

# WEND-100 from an IGIF Approach

John Nyberg

## WEND-100 Principles - Background

- *The current version of WEND-100 (in its entirety) is initially intended for S-101.*
- *The Principles have been followed by an implementation guide that includes specifics for additional S-1XX products and services.*
- *The WEND-100 Principles will be aimed at S-1XX products that are under the purview of the IHO. However, this does not prevent other S-1XX products from aligning with them. **This includes MSDI***

## WEND-100 Principles - Background

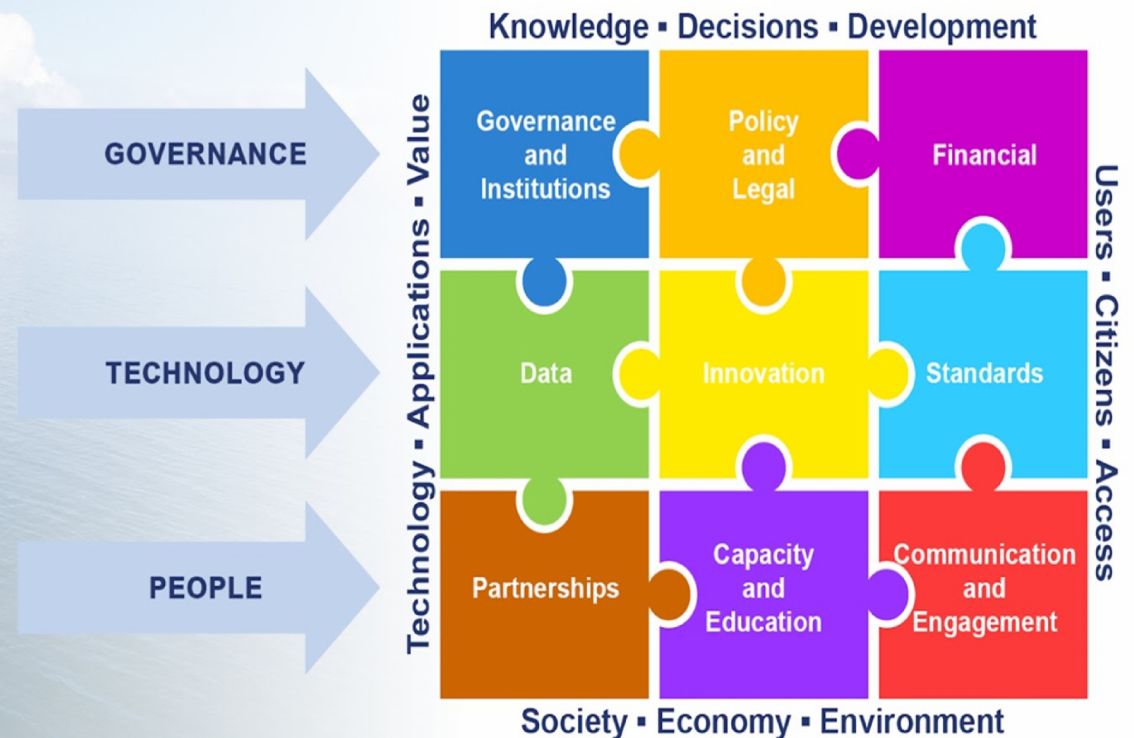
- *It still encourages **data availability** anywhere in the world, distribution through compatible and **coordinated** networks, **standardization**, authority of service, and **data protection**.*
- *It also addresses the avoidance of service duplication, **coordinated data management**, **quality management**, and assistance and training.*
- ***Capacity Building** is explicitly noted in the Principles as a request for MS to contribute.*

# IHO Strategic Plan 1.3.1

Ability and capability of Member States to meet the requirements and delivery phases of the S100 implementation plan (2026: 50%).



The Integrated Geospatial Framework provides a basis and guide for developing, integrating, and strengthening geospatial information management.



Anchored by nine Strategic Pathways, the Framework is a mechanism for articulating and demonstrating national leadership in geospatial information, and the capacity to take positive steps.

