How to join CISE

CISE-ALERT VIP Days

Rome / 12 Sept 2024

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EMSA

Common Information Sharing Environment (CISE)

CISE is an **infrastructure** that enables different authorities with responsibility in maritime surveillance **to exchange information** among them using a set of **standards**
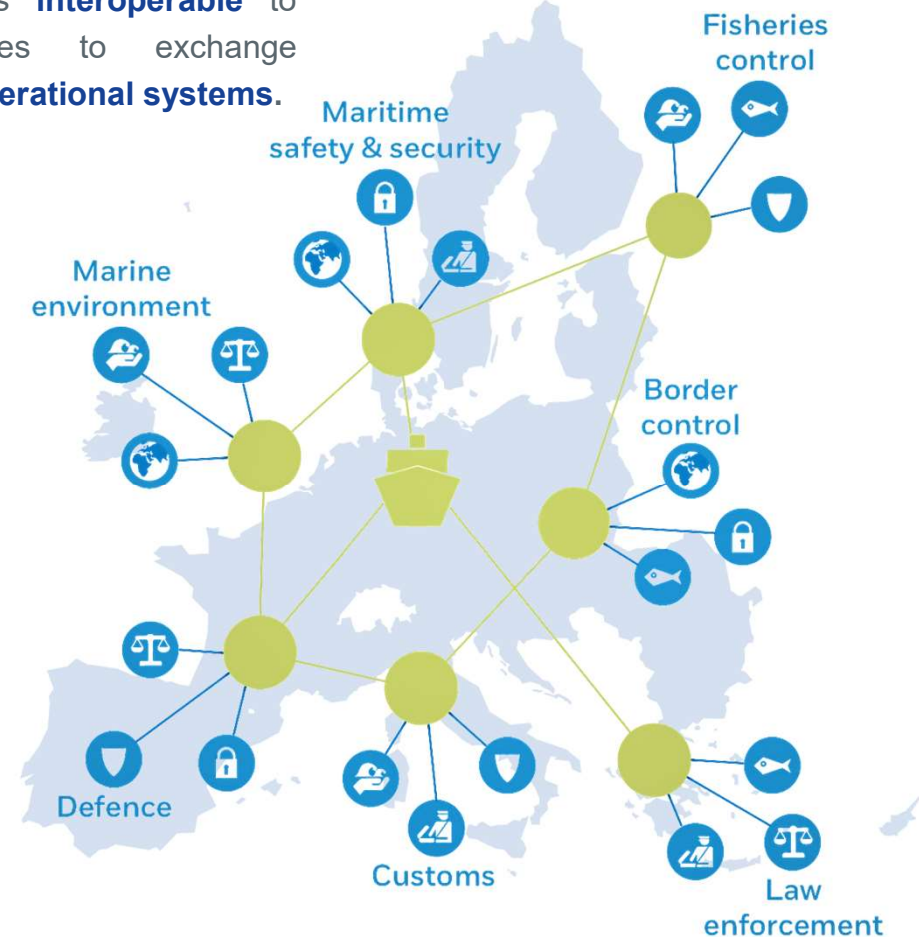
⚠ **CISE is not a new ICT system**

Law enforcement

Customs

Border control

Fisheries control

CISE NETWORK

Maritime safety & security

Marine environment

Defence

What are some of the principles?

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CISE *makes the existing systems **interoperable** to enable maritime authorities to exchange information using their own **operational systems**.*

KEY PRINCIPLES

Voluntary participation	01
Connecting existing systems	02
Connecting authorities from 7 sectors *(incl. civil & military)*	03
Decentralized infrastructure	04
Based on standard data model *(unclassified & classified info)*	05
Easy control of access rights by the data owner	06

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Fisheries control

Maritime safety & security

Marine environment

Border control

Defence

Customs

Law enforcement

How to join CISE?

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To join CISE you need to…

Check if you are already represented in the CISE **Stakeholder Group**

Define the **services** to be provided and consumed

Install and administer a **node,** if not already available

Develop the **adaptor** linking the maritime surveillance systems to the node

Sign the **Cooperation Agreement**

Follow the **Responsibility to Share** principle

What is the CISE Stakeholder Group?

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CISE Stakeholders Group (CSG) is a group currently chaired by EMSA, consisting of representatives designated by the Member States, the European Commission and EU Agencies.

