

**MBSHC22**

**March 2022**

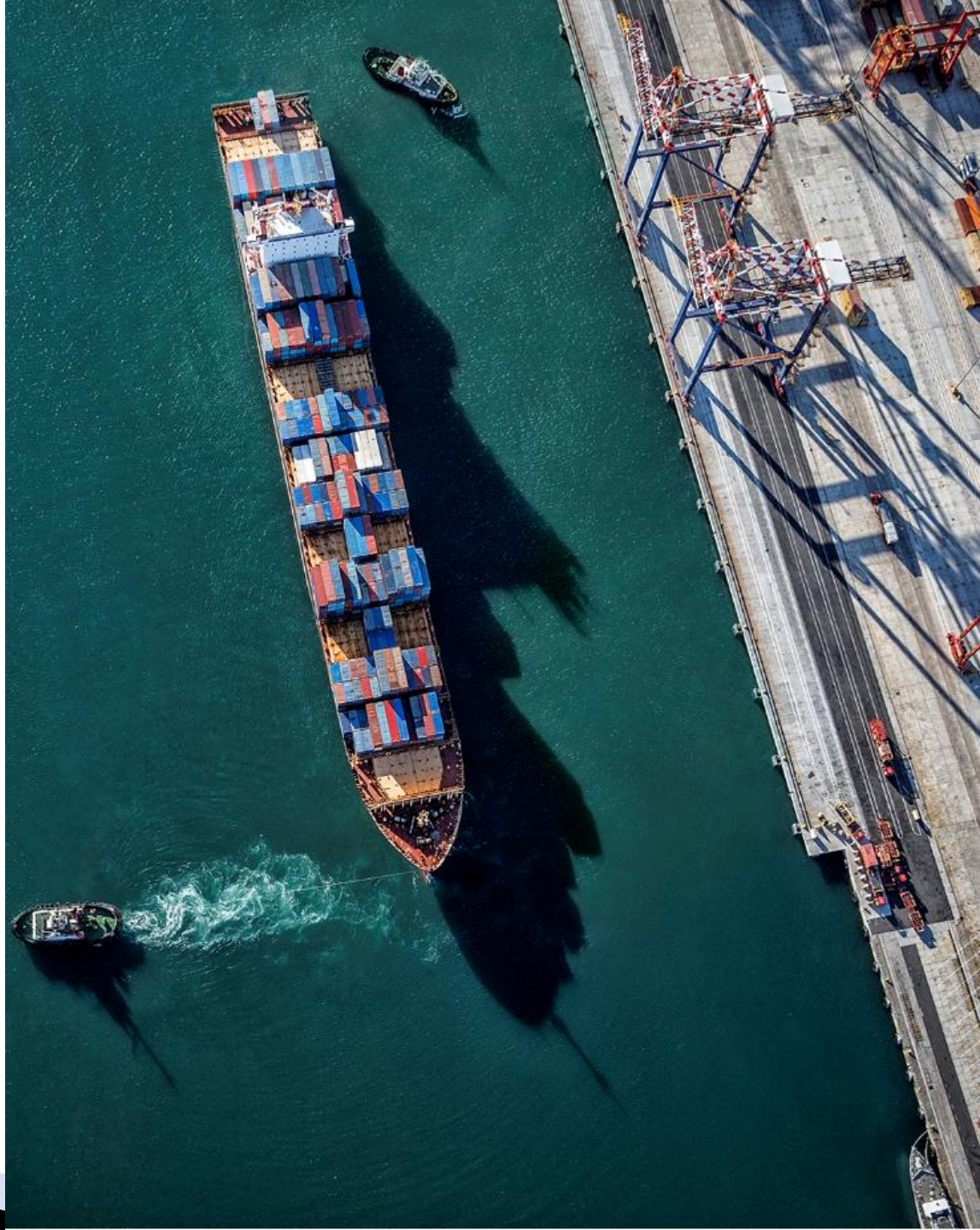
**IC-ENC Update**

James Harper  
IC-ENC General Manager

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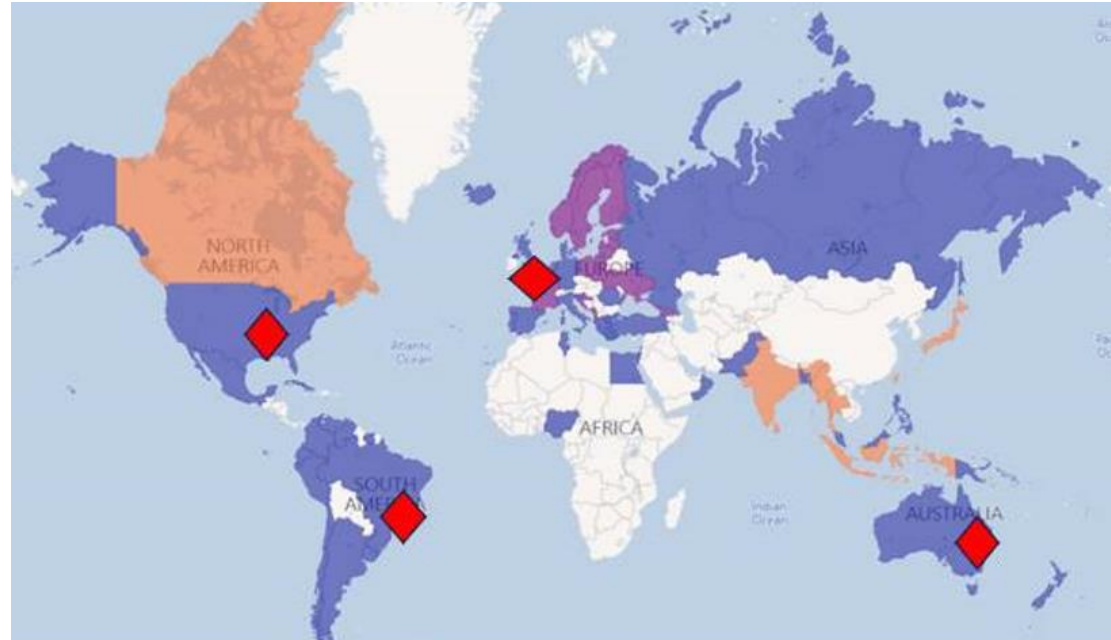
## IC-ENC Update

- Overview
- Core service summary
- Production Support (Learning Management System)
- Validation
- Distribution/Revenue Management
- S100 era services
  - Technical & Distribution progress
- Summary



## Membership

- Welcome to new IC-ENC Members this year:
