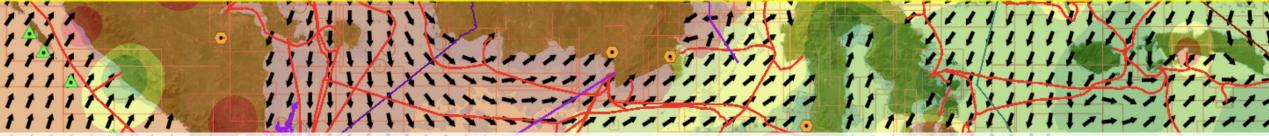


INTERNATIONAL SEMINAR ON UNITED NATIONS GLOBAL GEOSPATIAL INFORMATION MANAGEMENT "effective and integrated marine geospatial information management"



"INTEGRATION OF MARINE SPATIAL DATA BETWEEN PUSHIDROSAL AND OTHER INSTITUTIONS"

Capt. Agus Sutrianto



HYDROGRAPHIC OFFICES (HOS) SHOULD DEVELOP, SUPPORT, AND PROMOTE MARINE SPATIAL DATA INFRASTRUCTURES (MSDI)





World Hydrography Day in 2024 "Hydrographic Information - Enhancing Safety, Efficiency and Sustainability in Marine Activities".

HYDROGRAPHIC rnational Interr rographic Hydro **INFORMATION USE FOR:** anization Orga □ PRIMARILY FOR NAVIGATION. □ MARITIME TRADE Organisation 0 Hydrographique ENVIRONMENTAL PROTECTION Internationale □ SUSTAINABLE FISHING NATURAL RESOURCES □ INFRASTRUCTURE CONSTRUCTION Interr rnational rographic Hydro Organ anization □ SEARCH AND RESCUE □ SCIENTIFIC RESEARCH. Organisation HO IHO IHO Hydrographique Hydrographique Hydrographique Hydrographique Internationale Internationale Internationale Internationale

