



LEMBAGA ILMU PENGETAHUAN INDONESIA
(INDONESIAN INSTITUTE OF SCIENCES)



Data Management in Research Center for Oceanography – Indonesian Institute of Sciences

Bayu Prayudha

www.lipi.go.id

- Introduction
- Data Management System
- Status of Data and Information
- Future Development

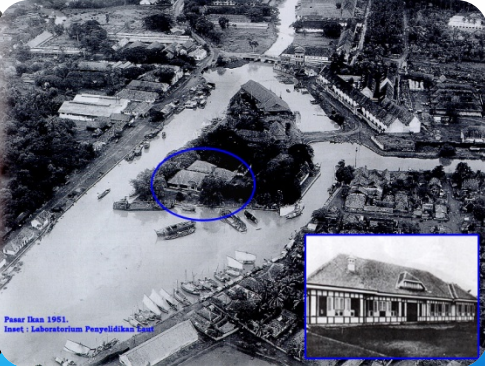
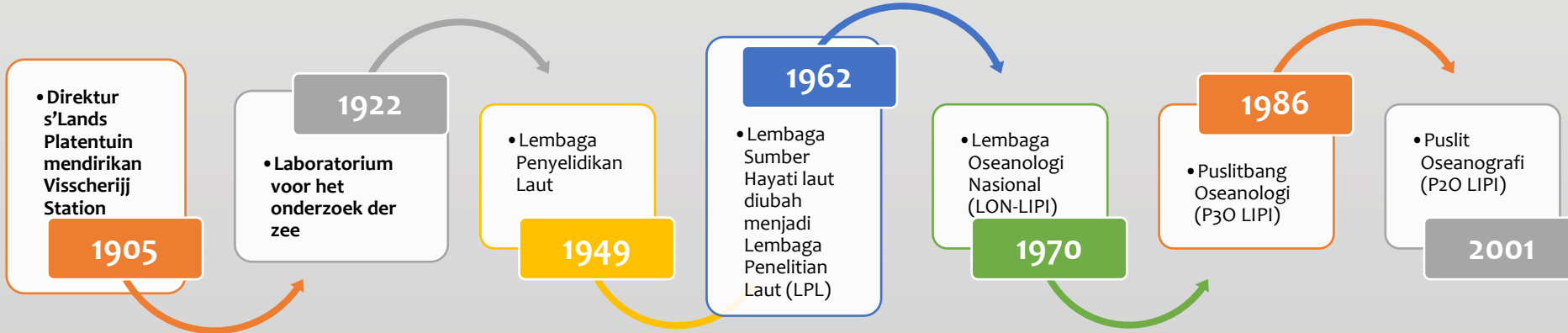
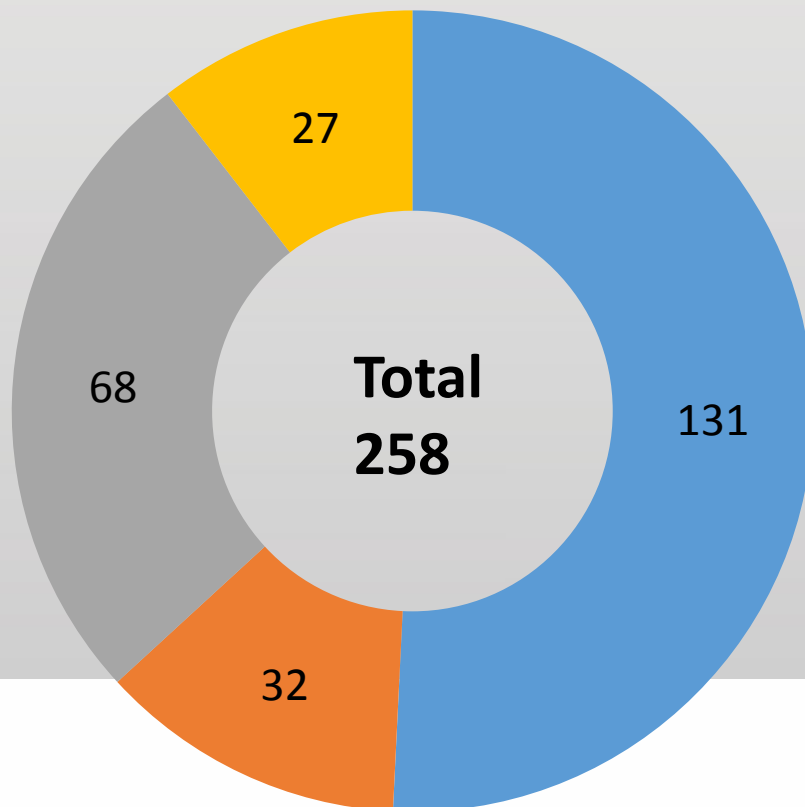


