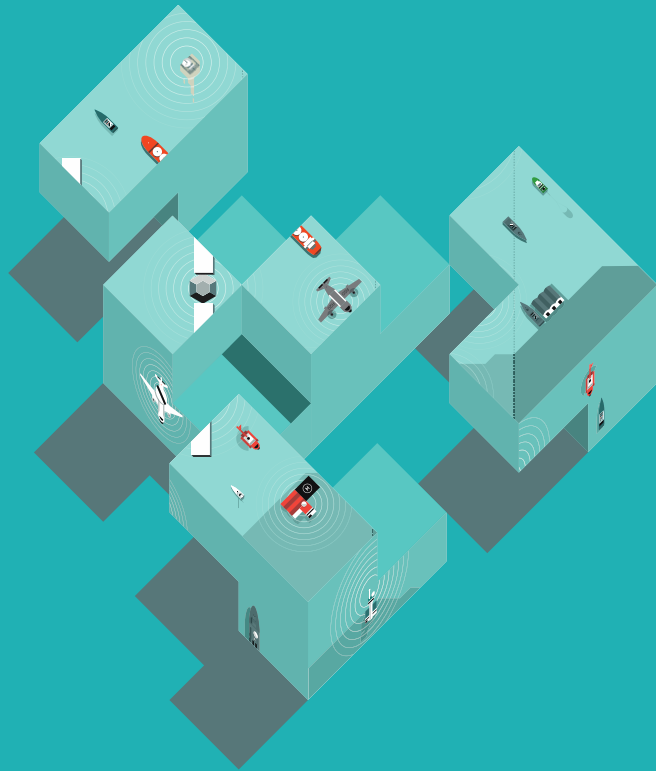Maritime
CISE
Common Information Sharing Environment

Status of the Interoperability Projects under the 2014-2015 Calls

Member States Expert Sub-Group on the Integration of Maritime Surveillance and Security

Brussels, 07 July 2017

Jesus Hermida

European Commission

Introduction

The Commission (DG MARE) launched annual calls for project proposals opened to national authorities

- Under the European Maritime and Fisheries Fund (EMFF) for 2014-2020
- Budget set aside to support the integration of maritime surveillance at national level and across MS
- Managed by EASME *Executive Agency for Small and Medium-sized Enterprises*

Objective: To foster the information exchange across sectors and borders by supporting the improvement of IT interoperability between national authorities' systems

European Commission

Calls for Projects

2014 Call (4,590,000 EUR)

- 7 projects (ES, FI, GR, PT, RO)
- 1-2 years
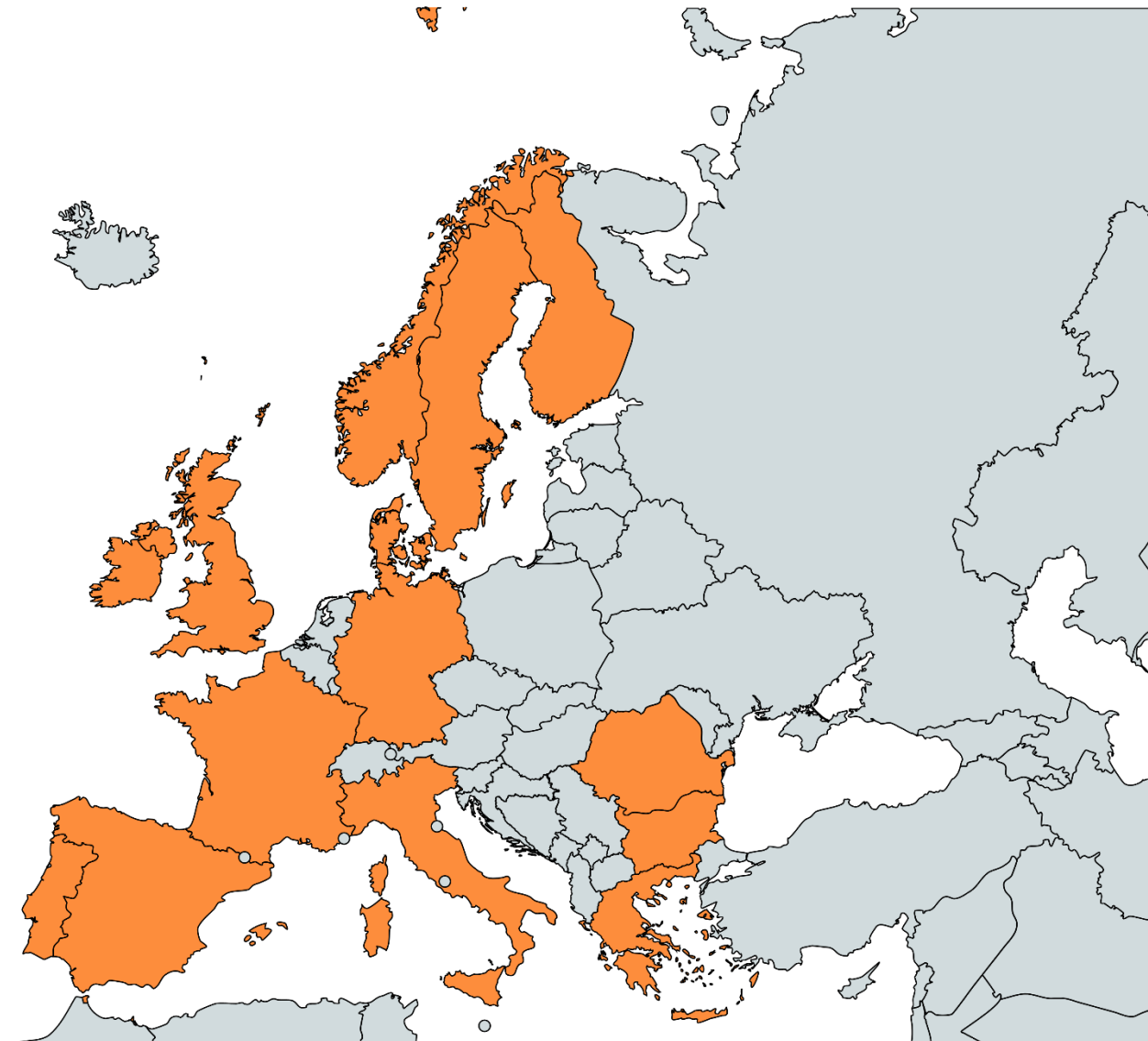- From Jan 2016 to Dec 2017

2015 Call (2,538,000 EUR)

- 3 projects (BG, CY, ES, GR)
- 1-2 years
- From Jan 2017 to Dec 2018

2016-2017 Call (2,490,000 EUR)

