



# MBSHC

## Capacity Building Activities

(Report to MBSHC)

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# Cartographic Data Management & Marine Spatial Data Infrastructure (05-09 December 2022)

The workshop included 11 participants from Bulgaria, Romania, Ukraine, Georgia, Lebanon, Malta, Türkiye, Montenegro, Albania, Spain, and Italy.



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# IHO Capacity Building Work Plan-2023

## (Activities incorporated into the CBWP23 by CBSC)

Year	Event	Budget
2023	Workshop on MSI Development & Implementation (P-06)	Funded by IHO (15,500 €) (Postponed to 2024&executed)
	Workshop on Disaster Response (P-14)	Not Funded by IHO (Postponed to 2024)
	Workshop on ENC Quality Assessment (P-21)	Not Funded by IHO (Postponed to 2024)

# IHO Capacity Building Work Plan-2024

## (Activities incorporated into the CBWP24 by CBSC)

Year	Event	Budget
2024	Workshop on Disaster Response (P-11)	Not Funded by IHO (Postponed Activity, CBWP 2023/P-14)
	Workshop on Disaster Response (P-12)	Not Funded by IHO yet.
	Workshop on ENC Quality Assessment (P-16)	Not Funded by IHO (Postponed Activity, CBWP 2023/P-21) Funded under the IC-ENC 'Opt In Fund' (50.000 USD) with the name 'ENC Quality Assessment&Conversion Course'. The event took place between May 20th and May 24th, 2024.
	Workshop on MSI Development & Implementation (P-29)	Funded by IHO (15,500 €) (Postponed Activity, CBWP 2023/P-06) The event took place between May 7th and May 9th, 2024.



# Activities in 2024

## Workshop on MSI Development & Implementation 7-9 May 2024, İstanbul

- 2023 CBWP P-06&2024 CBWP P-29
- The workshop included 13 participants from Bulgaria, Romania, Ukraine, Georgia, Lebanon, Malta, Türkiye, Montenegro, Croatia, Italy.

Resources	
Allocated	Spent
15.500 €	12.353 €



# Activities in 2024

## Workshop on MSI Development & Implementation 7-9 May 2024, İstanbul



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# Activities in 2024

## ENC Quality Assessment&Conversion Training

20-24 May 2024, İstanbul



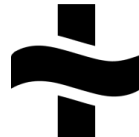
- 2023 CBWP-21&2024 CBWP-P16
- The training included 12 participants from Bulgaria, Egypt, Georgia, Greece, Lebanon, Morocco, Romania, Slovenia, Tunisia, Thailand, and Türkiye.

Resources	
Allocated	Spent
50.000 \$	34,134 \$



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24th MBSHC Meeting Constanta, 2-4 July 2024

# Activities in 2024

## ENC Quality Assessment & Conversion Training

20-24 May 2024, İstanbul

- IC-ENC Members are supporting an 'opt in' fund, whereby a portion of their national ENC revenue is set aside for other projects.
- **16** Members have 'opted in' to this new scheme
- 450,000 USD generated for projects for 2024
- Projects supported are for a range of activities including Standards Development, Training and IHO Capacity Building Activities





## Contribution from the RENCs

- CBSC Chair reported in IRRC16 that the PRIMAR Advisory Committee will discuss similar approach in November 2024.



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## Contribution from the RENCs

- Singapore Lab Conversion Workshop 6-10 November 2023, Singapore
- IC-ENC supported the IHO-Singapore Innovation Lab Conversion workshop by part funding.
- 1 country attended from the MBSHC Region (Greece).



# Planned Activities in 2024

Year	Event	Budget
2024	Workshop on Disaster Response	Planned not funded yet by IHO
	S-100 Migration Planning	If funded by IC-ENC



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## Contribution from the RENCs

not limited to...

- PRIMAR: full e-learning package for five Non-RENC Members, up to five persons per MS.
- IC-ENC: “opt in” initiative for both Members and Non-RENC Members (via Regional Commissions CB Coordinators)
- IC-ENC: Technical Conference for Members
- IC-ENC: e-learning package Learning Management System (LMS) (for Members)



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## Contribution from UKHO

- UKHO supply multibeam equipment and software to the State Hydrographic Service of Ukraine, to support safe navigation in the region.