Member States

European Commission

EU Agencies

CSG

Guidance + Orientation

- ✓ **27 MS and EU Agencies/bodies** involved
- ✓ **5 Working Groups** comprising stakeholders' nominated experts:
  - ✓ Configuration Board
  - ✓ Operational
  - ✓ Classified Network
  - ✓ Responsibility to Share
  - ✓ Cooperation Agreement
- ✓ **Regular workshops and trainings**
- ✓ **15 stakeholders connected** to the network through their nodes

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Who is involved so far?
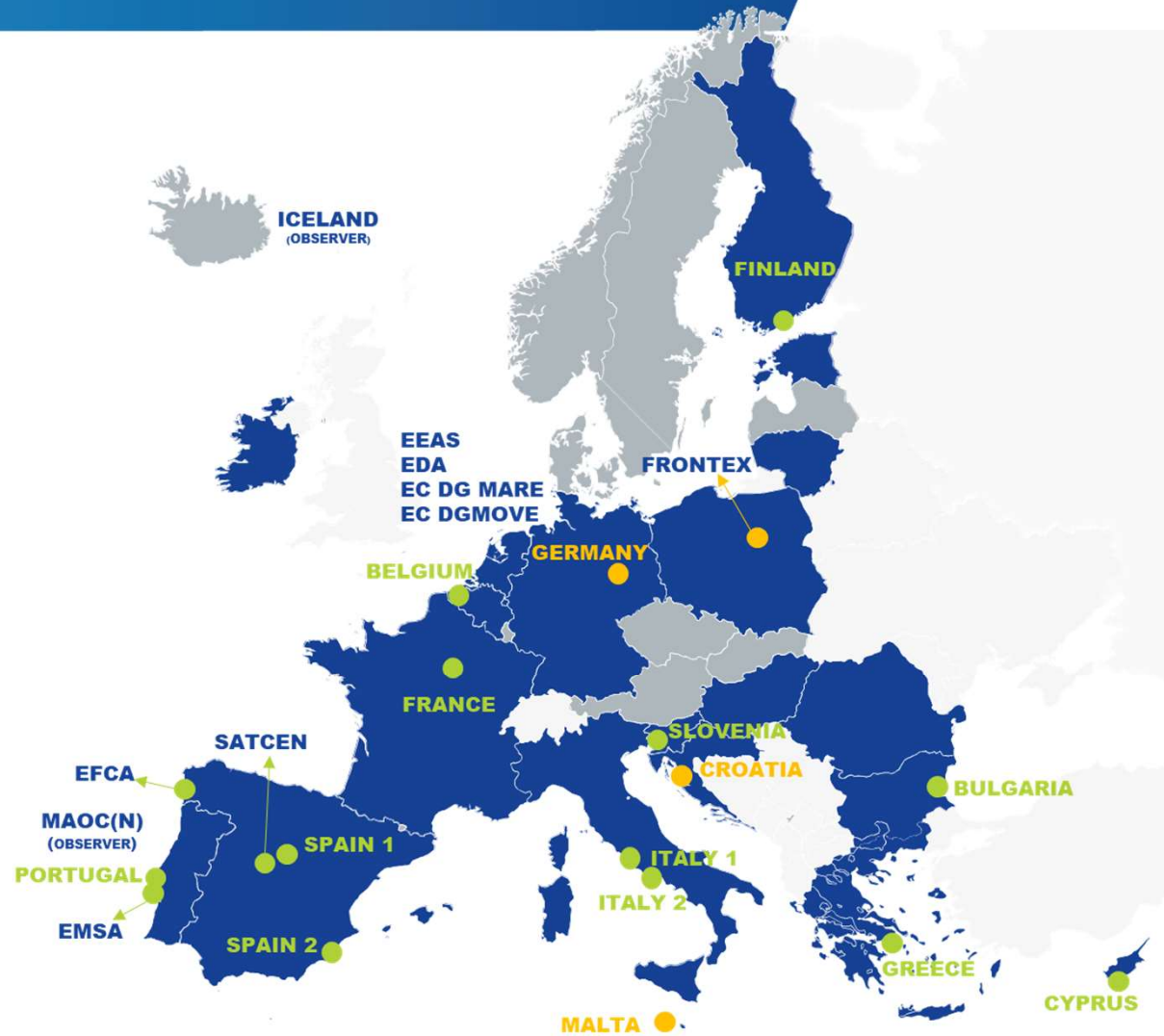
15 operational nodes
4 pre-operational nodes
>30 maritime authorities