- Proposals under evaluation
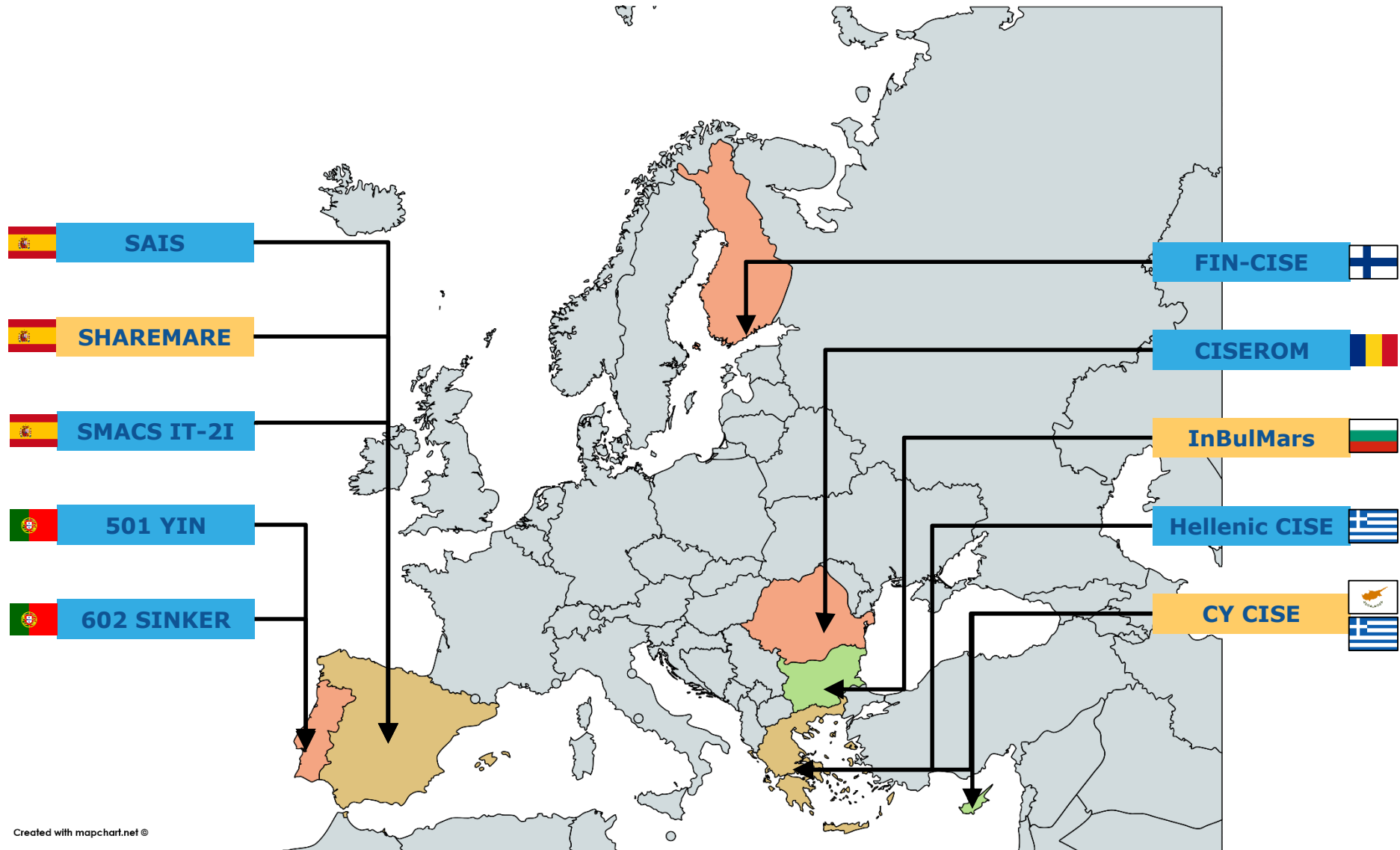- Projects will start in Jan 2018 until Dec 2019

European Commission

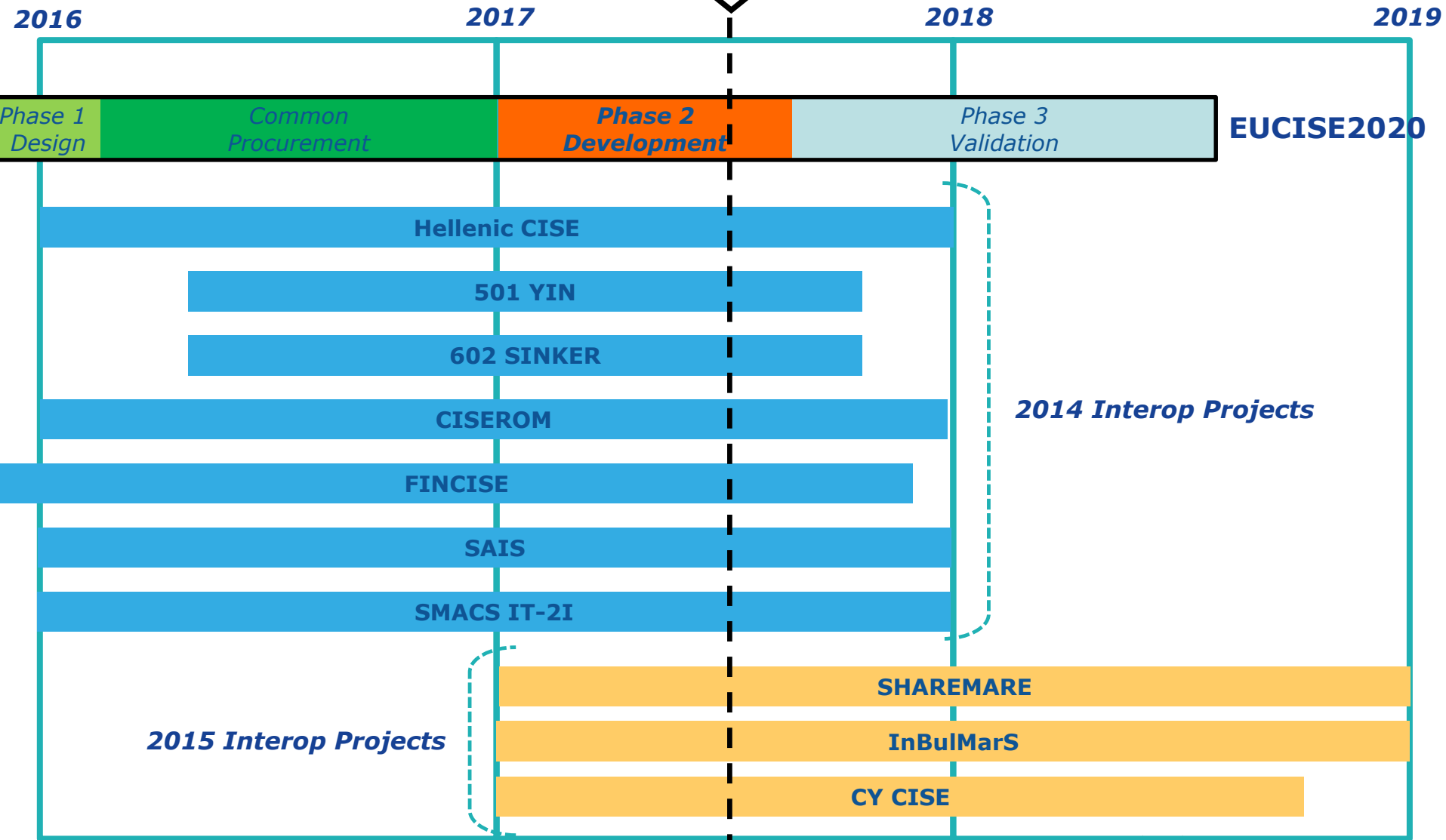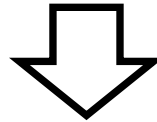# MS in EUCISE2020

MS participating in EUCISE2020

European Commission

MS with Interop Projects

Legend:
- MS involved in the 2014 Call
- MS involved in the 2015 Call
- MS involved in both calls