Foto: Ihsan 1961. Inset: Laboratorium Penyelidikan Laut

Foto: P. J. Van der Woude, 1905. Inset: Laboratorium Penyelidikan Laut



12 Laboratories

- researchers
- research assistants
- administrative staff
- research vessel crews

RV. BARUNA JAYA VIII



GWT: 1250 T
LOA: 50.0 m



Our organisations



Director

Administration Division

Finance Sub Div

General Affairs Sub Div

Human Resources Sub Div

Research Facilities Division

RV Management Sub Div

Instruments Facilities Sub Div

Research Data Management & Dissemination Division

Research Data Management Sub Div

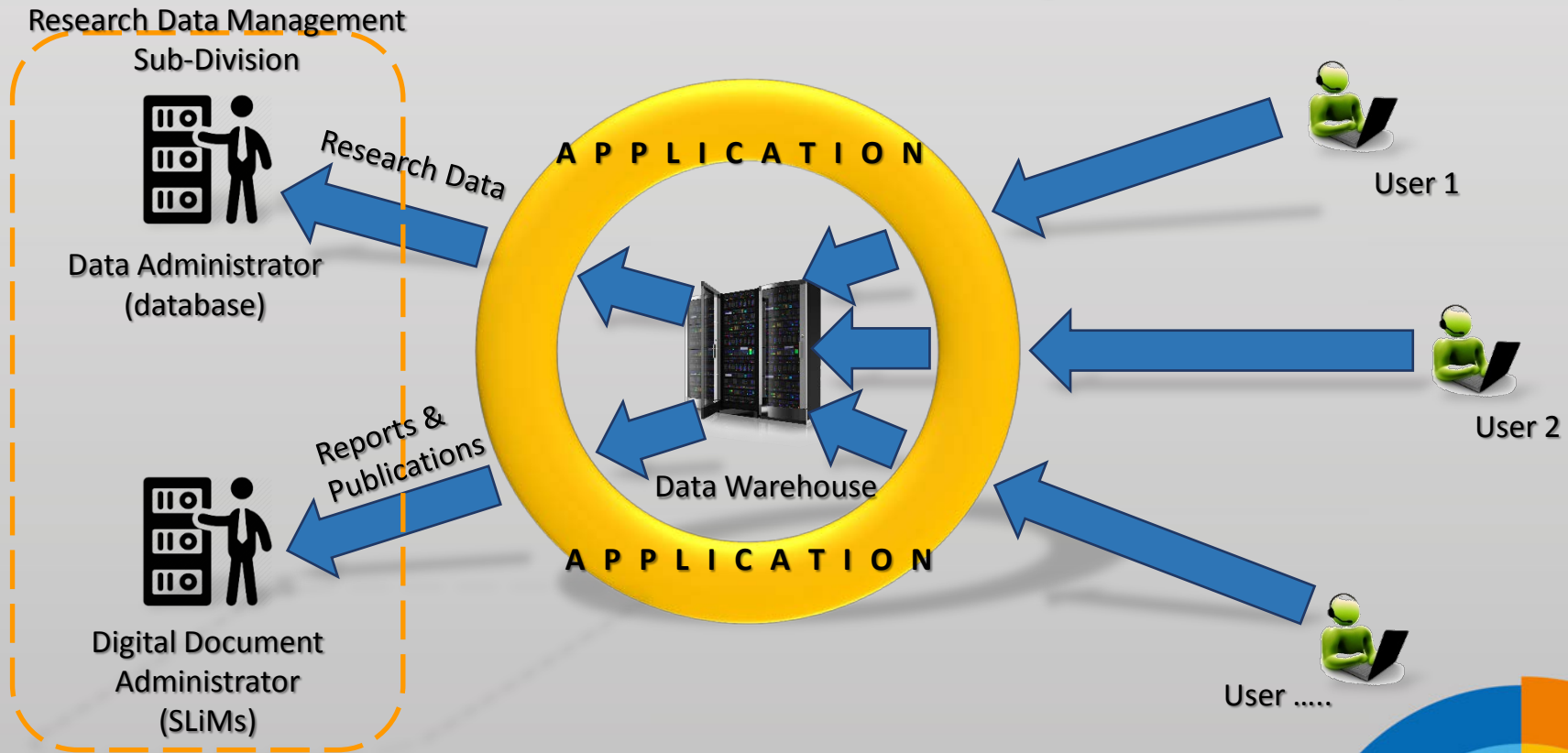
Research Dissemination & Cooperation Sub Div

