

# Bonie Dewantara

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## **SUMMARY OF EXPERIENCE**

With educational background in forest products technology and information technology for natural resources management in Bogor Agricultural University, I have extensive experience in land use planning analysis for biodiversity conservation planning and low carbon development strategy. Land-based sector development is my strongly focus from the aspect of planning, monitoring, evaluation and controlling, utilization as well. Land use planning with the context of data and information integrated, community-based participatory land use planning, monitoring, and evaluation towards sustainable landscape management is also included as part of my experiences for fifteen years. It is supported by my technical expertise includes land cover analysis, GIS and remote sensing imagery interpretation, forest cover change analysis, and land cover change modeling, and other spatial models such as modeling of forestry, hydrological, and agricultural, as well for planning, monitoring evaluation and reporting as well as decision support system. I have also managed forest carbon and REDD+ initiative projects by engaging local community, private sector and local government and has considerable knowledge of climate change issues as well. For the five years, I have been going deeply into the system institutionalization of sustainable landscape management and knowledge management system.

## **FORMAL EDUCATION**

- 2006** M.Sc. in Information Technology for Natural Resources Management (MIT for NRM), International Program Study, Bogor Agricultural University (IPB), Bogor, Indonesia.
- 1996** Bachelor of Science in Forest Product Technology, Faculty of Forestry, IPB, Bogor, Indonesia

## **PROFESSIONAL EXPERIENCES**

- 1. Forest Programme – IV.** Ministry of Environment and Forestry – KfW – GFA – Kemitraan. Mamasa Watershed Management, East and South Sulawesi. As **Knowledge Management Systems Specialist**. Jan 2021- Present.
- 2. Fellow of CTSS IPB (Center for Transdisciplinary and Sustainable Science) Bogor Agricultural University.** (Aug 2020 – Present)
- 3. GIZ – HIMA International** – Team Leader for Plantation Commodities Mapping to Support the development of Masterplan Pengembangan Kawasan Perkebunan Berbasis Korporasi Petani” in East Kalimantan. (Oct 2020– Feb 2021)
- 4. Bappeda Kota Palembang (Palembang City Agency of Planning and Development).** Evaluation and Developing of JIDG (*Jaringan Informasi Geospasial Daerah – Local Geospatial Information Network*) towards Bhumandaala Awards of National Geospatial Information Agency. (Apr 2020 – Feb 2020)
- 5. ZSL (Zoological Society of London)** – Institutionally Sustainable Landscape Management System – Senior Knowledge Management Team . UKCCU Kelola Sendang Project for Sustainable Landscape Management and Green Growth Initiative in South Sumatra Province, included Project Setup and Site Selection based on Biodiversity Conservation Area for Ecological Corridor Development; Developing

Spatial Planning Information System, Integrated Peatland Water Management System, Community-Based Monitoring System, Performance-Based System of Land Management Monitoring (March 2016 – Apr 2020)