Projects:
- SAIS
- SHAREMARE
- SMACS IT-2I
- 501 YIN
- 602 SINKER
- FIN-CISE
- CISEROM
- InBulMars
- Hellenic CISE
- CY CISE

Created with mapchart.net ©

European Commission

Schedule

| 2016 | 2017 | | 2018 | 2019 |

Phase 1 Design | **Common Procurement** | **Phase 2 Development** | **Phase 3 Validation** | **EUCISE2020**

Hellenic CISE

501 YIN

602 SINKER

CISEROM

2014 Interop Projects

FINCISE

SAIS

SMACS IT-2I

SHAREMARE

2015 Interop Projects

InBulMarS

CY CISE

6

European Commission

2014 Interop Projects

- Hellenic CISE (study + IT developments)

- 501 YIN (study)

- 602 SINKER (IT developments)

- CISEROM (study)

- FINCISE (study + IT developments)

- SAIS (study + IT developments)

- SMACS (study + IT developments)

European Commission

Hellenic CISE (GR) 01 Jan 2016 – 31 Dec 2017

Legend:
- Existing system
- Developed by the project
- Developed by EUCISE 2020
- Future developments
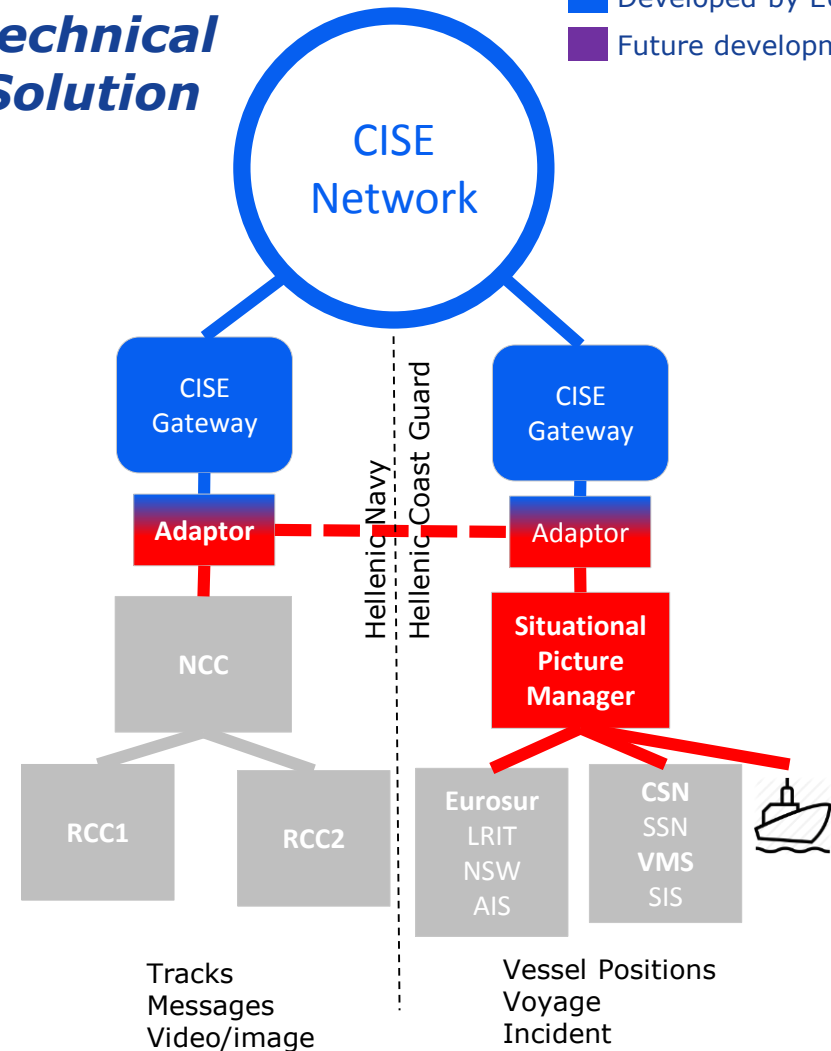
Hellenic Ministry of Defence (Navy)

Hellenic Coast Guard

National Centre of Scientific Research "Demokritos"

Studies

Analysis and identification of user needs

IT Transformation plan

Communication plan

Technical Solution

CISE Network

CISE Gateway

CISE Gateway

Hellenic Navy

Hellenic Coast Guard

Adaptor

Adaptor

NCC

Situational Picture Manager

RCC1

RCC2

Eurosur
LRIT
NSW
AIS

CSN
SSN
VMS
SIS

Tracks
Messages
Video/image

Vessel Positions
Voyage
Incident
…

European Commission

501 YIN (PT) 01 Apr 2016 – 31 Oct 2017

13 authorities

dgpm
Direção-Geral de Política do Mar

Directorate General for Maritime Policy

- Tax and Customs Authority
- Maritime Authority Directorate-General
- Directorate-General of Natural Resources, Safety and Maritime Services
- Directorate-General of Territorial Development
- Portuguese Air Force
- National Republican Guard
- Portuguese Maritime Casualty Prevention and Investigation Office
- Portuguese Sea and Atmosphere Institute
- Portuguese Navy
- Criminal Investigation Police
- Maritime Police
- Portuguese Security Intelligence Service

Technical Solution (Planned)

CISE Network

CISE Gateway

Adaptor

NIPIM@R National Node

NRSM   MADG   DGTD   **Other authorities**

Navy   Other systems

Systems already connected to the national node

Studies

📄 Study on the existing legal framework + Legal Handbook

📄 Requirements for NIPIM@R

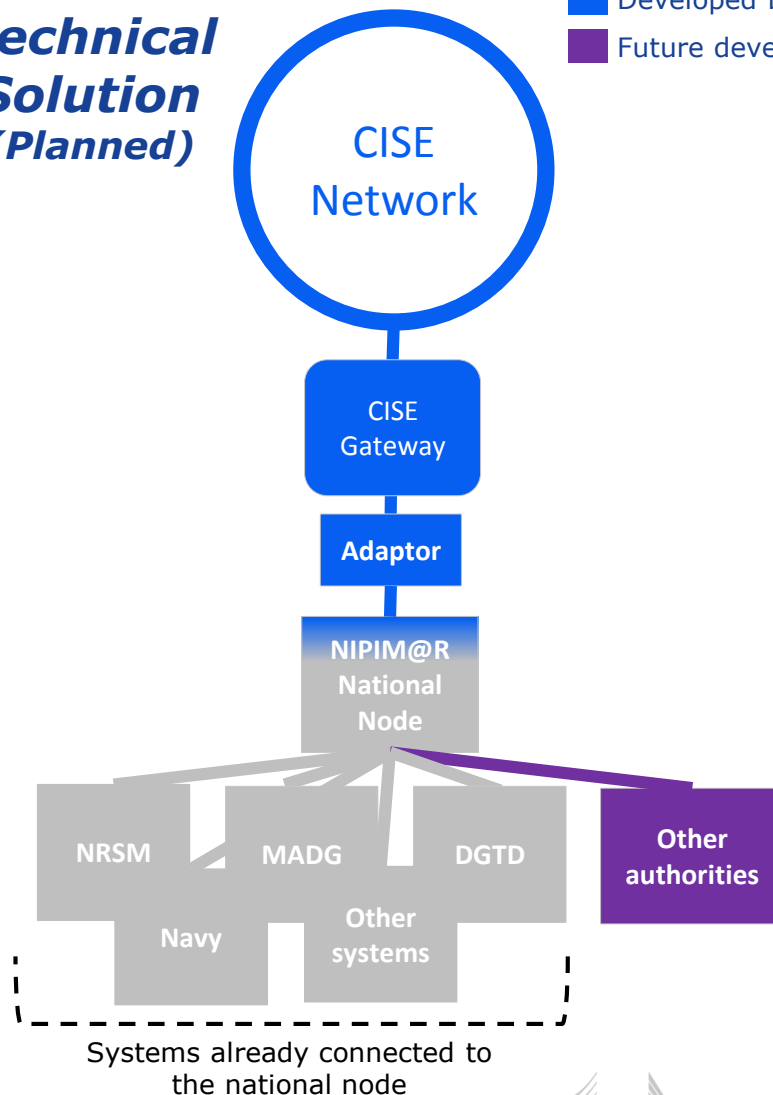📄 Study on Information Gaps + Cost-Benefit analysis