  - Umhvørvisstovan (**Faroe Islands**)
  - Institute of Hydrometeorology and Seismology of **Montenegro**
  - As reported in the **Lebanon** National Report to MBSHC23, IC-ENC is working closely with LNHS with membership as part of their effort to produce and issued their first ENC's



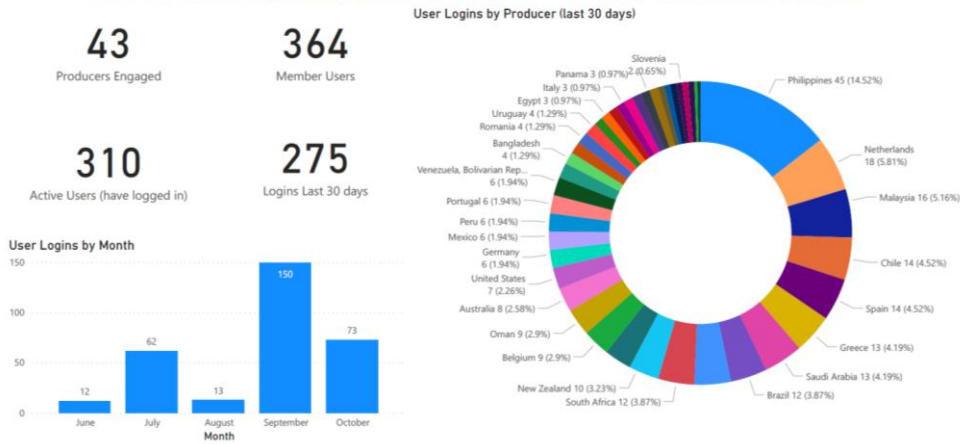
- “Member recommending Member”
- Now a total of 47 Members, ENC folio size: 9463
- International validation team operate from each regional site

