

IGIF Implementation in Indonesia: Sustainable Palm Oil Production Case Study

Dr. Antonius Bambang Wijanarto
Deputy Chairman for Thematic Geospatial Information BIG
President of UN-GGIM Asia Pacific

Forum on United Nations Integrated Geospatial Information Framework
1 August 2023, New York USA

INDONESIA PALM OIL INDUSTRY



COVERAGE
16.38 Million Ha

490 Trillion IDR
National Income

Fresh Fruit Bunch (TBS) Production
(Mil. Tonnes)

MENTERI PERTANIAN
REPUBLIK INDONESIA
KEPUTUSAN MENTERI PERTANIAN
NOMOR 833/PT/SP/00/012/2019

TENTANG
PENETAPAN LUAS TUTUPAN KELAPA SAWIT INDONESIA
TAHUN 2019

DENGAN RAHMAT TUHAN YANG MAHA ESA
MENTERI PERTANIAN,

Menimbang : a. bahwa dalam rangka melakukan pembaharuan data-data perkebunan kelapa sawit Indonesia;

b. bahwa hasil rekonsiliasi data tutupan sawit oleh tim yang dipimpin oleh Kementerian Koordinator Bidang Perekonomian telah mengoreksi luas kelapa sawit Indonesia;

c. bahwa dalam rangka sinkronisasi kebijakan satu peta yang berkaitan dengan kawasan pertanian kelapa sawit yang dikeluarkan oleh kementerian/lembaga;

d. bahwa berdasarkan hal tersebut di atas perlu ditetapkan Keputusan Menteri Pertanian tentang Penetapan Luas Tutupan Kelapa Sawit Indonesia Tahun 2019;

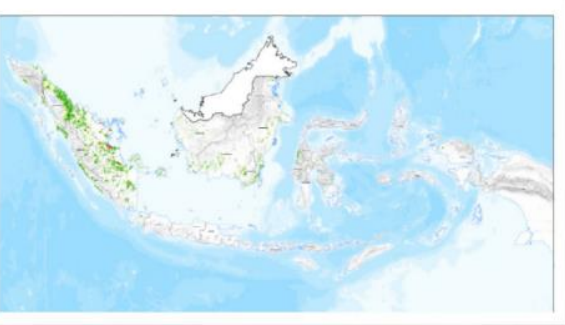
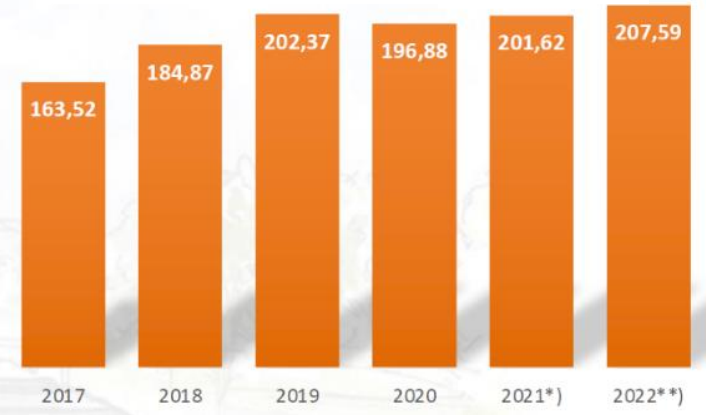
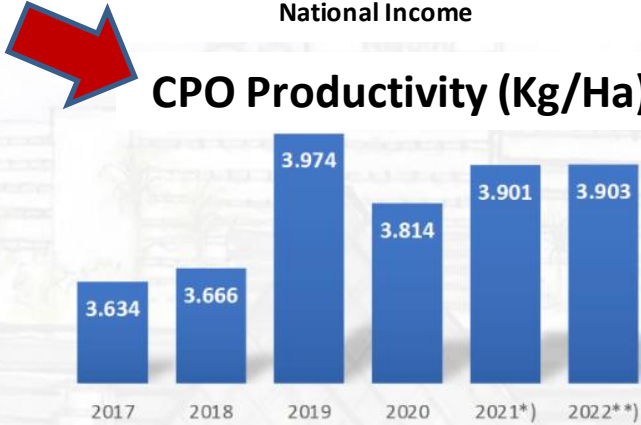
Mengingat : 1. Undang-Undang Nomor 39 Tahun 2014 tentang Perkebunan (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 308, Tambahan Lembaran Negara Republik Indonesia Nomor 5613);

2. Peraturan Presiden Nomor 7 Tahun 2015 tentang Organisasi Kementerian Negara (Lembaran Negara Republik Indonesia Tahun 2015 Nomor 48).