CISE STAKEHOLDERS GROUP MEMBERS:

COUNTRIES

NAME — EU INSTITUTIONS, EU SERVICES, AND OTHER INTERNATIONAL ORGANISATIONS INVOLVED

ICELAND
(OBSERVER)

FINLAND

EEAS
EDA
EC DG MARE
EC DGMOVE

FRONTEX

BELGIUM

GERMANY

FRANCE

SATCEN

EFCA

MAOC(N)
(OBSERVER)

PORTUGAL

EMSA

SPAIN 1

SPAIN 2

SLOVENIA

CROATIA

BULGARIA

ITALY 1

ITALY 2

GREECE

CYPRUS

MALTA

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How to join CISE?

To join CISE you need to…

Check if you are already represented in the CISE **Stakeholder Group**

Define the **services** to be provided and consumed and decide whether to join the **classified network**

Install and administer a **node,** if not already available

Develop the **adaptor** linking the maritime surveillance systems to the node
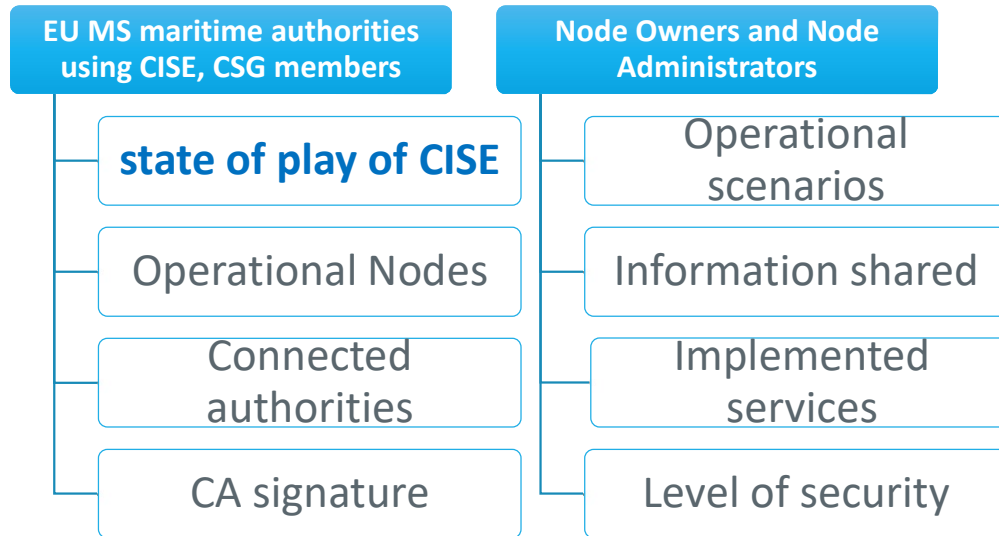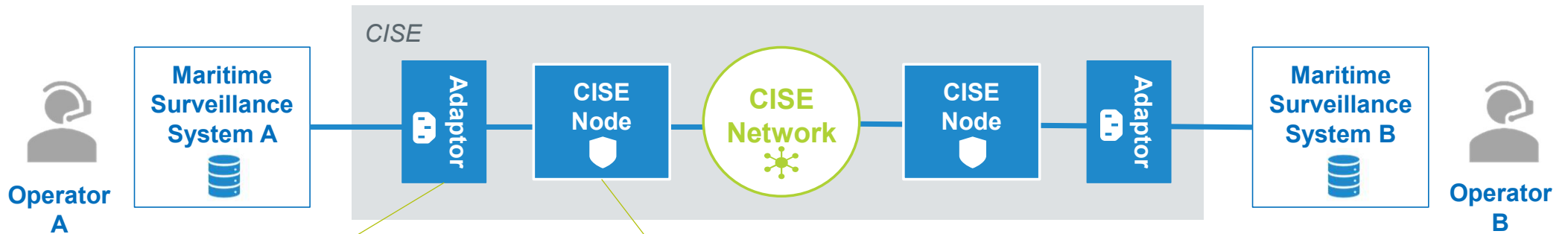
Sign the **Cooperation Agreement**