📄 Videos + communication material

📄 National Action Plan for maritime surveillance information sharing

European Commission

602 SINKER (PT) 01 Apr 2016 – 31 Oct 2017

Existing system
Developed by the project
Developed by EUCISE 2020
Future developments

7 authorities

dgpm Directorate General for Maritime Policy
Direção-Geral de Política do Mar

- Directorate General of Natural Resources, Safety and Marine Services

- Maritime Authority Directorate General

- Directorate General for Territorial Development

- Portuguese Navy

- Criminal Investigation Police

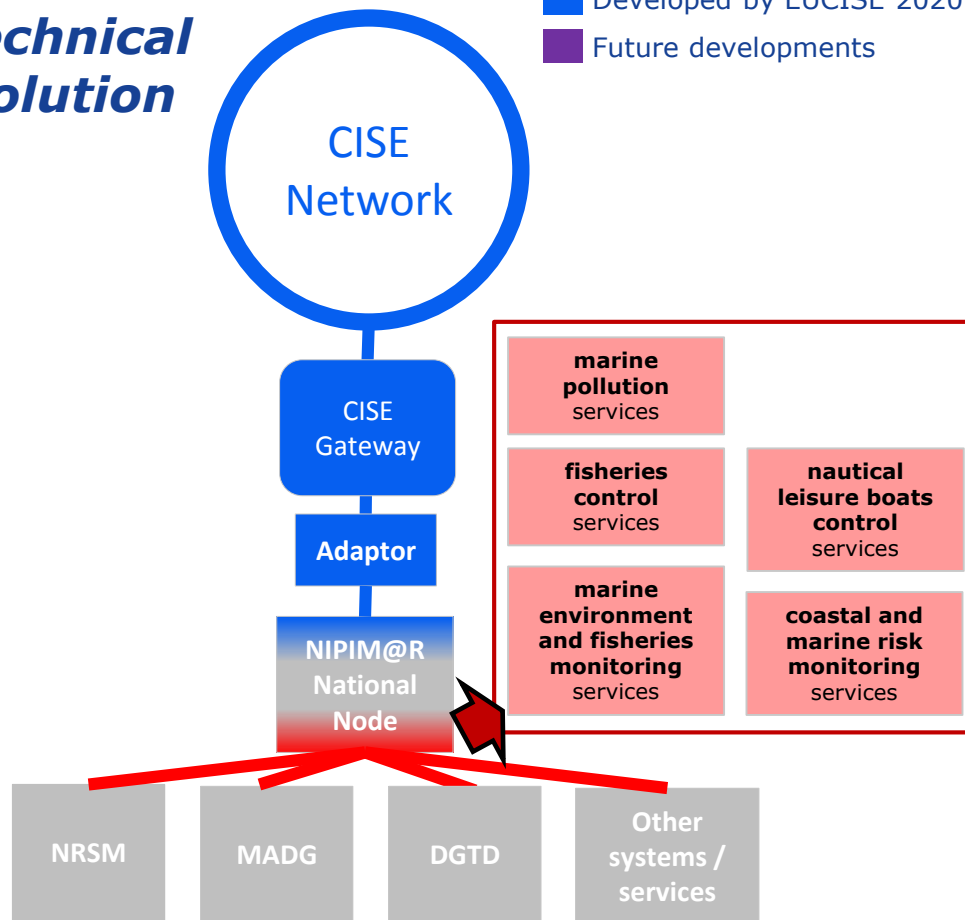- Portuguese Security Intelligence Service.

Technical Solution

CISE Network

CISE Gateway

Adaptor

NIPIM@R National Node

marine pollution services

fisheries control services

nautical leisure boats control services

marine environment and fisheries monitoring services

coastal and marine risk monitoring services

NRSM **MADG** **DGTD** **Other systems / services**

Studies

📄 Service specification documents

📄 Requirement documents

📄 Validation reports

European Commission

CISEROM (RO) 01 Jan 2016 – 31 Dec 2017

Legend:
- Existing system
- Developed by the project
- Developed by EUCISE 2020
- Future developments

General Inspectorate of the Romanian Border Police

Romanian Naval Authority

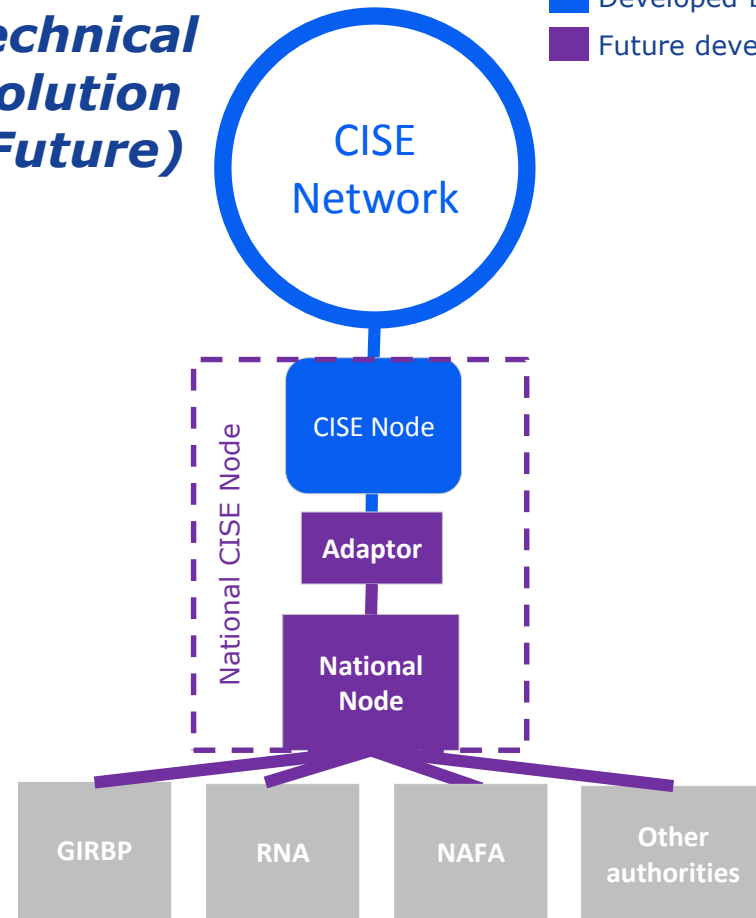National Agency for Fishery and Aquaculture