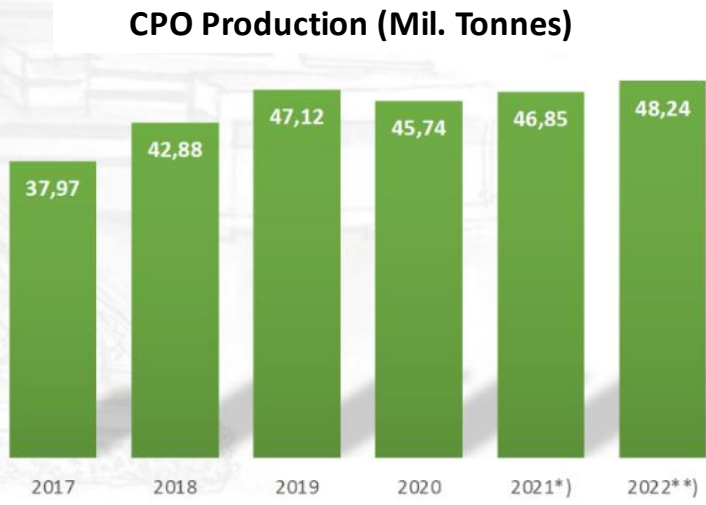
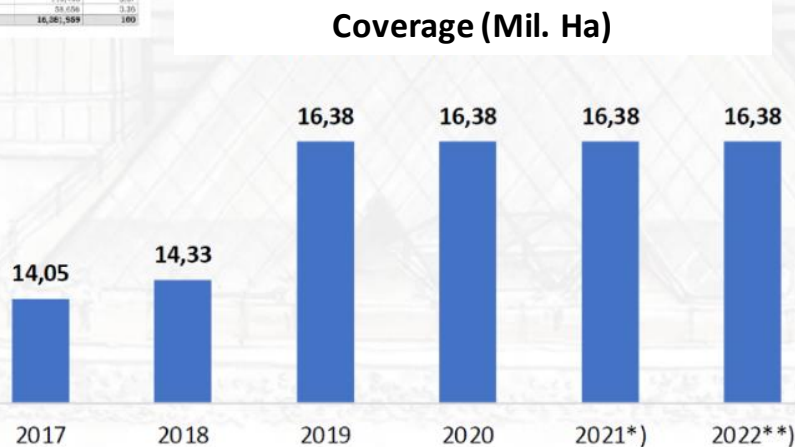
LAMPIRAN
KEPUTUSAN MENTERI PERTANIAN
REPUBLIK INDONESIA
NOMOR 833/PT/SP/00/012/2019
TENTANG
PENETAPAN LUAS TUTUPAN KELAPA
SAWIT INDONESIA TAHUN 2019

1. Tabel Luas Tutupan Kelapa Sawit Nasional Tahun 2019:

No	Provinsi	Luas (Ha)	Persentase (%)
1	Aceh	533.002	3,27
2	Bangka Belitung	2.079.027	12,69
3	Bengkulu	4.261.508	26,00
4	Jambi	1.134.640	6,93
5	Kepulauan Bangka Belitung	273.842	1,67
6	Kendari dan Maluku	4.426	0,03
7	Lampung	268.961	1,64
8	RIAU	3.287.206	20,08
9	Sulawesi Utara	308.683	1,90
10	Sulawesi Selatan	1.456.468	8,90
11	Sulawesi Tengah	28.365	0,18
12	Sulawesi Tenggara	14.997	0,09
13	Sulawesi Barat	1.807.843	11,03
14	Kalimantan Selatan	849.933	5,19
15	Kalimantan Tengah	1.716.702	10,48
16	Kalimantan Timur	1.282.849	7,89
17	Kalimantan Utara	234.231	1,43
18	Irian Jaya	11.287	0,07
19	Bali	55.938	0,34
20	Jawa Barat	21.380	0,13
21	Jawa Tengah	10.000	0,06
22	Jawa Timur	55.780	0,34
23	DIY	14.660	0,09
24	Maluku	3.200	0,02
25	Papua	10.490	0,06
26	Papua Barat	58.636	0,36
TOTAL		16.381.589	100



Source: MoA, BPS

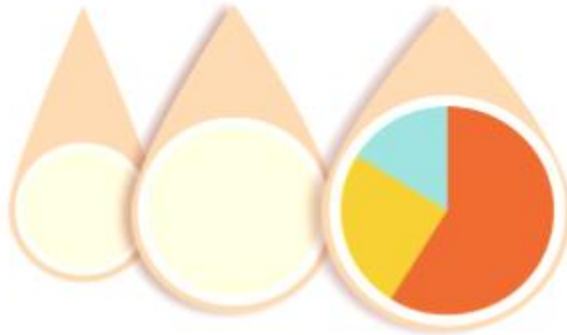


INDONESIA PALM OIL INDUSTRY

Palm Oil: Indonesia's "Red Gold"