# WEND-100 Matrix

	A	B	C			E	F	G			H	I	J	K			L	M	N	O			P
1			S-101 (ENC)					S-102 (Bathy Surface)						S-104 (Water Levels)						S-111 (Surface Currents)			
2			Readiness Level	Readiness Description	Score		Readiness Level	Readiness Description	Score		Readiness Level	Readiness Description	Score		Readiness Level	Readiness Description	Score		Readiness Level	Readiness Description			
3	Governance and Institutions	Governance and Institutions (A)		The product is part of a documented national or regional institutional plan, custodianship (a managing organization) has been identified and has accepted the management responsibility. All has been agreed at the national authority and RHC level.	11.10	Governance and Institutions (B)		The product is part of a documented national institutional plan, custodianship (a managing organization) has been identified and has accepted the management responsibility. The policy has been endorsed at the national level but NOT at the RHC level.	8.40	Governance and Institutions (A)		The product is part of a documented national or regional institutional plan, custodianship (a managing organization) has been identified and has accepted the management responsibility. All has been agreed at the national authority and RHC level.	11.10	Governance and Institutions (A)		The product is part of a documented national or regional institutional plan, custodianship (a managing organization) has been identified and has accepted the management responsibility. All has been agreed at the national authority and RHC level.							
4		Policy and Legal (B)		Product has a documented policy regarding data protection, licensing, sharing and liability. The policy has been endorsed by the national authority but NOT at the RHC level.	8.40	Policy and Legal (B)		Product has a documented policy regarding data protection, licensing, sharing and liability. The policy has been endorsed by the national authority but NOT at the RHC level.	8.40	Policy and Legal (B)		Product has a documented policy regarding data protection, licensing, sharing and liability. The policy has been endorsed by the national authority but NOT at the RHC level.	8.40	Policy and Legal (B)		Product has a documented policy regarding data protection, licensing, sharing and liability. The policy has been endorsed by the national authority but NOT at the RHC level.							
5		Data (C)		Product is supported through national data collection and is NOT regionally agreed as suitable. There is a regular process for data supply to update product that ensures suitable update cycle for product.	5.70	Data (D)		Product has been produced but data is not regularly applied for updates.	3.00	Data (C)		Product is supported through national data collection and is NOT regionally agreed as suitable. There is a regular process for data supply to update product that ensures suitable update cycle for product.	5.70	Data (C)		Product is supported through national data collection and is NOT regionally agreed as suitable. There is a regular process for data supply to update product that ensures suitable update cycle for product.							
6		Financial (E)		This product is not being considered by any hydrographic office in the region.	0.00	Financial (B)		The product is supported by a business model that includes current funding sources, obligations, financial risks, and future investments has been completed. An agreed upon business case that justifies funding and investment has been completed. The product has a documented, well defined socio-economic value. All has been agreed at the national level, NOT at the RHC level.	8.40	Financial (E)		This product is not being considered by any hydrographic office in the region.	0.00	Financial (E)		This product is not being considered by any hydrographic office in the region.							
7		Innovation (D)	Financial (A) Financial (B) Financial (C) Financial (D)		Product has been produced, but is NOT available for use to influence national technological advances, innovation, and academic uses.	3.00	Innovation (D)		Product has been produced, but is NOT available for use to influence national technological advances, innovation, and academic uses.	3.00	Innovation (D)		Product has been produced, but is NOT available for use to influence national technological advances, innovation, and academic uses.	3.00	Innovation (D)		Product has been produced, but is NOT available for use to influence national technological advances, innovation, and academic uses.						
8		Standards (C)	Financial (E)		Product is built using IHO standard that is in version 2.0.0 or earlier (S-102 must be version 2.0.0 or earlier). Standard is considered to be managed by IHO and in the process of being endorsed by the IHO Member States.	5.70	Standards (C)		Product is built using IHO standard that is in version 2 or earlier (S-102 must be version 2.0.0 or earlier). Standard is considered to be managed by IHO and in the process of being endorsed by the IHO Member States.	5.70	Standards (C)		Product is built using IHO standard that is in version 2 or earlier (S-102 must be version 2.0.0 or earlier). Standard is considered to be managed by IHO and in the process of being endorsed by the IHO Member States.	5.70	Standards (C)		Product is built using IHO standard that is in version 2 or earlier (S-102 must be version 2.0.0 or earlier). Standard is considered to be managed by IHO and in the process of being endorsed by the IHO Member States.						
9	Partnerships (C)			The product is NOT distributed through a Regional ENC Center (RENC). Product principles (transboundary arrangements) have NOT been agreed upon at the RHC level. Product stakeholders have been included in product development.	5.70	Partnerships (C)		The product is NOT distributed through a Regional ENC Center (RENC). Product principles (transboundary arrangements) have NOT been agreed upon at the RHC level. Product stakeholders have been included in product development.	5.70	Partnerships (C)		The product is NOT distributed through a Regional ENC Center (RENC). Product principles (transboundary arrangements) have NOT been agreed upon at the RHC level. Product stakeholders have been included in product development.	5.70	Partnerships (D)		The product is NOT distributed through a Regional ENC Center (RENC). Product principles (transboundary arrangements) have NOT been agreed upon at the RHC level. Product stakeholders have NOT been included in product development.							
10	Capacity and Education (C)			Product availability has NOT been promoted through the RHC, including the needs, values and benefits of the product. Opportunity for training on how to produce and use the product is available throughout the RHC region at a significant cost to Member States.	5.70	Capacity and Education (C)		Product availability has NOT been promoted through the RHC, including the needs, values and benefits of the product. Opportunity for training on how to produce and use the product is available throughout the RHC region at a significant cost to Member States.	5.70	Capacity and Education (C)		Product availability has NOT been promoted through the RHC, including the needs, values and benefits of the product. Opportunity for training on how to produce and use the product is available throughout the RHC region at a significant cost to Member States.	5.70	Capacity and Education (C)		Product availability has NOT been promoted through the RHC, including the needs, values and benefits of the product. Opportunity for training on how to produce and use the product is available throughout the RHC region at a significant cost to Member States.							
11	Communication and Engagement (D)			The product has been produced, but product narrative has NOT been developed. Potential relationships, including advocates, partners, users and third parties have NOT been identified.	3.00	Communication and Engagement (D)		The product has been produced, but product narrative has NOT been developed. Potential relationships, including advocates, partners, users and third parties have NOT been identified.	3.00	Communication and Engagement (D)		The product has been produced, but product narrative has NOT been developed. Potential relationships, including advocates, partners, users and third parties have NOT been identified.	3.00	Communication and Engagement (D)		The product has been produced, but product narrative has NOT been developed. Potential relationships, including advocates, partners, users and third parties have NOT been identified.							
12			Total:	48.30		Total:	51.30			Total:	48.30		Total:	45.60									
<div><div>&lt; &gt;</div><div>Master Sheet</div><div>ARHC   RHC   USCHC   Data   +</div></div>																							