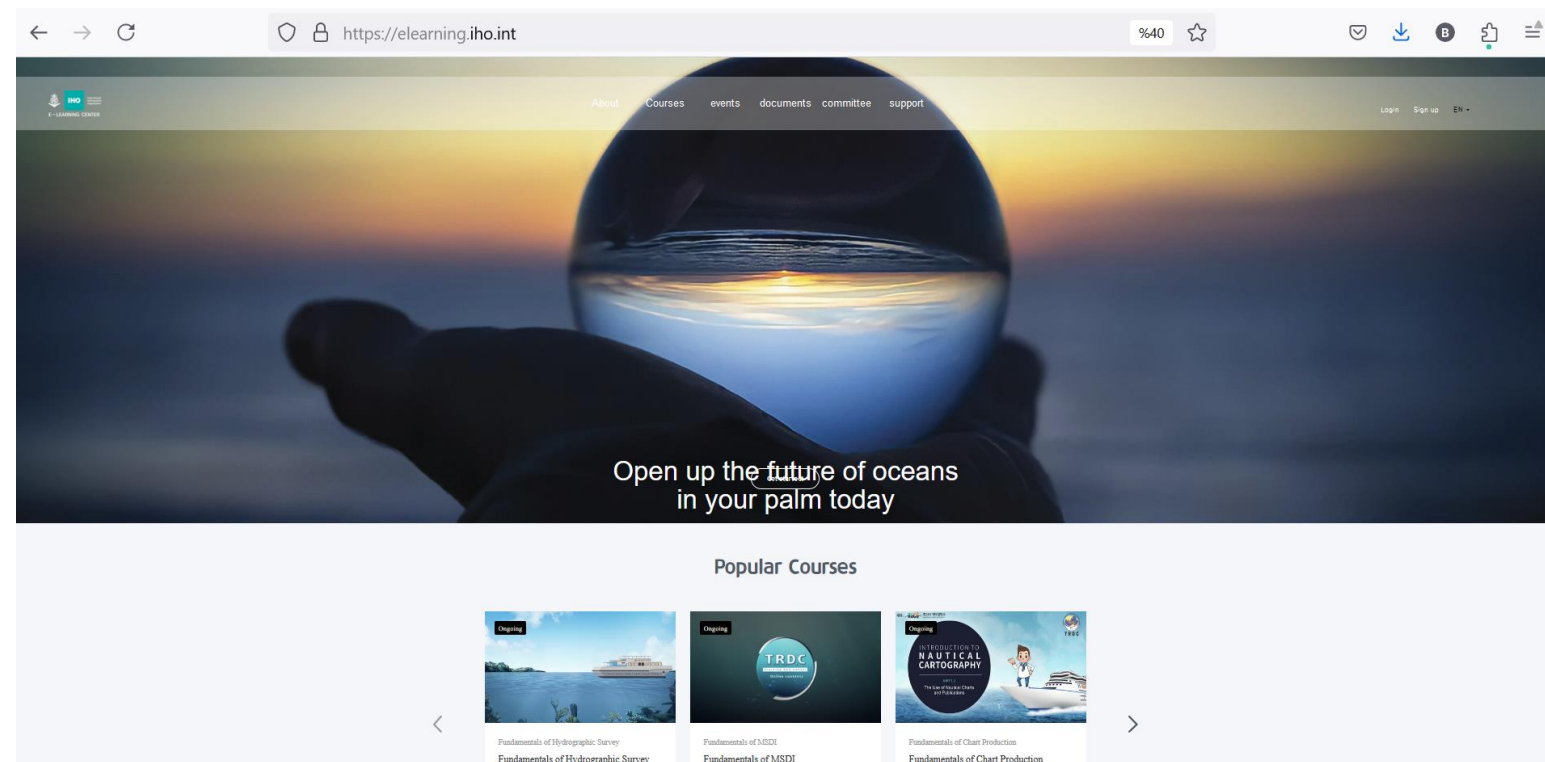
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# IHO e-Learning Center

- New e-Learning courses added
- New links to e-Learning courses added
- Website improved

- IHO e-Learning Centre Steering Committee (SC) continue to seek eLearning Material from Member States and partner organisations to be added to the eLearning Centre Platform.





## International Training

- A representative from Romania attended Cat-B Geospatial Marine Analysis and Cartography (GEOMAC) Course at UKHO, with a NIPPON funded placement (July-December 2023)
- A representative from Türkiye is attending Hydrography Cat-A Master of Science Program at University of Southern Mississippi/USA, with a Republic of Korea funded placement (August 2023-August 2024)



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## Problems Encountered

- CBSC engagement (3 RHCs were unable to attend CBSC22 in person)
- Training Engagement (2-4 seats remained vacant for the training)
- Limited CB fund
- Need of Phase 2-3 Training



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# Discussion Paper to CBSC22

**Subject:** Addressing Challenges in MBSHC CB Activities and Supporting IHO Strategic Plan Objective 1.

## Comments:

- It would be beneficial to align the CB Work Plan with the IHO Strategic Plan Goal 1, which focuses on enhancing the safety and efficiency of maritime navigation.
- It may also be helpful to review existing CB procedures in more depth.