Follow the **Responsibility to Share** principle

Operational use of CISE – the Catalogue

Each CISE stakeholder defines their own **Information Sharing Plan (ISP),** which is recorded in the **CISE Catalogue**

EU MS maritime authorities using CISE, CSG members

- **state of play of CISE**
- Operational Nodes
- Connected authorities
- CA signature

Node Owners and Node Administrators

- Operational scenarios
- Information shared
- Implemented services
- Level of security

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DATA CATEGORY	DATA ENTITY
OBJECTS	**Vessel**
	Aircraft
	Operational Asset
	Land Vehicle
	Cargo
EVENTS	**Anomaly**
	Movement
	Incident
	Crisis Incident
	Irregular Migration Incident
	Law Infringement Incident
	Maritime Safety Incident
	Action
METOC	**Meteo Oceanographic Condition**
DOCUMENTS	**Document**
	Cargo Document
	Certificate Document
	Event Document
	Location Document
	Organization Document
	Person Document
	Risk Document
	Vessel Document
RISK	**Risk**
AGENTS	**Agent**
	Organization
	Person
LOCATION	**Location**

COMMON & CORE SERVICES

What is the CISE Classified Network?

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The exchange of unclassified and **classified (up to EU-restricted) information**

✓ **Enhanced sharing of data among civil and military actors**

✓ **Security Accreditation Strategy** to accredit the CISE Network to handle EU classified information up to the level of "**EU restricted**" will be implemented in the Operational Phase of CISE

✓ **Highest security standards** Additional security measures have been implemented

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Follow the **Responsibility to Share** principle

How does CISE work?

CISE

Operator A — Maritime Surveillance System A — Adaptor — CISE Node — CISE Network — CISE Node — Adaptor — Maritime Surveillance System B — Operator B

- Translates the specific formats and communication protocol into the **CISE data and service model**
- Optional block
- Developed for each ICT system

- Connects systems and manages security, access rights to the information and reliability.
- Common block
- Free (no cost)
- Maintained by EMSA

Full control on the information exchange:

- Flexible organisation of building blocks (no limitations)
- Authorities are free to exchange any information
- Security and access rights

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What is the Cooperation Agreement?

Ensure CISE users that their data in the CISE network is exchanged **securely** and **safely**

Legal document
- Rules for sharing information safely and securely
- Roles and responsibilities of the CISE network's users

Precondition to start exchanging maritime surveillance information in a trusted network

Multiparty agreement
- The CA enters into force at the moment of signature

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To join CISE you need to…

- Check if you are already represented in the CISE **Stakeholder Group**

- Define the **services** to be provided and consumed

- Install and administer a **node,** if not already available

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- Sign the **Cooperation Agreement**

- Follow the **Responsibility to Share** principle

What is the RTS Principle?

Voluntary sharing of information

- Responding to a specific request for information (Pull Response)
- Providing information without being asked (Push)
- Providing information on a regular basis upon request (Publish)

Need to know → *Responsibility to share*
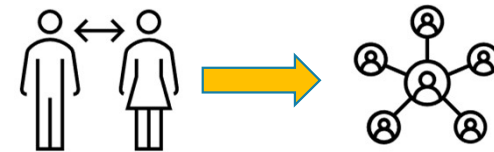
Why measure RTS?

- To have an overview of the activity of the CISE network
- To visualise the trends of the CISE nodes use and of the information exchanged (at a particular moment and over time)
- To better understand the needs of the CISE members

How is it measured?