# New ENC “success measures”

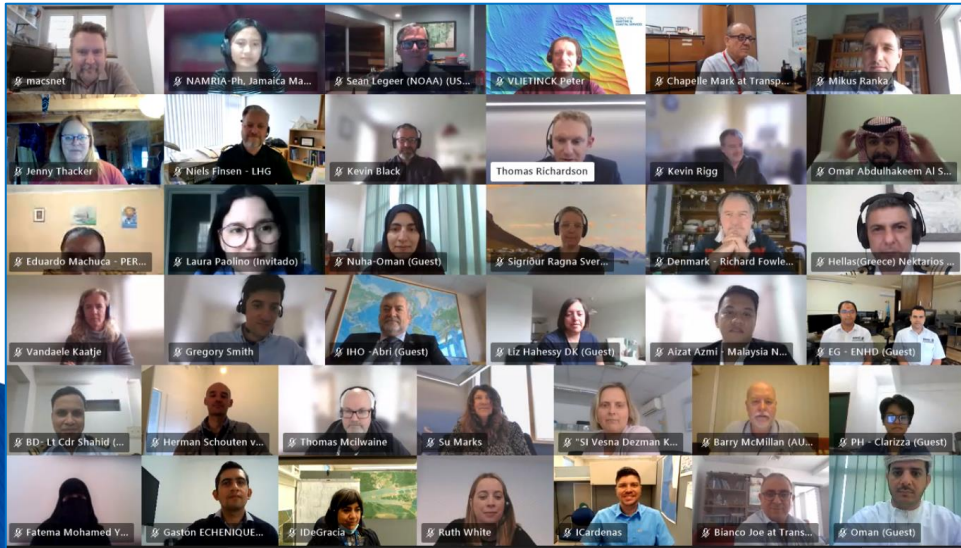
Ref	Title / Target / Measure	Comments
T1	IC-ENC Validation time: <ul style="list-style-type: none"> <li>• Updates; 3 working days</li> <li>• New Editions; 5 working days</li> <li>• New Cells; 10 working days</li> </ul>	A measure of our timeliness of service performance.
T2	IC-ENC Release; ENC's that have passed validation are released by IC-ENC within (an average of) 2 working days	A measure of our timeliness of service performance.
T3	Verification; 30 working days	A measure of our timeliness of service performance.
Q1	ENC Integrity: 100% of ENC's released to IC-ENC VARs have their integrity maintained.	A measure of our accuracy and safety of service
Q2	ENC Quality: “Urgent” ENC improvements identified by users are reviewed by IC-ENC within 2 working days, and IC-ENC re-validates/releases any resulting ENC changes within 2 working days. The other stages (HO action, VAR delivery to user) will be reported qualitatively	A measure of our timeliness, accuracy and safety of our service
Q3	Metafile Quality: (At least) 95% of exchange sets issued by IC-ENC have accurate & complete metafiles	A measure of our accuracy of our service / reduction in defects.
O1	IC-ENC's annual Net Promoter Score will improve by at least 5% on the previous year. This will be conducted in February each year.	Customer service and usability. To ensure IC-ENC services are based on meeting the requirements of the IC-ENC customer groups; Members, Value Added Resellers and Distribution Partners.

