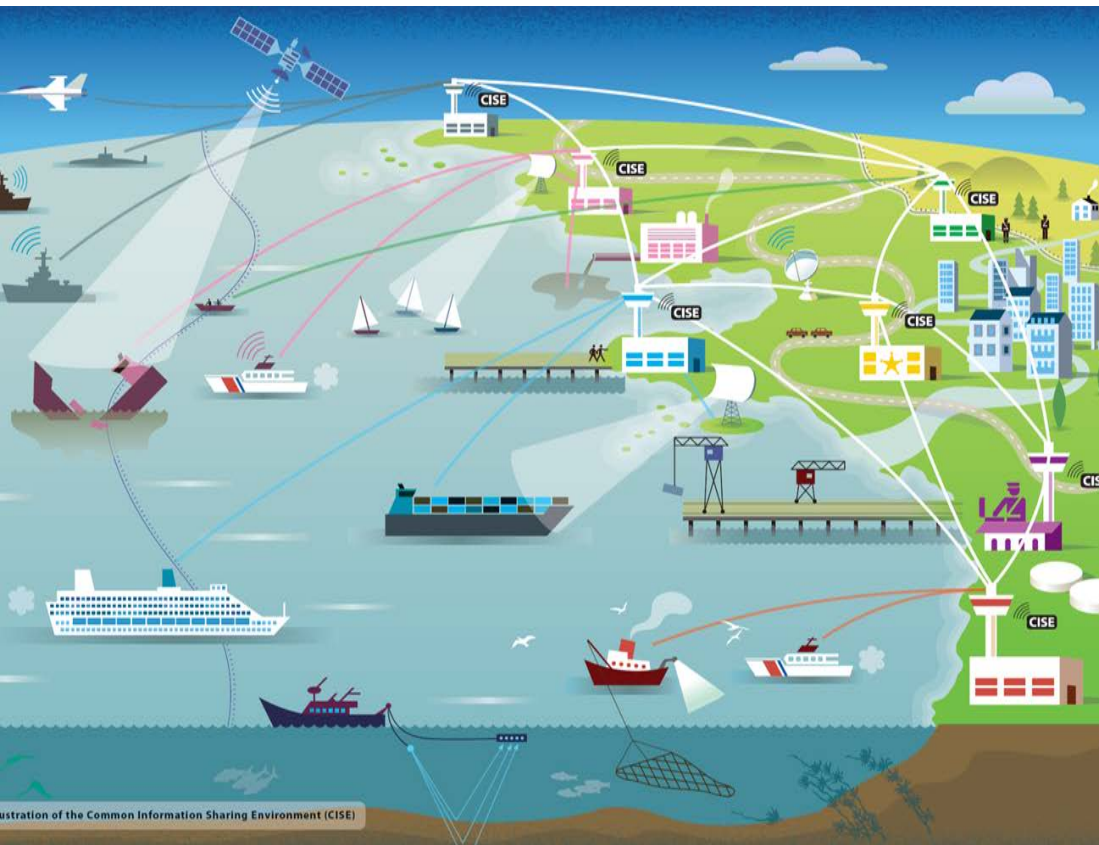


Common Information Sharing Environment (CISE)

INSPIRE Conference 2013

www.jrc.ec.europa.eu



*Serving society
Stimulating innovation
Supporting legislation*

Franco Oliveri
Maritime Affairs Unit – IPSC – DG JRC



Common Information Sharing Environment (CISE) for maritime surveillance

The CISE aims at creating a ***political, cultural, legal and technical environment*** to enable ***information sharing*** between existing and future surveillance systems and networks.

Interoperability between systems should be established in a ***decentralized way*** using modern technologies. It will give all concerned authorities access to the information needed for their missions at sea based on the '***need to know***' and '***responsibility to share***' principles.