Global palm oil production (in million tons) and major producing countries in 2022

2001 24.8 mt
2011 50.4 mt
2021-2022* 75.5 mt

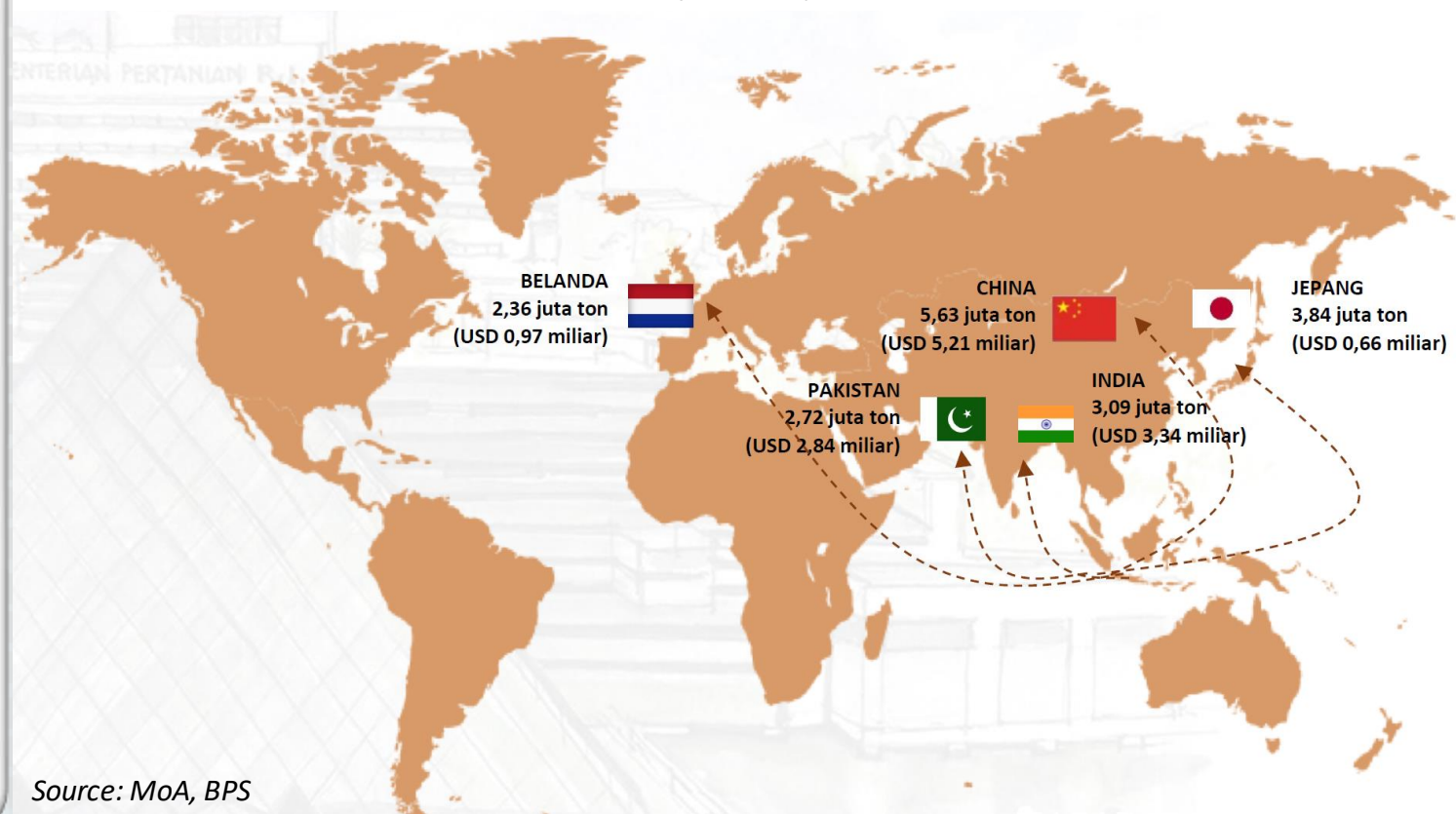


- Indonesia 59%
- Malaysia 25%
- Others 16%

* Forecast. Data refers to the October 2021-September 2022 marketing year.
Sources: USDA, FAO via Our World in Data



