DIGITAL@SEA CLUSTER

AND
GLOBAL MARITIME DIGITAL ROUTE TESTBED

9 November 2021

WORKSHOP ON ENHANCING E-NAVIGATION CAPABILITY

JOINTLY ORGANIZED BY:

THE DIGITAL@SEA
FROM ENUW TO DIGITAL@SEA

THE DIGITAL@SEA CLUSTER
DEFINITION

"<u>Digital@Sea Cluster</u> Sunbae Hong reported that the cluster aims to demonstrate the real e-Navigation service to the world, including shore-based platforms such as PortCDM, STM, etc. MOF is trying to invite some shipping companies and satellite communication providers with VDES technology to participate in the cluster.
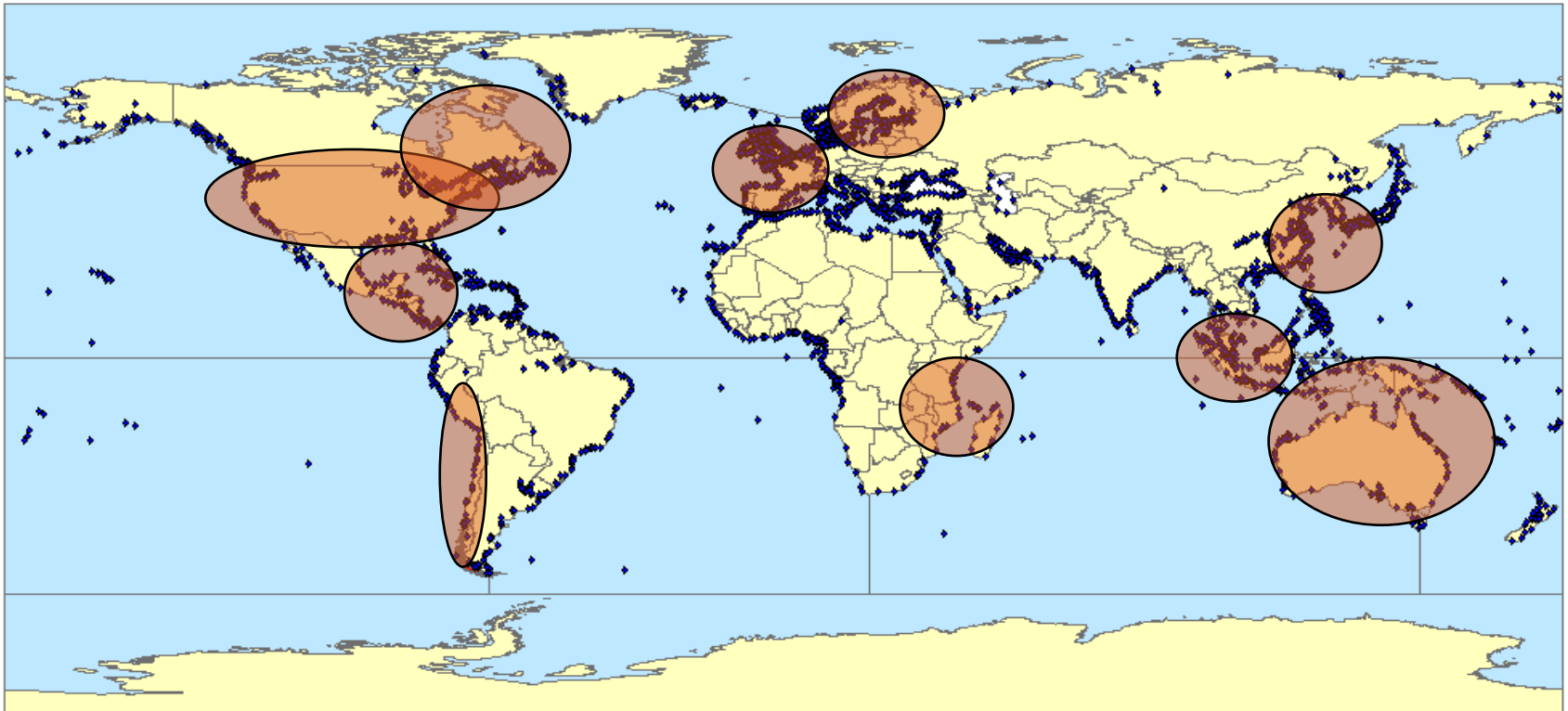
To bring the maritime administrations on board, MOF is preparing an MOU aiming to invite the current ENUW MOU countries and the international organisations.