Research Groups

Issue on Data Management

- Data are scattered, vulnerable (lost), and untraceable
- Procedure of data collection
- Procedure/regulation of data sharing

Data Management System



Data Sharing Policy

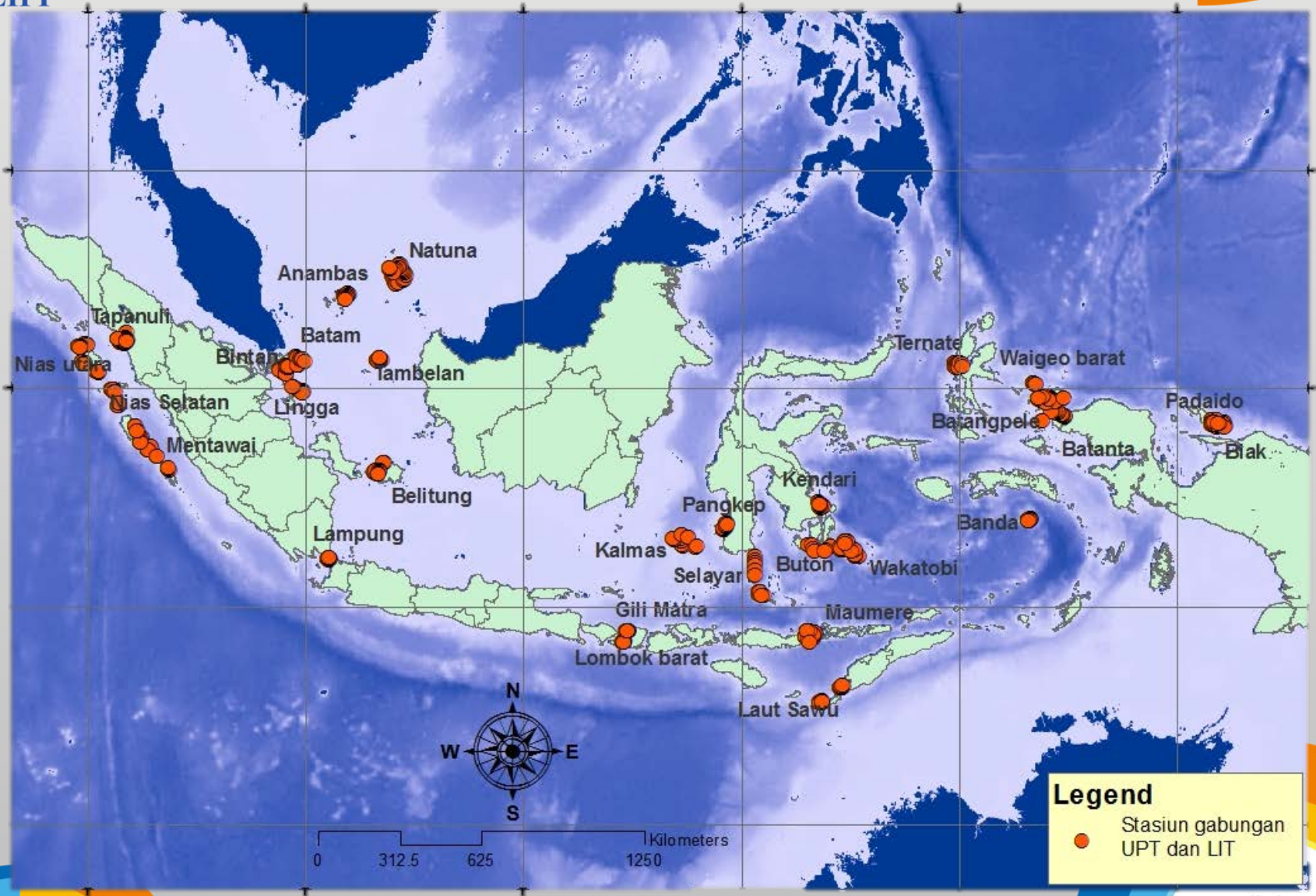
- Open Data → information, published data, general data (list of species of reference collection), and re-scale data
- Limited Data → unpublished data, after certain period (5 years) can be accessed by other researchers in the institution (RCO). Data can be released to external parties/stakeholders through licensing and cooperation agreement.
- Confidential Data → Data or Information that is excluded under the Act of Public Information Disclosure No. 14 of 2008.

