



# Information Day

## EUCISE2020

Roma, 13/05/2016

<http://www.eucise2020.eu/>

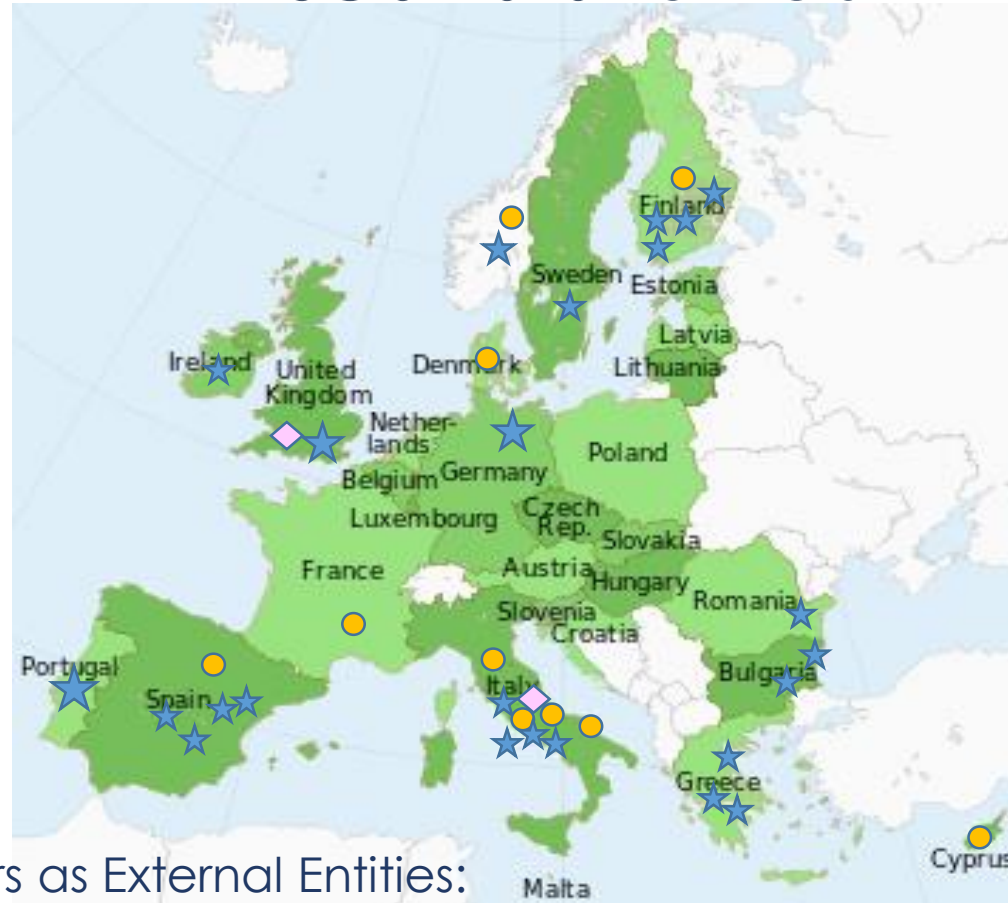


EUCISE2020 received funding from the European Union's seventh framework programme under grant agreement no: 608385



## EUCISE2020 Partners

- 37 Partners
- 15 EU/EEA maritime Countries
- Open to new partners and to collaborations with EU Agencies



- ★ Maritime Authorities
- ◇ Experts
- Research Institutions

Two new partners as External Entities:

- EFCA - European Fisheries Control Agency
- MARSAFENET – Network of experts on the legal aspects of maritime safety and security; more than 70 legal experts from 22 countries