5 Main Destination Countries for Indonesian Palm Oil Exports (2021)



Source: MoA, BPS



CHALLENGES IN SUSTAINABLE PALM OIL PRODUCTION



Climate Change

High temperature rise
reduces oil palm production



Legality & Permits

Duplication of permits, area
discrepancy, potential loss
of national income



Land-Use Conflict

Oil palm plantations in
forest area, local community
land rights



Export Market Barriers

High import duty rates, anti-
dumping policy, food safety



Downstreaming

Development of CPO
derivative products is not
optimal, renewable energy



Low Productivity

The average CPO productivity is
3.6 tons/ha/year while the
potential is 6-8 tons/ha annually,
farmers' capacity & capability

Presidential Instruction No. 6 of 2019 on the National Action Plan for Sustainable Oil Palm Plantations 2019-2024 (RAN KSB)



Objectives:

1. Improve farmers' capacity and capability
2. Finalize status and legality of lands
3. Make use of palm oil as a source of renewable energy
4. Enhance diplomacy toward sustainable oil palm plantations
5. Accelerate implementation of Indonesian sustainable palm oil

Actions:

- A. Strengthening Data, Coordination and Infrastructure
- B. Capacity & Capability Building of Smallholders
- C. Environmental Management & Monitoring
- D. Implement Plantation Governance and Dispute Settlement
- E. Acceleration of Certification of Indonesian Sustainable Palm Oil (ISPO) and Improve Market Access for Palm Oil Products

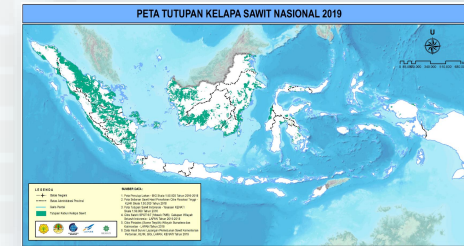


ROLES OF BIG IN RAN KSB

A. Strengthening Data, Coordination, and Infrastructure of Palm Oil Plantation

01

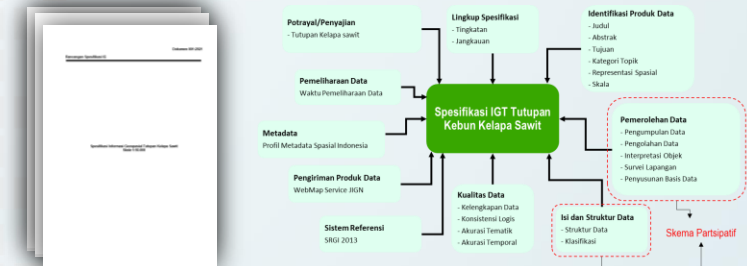
Compilation and Integration of Thematic Geospatial Information National Palm Oil Estate Coverage (2019-2024)



National Palm Oil Coverage Maps 2019

02

Develop Guidance, Norm, Standard, Procedure and Criteria for Participative Mapping



Mapping Standard of Palm Oil Coverage

03

Training of Participative Mapping for local governments, private sectors, and community within palm oil plantation (2021-2024)