Policy background

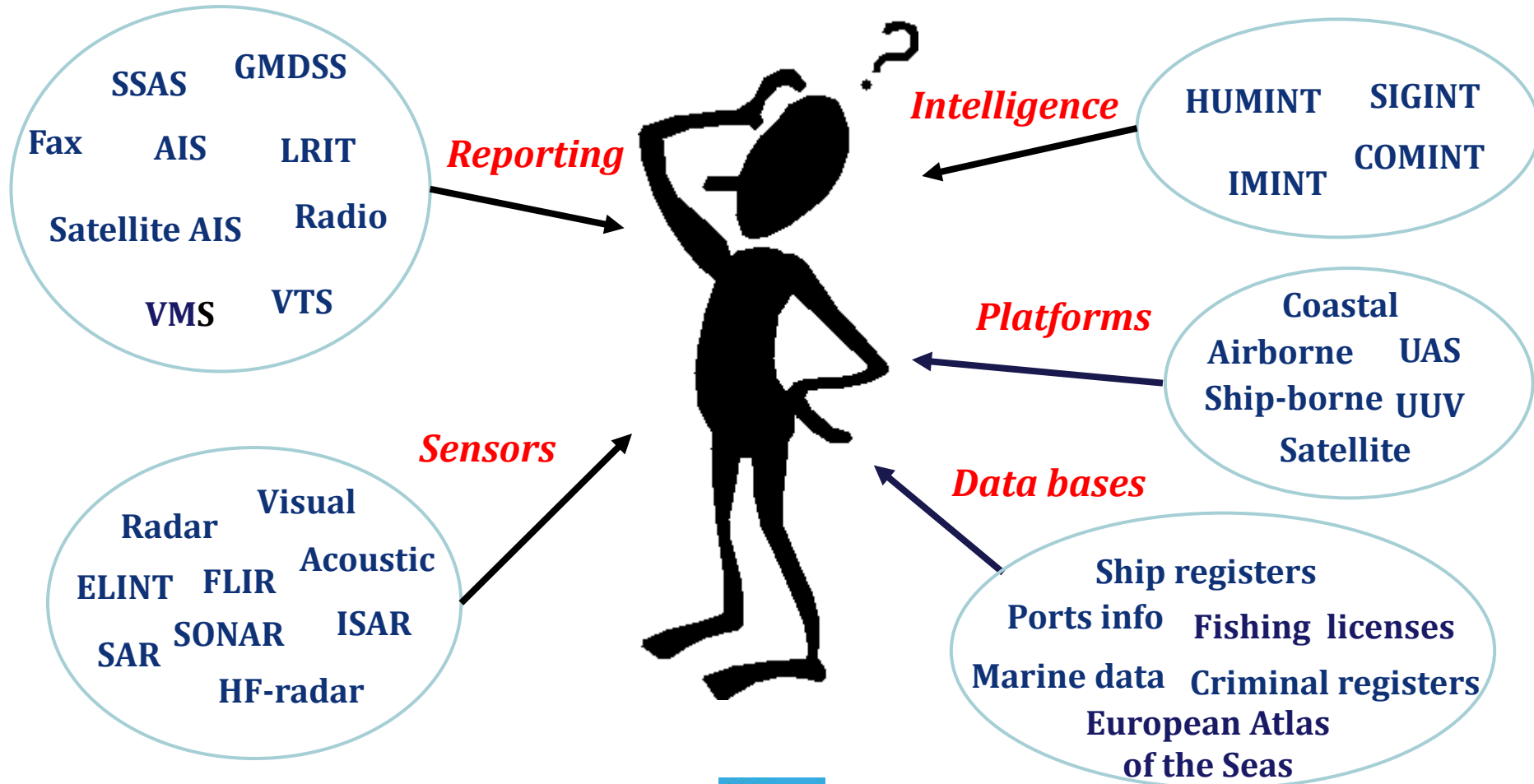
- Commission Communication on an Integrated Maritime Policy for the European Union and Action Plan, presented on 10 October 2007;
- Presidency Conclusions of the European Council on 14 December 2007;
- Council Conclusions on the Integrated Maritime policy on 8 December 2008;
- COM(2009) 538 final of 15.10.2009: Communication: 'Towards the integration of maritime surveillance';
- Council conclusions on integration of maritime surveillance Brussels, 17 November 2009;
- COM(2010) 854 final of 20.10.2010: Communication on a 'Draft Roadmap towards establishing the Common Environment for the surveillance of the EU maritime domain';
- the "Limassol Declaration" on 7 October 2012.