## Core service: Production Support

### IC-ENC Learning Management System - Overall Usage @20211027

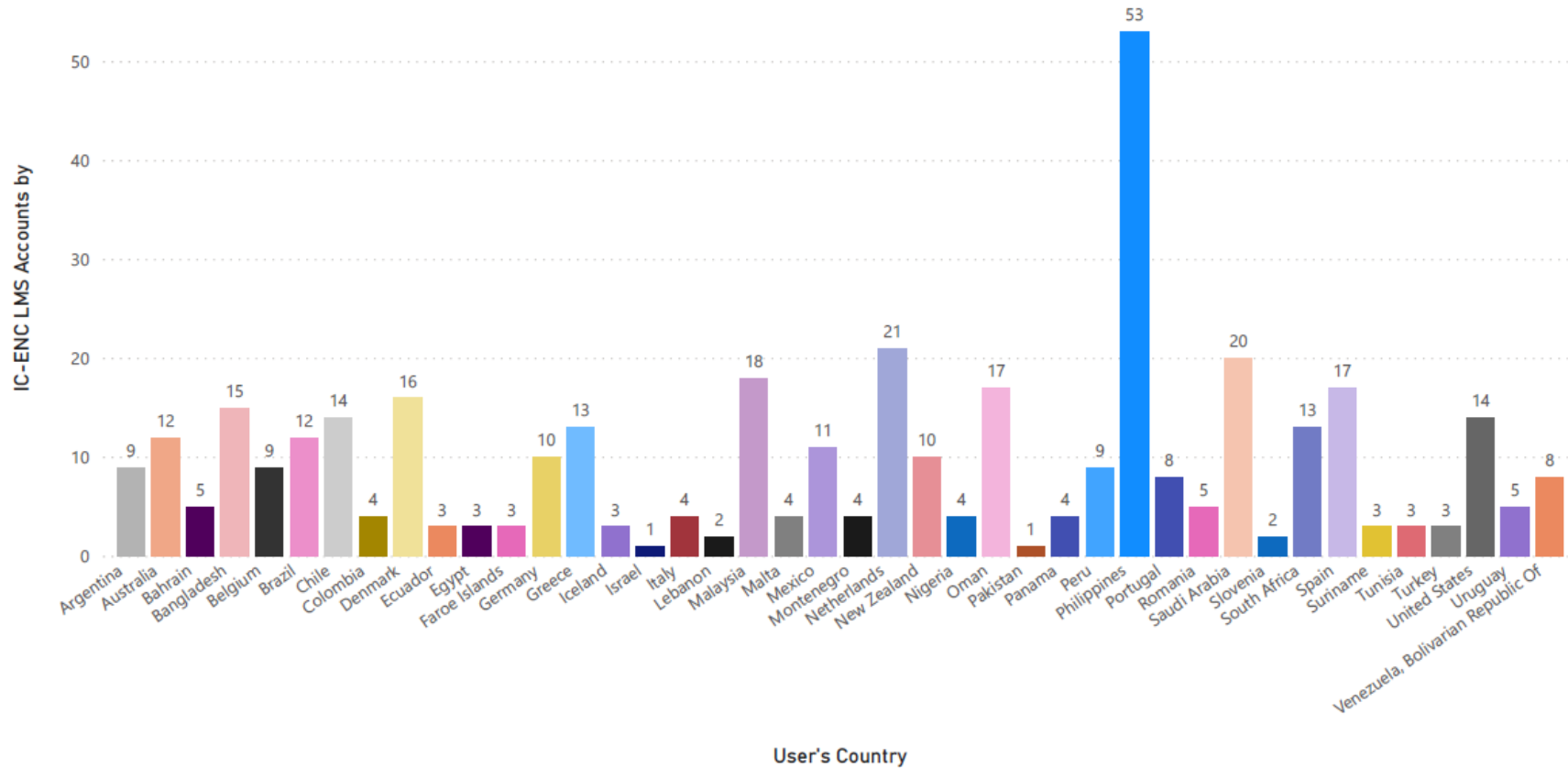


- Covid has forced us all online!
- Developed the supporting infrastructure (Learning Management System)
- Developed content and now delivering the service
- Forums/Q&A
- IC-ENC stakeholder groups: Technical Conference, Production Support Working Group



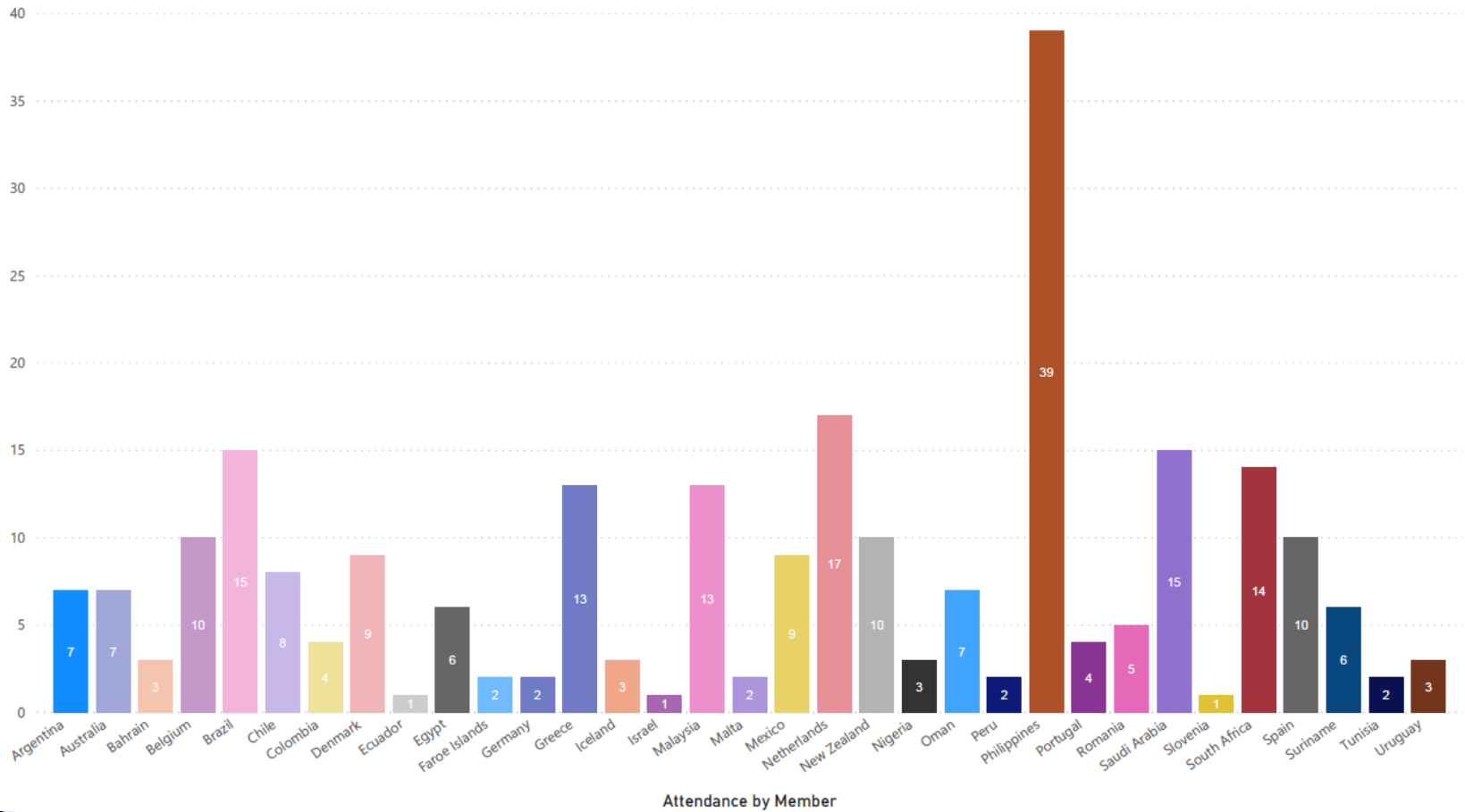
# Learning Management System – ic-enc uptake by Members (395 active users)