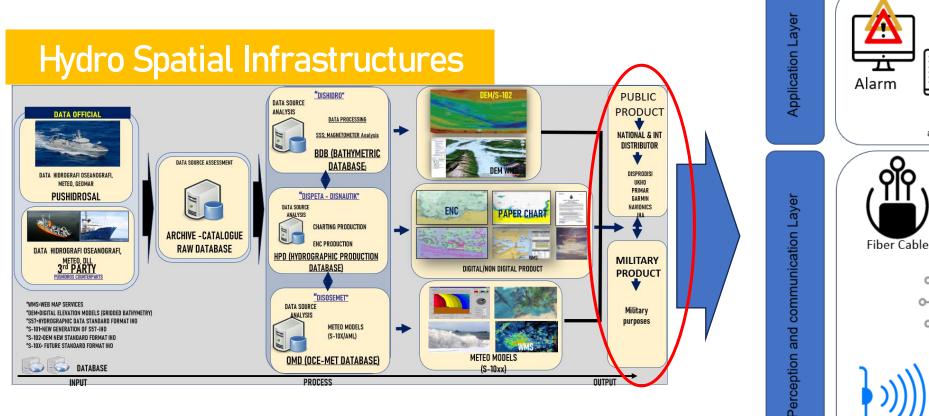


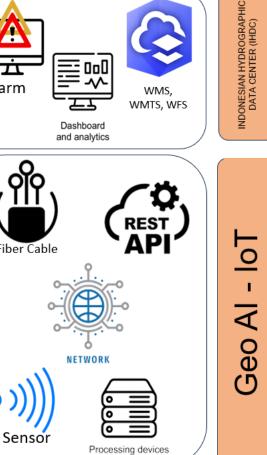


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FLOWCHART OF HSI AND MSDI

MSDI









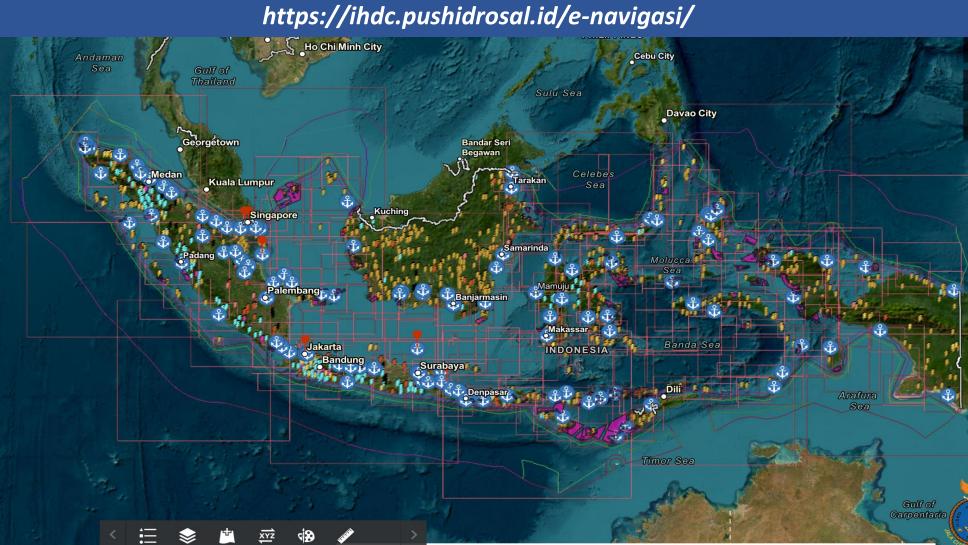


👗 е	-Navigasi PUSHIDROS TNI AL Ter	nukan a
📚 Daf	ftar Layer –	×
Layer	Q	
• 🗸	Kawasan Konservasi 2022	•••
• 🗸	st_pasut_realtime	•••
• 🗸	Infopel 2023	
•	Sebaran_Sedimen_Permukaan_Dasar_ Laut	
•	Sebaran_Gravity_Core_Laut	
• 🗸	Pembangkit_Listrik	
•	Zona_Kerentanan_Likuefaksi	
•	Well_E	
•	KRB_Gunung_Api_Titik	
•	WilayahPertambangan	
• 🗸	Batas Maritim	
•	MAWS_PUSHIDROSAL	•••
•	Pulau NKRI	
•	Pasut BIG	
•	Landing_Point	

VA JAYAN

INDONESIAN HYDROGRAPHIC DATA CENTER (IHDC)

IHO















AIOc/1W Bo4M

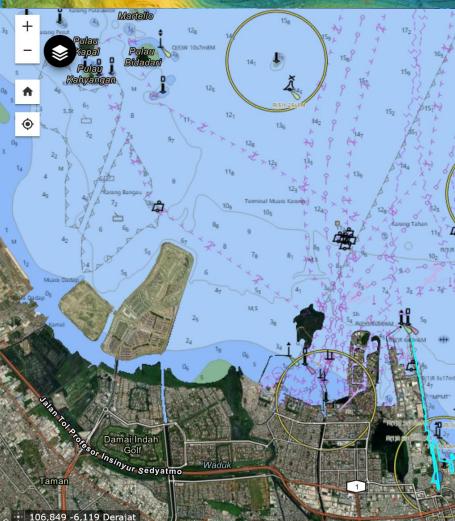
Koja

IHO

1



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Identify Results (1 dari 18)					
ID400086		2 C			
Feature: Description: Geometry: Usage: Compilation Sca	SLCONS Shoreline con Line Approach le: 45000	struction			