CISE - Guiding principles

1. CISE must allow interlinking any public authority in the EU and in the EEA involved in maritime surveillance.
2. CISE must increase maritime awareness based on need-to-know and responsibility-to-share principles.
3. CISE must privilege a decentralised approach at EU-level.
4. CISE must allow interoperability among civilian and military information systems.
5. CISE must allow interoperability among information systems at the European, national, sectorial and regional level.
6. CISE must privilege reuse of existing tools and technologies.
7. CISE must allow seamless and secure exchanges of any type of information relevant for maritime surveillance.
8. CISE must be sector neutral.
9. CISE must make it possible for information providers to change their service offering.

Maritime Surveillance

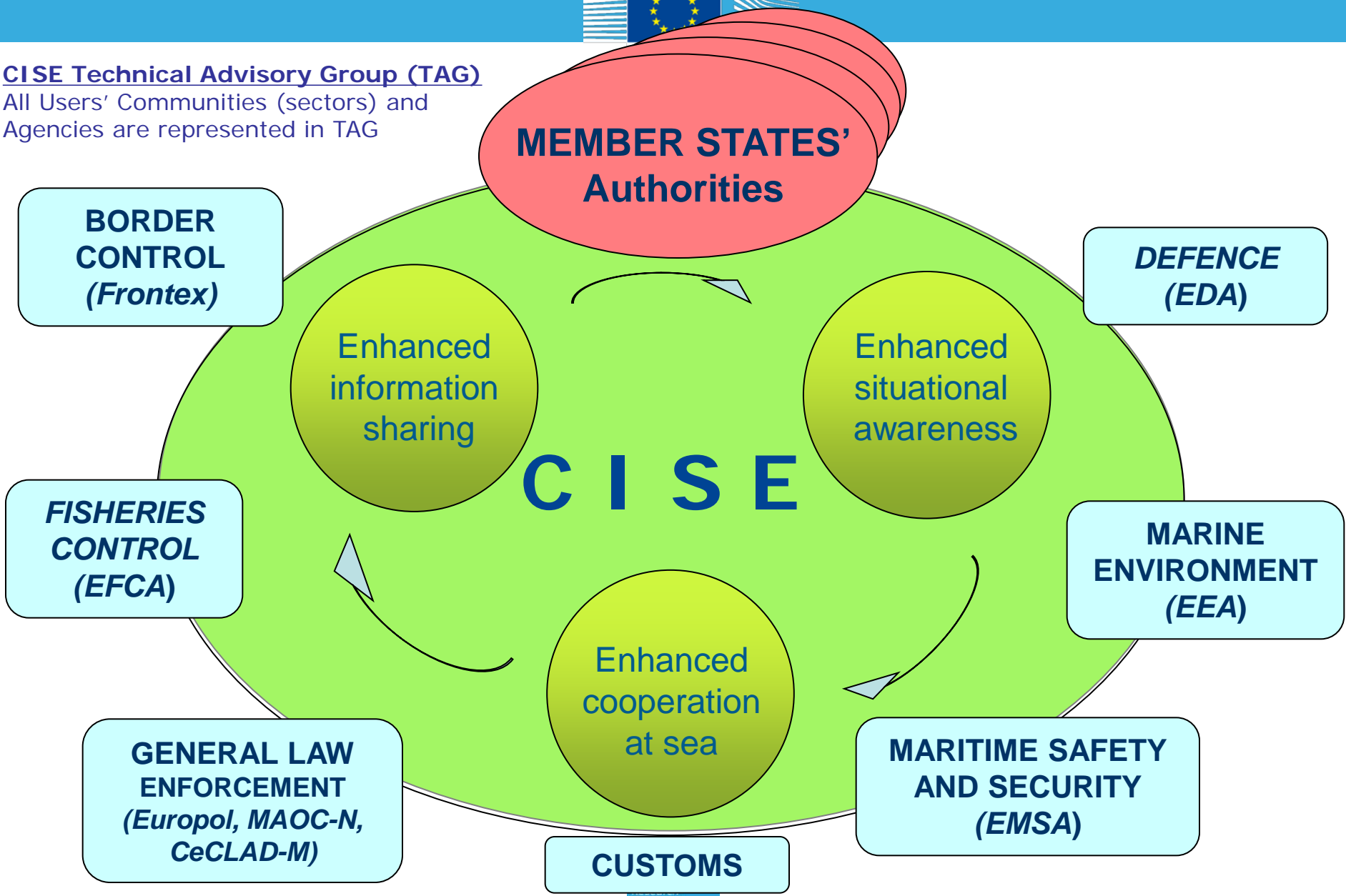
So much information...but not always shared!