Methodology is based on 3 pillars:
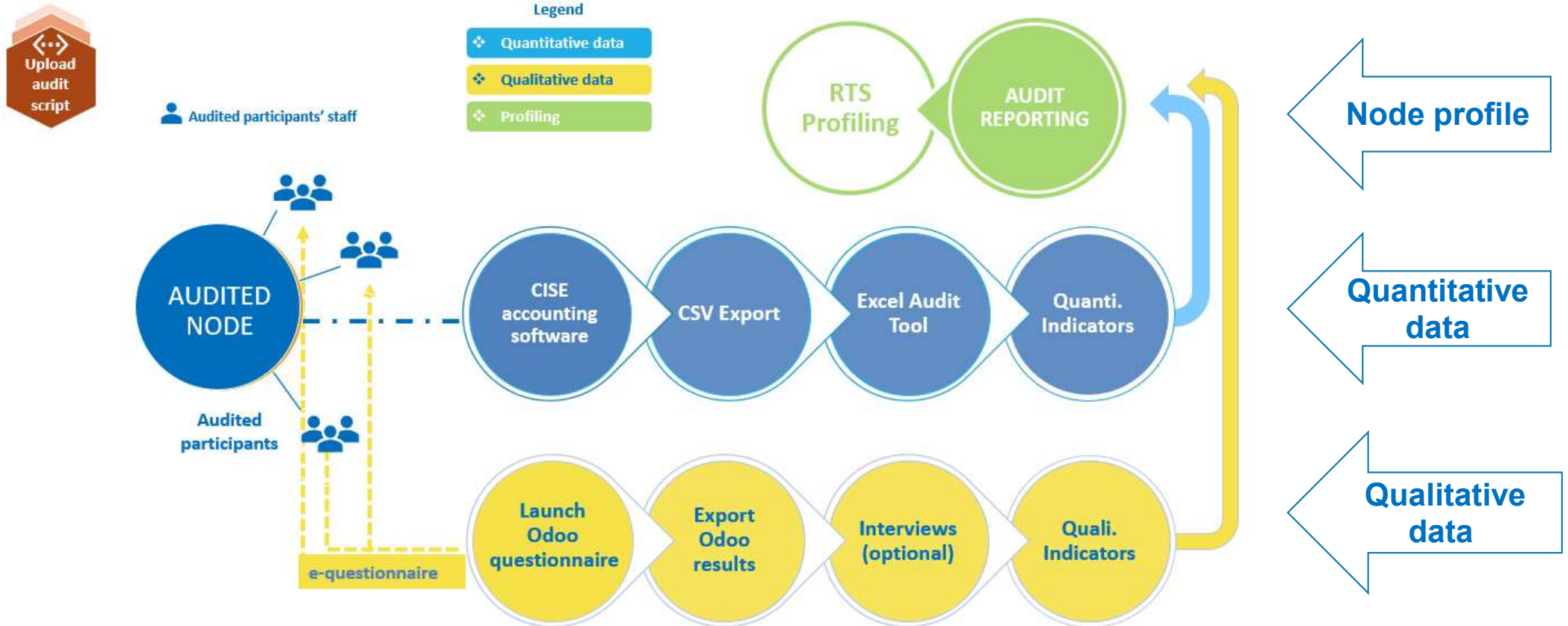
Quantitative Data

The collection and analysis of **QUANTITATIVE INDICATORS, is** elaborated from the "logged data" parameterized within the CISE node management software and provides metrics on **current usage patterns of the CISE data services**
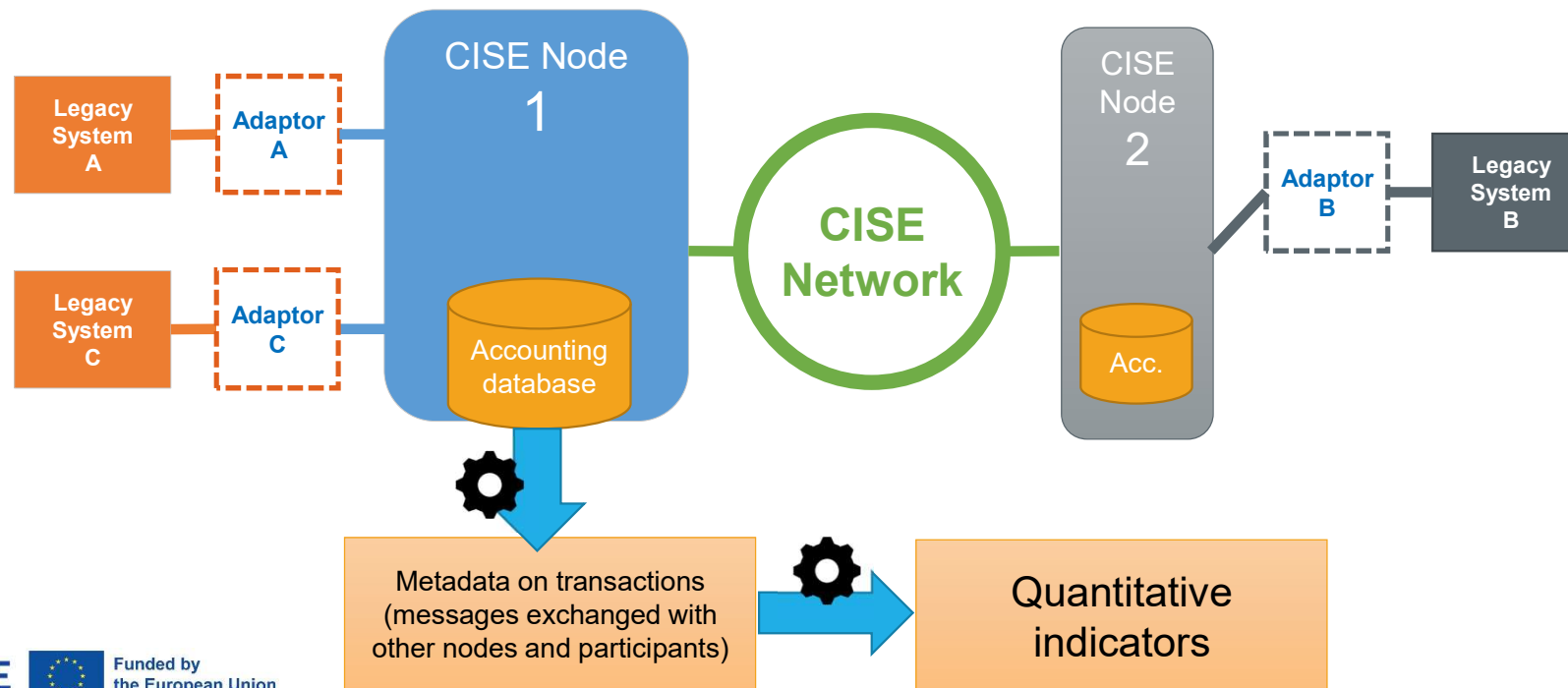
Quantitative Data