The group agreed to call the cluster "clusters" (plural) to include other national agendas and initiatives, such as SMART navigation, digital certificates, global e-Navigation route testbed, etc. IALA reminded the group that IALA would keep the area for e-Navigation testbed on the IALA website."

E-NAVIGATION CLUSTERS
REGIONAL FOCUS

Ports around the world – Highlighted e-Navigation Clusters

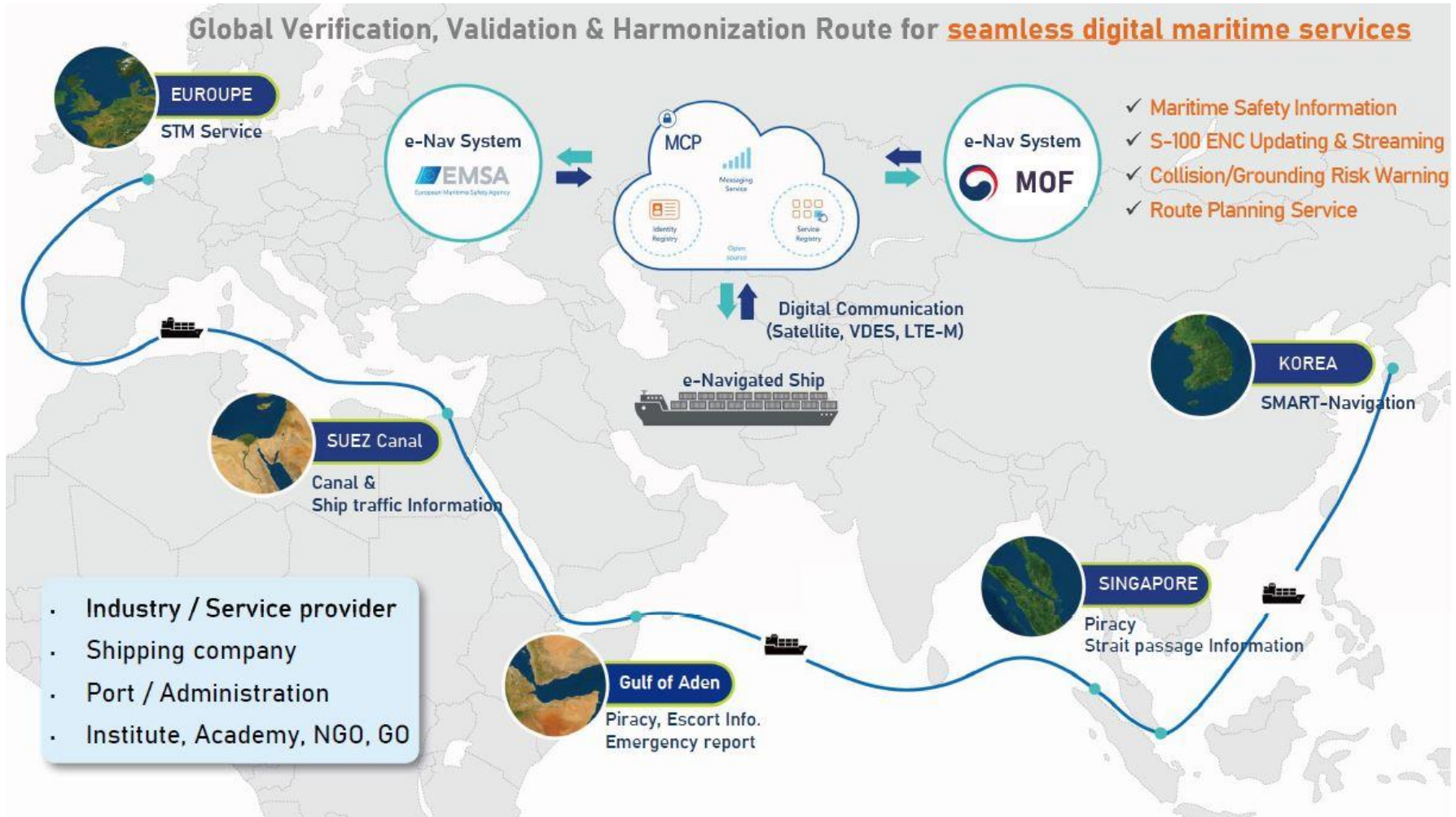# THE DIGITAL@SEA CLUSTER
GLOBAL REACH

THE DIGITAL@SEA CLUSTER
VALIDATING E-NAVIGATION USABILITY

- MS 1 - VTS Information SVC

- MS 2 - VTS Navigation Assistance SVC

- MS 3 - VTS Traffic Organization SVC

- MS 4 - Port Support SVC (PSS)

- MS 5 - Maritime Safety Information SVC

- MS 6 - Pilotage SVC

- MS 7 - Tugs SVC

- MS 8 – Vessel Shore Reporting

- MS 9 - Telemedical Maritime Assistance SVC

- MS 10 - Maritime Assistance SVC

- MS 11 - Nautical Chart SVC

- MS 12 - Nautical Publications SVC

- MS 13 - Ice Navigation SVC

- MS 14 - Meteorological information SVC

- MS 15 - Real-time Hydrographic and Environmental information SVC

- MS 16 - Search and Rescue SVC

GMDRT CONCEPT

Global Verification, Validation & Harmonization Route for seamless digital maritime services

GMDRT PHASE 1

Host:

MOF - MINISTERY OF OCEAN AND FISHERY OF THE REPUBLIK OF KOREA

Execution:

Study of Global Maritime Digital Route Testbed Establishment and Cooperate with Republic of Korea

KRISO – KOREA RESEARCH INSTITUTE OF SHIPS AND OCEAN ENGINEERING

Study of Global Maritime Digital Route Testbed Establishment and Cooperate with Europe

BM BERGMANN MARINE

STAKEHOLDERS

- **Project Support Organisations** (IALA, IMO, IHO…)

- **Ports and Port Actors** (Ports, Terminals…)

- **Shipping Lines**

- **Data Provider** (HOs, RENCs, VARs…)

- **Coastal Administrations and Governmental Organisations** (VTS, Coast Guard…)

- **Service Provider** (Communcations, MCP Service Provider…)

- **Research Institutes**

ENVISIONED SCHEDULE