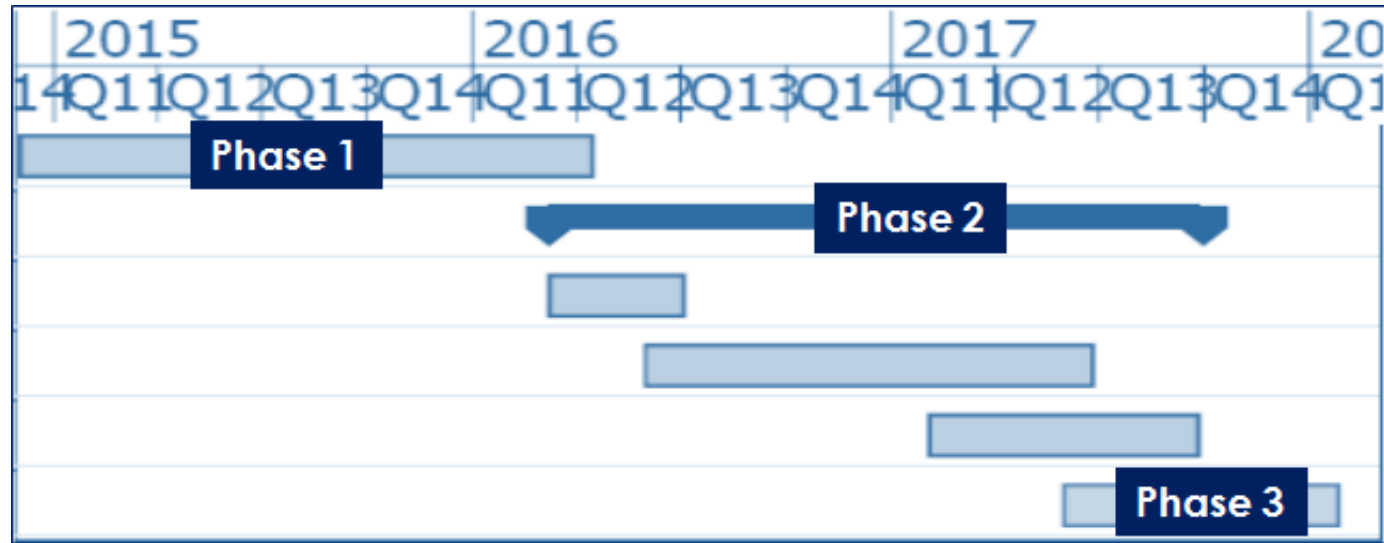
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Partner	website	Partner	website
ASI	<a href="http://www.asi.it">www.asi.it</a>	DMI DK	<a href="http://www.dmi.dk">www.dmi.dk</a>
MMI	<a href="http://www.marina.difesa.it">www.marina.difesa.it</a>	NERSC	<a href="http://www.nersc.no">www.nersc.no</a>
MEF GDF	<a href="http://www.gdf.gov.it">www.gdf.gov.it</a>	AEAT ES	<a href="http://www.agenciatributaria.es">www.agenciatributaria.es</a>
MIT GC	<a href="http://www.guardiacostiera.gov.it">www.guardiacostiera.gov.it</a>	CIT	<a href="http://www.cit.ie">www.cit.ie</a>
MDE ES	<a href="http://www.defensa.gob.es">www.defensa.gob.es</a>	DGPM	<a href="http://www.dgpm.mam.gov.pt">www.dgpm.mam.gov.pt</a>
GUCI	<a href="http://www.guardiacivil.es">www.guardiacivil.es</a>	MARAD	<a href="http://www.marad.bg">www.marad.bg</a>
SASEMAR	<a href="http://www.salvamentomaritimo.es">www.salvamentomaritimo.es</a>	DEMOKRITOS	<a href="http://www.demokritos.gr">www.demokritos.gr</a>
EUSC	<a href="http://www.satcen.europa.eu">www.satcen.europa.eu</a>	RBP	<a href="http://www.politiadefrontiera.ro">www.politiadefrontiera.ro</a>
SWED CG	<a href="http://www.kustbevakningen.se/sv/te-he-swedish-coast-guard">www.kustbevakningen.se/sv/te-he-swedish-coast-guard</a>	FINNAVY	<a href="http://www.puolustusvoimat.fi/en/Navy">www.puolustusvoimat.fi/en/Navy</a>
MIN INT FBG	<a href="http://www.raja.fi">www.raja.fi</a>	FGMSSC	<a href="http://www.bmvi.de">www.bmvi.de</a>
FTA	<a href="http://www.liikennevirasto.fi">www.liikennevirasto.fi</a>	HMOD	<a href="http://www.mod.mil.gr">www.mod.mil.gr</a>
TRAFI	<a href="http://www.trafi.fi">www.trafi.fi</a>	HCR	<a href="http://www.hcg.gr">www.hcg.gr</a>
BG PORT	<a href="http://www.mtitc.government.bg">www.mtitc.government.bg</a>	MERCATOR	<a href="http://www.mercator-ocean.fr">www.mercator-ocean.fr</a>
MTC	<a href="http://www.regjeringen.no">www.regjeringen.no</a>	MISE	<a href="http://www.sviluppoeconomico.gov.it">www.sviluppoeconomico.gov.it</a>
LAUREA	<a href="http://www.laurea.fi">www.laurea.fi</a>	GLT	<a href="http://www.studiotosato.it">www.studiotosato.it</a>
OC UCI	<a href="http://www.ucy.ac.cy">www.ucy.ac.cy</a>	DFT	<a href="http://www.gov.uk/government/organisations/department-for-transport">www.gov.uk/government/organisations/department-for-transport</a>
APRE	<a href="http://www.apre.it">www.apre.it</a>	LCU	<a href="http://www.unilink.it">www.unilink.it</a>
INGV	<a href="http://www.ingv.it">www.ingv.it</a>	WPI	<a href="http://www.wisepens.com">www.wisepens.com</a>
CMCC	<a href="http://www.cmcc.it">www.cmcc.it</a>		