Studies

Terms of Reference for the Feasibility study

Feasibility Study for the development of the national node
- Stakeholders matrix
- Requirements
- Analysis of the possible solutions
- Technical specifications

Technical Solution (Future)

CISE Network

National CISE Node

CISE Node

Adaptor

National Node

GIRBP | RNA | NAFA | Other authorities

European Commission

FINCISE (FI) 01 Dec 2015 – 30 Nov 2017

Legend:
- ⬜ Existing system
- 🟥 Developed by the project
- 🟦 Developed by EUCISE 2020
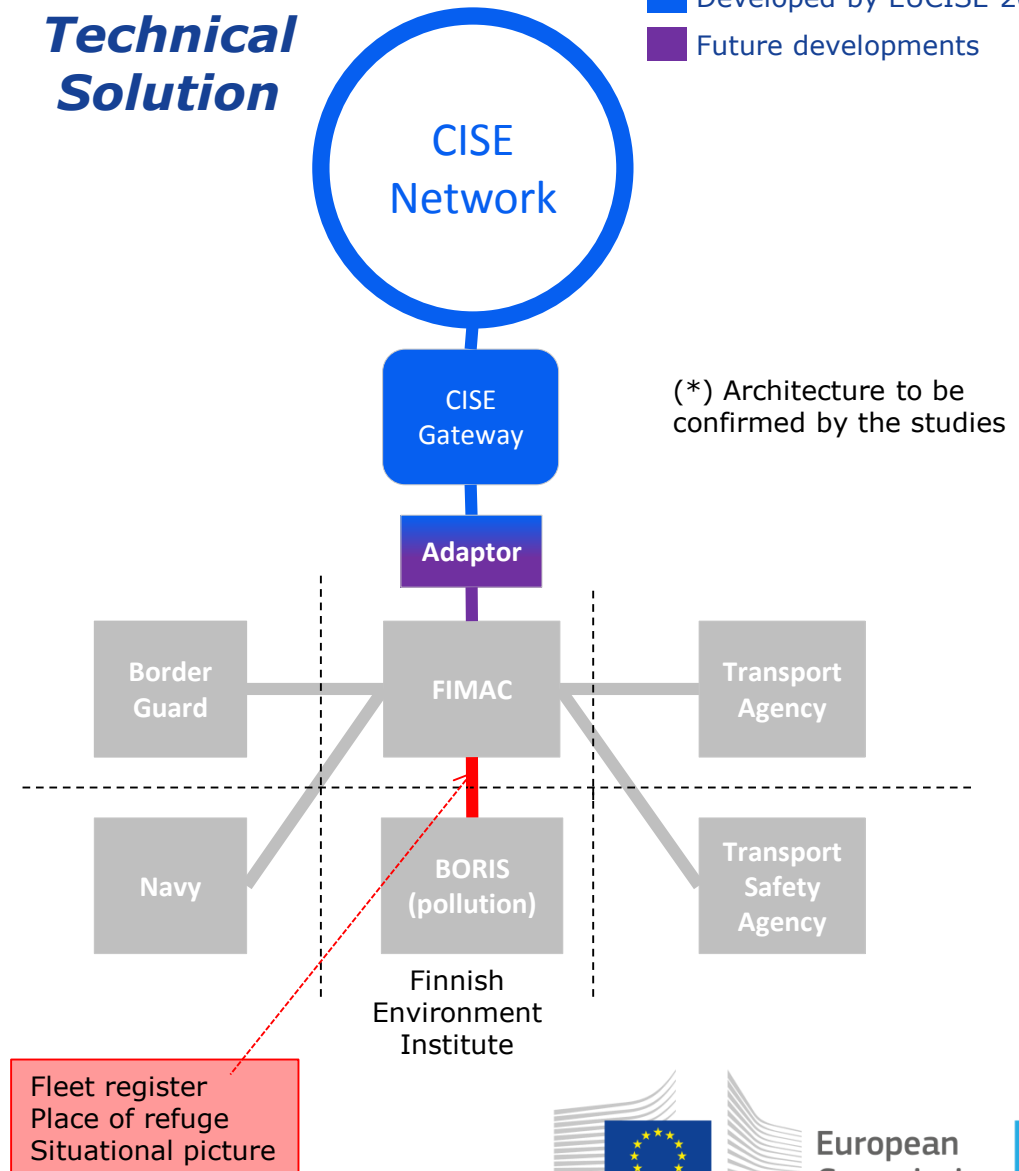- 🟪 Future developments

Finnish Border Guard

Finnish Transport Agency

Finnish Transport Safety Agency

Finnish Navy

Finnish Environment Institute

Studies

- Architecture for different situation pictures
- Data and information service catalogue
- Roadmap towards CISE

Technical Solution

CISE Network

CISE Gateway

(*) Architecture to be confirmed by the studies

Adaptor

| Border Guard | FIMAC | Transport Agency |
| Navy | BORIS (pollution) | Transport Safety Agency |