6. **MoEF (Ministry of Environment and Forestry) – ADB (Asian Development Bank) – Hatfield Indonesia.** Forest Investment Program – 1 (FIP-1). *Consultant for National MRV REDD+ Specialist.* Community-Focused Investment to Address Deforestation and Forest Degradation, West Kalimantan Province (Mar 2018 – Feb 2019).
7. **GFA-KFW – Consultant for GIS and Landuse Planning – National Expert.** The Gunung Leuser Ecosystem Biodiversity Conservation and Climate Protection Project (GLE BCCP). Establishment centre of data and information towards One Map and MRV System from district to province and national level. Participation land use planning in village as the basic for planning, monitoring, and utilization (December 2015 – Dec 2019)
8. **ICRAF (The World Agroforestry Center) -** Provincial Nesting for Emission Reduction and Low Carbon Development Strategy – South Sumatra Coordinator for Low Emission Development Strategies; Government and Corporate Engagement; Cross Scale Nested Approach in Jambi, Papua, West Kalimantan, and Middle Java Province. Nested Approach – Provincial Coordinator in Jambi for Private and Community Engagement (Nov 2013 - Jan 2016).
9. **UNESCO - Consultant for The First Author of Nomination Form of Nino Konis Santana Biosphere Reserve Republic of Timor-Leste** (Jun-Dec 2014)
10. **Gitamanda Consultant - Consultant as a part of the Expert Team** for 'Spatial Planning Based for Regional and Provincial Development Scenario, through Utilization of Spatial Dynamic Model Arrangement for Supporting of RPJM (MidTerm Development Planning) in 17 Province (Sumatra, Java, and Bali). Bappenas, BIG, and Gitamanda Consultant (Sept 2014 - Sept 2015).
11. **ICRAF (The World Agroforestry Centre) -** Team Leader for Participatory Landuse Planning (PLUP) as a part of District Readiness Assessment (DRA) in Green Prosperity Project, Millennium Challenge Account – Indonesia, Millennium Challenge Corporation – INDONESIA - USA (March 2013 – Sept 2013)
12. **CI-I (Conservation International – Indonesia) -** Carbon and Climate Change Manager on Sustainable Landscape Partnership (Sept – Oct 2013)
13. **Hatfield Indonesia -** Team Leader for Provision of Baseline and Cadastral Maps for Jambi Province Project, in collaboration with UNDP, REDD+ Task Force, REDD+ Provincial Commission (Komda) (Sept. 2012 – Feb 2013)
14. **WCS-IP (Wildlife Conservation Society – Indonesia Program) and UNESCO -** Spatial Modeling Coordinator, for Historical and Predicted Deforestation Rates on Siberut Island for Zonation in Siberut National Park. (Sept 2010 – Nov 2012)
15. **WCS-IP (Wildlife Conservation Society – Indonesia Program) and Weda Bay Nickel – Halmahera Contract of Work.** Team Leader for Historical and Predicted Deforestation Rates on Halmahera Island for Biodiversity Offsets, Focusing on Weda Bay Nickel CoW Area. (Feb – Jun 2012).
16. **Hatfield Indonesia – Forestry, Biodiversity, and REDD Specialist, (Feb – Aug 2012)**
  - a. German-Indonesia Project Proposal to Support the National Strategy of The REDD+ on the Biodiversity Component and Protected Area Conservation Rule (Debt for Nature Swap (DNS) VI and Financial Corporation Scheme) with Site Selection on surrounding Kerinci Seblat National Park
  - b. Kehati (The Indonesian Biodiversity Foundation) Program Evaluation 2006-2010.
17. **WCS (Wildlife Conservation Society) – Indonesia Program, Project Manager for Kaur Carbon Initiative, 2010 – 2012 (UNESCO, BMU-Germany)**
  - a) Community Forest, Local Government Engagement, and Parliament-Local Regulation for the Carbon Project Initiative in Kaur Sub-District, Bengkulu Province.