IC-ENC LMS Accounts by User's Country



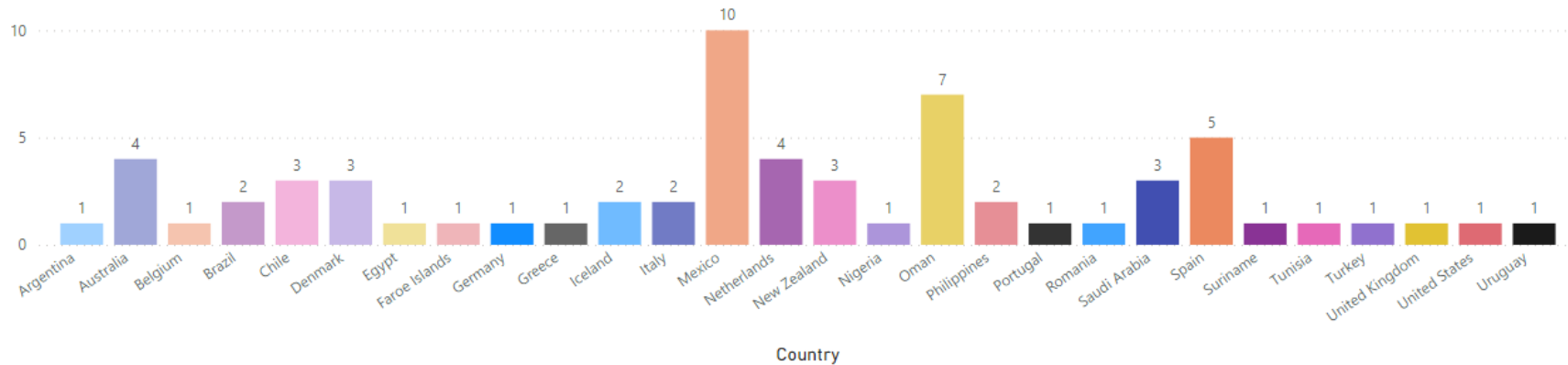
# S100 online training recipients (Q4/2021)