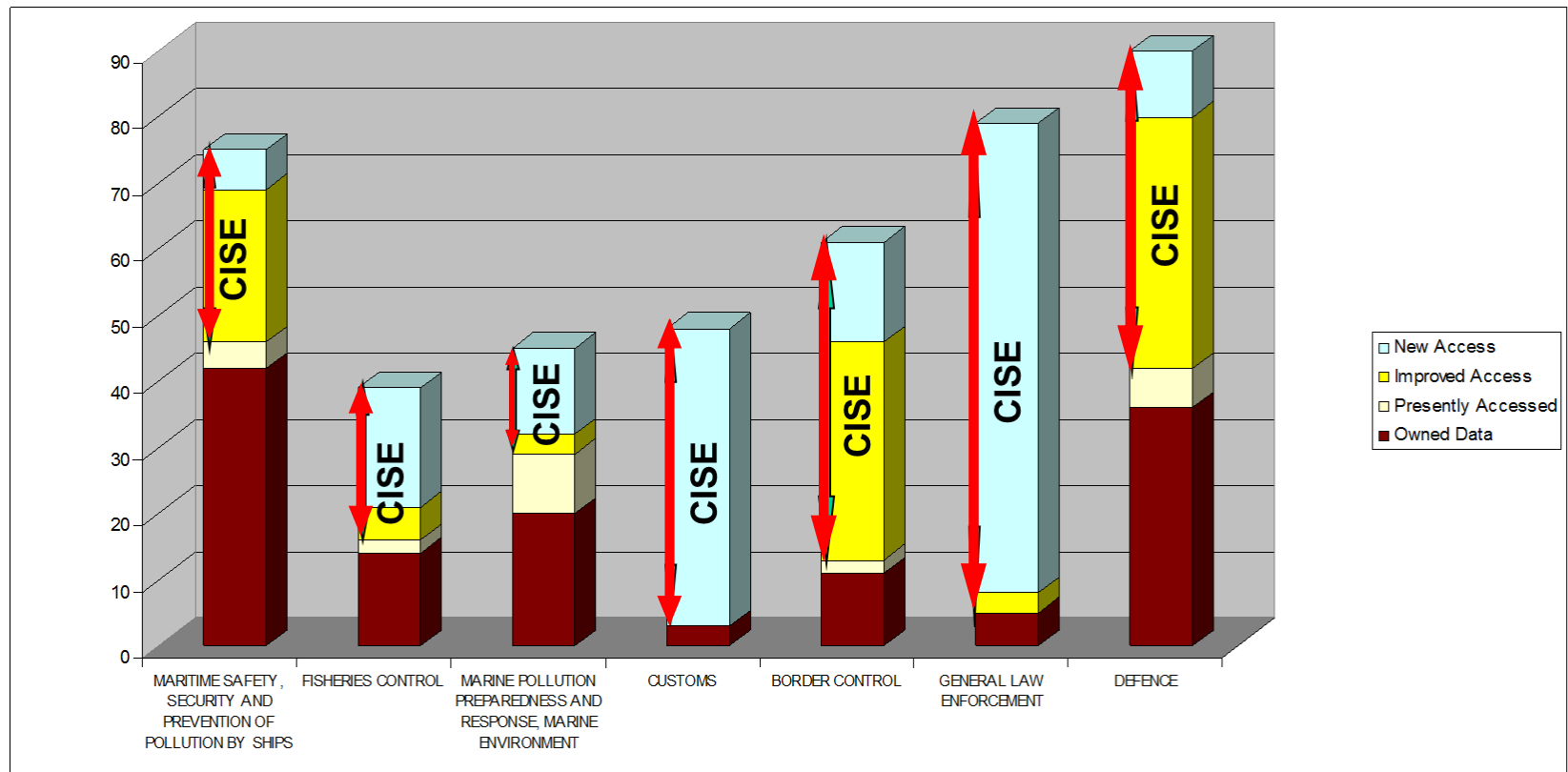


CISE Technical Advisory Group (TAG)