CATSLC: pier (SCAMIN: 2600 SORDAT: 2020 ID,ID	00	All the second se			
Perbesar hingga	Less Info				





RAIN FALL

14 Apr 2023

16:55:44 WIB Apr 14 2023 9:55AM

111.92 BT 6.6

632 km

erbesar hingga More Info

Pusat gempa berada di laut

68 km BaratLaut Tuban

V Kuta, IV Karangkates, IV

Coordinates -6.29,111.92 6.29 L S

Data Real Time

BMKG

Banjarmasin

(1 dari 2)

Tanqqa

DateTime

intanc

Magnitude

Kedalaman

Wilayah

Potensi

Dirasakan

gempa bmkg

IHO

E-NAVIGASI (BASEMAP ENC) **METEOROLOGI & OCEANOGRAPHY DATA REAL TIME BASEMAP LAYER INFORMATION** stasiunAncol nama stasiu data pasut Jambi kec. angin arah angir curah huia ampiran **TEMPERATURE &** idak ditemukan lampiran apa pun WIND DATA WIND DIRECTION HUMIDITY alembang Sumatera Selatan **Data Tide Stations** Pushidrosal Sensor O Power O Interoperability Data Tide Stations Lanpung **Geospatial Information Agency 237 TIDES STATION** Serang