Introduction to S-100 Attendance by Member

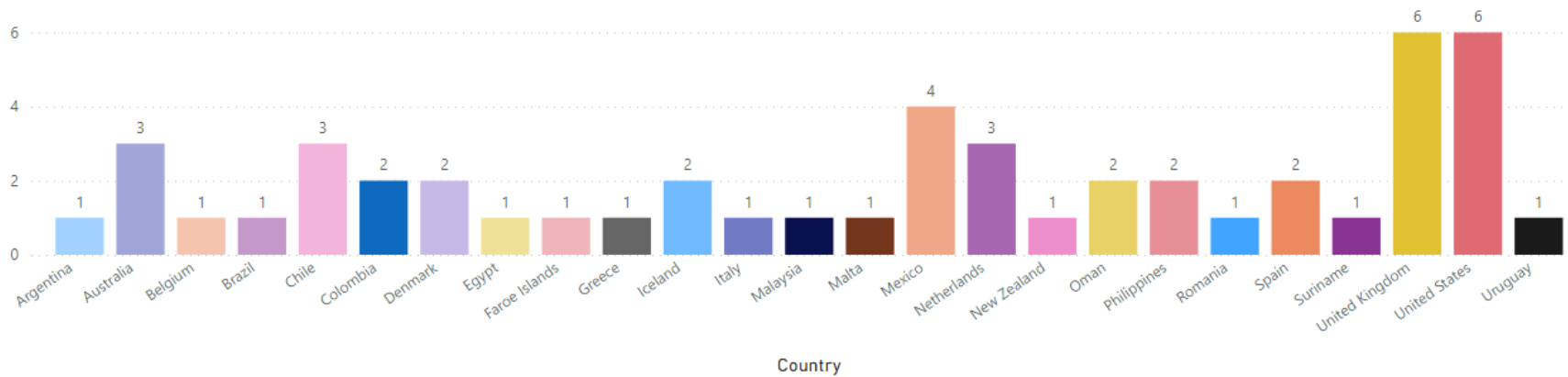


# Targeted TC sessions:

Technical Conference TC22\_1 - Industry Focus Attendance

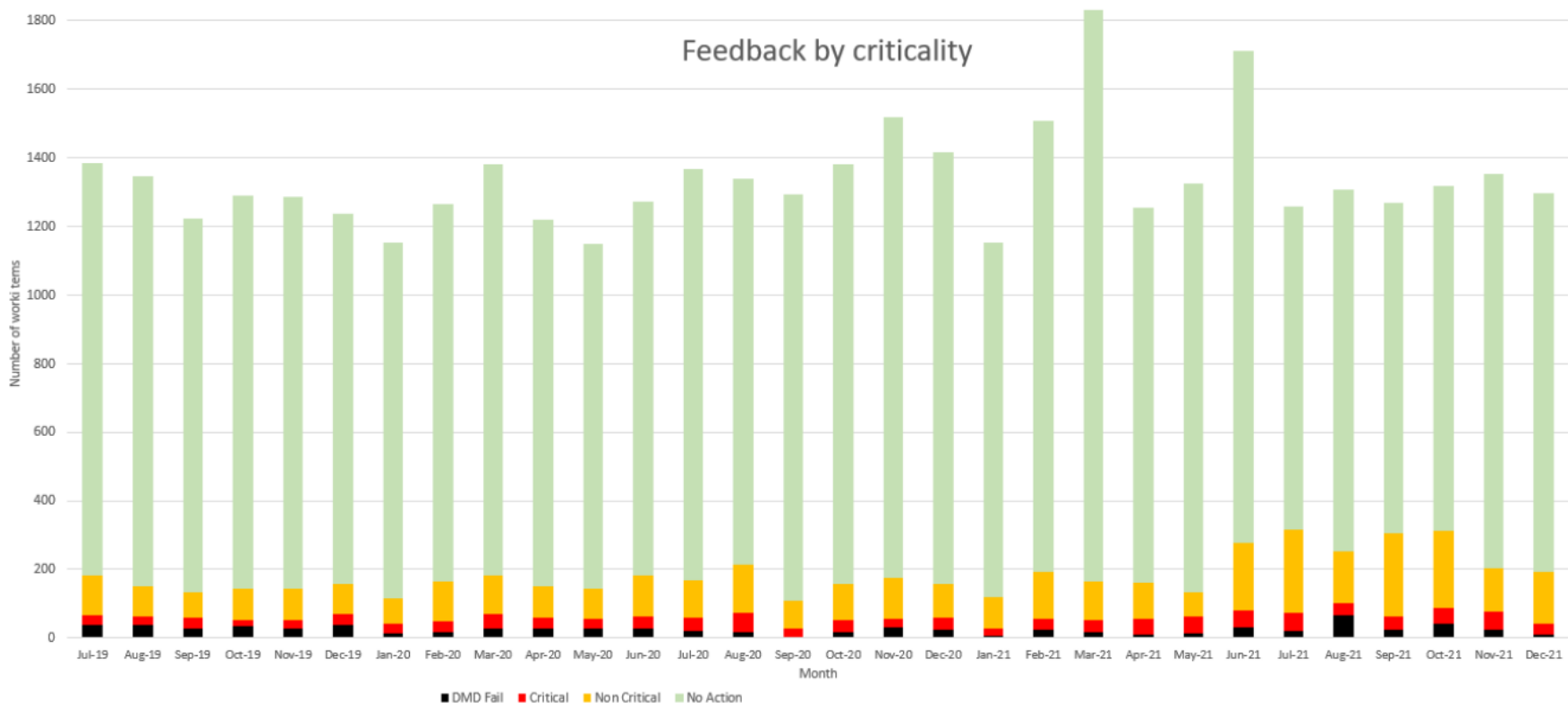


Technical Conference TC22\_2 - ECDIS & HD ENCs Attendance





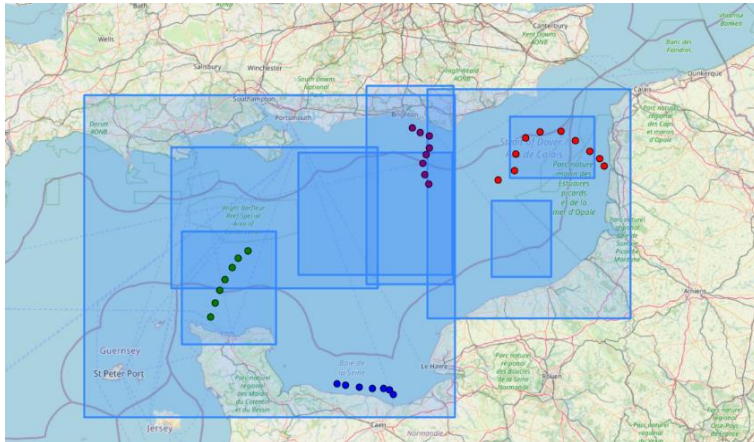
# ENC Validation – feedback content



## Core services Distribution & Revenue Management: New developments:

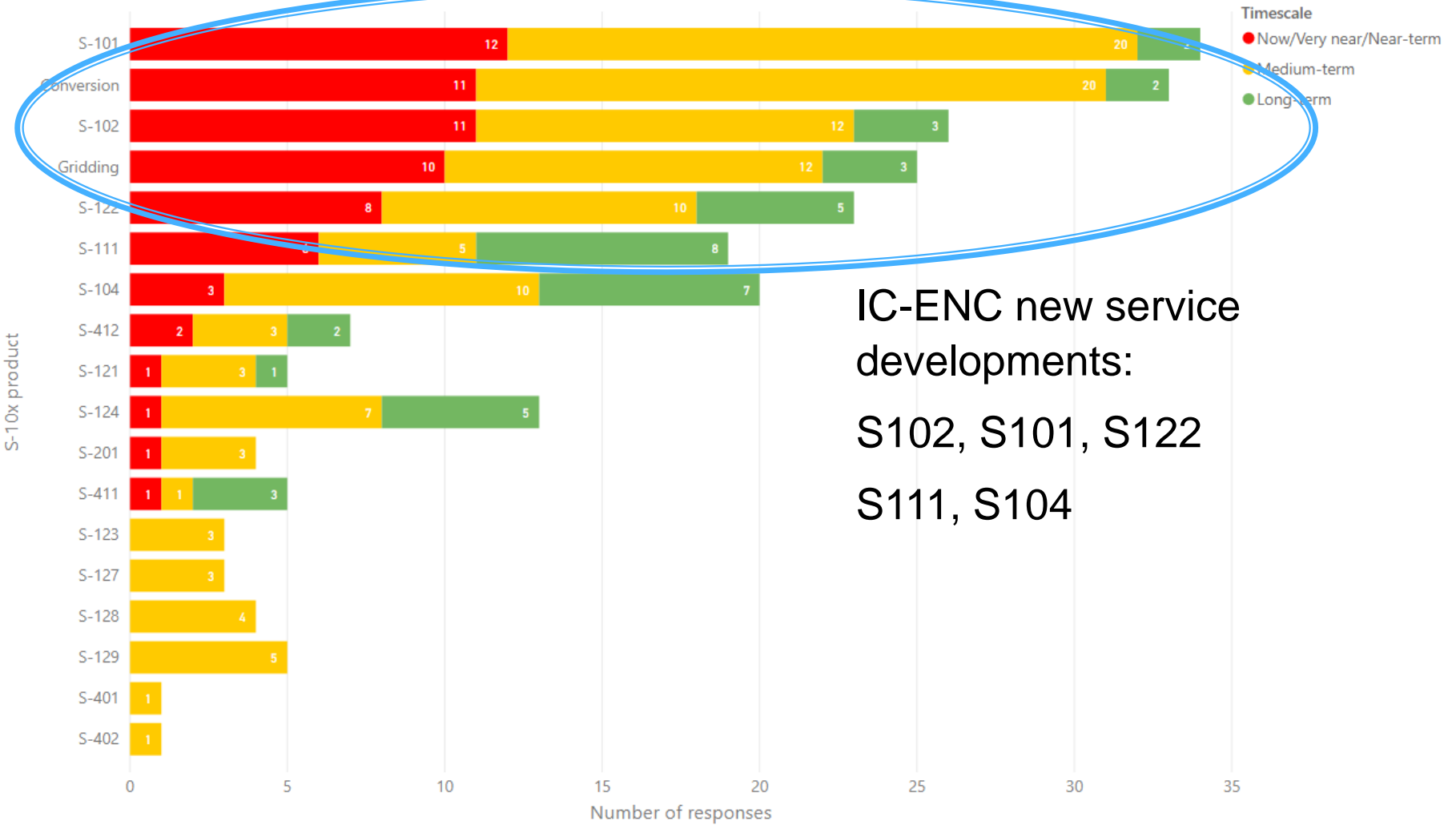
Sales audit tool, Analyses; AIS information, ENC catalogue, VAR sales reports

New Distribution route:  
Appointment of “Distribution Partners” in new distribution chain to support digital navigation of **non-ECDIS craft**.



	Organisation	Expression of Interest
1	ChartWorld	✓
2	GEC s.r.l	✓
3	Imray Laurie Norie & Wilson Ltd	✓
4	Magic Instinct	✓
5	Mapmedia	✓
6	Navico	✓
7	Navionics	✓
8	Navtor	✓
9	OneOcean	✓
10	Orca	✓
11	Renate Rosner Consult S.L	✓
12	Savvy Navvy	✓
13	SeaPilot	✓
14	Witherby Publishing Group	✓
15	Sii Tech	✓

## New developments: S1XX services – Member priorities



IC-ENC new service developments:  
 S102, S101, S122  
 S111, S104

### ▶ S-102 member production plans

S-102 Production Plans	Now/very near	Near-term	Medium-term	Long-term	Unknown	N/A
	1	10	12	3	8	1

### ▶ Work completed

- S102 Ingest & Registration Checks (Validation tests – 43)
- S-102 Knowledgebase created to include registration checks
- **Product Profile**
- S-102 Working Practice documentation (quality management)
- S100 Exchange Set / S102 release capability
- Subject of Technical Conference demonstration in February (60 representatives from IC-ENC Members).