Indicator 1: CISE data services usage per audited **Participant**

Indicator 2: Clustered Data services usage per audited **Participant**

Indicator 3: CISE data services usage per audited **Node**

Indicator 4: Clustered data services usage per audited **Node**

Indicator 5: CISE relative data services usage within audited **Node**

Indicator 6: Intra-node vs. extra-node exchanges

Indicator 7: Extra-node exchange distribution

Indicator 8: Cross-comparisons with peers (**Participant** / **Node** / **MS**)

Indicator 9: Cross-comparison over time (successive audits, same **Participant** / **Node** / **MS**)
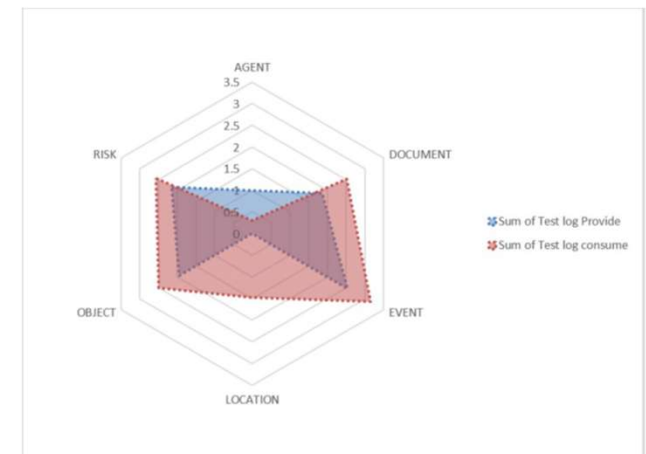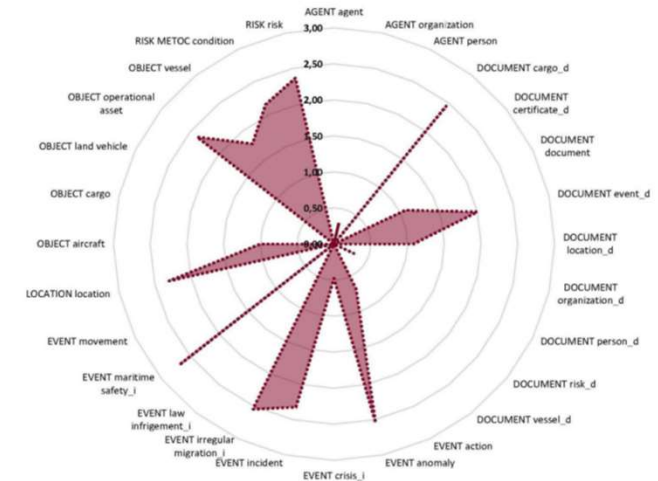
Online questionnaire