Finnish Environment Institute

Fleet register
Place of refuge
Situational picture

European Commission

SAIS (ES) 01 Jan 2016 – 31 Dec 2017

Guardia Civil
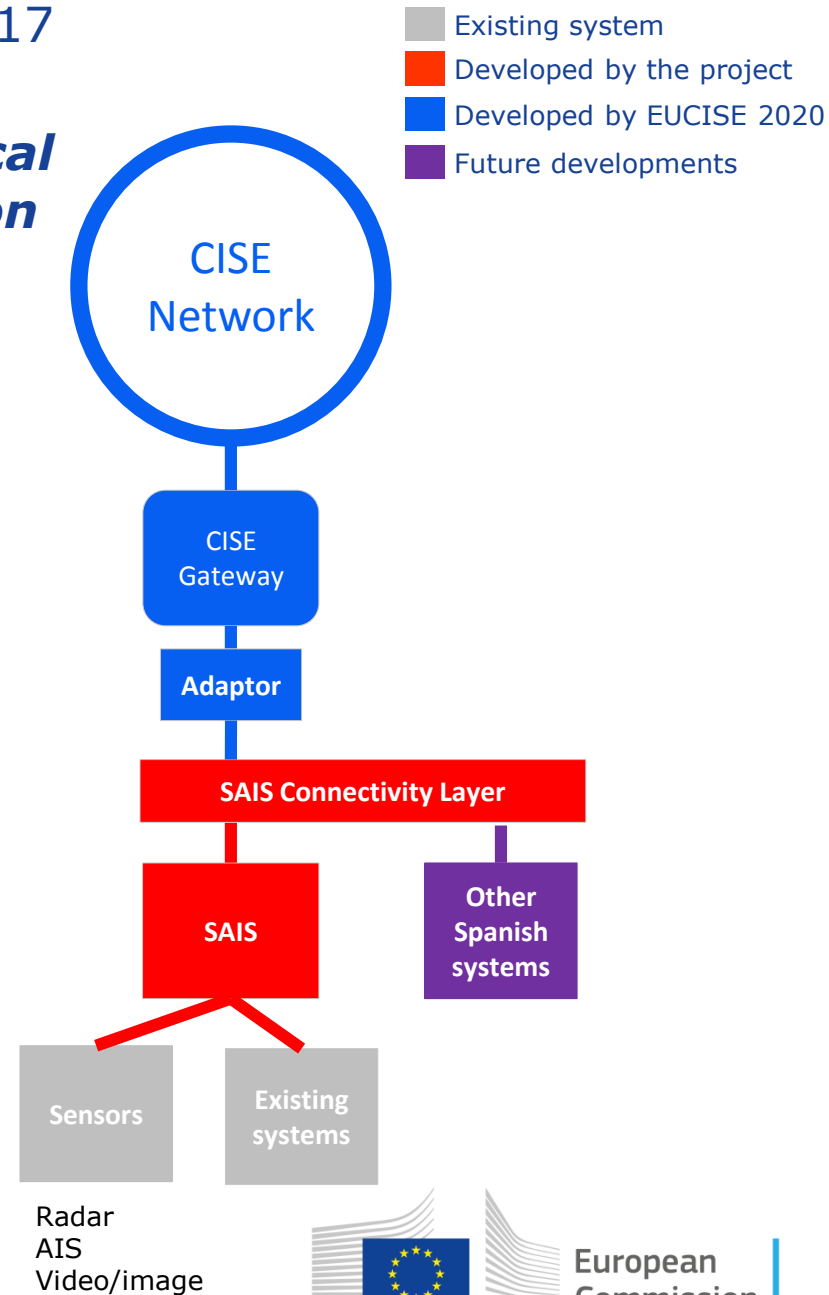
Studies

📄 Analysis and identification of user needs

📄 Technical specifications

📄 Communication plan

Technical Solution

Legend:
- Existing system
- Developed by the project
- Developed by EUCISE 2020
- Future developments

CISE Network

CISE Gateway

Adaptor

SAIS Connectivity Layer

SAIS

Other Spanish systems

Sensors

Existing systems

Radar
AIS
Video/image

European Commission

SMACS IT-2I (ES) 15 Jan 2016 – 15 Jan 2018

Legend:
- Existing system (grey)
- Developed by the project (red)
- Developed by EUCISE 2020 (blue)
- Future developments (purple)

Spanish Navy

Spanish Tax Agency and Customs Department

Secretariat General of Fisheries – Section on Fisheries Control and Inspection (SEGEPESCA)
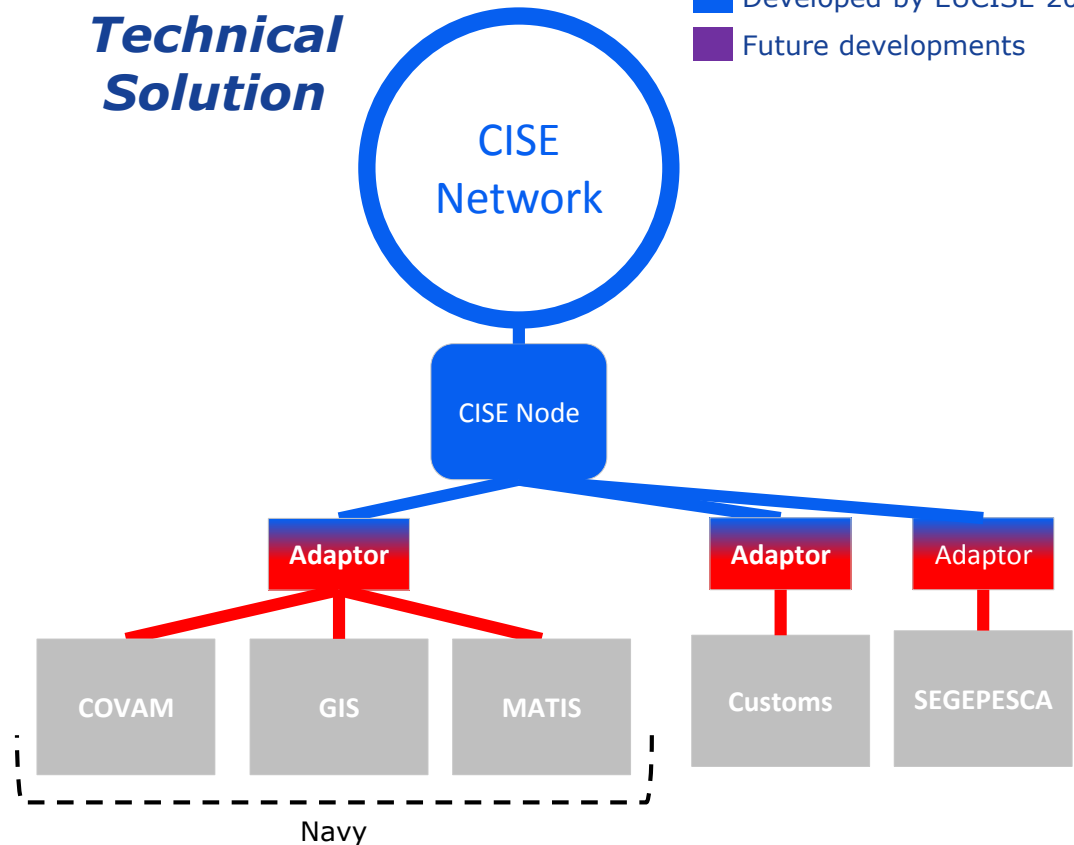
Studies

Technical specifications

System requirements specifications

Technical Solution

CISE Network

CISE Node

Adaptor — Adaptor — Adaptor

COVAM | GIS | MATIS | Customs | SEGEPESCA

Navy

Each partner will manage a different adaptor in the same CISE Node.

European Commission

2015 Interop Projects

- SHAREMARE (study + IT developments)

- CY CISE (study + IT developments)

- InBulMarS (study)
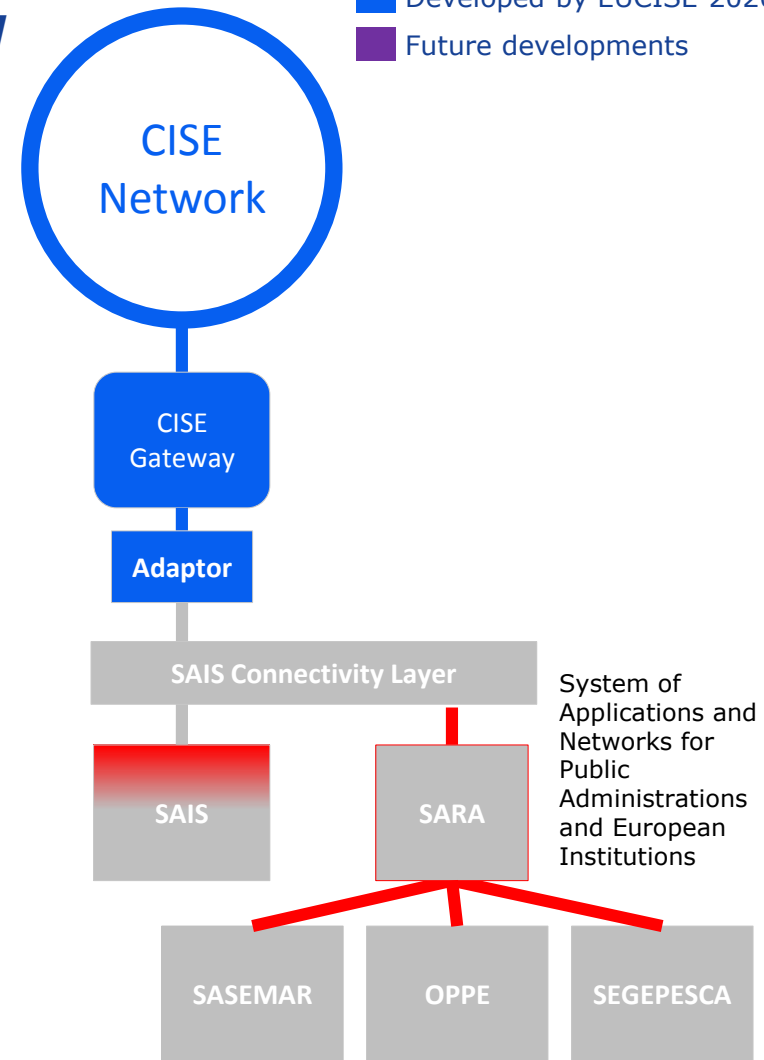
European Commission

SHAREMARE (ES) 01 Jan 2017 – 31 Dec 2018

Guardia Civil

Spanish Search and Rescue Agency (SASEMAR)