Building Capacity for Palm Oil Mapping

IGIF IMPLEMENTATION FOR ISPO

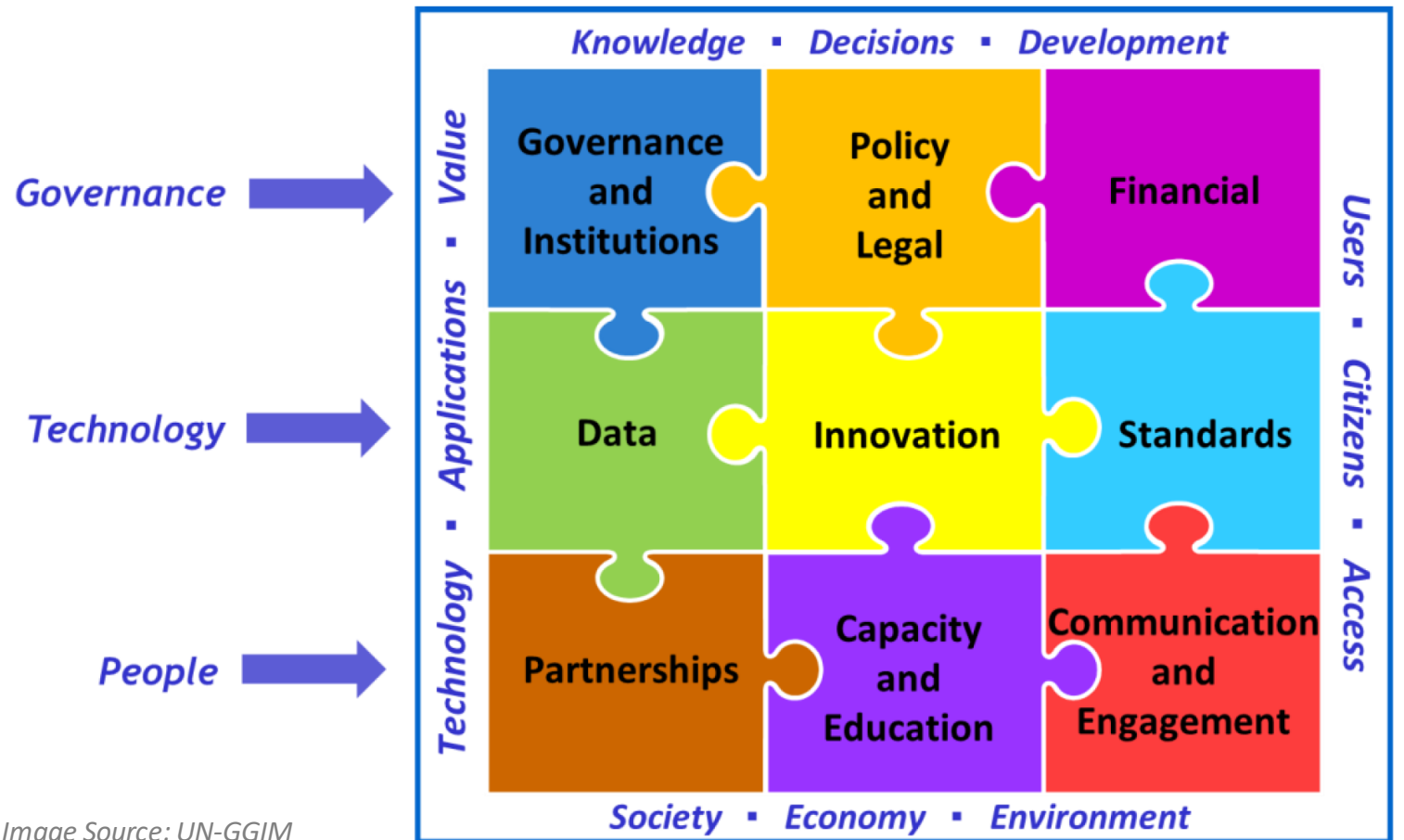


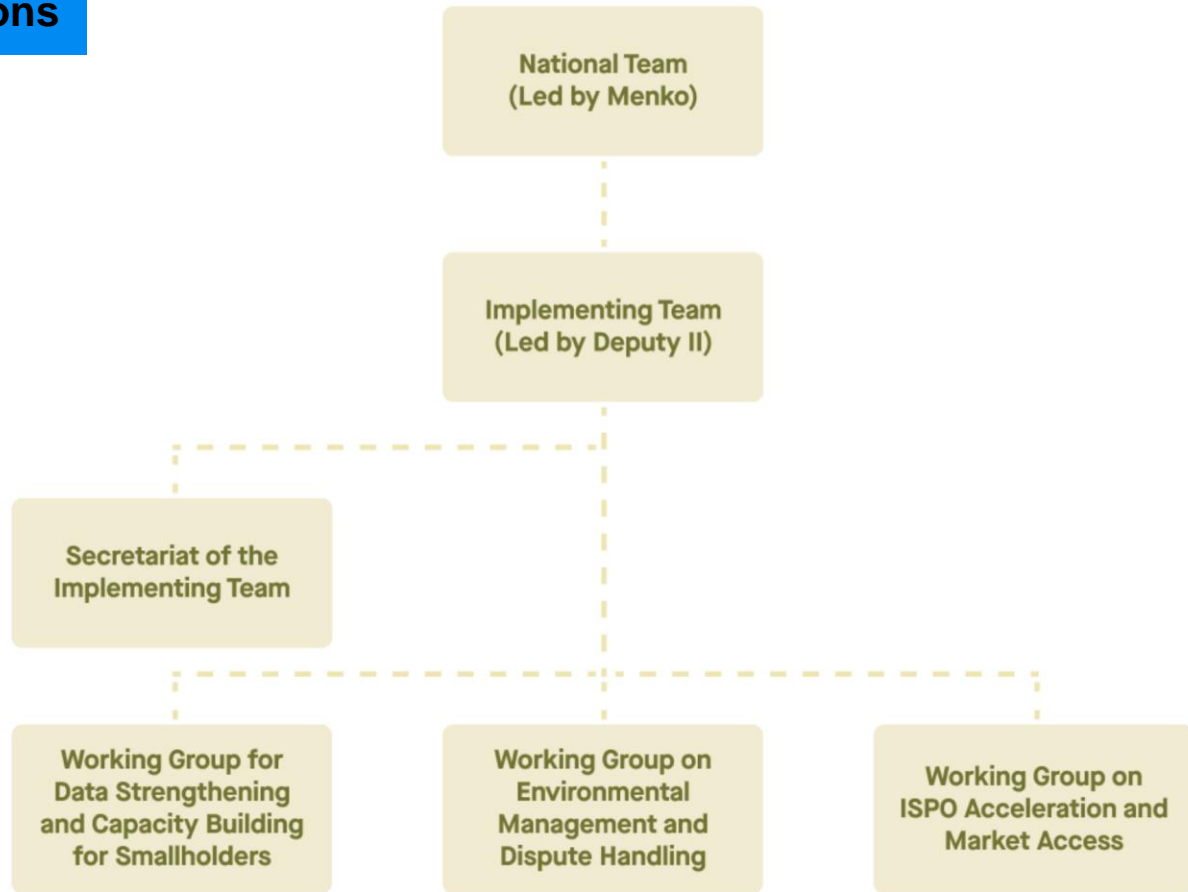
Image Source: UN-GGIM



IGIF IMPLEMENTATION FOR ISPO

Governance and Institutions

Organizational Structure



Governance Model of RAN KSB



Institutional Arrangements

Policy and Legal

IGIF IMPLEMENTATION FOR ISPO

Presidential Decree No. 9/2016 (continued by Presidential Regulation No. 23/2021) regarding the Acceleration of the Implementation of One Map Policy (OMP) on Map Accuracy at the scale of 1:50,000