- 24 questions

- Subjective data

- Evaluates current use of CISE and needs of participant

- To be completed by desk operators, node administrators, supervisors and other key staff

E-questionnaire developed in Odoo Tool

B1. Please indicate the Legacy System(s) (LS) you are using in connection with your CISE node *

Italy - System A	Italy - System B	Italy - System C
If other, please specify:		

B2. Please indicate the way you currently access CISE information *

1. Directly from my console in an operational room, combined with all the information I access	2. From a distinct and isolated console in the operational room, leaving me to manually combine the information received through CISE	3. In a separate information management infrastructure dedicated to CISE exchanges, not interfaced in real time with any operational maritime situation awareness system
4. If other, please specify:		

B3. Please indicate how often you are using CISE *

1. On a daily basis, almost permanently	2. Only in the context of planned exercises, trials, training in the context of fictitious use cases, etc.	3. Rarely
4. Occasionally, when an event occurs (please detail):		

Profiles

Quantitative Indicators + Qualitative Indicators = Profiles (based on OODA loop scheme)

- Used in the context of safety, security, military concept of operations.
- Composed of 4 steps: OBSERVE, ORIENT, DECIDE, ACT
- Generic enough to apply to any CISE User Community
- Rule based profiling process – combining both quantitative + qualitative indicators
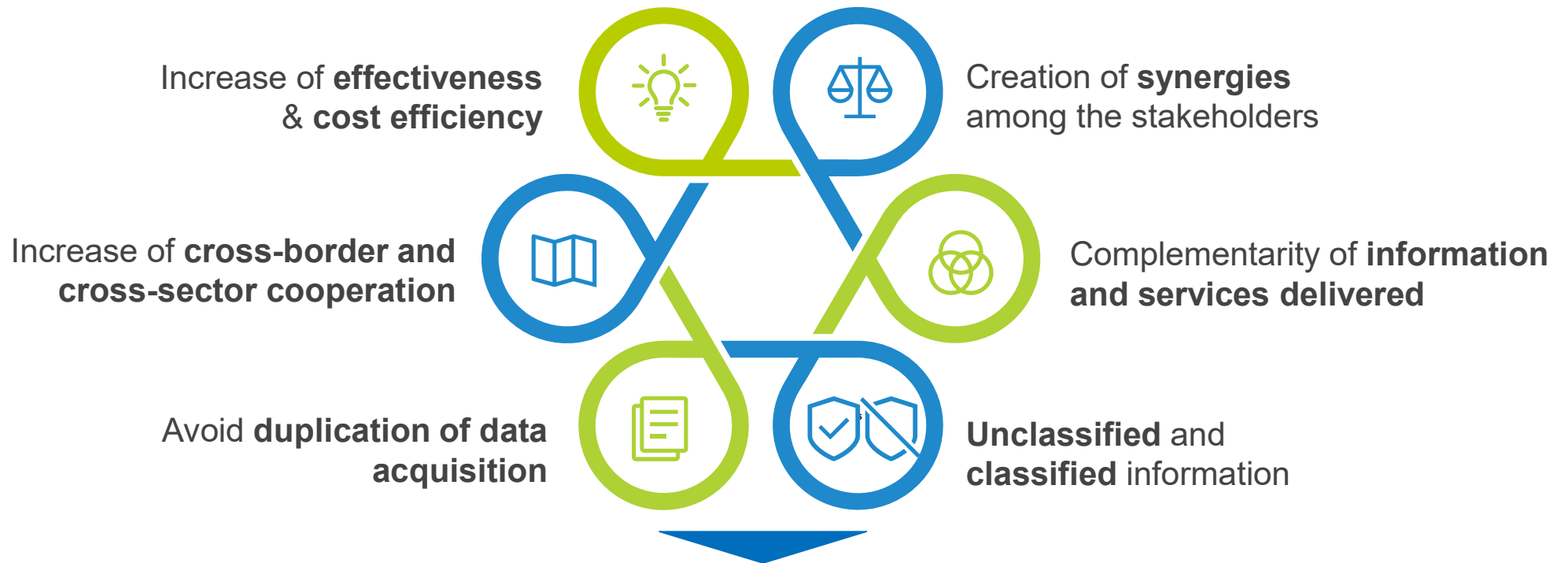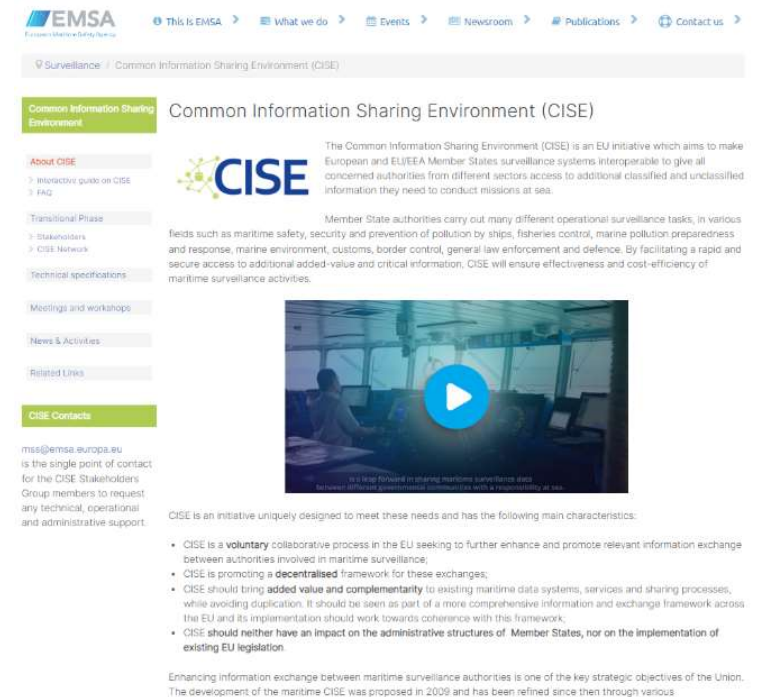- OBSERVE, ORIENT, DECIDE (ACT currently not retained for RTS profiling).