National Ports Agency (OPPE)

Secretariat General of Fisheries – Section on Fisheries Control and Inspection (SEGEPESCA)

Technical Solution

CISE Network

CISE Gateway

Adaptor

SAIS Connectivity Layer

SAIS

SARA

System of Applications and Networks for Public Administrations and European Institutions

SASEMAR

OPPE

SEGEPESCA

Studies

Analysis and identification of user needs on information sharing

Identification of the available systems

Technical specifications / validation strategy

European Commission

CYCISE (CY+GR) 01 Jan 2017 – 31 Oct 2018

Legend:
- Existing system
- Developed by the project
- Developed by EUCISE 2020
- Future developments

National Centre of Scientific Research "Demokritos" (GR)
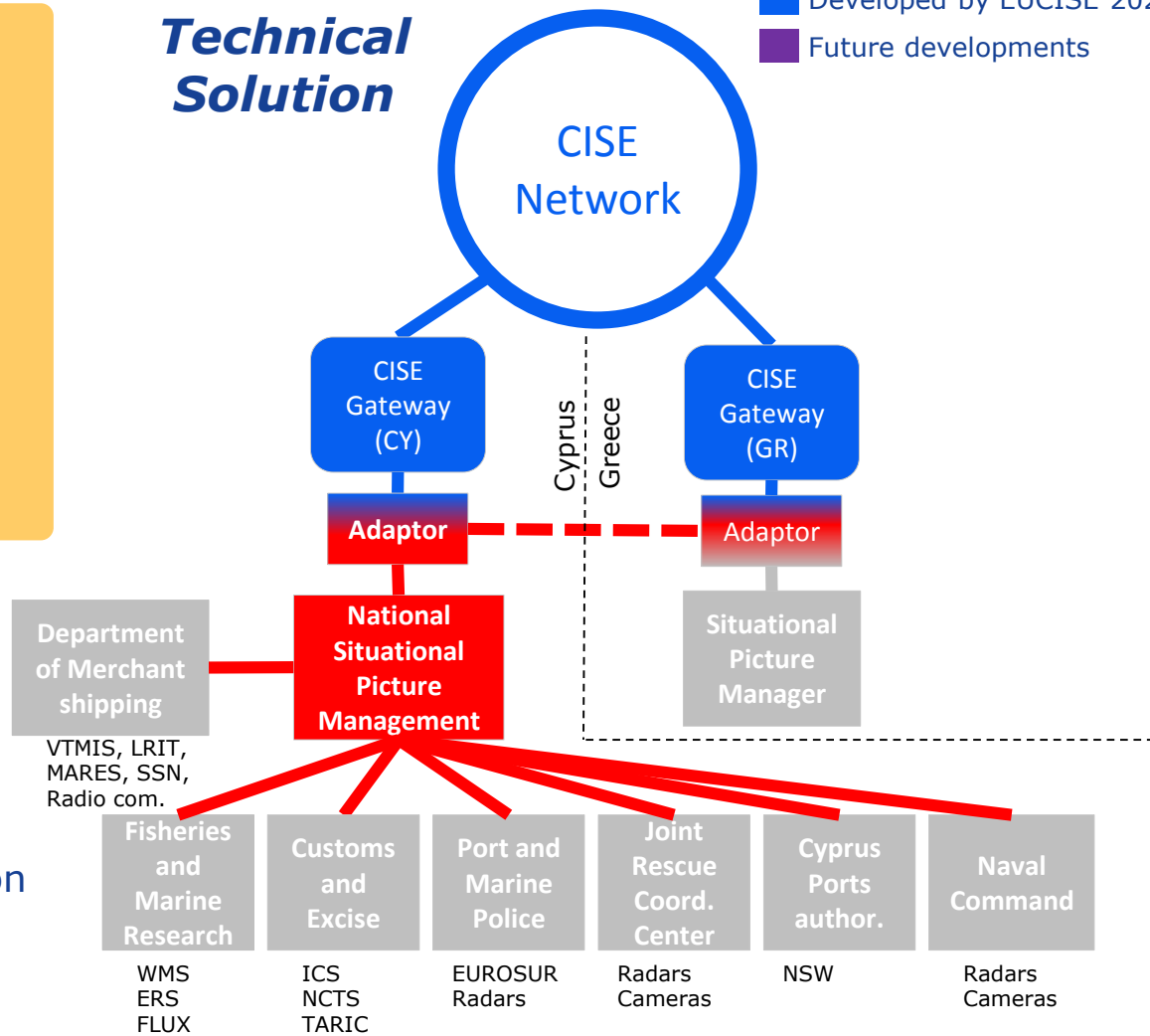
Department of Merchant Shipping (CY)

Hellenic Ministry of Defense

KIOS research centre (CY)

Technical Solution

CISE Network

CISE Gateway (CY)

Cyprus | Greece

CISE Gateway (GR)

Adaptor

Adaptor

National Situational Picture Management

Situational Picture Manager

Department of Merchant shipping

VTMIS, LRIT, MARES, SSN, Radio com.

Fisheries and Marine Research	Customs and Excise	Port and Marine Police	Joint Rescue Coord. Center	Cyprus Ports author.	Naval Command
WMS ERS FLUX	ICS NCTS TARIC	EUROSUR Radars	Radars Cameras	NSW	Radars Cameras

Studies

- User need study (cross-border)
- Definition of new information study
- System specifications

European Commission

InBulMarS (BG) 01 Jan 2017 – 31 Dec 2018

Existing system
Developed by the project
Developed by EUCISE 2020
Future developments