Cirebon

National Team Of

Standardization Of Land Gazetirs

Jakarta

Bogor

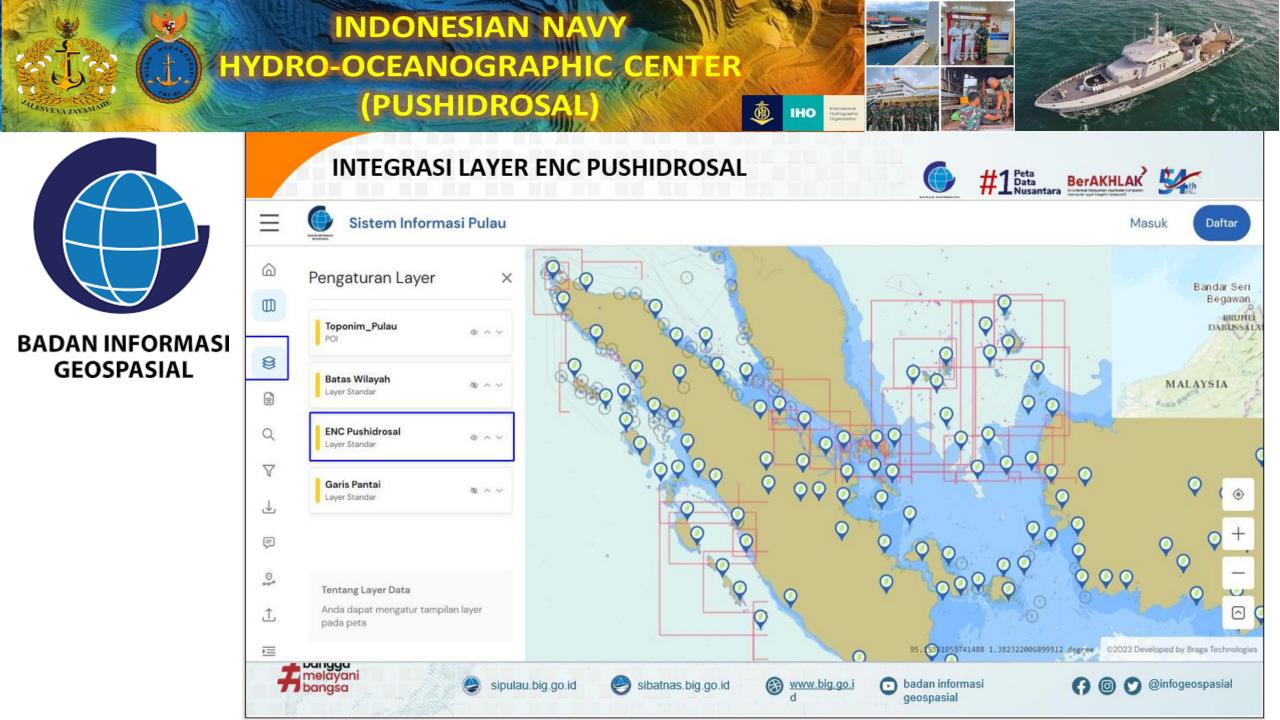
Sukabumi Bandung

Banten

collaborates at IHDC

-5,744 Derajat

60mi





Situbondo

Leaflet | Powered by Esri | Esri, HERE, Garmin, FAO, NOAA, USGS



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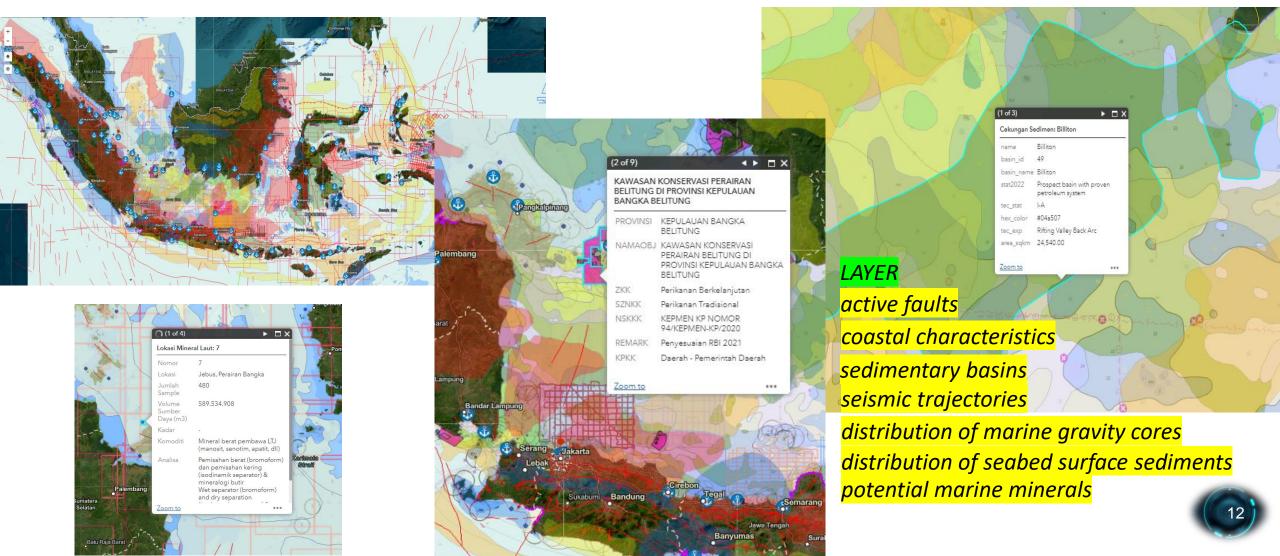
Sertifikasi Signed by BSrE utk Dokumen Digital

^ 댿 ▣ 및 ⊄³⁾ 28/02/2024

1



Interoperability Data With Ministry of Energy and Mineral Resources of the Republic of Indonesia