OMP TARGET

OMP PRINCIPLES

OMP MAIN PROGRAMS



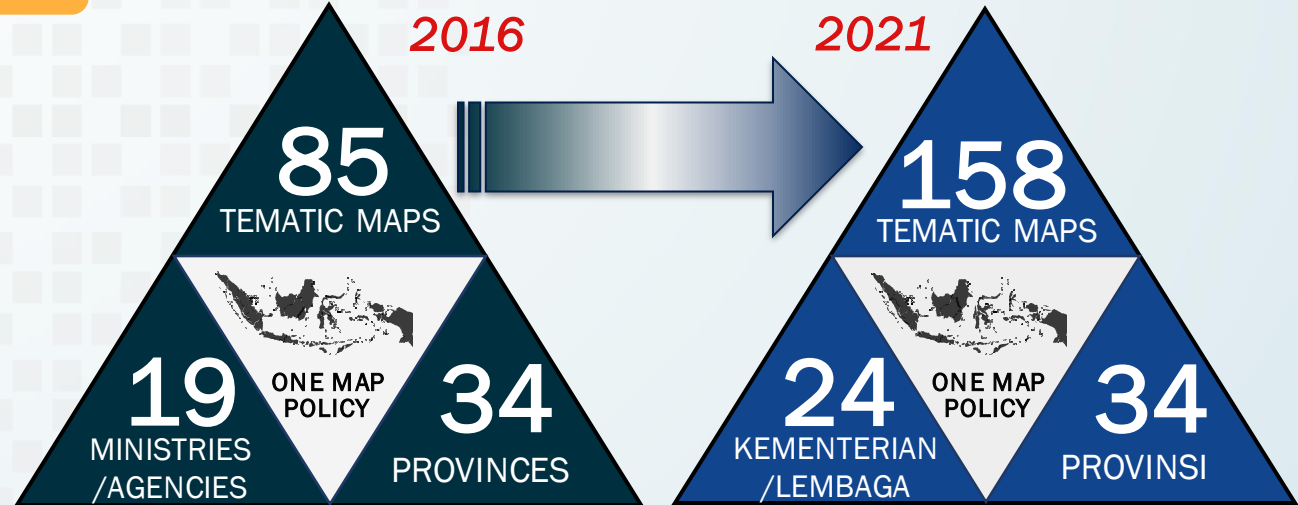
1 REFERENCE STANDARD DATABASE GEOPORTAL

- Compilation
- Integration
- Synchronization
- Data Sharing

OMP BENEFITS

Reference for quality improvement of:

- Spatial Planning
- Natural Resource Management
- Sustainable Development Planning
- Disaster Risk Management
- Policy Formulation & Decision Making
- Development of Digital Economy