Phase 1 - Initial Definition Phase (CSA)

Phase 2 - Preparatory and Execution Phase (CP/RTD)

Phase 3 - Ex-Post Assessment (CSA)

Total duration: 37 months

Starting date: December, 1<sup>o</sup>, 2014





Activity	Cost in €	EU Grant in €
Total Project	€ 17.053.931	€13.000.000
In Phase 2 Commonly European Procured R&D Services	€ 4.500.000	€ 3.375.000
Nationally Procured R&D Services	€ 1.200.000	€ 900.000

By the end of 2015, the EUCISE2020 Consortium will launch a European tender to develop the reference implementation of CISE.

Partners participating in the demonstration will manage national tenders to develop the national interfaces to the interoperability platform.



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## EUCISE2020 Status

- Closing Phase 1 - Initial Definition Phase (CSA)
- Completed and approved deliverables
- Managing Procurement process

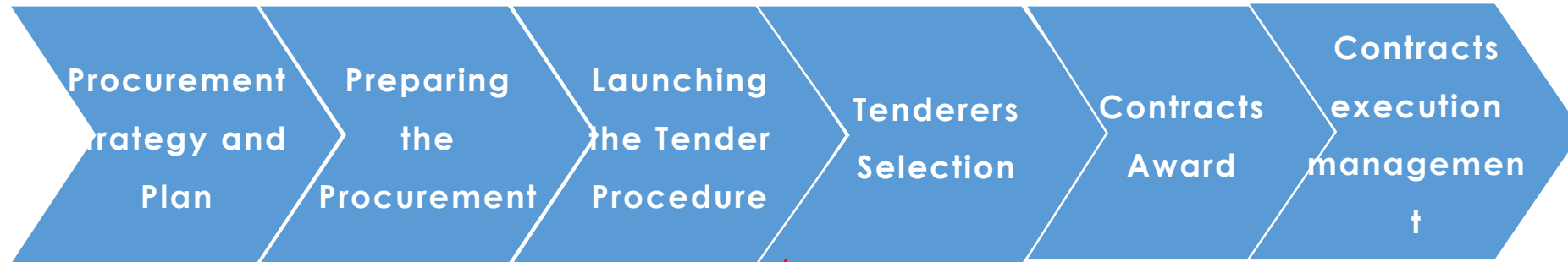




Phase	Specific Objectives	Deliverables
<p>Phase 1 Initial Definition Phase (CSA)</p>	<ul style="list-style-type: none"> <li>• Identification of elements requiring new R&amp;D that should be tested and validated in cooperation</li> <li>• Definition of an action plan, setting scenarios and issues for concrete implementation