Type of Data	Data Source	Location	Description
Ecological Data (Coral reef, Seagrass, and Mangrove)	Field survey (monitoring program)	30 locations spread throughout Indonesia under national program on coral reef management (COREMAP-CTI)	Data available from 2004 until 2016
Reef Distribution/Map	Satellite imagery	Throughout Indonesia	One-map policy
Habitat map of shallow water (coral, seagrass, and mangrove)	Satellite imagery and field survey	30 locations spread throughout Indonesia under national program on coral reef management (COREMAP-CTI)	Conducted in 2014 and 2015 Will be updated in 2019



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Distribution of Ecological Data





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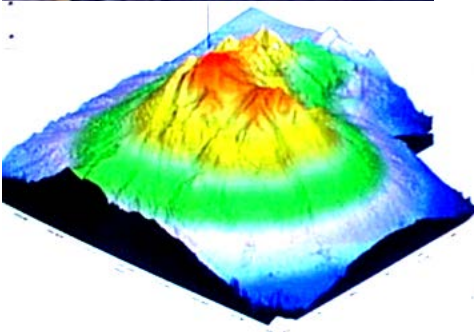
Recent Data

Type of Data	Data Source	Location	Description
Physics data: Temperature, salinity, density, turbidity, conductivity, current, depth Chemical data: pH, ammonia, nitrite, nitrate, phosphate, silicate, TSS, DO Biological data: Chlorophyll	Oceanographic Cruise Report	Indonesian Waters	1970 - now
	Field survey/in-situ measurement	Makassar Strait	Ekspedisi Widya Nusantara (EWIN) in 2013
		Sulawesi Sea	Ekspedisi Widya Nusantara (EWIN) in 2014
		Enggano	Ekspedisi Widya Nusantara (EWIN) in 2015
		Sumba	Ekspedisi Widya Nusantara (EWIN) in 2016
		The west coast of Sumatera	Ekspedisi Widya Nusantara (EWIN) will be in 2017

EXPEDITION OF WIDYA NUSANTARA (E-WIN)