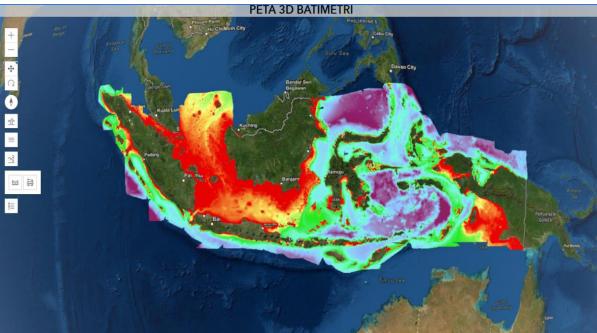


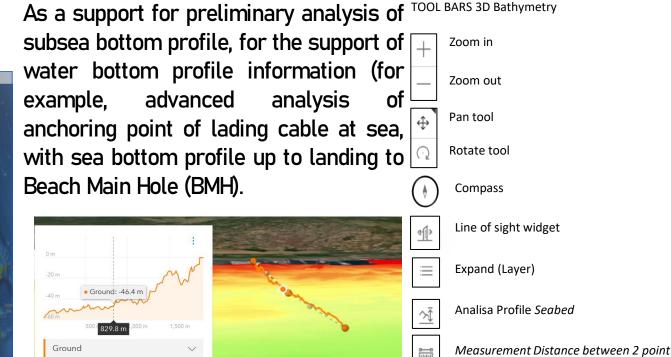


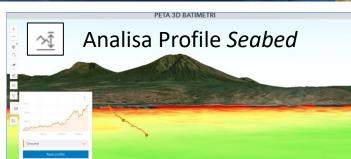
Measurement Area

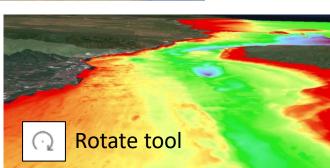
Profil Bathymetry

3D Bathymetry

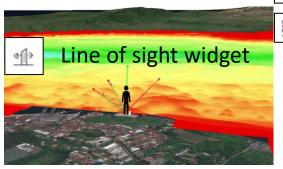








New profile







IHO

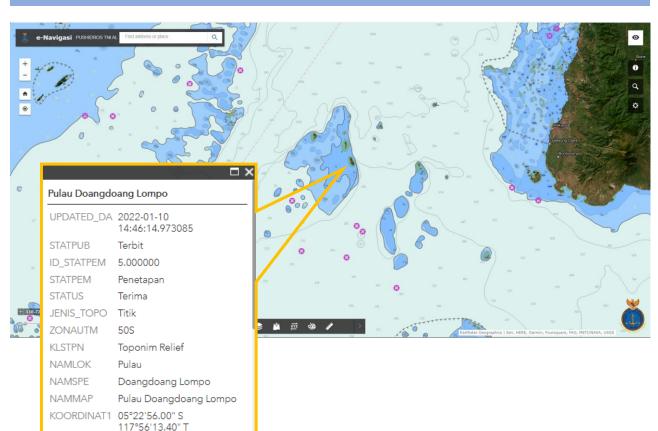


STATIC DATA

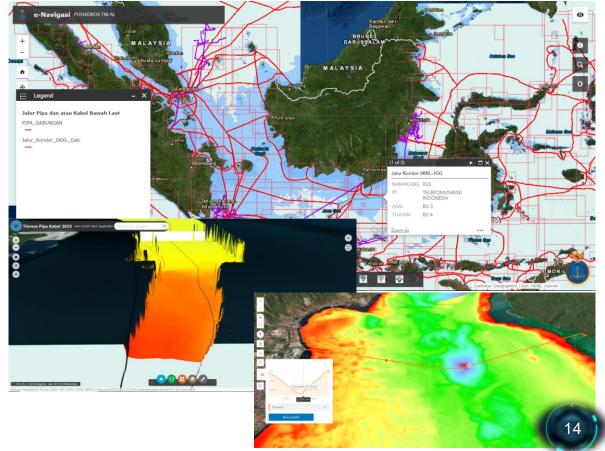
Zoom to

NATIONAL TEAM OF STANDARDIZATION OF LAND GAZETIRS

NATIONAL TEAM OF UNDER WATER PIPE AND CABLE



...





METEROLOGY, CLIMATOLOGY AND GEOPHYSICS AGENCY

NATIONAL GEOSPATIAL INFORMATION AGENCY

NATIONAL SEARCH AND RESCUE AGENCY

DIRECTORATE GENERAL OF SEA TRANSPORTATION (DGST)

lakass

HYDOGRAPHIC OFFICE

MEETING MSDI WG 15

Banjarmasin

Surabaya

Malang

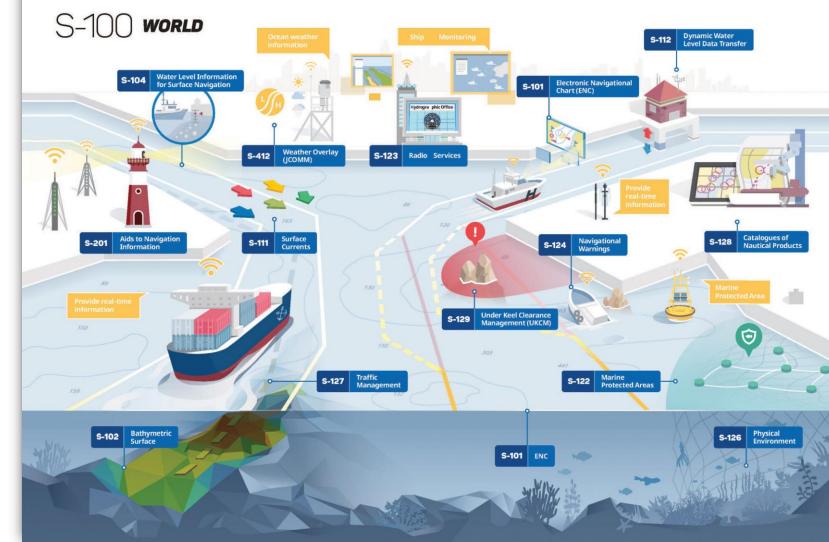


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Roadmap for the S-100 Implementation Decade (2020 – 2030)