## Financial Description

The product is supported by a business model that includes current funding sources, obligations, financial risks, and future investments has been completed. An agreed upon business case that justifies funding and investment has been completed. The product has a documented, well defined socio-economic value. **All is agreed upon at the national and RHC levels.**

The product is supported by a business model that includes current funding sources, obligations, financial risks, and future investments has been completed. An agreed upon business case that justifies funding and investment has been completed. The product has a documented, well defined socio-economic value. **All has been agreed at the national level, NOT at the RHC level.**

The product is supported by a business model that includes current funding sources, obligations, financial risks, and future investments has been completed. An agreed upon business case that justifies funding and investment has been completed. The product has a documented, well defined socio-economic value. **NONE has been endorsed by national or RHC levels.**

Product has been produced, but the business model, business case, and socio-economic value have not been documented or identified.

This product is not being considered by any hydrographic office in the region.

### Innovation Description

Product is globally available for use to influence technological advances, innovation, and academic uses **at no cost**.

Product is globally available for use to influence technological advances, innovation, and academic uses **for a cost and with use limitations**.

Product is available **only for national governmental use** to influence national technological advances, innovation, and academic uses.

Product has been produced, but is **NOT available for use** to influence national technological advances, innovation, and academic uses.

This product is not being considered by any hydrographic office in the region.



# Matrix Values

- 100% = 9 pathways equal to A, so A value is 11.11

- 75% = 9 pathways equal to B, so B value is 8.33

- 50% = 9 pathways equal to C, so C value is 5.56

- 25% = 9 pathways equal to D, so D value is 2.78

- 0% = 9 pathways equal to E, so E value is 0.

# WENDWG Repository

Please remember to visit the WENDWG Repository for:

WEND 100 Principles

Responses to survey on the production of HD ENC's

And

WEND100 IGIF Matrix!

<https://iho.int/en/wendwg-repository>

# Thank You!

[John.Nyberg@noaa.gov](mailto:John.Nyberg@noaa.gov)