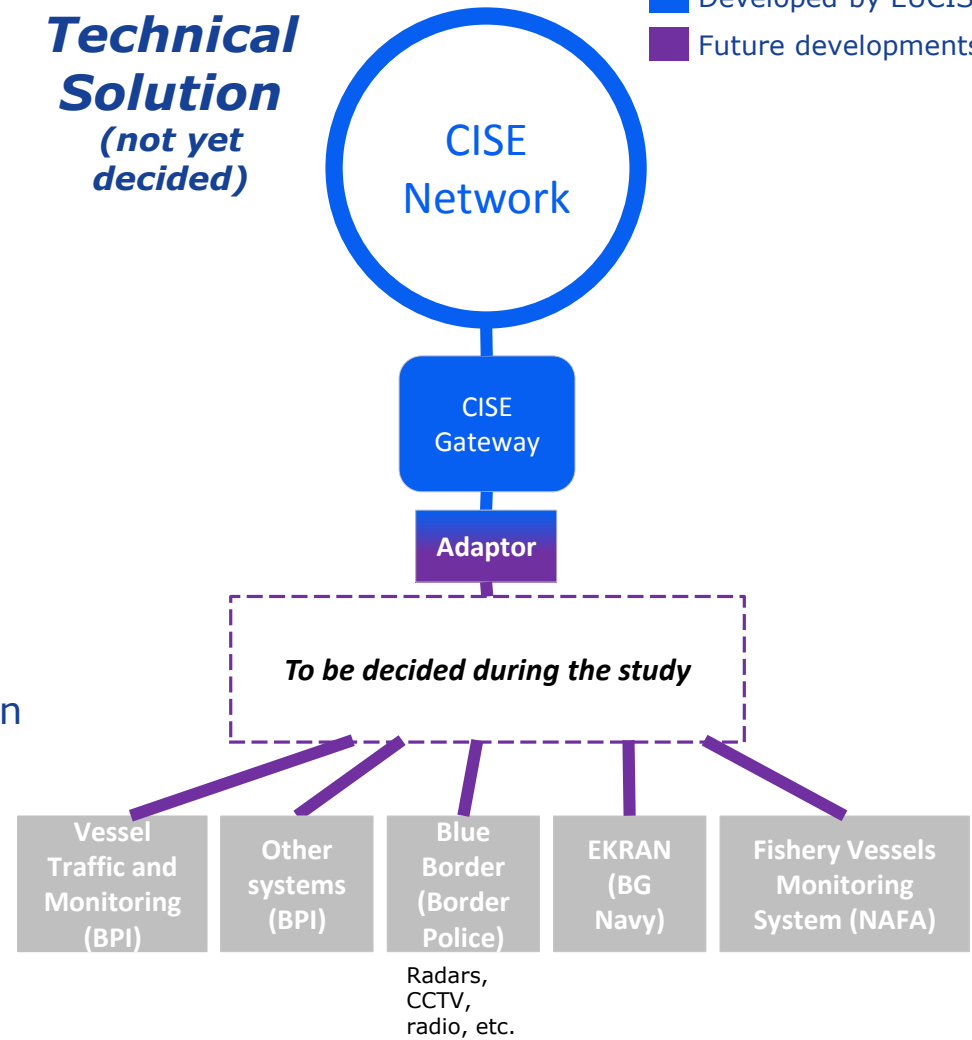Bulgarian Maritime Administration

National Customs Agency

Bulgarian Navy

Bulgarian Ports Infrastructure Company (BPI)

National Agency for Fisheries and Aquaculture

Technical Solution
(not yet decided)

CISE Network

CISE Gateway

Adaptor

To be decided during the study

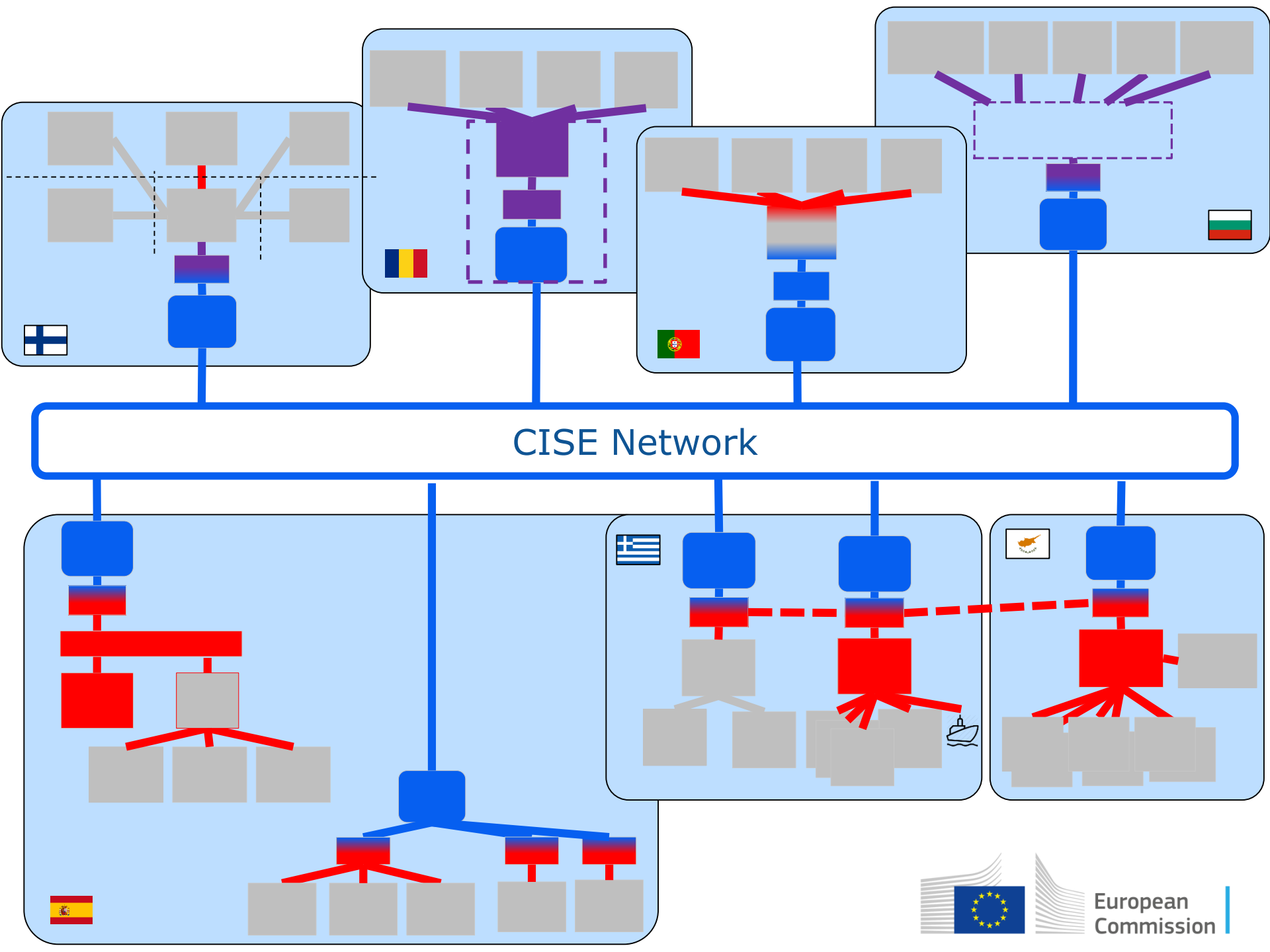| Vessel Traffic and Monitoring (BPI)	Other systems (BPI)	Blue Border (Border Police)	EKRAN (BG Navy)	Fishery Vessels Monitoring System (NAFA)

Radars, CCTV, radio, etc.

Studies

Analysis of the existing information systems carrying out surveillance and intervention at sea

Legal analysis

Requirements and tech specs for future developments

European Commission

CISE Network

Thank You!

For more information:

Maritime Forum: https://webgate.ec.europa.eu/maritimeforum/en/cise

Twitter: ***@EU_ScienceHub, @EU_MARE, #EUCISE2020***

YouTube: ***https://www.youtube.com/watch?v=EDkexwhVUVE***

Soon :)

European Commission