- b) Potential Analysis for Carbon Trading Mechanism in TRHS (The Tropical Rainforest Heritage of Sumatra) sites: Leuser, Kerinci Seblat, and Bukit Barisan National Park
  - c) Ground biomass survey and carbon potential mapping
  - d) Biodiversity Mapping: Big Mammals Distribution
  - e) Ecosystem Services of Fresh Water and Flash Flooding Analysis for River Catchment Management
  - f) Deforestation Potential Model, Baseline Scenario, and Leakage Prediction Model
  - g) Developing of Interactive DVD of System of Information for Carbon (SiCARBON ver.1) A Toolkit for Local Government in Initiating Carbon and REDD+ Project, Especially in the surrounding district of TRHS National Park (Jul 2011 – Dec 2011) (using Programming Language Visual Basic 6 and MapObject 2.4).
18. **Watershed Management Agency – Directorate of Land Rehabilitation and Social Forestry, Ministry of Forestry in Asahan - Barumun Catchment Area – North Sumatra.** Team Leader for Project of Potential Analysis of Village Forest for Catchment Area-Based Management (Jan - Jul 2010)
19. **OCSP Kalimantan Sites, USAID-OCSP. Consultant for Team Leader for Project** of Landcover Change Analysis 2010 (Sept – Oct 2010).
20. **USAID-OCSP – Consultant for Team Leader for Project** of Conservation Management Plan (CMP) in PT. Suka Jaya Makmur (SJM) West Kalimantan (Jul-Aug 2010).
21. **CI-I (Conservation International - Indonesia) - Spatial Analyst and Carbon Coordinator, 2008 -2010**
- a) Conservation and Harvesting Scenario for Medco Forest Concession Area, Merauke – TransFly Bioregion Mapping.
  - b) Peatland Mapping Coordinator in Angkola Ecosystem – North Sumatra, and Palm Oil Company Engagement Initiative Coordinator for Sustainable Palm Oil
  - c) Aerial Photographic Survey in Merauke District
  - d) Sustainable Coffee Analysis, for Starbucks in Aceh Tengah, Bener Meriah, and Sidikalang District, Land Suitability Mapping Coordinator
  - e) Sustainable Palm Oil Analysis and Carbon Potential in Singkil and Aceh Selatan, Land Suitability Mapping, Carbon and Deforestation Potential Survey Coordinator.
  - f) Web Based Interactive Mapping for Tree Adoption Coordinator in Gede Pangrango National Park
  - g) Aerial Photographic Survey, Carbon Potential and Deforestation Mapping Coordinator in Batang Toru Protection Forest – North Sumatra
22. **WCS (Wildlife Conservation Society) - Indonesia Program: Forestry, Remote Sensing and GIS Analyst, 2005 – 2008**
- a) Developing of Interactive DVD of Deforestation Information System (SIDef) “Map of Sumatera and Siberut Deforestation period 1990 – 2006 and Northern Sumatera Update ) (March 2007 – June 2007) (using Programming Language Visual Basic 6 and MapObject 2.4), 2007
  - b) Developing of Interactive DVD of Deforestation Information System (SIDef) “Map of Sumatera and Siberut Deforestation period 1990 – 2000) (March 2007 – June 2007) (using Programming Language Visual Basic 6 and MapObject 2.4), 2007
  - c) Developing of Interactive CD “ATLAS of Bukit Barisan Selatan National Park” (Jan 2007 – Dec 2007) (using Programming Language Visual Basic 6 and MapObject 2.4), 2007
  - d) Zonation of Bukit Barisan Selatan National Park (Jan 2007 – Dec 2007), 2007 - 2008
  - e) Survey and Mapping for Gibon Distribution in vary land use and land cover around Bukit Barisan Selatan National Park (Jan 2007 – Now), 2007 – 2008
  - f) Mapping of Spatial Detail Planning Bengkunt Sub-District, West Lampung District, Lampung Province (Jan 2007 – Dec 2007), 2006 – 2007
23. **Consultant for Expert Team** for Project of Mapping and Classification of Forest Cover and Deforestation in Siberut period 1990 - 2006 (Maret 2007 – April 2007). **Conservation International - Indonesia, 2007**
24. **Consultant for Expert Team** for Project of Mapping and Classification of Forest Cover and Deforestation in Aceh and North Sumatera period 1990 - 2006 (Des 2006 – Mei 2007). **Conservation International Indonesia, 2006 – 2007**