of activities</li> <li>• Establishment of modalities and procedures for POV evaluation and monitoring (common evaluation criteria and implementation methods)</li> <li>• Drafting a preliminary CISE IPR strategy for the (expected) outcome of the Call for Tender</li> <li>• Allocation and training of additional resources for implementation (if appropriate)</li> <li>• Building cooperation with other stakeholders</li> </ul>	<ol style="list-style-type: none"> <li>1. Needs Analysis and Requirements Document</li> <li>2. Partners Cooperative plan</li> <li>3. Validation Strategy Document, <i>(including a practical Exercise Plan and the proposed set of key performance indicators)</i></li> <li>4. IPR concept strategy</li> <li>5. Technical Specifications</li> <li>6. Joint POV Call for Tender</li> <li>7. Common REQs for national CISE procurements</li> </ol>



## Procurement Process articulated in different steps:



**We are here**

From the point of view of the tenderers, selection in two phases:

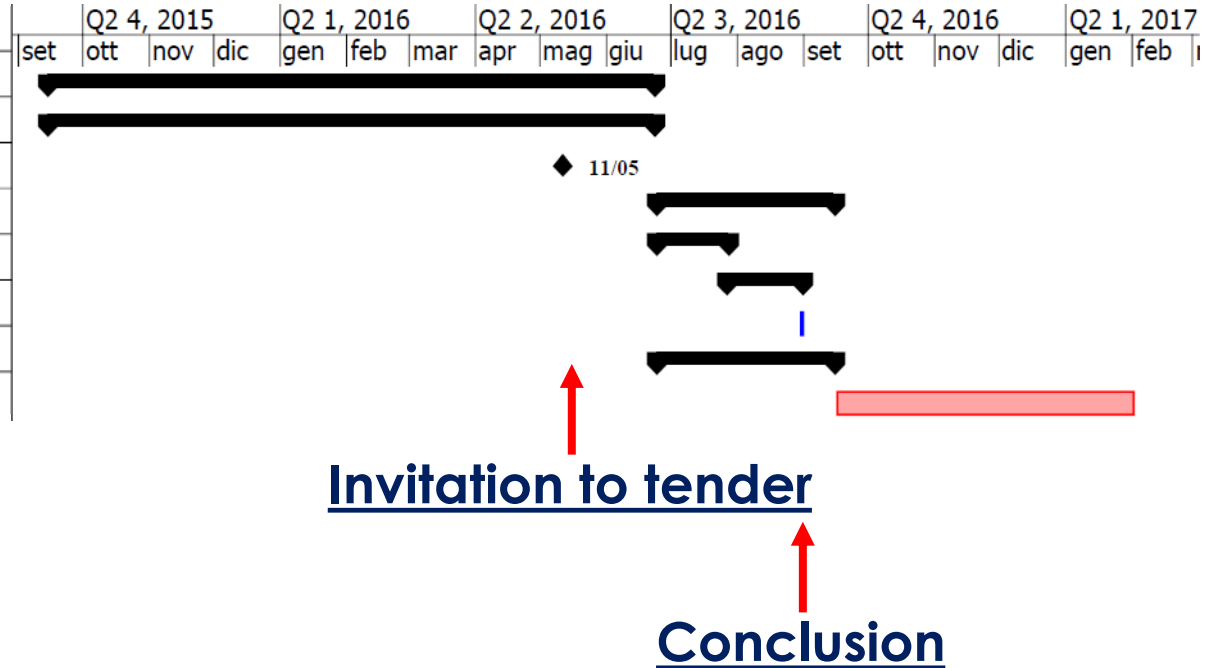
- Phase 1: submission of candidatures
  - Publication on the OJ
  - Prequalification criteria based on administrative, financial and technical capabilities
- Phase 2: submission of offers