OODA Loop
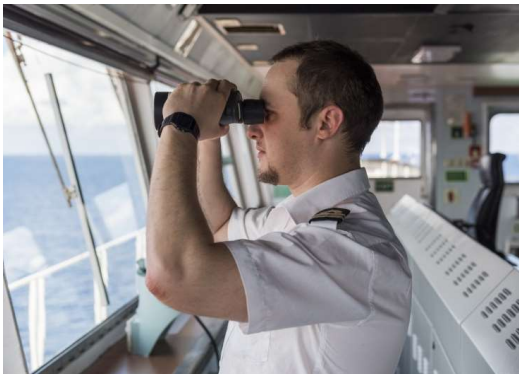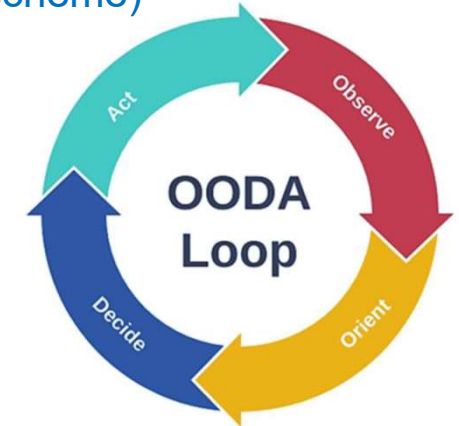
Observe (Monitor)

Orient (Detect)

Decide + Act (Respond)

What are the benefits of joining CISE?

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Increase of **effectiveness & cost efficiency**

Creation of **synergies** among the stakeholders

Increase of **cross-border and cross-sector cooperation**

Complementarity of **information and services delivered**

Avoid **duplication of data acquisition**

Unclassified and **classified** information

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Where to find more information?

- **www.emsa.europa.eu/cise** - latest news, information about CISE implementation, technical specifications

- **Interactive guide on CISE** - provides a general understanding about CISE, as well as information on how to join the CISE network

- **Practical guide for joining the CISE network** - organisational, financial, technical and operational aspects to be considered when planning the connection to CISE

- Useful material: **Videos on CISE** and **CISE illustrated story**

Thank you!

Follow our activities on social media:

emsa.europa.eu/newsroom/connect