## TRAINING EXPERIENCES

1. **Scientific Journal Writeshop**, ICRAF - Capetown, South Africa, November 2015
2. **Outcome Mapping**, ICRAF-Hanoi, Vietnam 15-22 March 2015
3. **Advance Land Change Modeler and Project Design Document for Carbon Project**, Wildlife Conservation Society (WCS), Bronx Zoo, New York-US (Oct – Nov 2010)
4. **Land Change Modeler and Carbon Baseline Scenario**, Conservation International, Arlington, VA, Washington DC – US (April – May 2009)
5. **Land Suitability and Trade Off Analysis**, Idrisi Taiga – Spatial Modeling Approach, Conservation International, Jakarta (September 2008).
6. **ESRI Training 2006 for ArcGIS 9.0 - Geodatabases**. ESRI (Environmental Systems Research Institute), Redlands, California - United State (August 2006).
7. **ESRI Training 2006 for ArcGIS 9.0 - Advance Spatial Analysis**. ESRI (Environmental Systems Research Institute), James Reserve – San Jacinto Mt, California - United State (July 2006).
8. **Regional Analysis Training Remote Sensing for Biodiversity Habitat Monitoring and Change Detection Method**. Conservation International (CI) Indonesia – Center for Applied Biodiversity Science – Wildlife Conservation Society – Indonesia Program (June 2005)

## REPORTING AND PUBLICATION

1. **Dewantara B.** 2016. The KELOLA Sendang Project: a public-people-private partnership to address deforestation, peatland degradation, wildfires and associated climate impacts within the context of sustainable landscape management towards green development. Join Session. Marrakech COP 22 2016. [https://seors.unfccc.int/seors/reports/archive.html?session\\_id=cop22#events](https://seors.unfccc.int/seors/reports/archive.html?session_id=cop22#events)
2. **Dewantara B**, Widayati A, P Minang, Johana F, Thoha MZ. 2015. **Nested Approach in Land-based Emission Reduction in Indonesia: A Case Study of Jambi Province**. Scientific Paper.
3. **Dewantara, B.** 2015. **Tata Ruang, Sebuah Insentif**. Kiprah Agroforestri. Volume 8, No. 2 – Agustus 2015. World Agroforestry Centre (ICRAF) Indonesia. ISSN 2089-2500.
4. **Dewantara B.** 2015. Nomination Form of Nino Konis Santana Biosphere Reserve Republic of Timor-Leste. UNESCO Jakarta Office
5. Khatab B, Gusmardi, N, Aini., Setiawan B, Sukrianto R, Johana F, Agung P, Widayati A, Zulkarnain MT, **Dewantara B.** 2014. Penyusunan Rencana Aksi Mitigasi Untuk Pembangunan Rendah Emisi Berbasis Lahan di Kabupaten Tanjung Jabung Barat Provinsi Jambi. Kerjasama Bappemdal Kabupaten Tanjung Jabung Barat – World Agroforestry Centre (ICRAF) Southeast Asia Regional Program.
6. Johana F, **Dewantara B**, Zulkarnain MT. 2014. Belajar dari proses inisiatif membangun aksi mitigasi perubahan iklim secara berjenjang: inisiasi penyusunan rencana aksi kabupaten di Provinsi Jambi. Kiprah Agroforestri. Volume 7 No. 2 – Agustus 2014. World Agroforestry Centre (ICRAF) Indonesia. ISSN 2089-2500.
7. Gaveau, D.L.A., Epting, J., **Dewantara, B.**, Kumara, I., Suyikno, B., Sumantri, H., 2007. **Deforestation Map (1990-2000) of Sumatra and Siberut at 150,000 Scale**. Interactive CD-ROM. Bogor, Indonesia: Wildlife Conservation Society-Indonesia Program, Jakarta, Indonesia: Conservation International Indonesia, Washington D.C, USA: Conservation International.
8. **Dewantara, B.**, Sumantri, H., Wong, G., Juhn, D., Lubis S., Wijayanto, I. 2010. **Coffee Land Suitability and Deforestation in Aceh Tengah and Bener Meriah District (Nanggroe Aceh Darussalam Provinces) - A Preliminary Assessment for Climate Change Adaptation and Mitigation Approach**. Conservation International Indonesia Program – Conservation International, Washington DC.
9. **Dewantara, B.** 2010. **Deforestation Fact in Bukit Barisan Selatan national Park, as a Preliminary Assessment for Adapting and Carbon-Financing Forest Management in The Tropical Rainforest Heritage**. Wildlife Conservation Society – Indonesia Program, Bogor. Indonesia.
10. Winarni, N., **Dewantara, B.**, Prasetyaningrum, M.D. 2011. **Tropical Rainforest Heritage Site of Sumatra, Climate Change Impact Assessment (Vulnerability Assessment)**. Wildlife Conservation Society – Indonesia Program, Bogor. Indonesia.