# Procurement Process articulated in different steps:

[-] <b>WP1 - Management &amp; Strategic Coordination</b>
[+] <b>T1.5 - Joint POV call for Tender Preparation and Publication</b>
D1.1-Joint POV Call for Tender
[-] <b>WP9 - Coordinate the Joint POV Procurement Process</b>
[+] <b>T9.1 - Joint POV Tender Evaluation</b>
[+] <b>T9.2 - Joint POV Tender contract award</b>
D9.1 - Preliminary Design of CISE Test bed (response to the POV Call for Tender)
[+] <b>T9.3 Technical Coordination and Harmonization of MS Procurement Proc...</b>
T9.4 Implementation of National Procurements (out of EUCISE2020 activities)

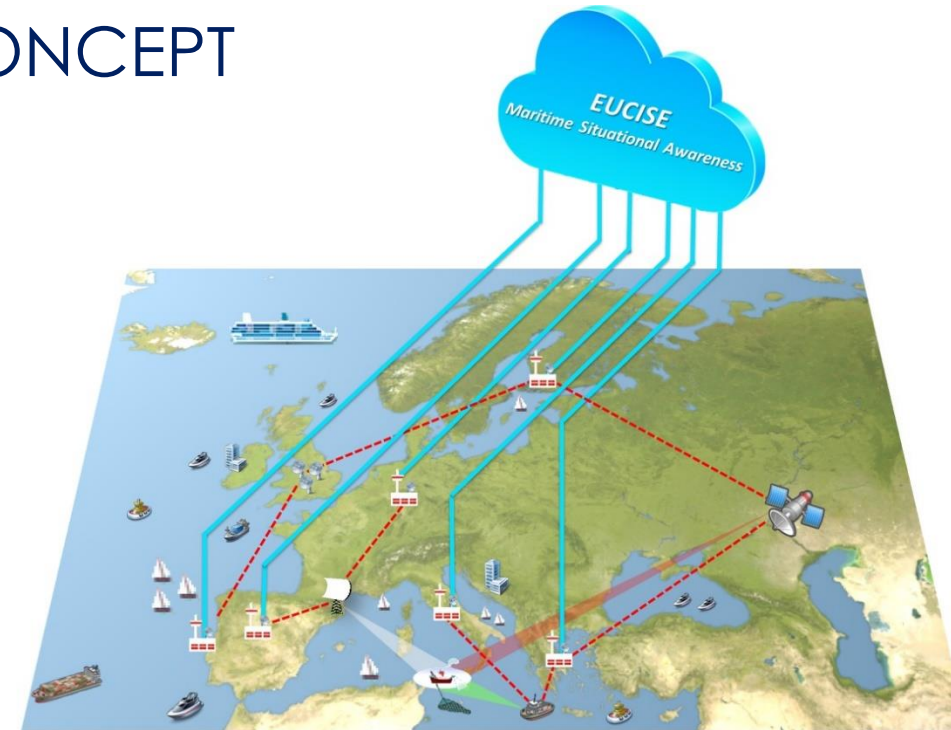




# OPERATIONAL CONCEPT

Primary mission of EUCISE2020 is to support the EU Maritime Situational Awareness capability by means of an **Information Sharing Environment** capable to implement adequate security measures and protocols ensuring the confidentiality, integrity and availability of the data required and transmitted in the CISE community.

EUCISE2020 will not affect the functionalities of the operational information systems belonging to the participating Public Authorities or of the European existing sectorial information systems.



**Blue lines depict flows of information within the CISE community**, while the red dashed lines depict flows of information within the legacy systems belonging to single Public Authorities.





# USER FUNCTIONS

User functions analysed with reference to 9 different operational scenarios studied in the Cooperation projects and enhanced in the first phase of the project:

- Use Case 13b: Inquiry on a specific suspicious vessel (cargo related).
- Use Case 13c: Inquiry on a specific suspicious vessel (crew and ownership related).
- Use Case 25b: Investigation of antipollution situation (law enforcement).
- Use Case 37: Monitoring of all events at sea in order to create conditions for decision making on interventions.
- Use Case 44: Request for any information confirming the identification, position and activity of a vessel of interest.