Presidential Decree No. 9/2016

Presidential Regulation No. 23/2021

Data

Innovation

IGIF IMPLEMENTATION FOR ISPO

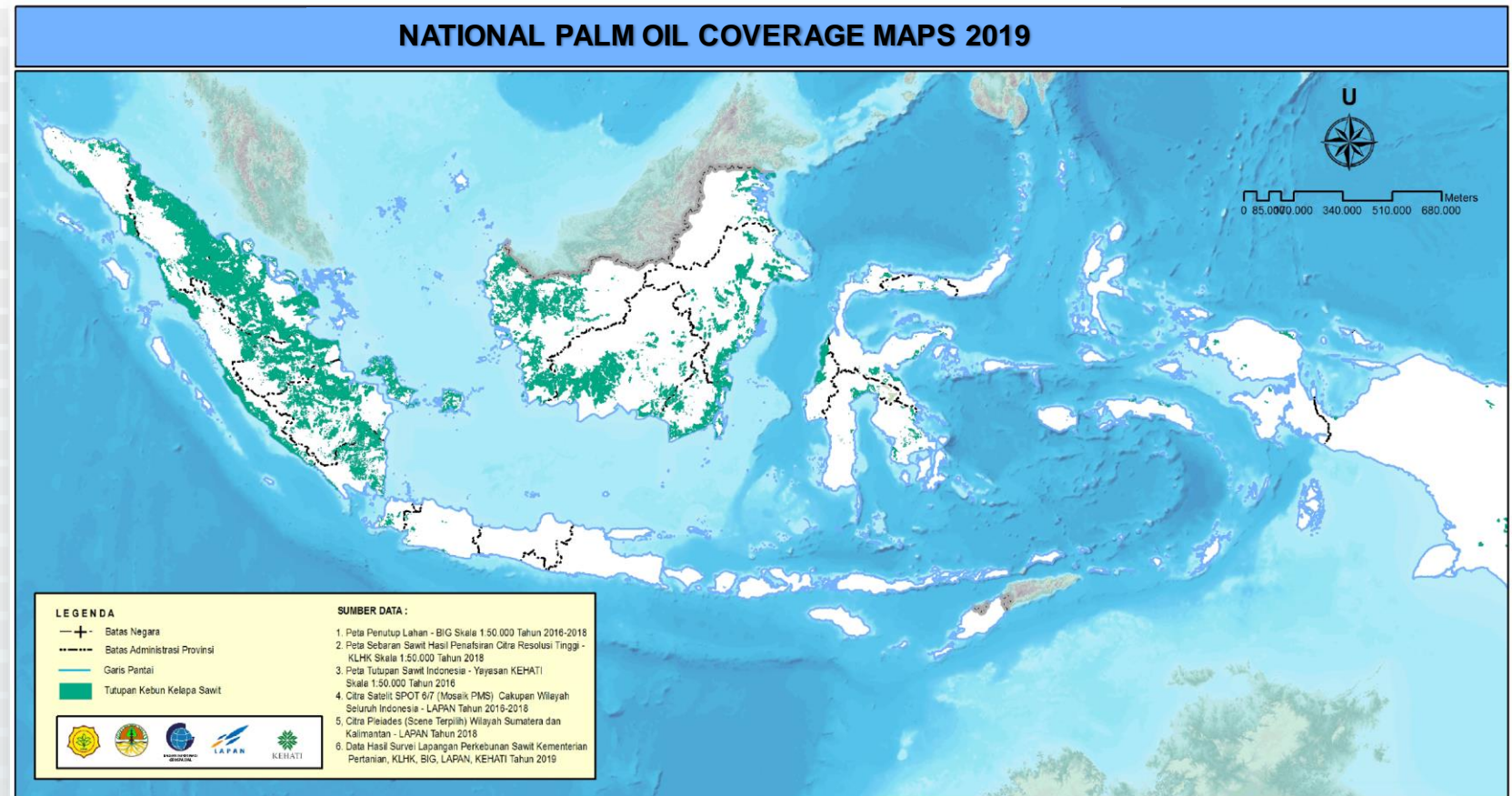
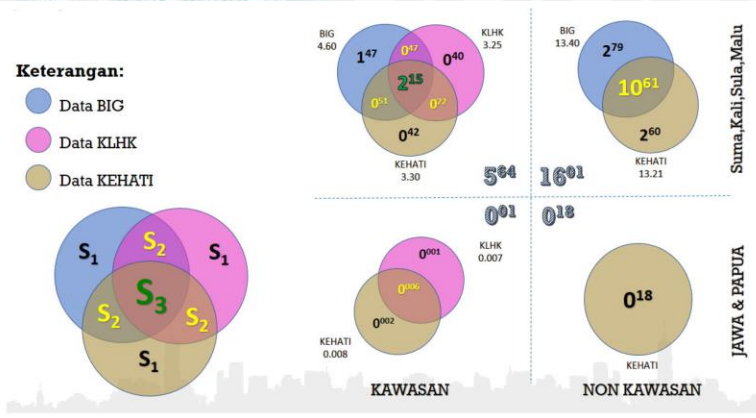


#1 Peta Data Nusantara

BerAKHLAK
Berorientasi Pelayanan Akuntabel Kompeten Harmonis Loyal Adaptif Kolaboratif



The National Palm Oil Coverage Map is formulated using the method of integration and reconciliation of geospatial data so it can eliminate overlapping data between institutions. It also utilize satellite imagery and drone mapping for data sources.