## Recommendations:

- Proportional Budget Allocation
- S100 Roadmap Support
- Meeting Location (Monaco)(very symbolic)
- Resource Commitment

**Result: ??**



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# IHO Capacity Building Work Plan-2025

(Proposed Activities by the MBSHC CB Coordinator and Decision of CBSC)

Course	Phase of the Training	Notes
MSDI and Database Management	Phase 1	Not funded by CBSC yet
Hydrographic Survey with Unmanned Survey Vessels	Phase 2	Not funded by CBSC yet
Introduction to S100 and S1xx Products	Phase 3	Evetually by IC-ENC*
S100 Migration Planning	Phase 3	Evetually by IC-ENC*
Data Conversion, Validation and Release of S-100 Products.	Phase 3	Evetually by IC-ENC*
S57-S101 Conversion Training	Phase 3	Evetually by IC-ENC*
S102, S104 & S111 Training	Phase 3	Evetually by IC-ENC*
Use of PRIMAR Training Portal	For MBSHC; -Bulgaria and Lebanon has interest in such special training regarding S-100 and S-101. -Free for one Member State per Region per year	

*\* If IC-ENC Steering Committee decides to support IHO CB Activities and Chair Team approves the proposals.*



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# IHO Capacity Building Work Plan-2025

## Key Points

- The Work Programme allocates 60,000 €
- With additional funds stands at 189,061 € for 2025
- The accepted submissions would need funds more than 577,000 €
- Difference: -387,939 €

Submissions from the RHCs have been prioritized at CBSC22 and has decided to allocate the 2025 budget for mostly the following Activities

- Technical Visits
- Hydrographic Awareness Seminars
- Workshops (like Marine Spatial Planning Workshop)



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# IHO Strategic Plan Votes Result

IRCC16 Santa Cruz Island - Galapagos, Ecuador, 10 – 12 June 2024

Consumer confidence in S-100

Phasing out of existing products (S-57 ENC, paper charts, NAVTEX, printed pub.) (8)

Connect more to the IMO E-Navigation Strategy (21)

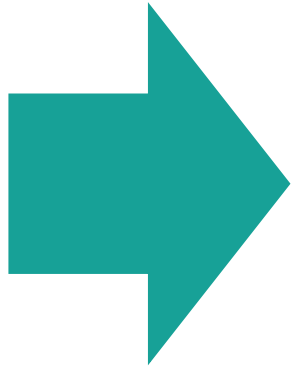
S-100 Infrastructure Center is key to support S-100 (8)

Include SDG Goals and UNGGIM references – updated guiding principles measure to reference UNIGIF-Hydro (7)

Enable IMO E-Navigation in accordance with their strategy (5)

New Survey technology to include AI post processing, automated cartography etc. (7)

Capacity Building Leave no one behind (8)



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## A Gentle Feedback

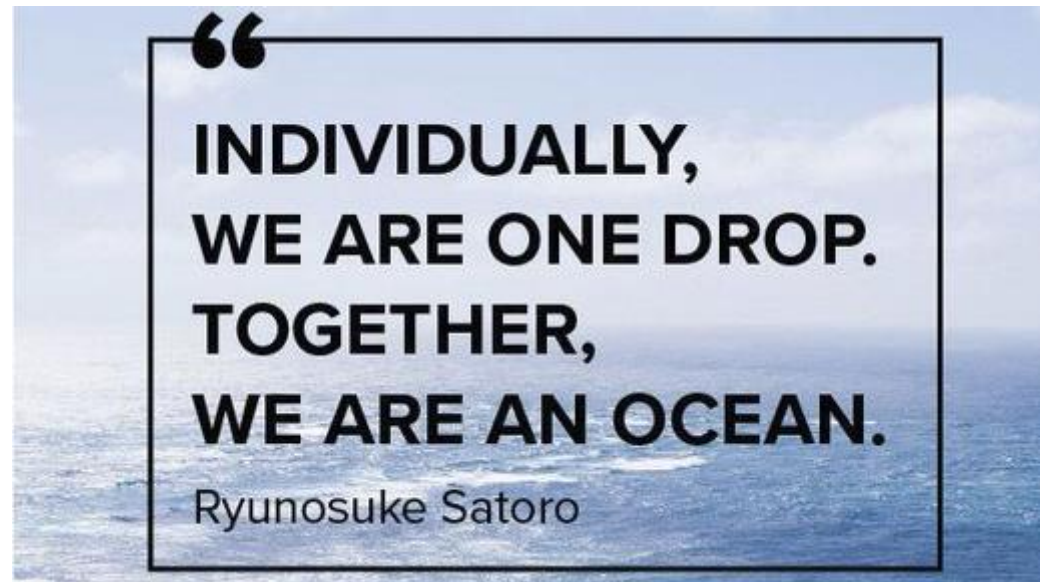
*«...We do not publish ENC's officially, but we have and work on charts. We have an old piece of software and we are able to and do produce some ENC cells. But due to not having full producing capabilities these cells are not officially issued...»*

## A Proposal to IHO

Proposed theme for WHD 202X:

### *Hydrographic Cooperation-*

- *Enhancing collaboration to ensure no one is left behind...*
- *Rising awareness to ensure no one is left behind...*



**Thank You!**  
**Any Questions?**

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