The S-100 Implementation Priorities

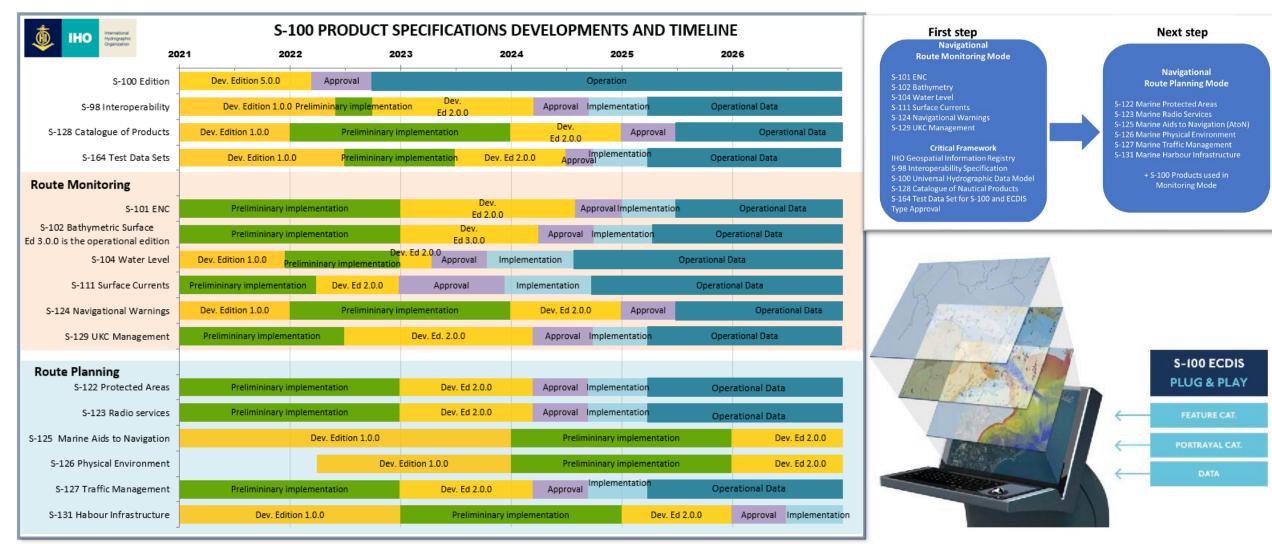
-	Table A – IHO list of S-100 products with special focus				
	First step – Route monitoring mode				
-	S-101	Electronic Navigational Chart (ENC)			
	S-102	Bathymetric Surface			
	S-104	Water Level Information for Surface Navigation			
	S-111	Surface Currents			
	S-124	Navigational Warnings			
	S-129	Under Keel Clearance Management			
	Critical Framework				
		IHO Geospatial Information Registry			
	S-98	Interoperability Specification			
	S-100	Universal Hydrographic Data Model			
	S-128	Catalogue of Nautical Products			
	S-164	Test Data Set for S-100 and ECDIS Type Approval			
	Second step – Ro	oute planning mode			
	S-122	Marine Protected Areas			
	S-123	Marine Radio Services			
-	S-125	Marine Aids to Navigational (AtoN)			
3	S-126	Marine Physical Environment			
	S-127	Marine Traffic Management			
	S-131	Marine Harbour Infrastructure			



SVEVA JAYAM



S-100 TIMELINE FOR THE PRIORITIZED IHO PRODUCT SPECIFICATIONS







S-111 Surface Currents

S-104 Water Level Information
S-102 Bathymetric Surface

S-124 Navigational Warnings

S-124 Navigational Warnings
S-129 Under Keel Clearance Management

G S-123 Marine Radio Services

S-125 Marine Aids to Navigational (AtoN)

S-101 Electronic Navigational Chart (ENC)
S-102 Bathymetric Surface
S-104 Water Level Information
S-122 Marine Protected Areas

METEROLOGY, CLIMATOLOGY AND GEOPHYSICS AGENCY (BMKG)

NATIONAL GEOSPATIAL INFORMATION AGENCY (BIG)

NATIONAL SEARCH AND RESCUE AGENCY (BASARNAS)

DIRECTORATE GENERAL OF SEA TRANSPORTATION (DGST)

HYDROGRAPHIC OFFICE (PUSHIDROSAL)