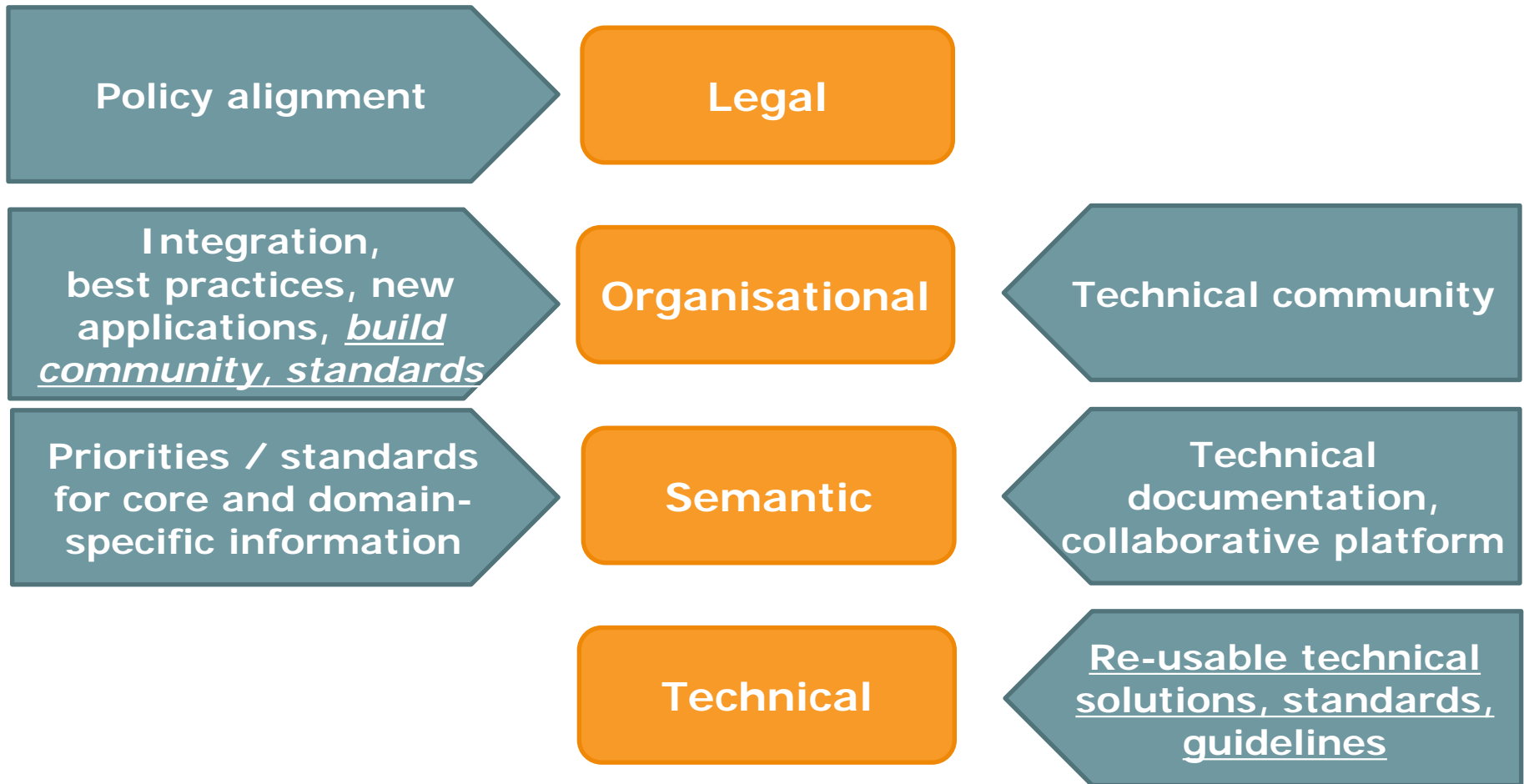
All Users' Communities (sectors) and Agencies are represented in TAG