ID #	Activity Title	Activity Description	2022				2023				2024				2025			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	**Project Management**	Coordinate project activities																
1.1	Project Meetings	Organize and coordinate Project Meetings	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
1.2	Project Coodination	Coordinate activities between partners within and between knots																
1.3	Project Reports	Consolidate and distribute project status reports		◆		◆		◆		◆		◆		◆		◆		◆
2	**Project Preparation**	Identify and induce participation of stakeholders (government, port, telecommunication company, shipping company, C-I-Q, etc.)																
2.1	Define compnents in Korean Knot	Select project components to be used in the Korean knot																
2.2	Define components in EU Knot	Select project components to be used in the EU knot																
2.3	Recruite Partners	Select relevent stakeholders and recruite them as project partners																
2.4	Identify funding options	Select relevant funding options, contact funding organizations and validate support by funding organizations																
2.5	Prepare full project details	Create project details including work packages, timelines and budget; draft funding submissions																
2.6	Prepare project launch	Submit funding request, retrieve approval, develop project initiation concept																
3	**Project Execution**	Execute project according to agreed project plan																
3,1	Initiation phase	Kick-off meetings, coordination definition																
3,2	Execution phase	Execute project as defined in the project description																
3,3	Project closeout	Draft finasl project report, conduct project closeout workshop																

◆ Virtual Project Meetings   ◆ In-Person Project Meetings   ◆ Project Status Report   ◆ Final Project Report

THANK YOU FOR YOUR ATTENTION

Michael Bergmann

Owner BM Bergmann Marine

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Any questions or remarks? Please write to   michael.bergmann@bergmann-marine.com