### ▶ S-122:

S-122 Production	Now/very near	Near-term	Medium-term	Long-term	Unknown
	1	7	10	5	12

### ▶ Progress

- S-122 Registration Checks (47)
- Draft S-122 Working Practice
- Assessment of trial S-122 data

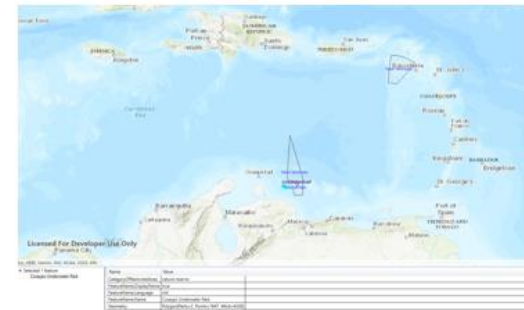


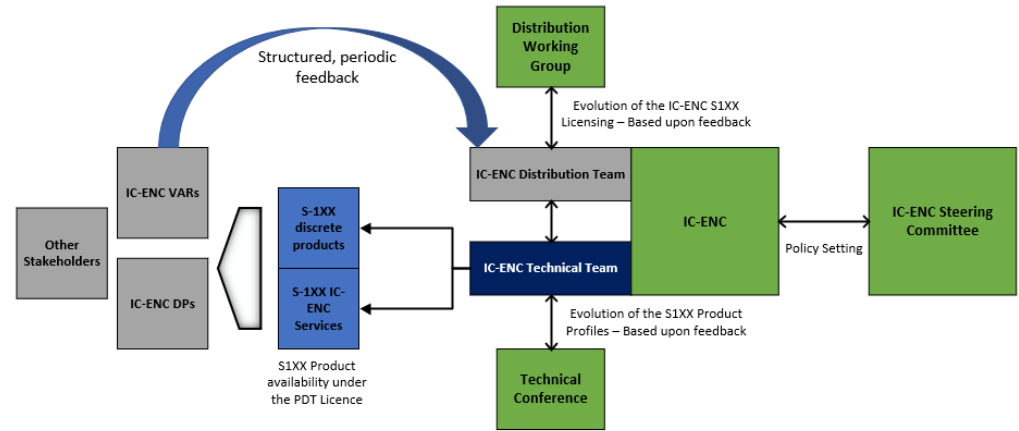
Fig 1: S-122 dataset displayed in NL S-100 Viewer

### ▶ Work in progress via Technical Conference

- Draft Service Description; consistency checks between S-122 and S-57/S-101; Draft Metadata Template; Draft Product Profile; Further DMD enhancement work to include ingest of .GML files

## S-100 era licensing - in development

### 7 Key DWG Principles



Feature	Existing S57 ENC ECDIS	Existing S57 Non ECDIS	S100 SAP technical changes	S100 – interim policies (in development)					PRIMAR approach
				S-101	S-102	S-104	S-111	S122	
Sales Unit	ENC	Folio	n/a						File
Price	Set by Member	Set by Member	Set by Member	Set by Member	Set by Member	Set by Member	Set by Member	Set by Member	
IC-ENC fixed fee	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
1 month	X	X	✓						X
2 months	X	X	✓						X
3 months	✓	X	✓	✓	✓	✓	✓	✓	✓
4 months	✓	X	✓						X
5 months	✓	X	✓						X
6 months	✓	X	✓	✓	✓	✓	✓	✓	✓
7 months	✓	X	✓						X
8 months	✓	X	✓						X
9 months	✓	X	✓	✓	✓	✓	✓	✓	✓
10 months	✓	X	✓						X
11 months	✓	X	✓						X
12 months	✓	✓	✓	✓	✓	✓	✓	✓	✓
PAYS (3 months)	✓	X	✓						X
Demo (12 months)	✓	X	✓						✓
R&D (12 months)	✓	X	✓	PDT	PDT	PDT	PDT	PDT	✓
Training (12 months)	✓	X	✓						?
Trial (3 months, no cost)	✓	X	✓						✓
Sales Reporting	24 hrs	Monthly	n/a						?
Comments	Maintained with PRIMAR under Joint RENC Model	Note, this option is not supported by PRIMAR	To build in the flexibility now for future policy decisions	The policies will be developed through the DWG and the iterated as experience grows via the PDT license					Included for information

- MBSHC: Welcome to Montenegro & Lebanon 😊
- New ENC service “success measures” – timeliness & quality
  - New “non-ECDIS” Distribution service has launched
- Evolution of IC-ENC services for the S100 era
  - Large range of stakeholders – different priorities (and....we have Members still grappling with the challenges of producing their first ENCs...)
- Member stakeholder groups are very active; Technical Conference, Distribution Working Group, new Production Support Working Group... feeding up to the Steering Committee

## Questions / Discussion

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