11. Brickle, N. **Dewantara, B.**, Winarni, N., Alexander, H. 2011. *Adaptive and Carbon-Financed Forest Management in The Tropical Rainforest Heritage of Sumatra*. Wildlife Conservation Society – Indonesia Program, Bogor. Indonesia.
12. **Dewantara, B.** 2011. *Deforestation within Tropical Rainforest Heritage Site of Sumatra (TRHS): Preliminary Assessment for Prioritizing Carbon-Financing Forest Management in The TRHS*. Wildlife Conservation Society – Indonesia Program, Bogor. Indonesia
13. Dewantara, B. 2012. **Historical and Predicted Deforestation Rates on Halmahera Island for Biodiversity Offsets, Focusing on Weda Bay Nickel CoW Area**. Wildlife Conservation Society – Indonesia Program and Weda Bay Nickel – Halmahera Contract of Work.
14. Ministry of Forestry. 2007. **Conservation Strategy and Action Plan for The Sumatran Tiger (Panthera tigris sumatrae) 2007-2017**, as contributors

## MEMBERSHIP EXPERIENCES

1. President of **Society for Conservation GIS – Indonesia Chapter**, 2012 - 2015
2. Member of **High Conservation Value (HCV) – Network Indonesia**, 2011-Present
3. Member of **Elephant-Tiger Forum**, for Sumatran Tiger and Elephant Conservation, 2008 – Present
4. Member of **Harimau Kita** (Sumatran Tiger Conservation Forum), 2008 – Present
5. Member of **Society for Conservation GIS International**, Redlands, California US. 2007 - Present
6. Member of **RS-GIS (Remote Sensing – Geographical Information System) Forum**, 2004 - Present
7. Member of Student Association **MIT- Bogor Agricultural University**, 2001 – Present
8. Member of Forestry Students (**Forestry Faculty – Bogor Agricultural University**), 2016 - Present

## SKILLS

1. Nested Approach for Emission Reduction in National, Sub-National, and Site Level
2. Spatial Planning and Low Carbon Development Strategy and Provincial Green Growth Initiative
3. Forestry and biodiversity research techniques
4. Carbon project and REDD + initiative project
5. Community, Private Sector and Government Engagements
6. Carbon ground survey and carbon potential mapping
7. Geographical Information System (GIS) and Remote Sensing
8. Spatially and Statistically Model
9. High Conservation Value (HCV) Assessment
10. Strategic Environmental Assessment
11. Computer Skill
  - Spatial and Image Processing:** ArcGIS 10.6, ArcView 3.2/3.3, Quantum GIS and ERDAS Imagine; Statistical package (SPSS), Visual Basic 6.0, ERMapper, Surfer, Envi 4, MapInfo, and Global Mapper, Idrisi Kilimanjaro, Idrisi Taiga, Idrisi Selva, TerrSet Idrisi
  - Operating System and Office Application:** Windows Operating System 10 and Microsoft Office 2016,
  - Database applications:** Microsoft Access.
  - Graphic Design and Desktop Publishing:** Adobe Photoshop, Corel Draw
  - Dynamic Modeling:** Stella, Ithing.

## PERFORMANCE

1. **Carrefour Indonesia** Best Employee 2000
2. **Conservation International (CI)** - Global Best Employee 2010