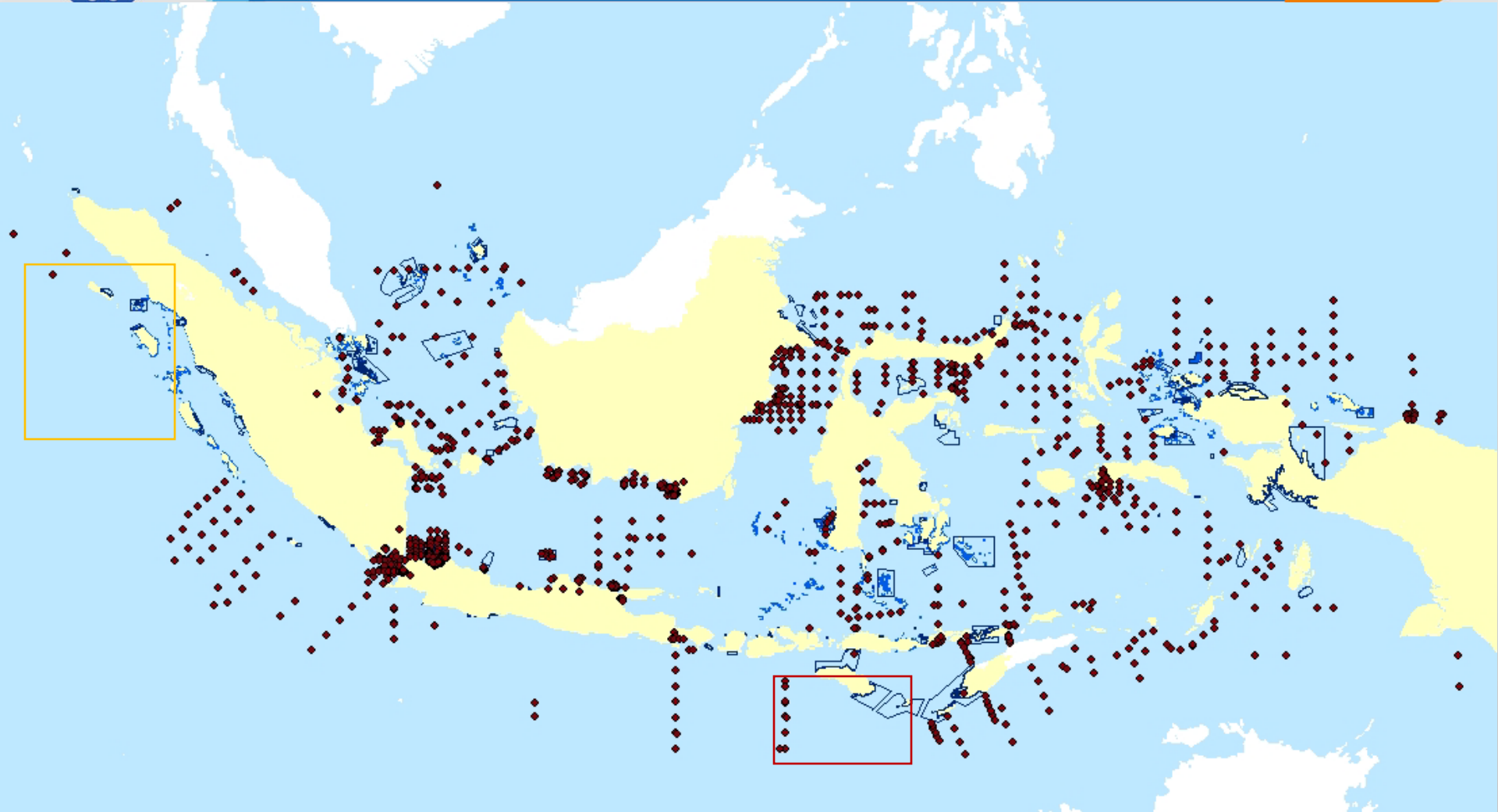
INTEGRATED RESEARCH AMONGST MULTI-DISCIPLINES AND SECTORS IN MARINE AND COASTAL REGIONS, AND SELECTED SMALL ISLANDS

- Unique of Indonesian Archipelago
- Diversity of biology, ethnic, culture
- Limited information from the region
- New Discoveries
- Politic: Many small islands as bordered islands.
- Celebration the 40th of Science in Indonesia