Partnership

Communication
and
Engagement

IGIF IMPLEMENTATION FOR ISPO



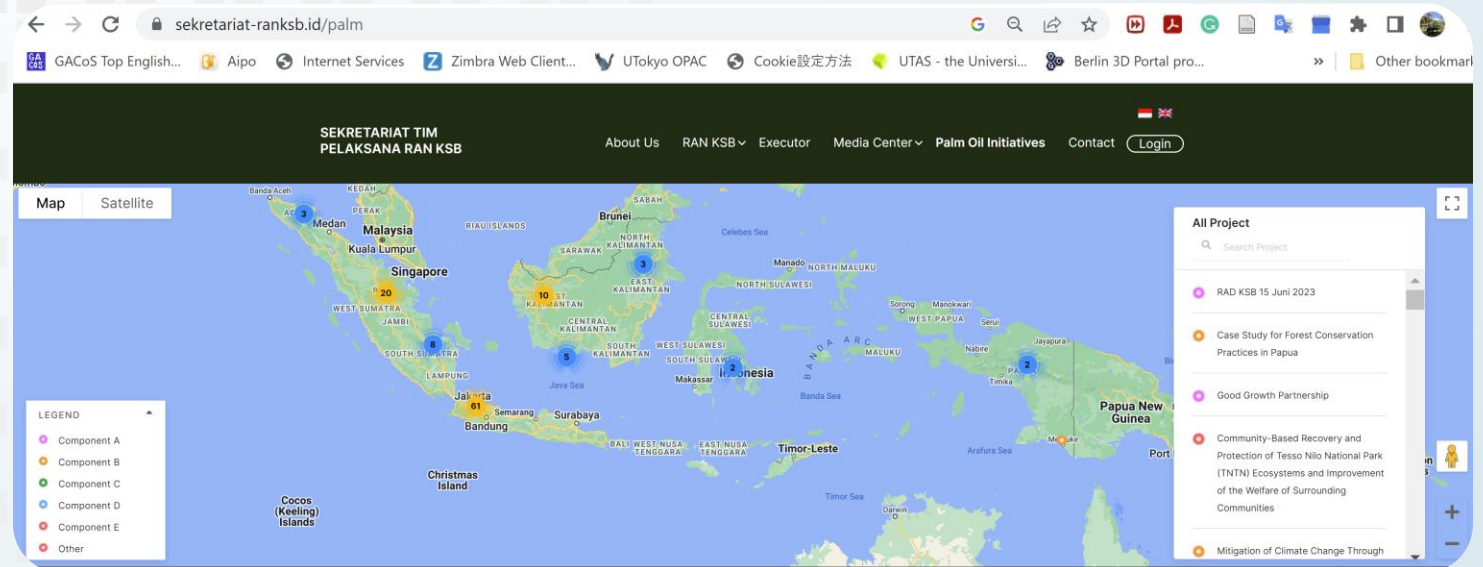
#1 Peta Data Nusantara

BerAKHLAK
Berorientasi Pelayanan Akuntabel Kompeten
Harmonis Loyal Adaptif Kolaboratif



Communication and engagement through:

- ✓ Coordination meeting
- ✓ Formulation of inter-ministerial Task Force
- ✓ System for monitoring and evaluation report



REMARKS



#1 Peta Data Nusantara

BerAKHLAK
Berorientasi Pelayanan, Akuntabel, Kompeten,
Harmonis, Adaptif, Inovatif



- ❑ **One Map Policy has strengthened the utilization of authoritative geospatial information to support the national strategic development**
- ❑ **The use of IGIF approach resulted in increased collaboration among ministries and agencies toward one data palm oil initiative**
- ❑ **Benefits of IGIF implementation for sustainable palm oil plantation include:**
 - ✓ **Centralized, integrated and authoritative geospatial data for policy development and decision-making process**
 - ✓ **Improved productivity on existing palm oil plantation**
 - ✓ **Reduced land conflict and deforestation**





#1 Peta Data Nusantara

BerAKHLAK
Berorientasi Pelayanan, Integritas & Kompeten,
Harmless, Jujur & Berkeadilan



TERIMA KASIH



bangga
melayani
bangsa

 www.big.go.id

 badan informasi geospasial

   @infogeospasial

 +62 21 8753155
 info@big.go.id

 Jalan Raya Jakarta – Bogor KM.46
Cibinong, Bogor Jawa Barat 16911