even though the products and services and the environment produced by coastal waters do not reflect market prices.

To calculate compensation for the affected coastal community, a formula was needed. It was determined based on existing rules, expert considerations, the actual condition of the affected community based on field observations, and references. This formula would calculate the final compensation for the affected costal community, which would be carried out against individuals, per person, per profession, duration of impact, and location.

1.3 Benefits
The benefit of this activity was a scientific basis in determining the formula of compensation for coastal communities affected by the oil spill.

1.4 Obstacles & challenges
The obstacles were collecting community data and shorter duration of interview, especially during the Covid-19 pandemic.

1.5 Outcomes / achievements
The achievement of this activity was the final compensation have been paid to thousands residents affected by the oil spill especially fishers, Poklahsar, Marine Tourism, and pond cultivators

https://sustainability.ipb.ac.id/wp-content/uploads/2021/07/Pusat_PKSPL-Gs-Report_2020_IndEng.pdf

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