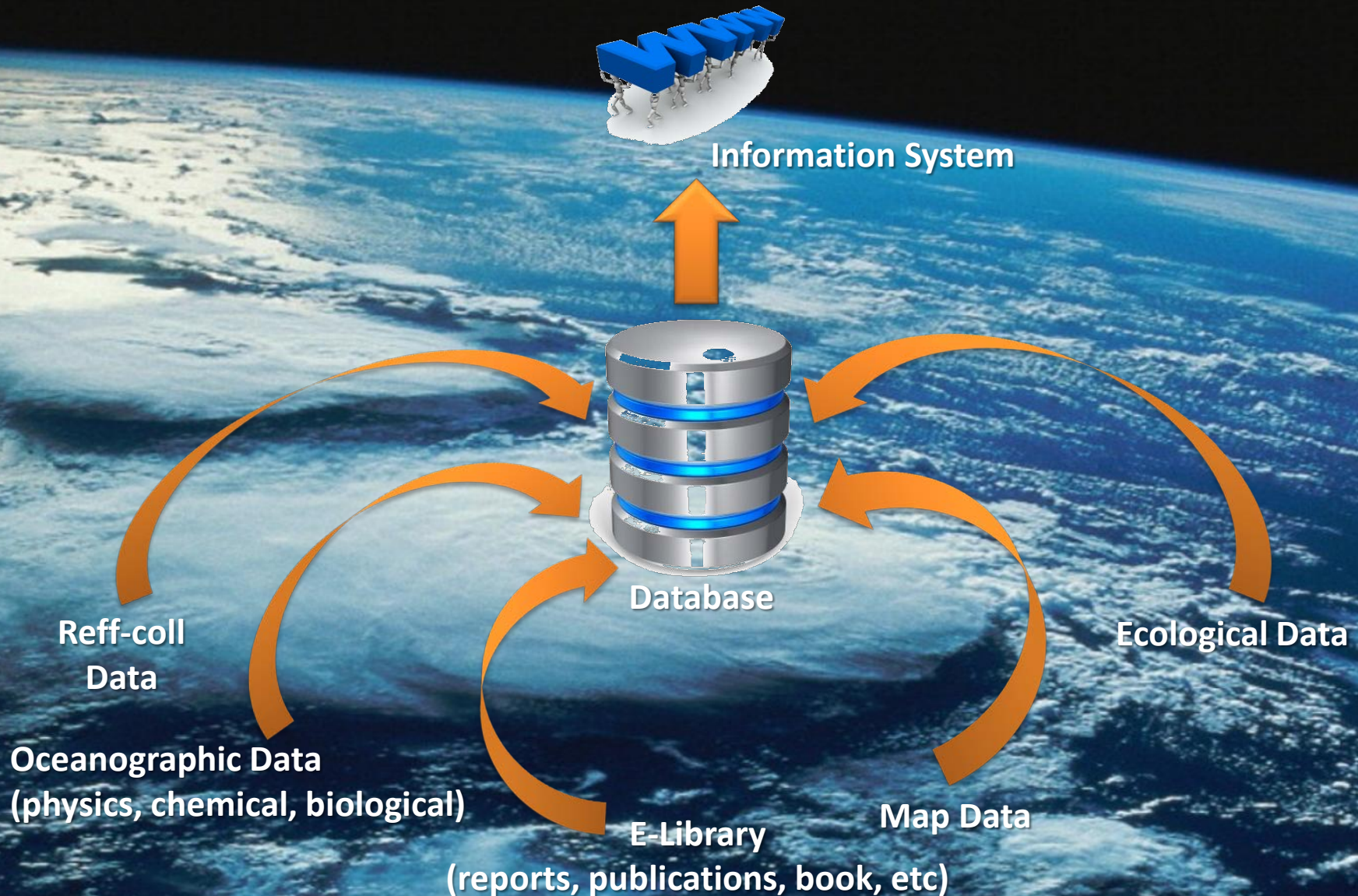




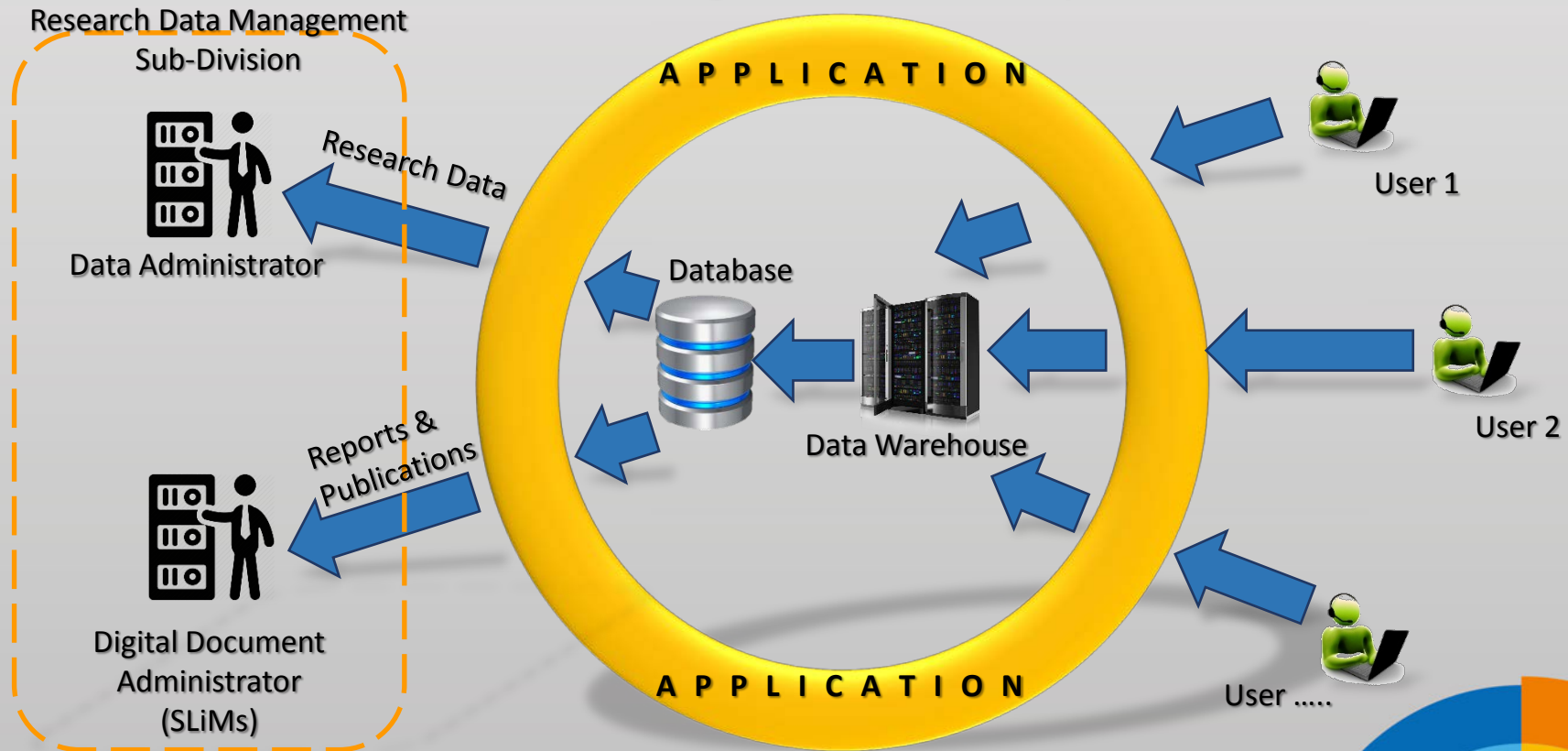
Distribution of Oceanographic Data



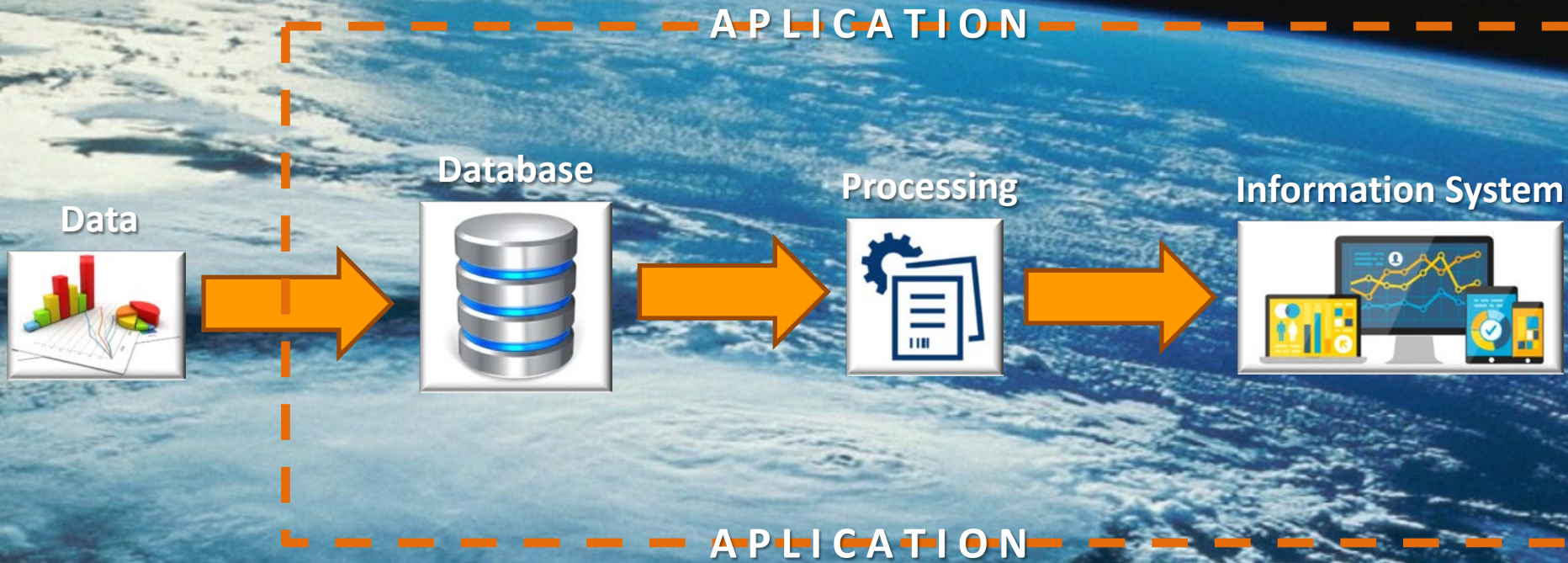
Database Integration Design



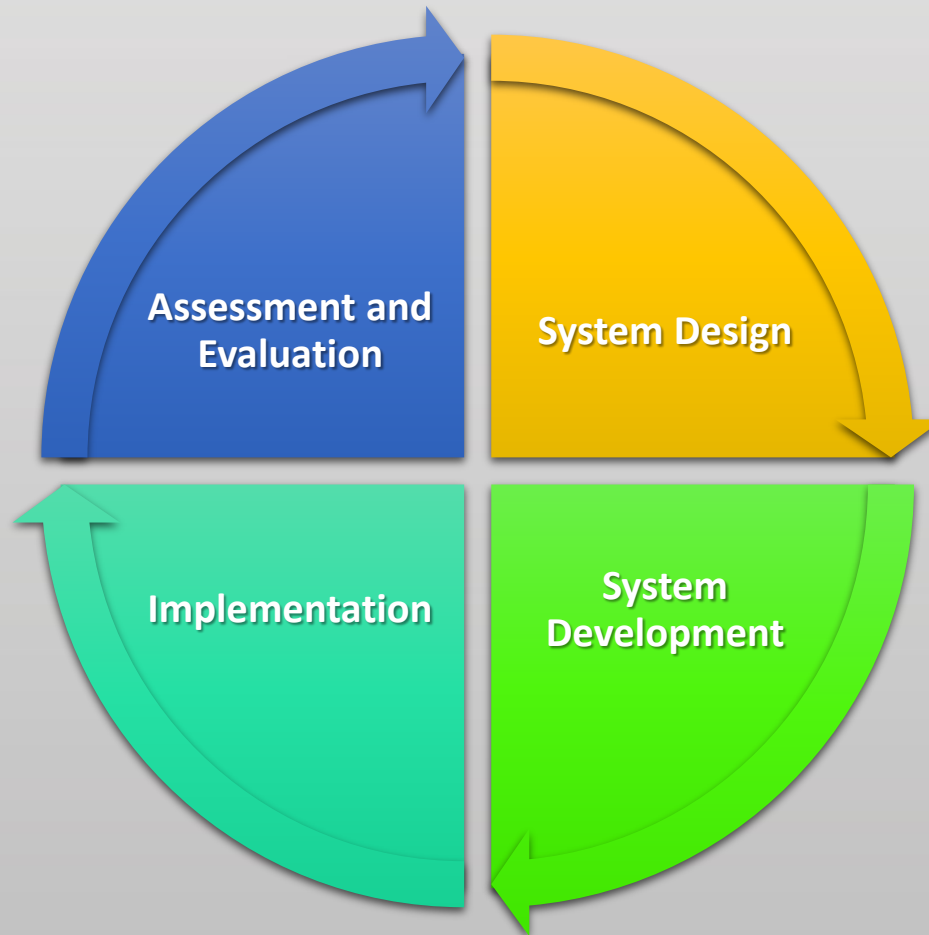
Data Management System (Future)



Future Development



Cycle of System Development



A satellite is shown in the lower-left quadrant, with its solar panels and instruments visible. The background is a vast view of Earth from space, showing a thin blue atmosphere and a bright sun in the upper right. The text "THANK YOU" and "TERIMA KASIH" is centered in the middle of the image, with a reflection effect below it.

THANK YOU
TERIMA KASIH