## USER FUNCTIONS

- Use Case 57: Knowledge of surveillance capacities of partner authorities in a given sea area to plan basic tactical surveillance (Baseline and Targeted operations).
- Use Case 70: Suspect Fishing vessel/ small boat is cooperating with other type of vessels (m/v, Container vessel etc.).
- Use Case 85: Anti-Piracy Maritime Surveillance and free navigation control: Merchant vessels at sea (outside Territorial waters) sends an alert that it is under Piracy attack.
- Use Case 93: Detection and behaviour monitoring of IUU listed vessels.

For each of the above mentioned scenario a full set of operational views for operational node connectivity and operational activity model are defined.





## Network Topology

The network topology of EUCISE2020 is based on the CISE hybrid vision concept. Each Member State and Community can adopt one of the following paradigms:

- Single-way approach: All Public Authorities of a Member State are connected to the EUCISE2020 Network through a single access point
- Multiple-way approach: Public Authorities of a Member State are connected to the EUCISE2020 Network through different access points





The CISE components are able to:

- translate the request of information coming from PAs in a common vocabulary;
- ensure the exchange of messages within the EUCISE2020 Community based on a Service Oriented Architecture paradigm;
- manage access rights to information exchange based on a roles/rules based approach;
- handle classified information up to EU restricted level;
- implement a collaborative environment;
- optionally, implement advanced functions to enhance the information available at PAs level.





The EUCISE2020 Services are organized in four classes:

- **Core Services:** services devoted to the implementation of CISE gateways that, accordingly to the Hybrid Vision architecture, are the component that will ensure the connection of each partner, or group of them, to the EUCISE2020 network.
- **Common Services:** devoted to the exploitation of entities within the CISE network following the EUCISE2020 business rules.
- **Advanced Services:** consisting of added value services proposed by each EUCISE2020 community of interest. Member States decide the implementation of advanced services or not.
- **Innovative Services** are optional R&D application services, with TRL (Technology Readiness Level) between 6 and 8 according the HORIZON 2020 scale, and with different IPR; the Innovative Services are expected to deliver new added value in the maritime surveillance business processes.





The EUCISE2020 Services are developed under different procurement frameworks:

- Core, Common and Advanced Services will be developed, tested, integrated and validated under the contractual framework of **LOT1**.
- Innovative Services will be integrated in the EUCISE2020 platform and validated in the pre-operational environment under the contractual framework of **LOT2**.







**LOT1** concerns R&D Services for the Implementation and the pre-operational validation of EUCISE2020 cross-sector and cross-border inter-regional wide network (core, common and advanced services). The scope of work shall include:

- **Final design** of R&D Core, Common and Advanced Services;
- **Development** of R&D Core, Common and Advanced Services;
- **Verification** of R&D Core, Common and Advanced Services **in test-bed environment**;
- **Integration and Verification** of R&D Core, Common and Advanced Services **in the EUCISE2020 participants' environment**;
- **Pre-operational Validation** of R&D Core, Common, Advanced (Lot 1) and Innovative (Lot 2) Services **in the real operational environment** of the above mentioned EUCISE2020 project's partners.





**LOT 2** concerns Innovative R&D services for the pre-operational validation of added value services for the maritime surveillance in the EUCISE2020 inter-regional wide network; the services relate to the following domains:

- Big data Analytics
- Entity Fusion
- Mission Planning
- Satellites services for maritime surveillance and communications.





- The scope of the Lot 2 contract/s will be the execution of service trials for the integration and the pre-operational validation of innovative R&D services under the property of the contractor(s) into the EUCISE2020 platform.
- The services of LOT2 do not include the development of applications, but **only their integration and pre-operational validation in the EUCISE2020 environment**. The interested tenderers are required to give evidence of the existence of their innovative service/s in one or more of the application domains listed above; each **R&D proposed service shall have a TRL** (Technology Readiness Level) **between 6 and 8** in the TRL scale of H2020 .