Information GAP today



European Interoperability Framework Levels





Architectural Building Blocks

Core CISE

Organisational

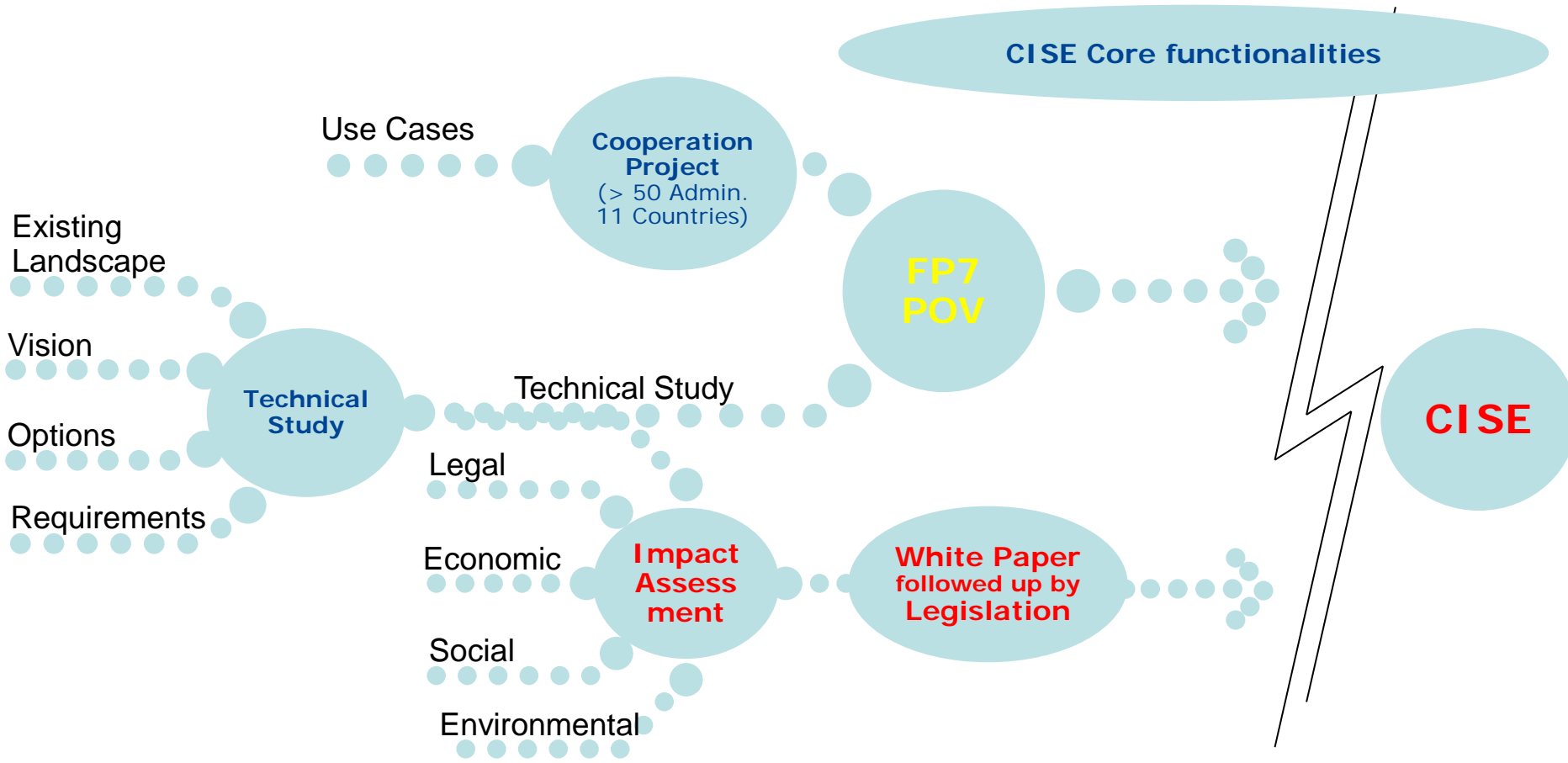
Semantic

Technical

Governance model	Authorities at sea basin level	<input type="radio"/>
	Single authority at Member State level (manages the service Catalogue)	<input type="radio"/>
	Authorities at User Community level	<input type="radio"/>
Service delivery model	EU led initiatives	<input checked="" type="radio"/>
	Multiple authorities at Member State level	<input checked="" type="radio"/>
	Single authority at Member State level	<input type="radio"/>
	Single authority at Member State level and Sea Basin level	<input type="radio"/>
Integrated maritime awareness pictures model	Public authorities	<input checked="" type="radio"/>
	User Communities	<input type="radio"/>
	Member States	<input type="radio"/>
	Member States and Sea Basins	<input type="radio"/>
Specifications	Data classification levels & Access profiles	<input checked="" type="radio"/>
	Information exchange model	<input checked="" type="radio"/>
	Catalogue of datasets and information services	<input checked="" type="radio"/>
Specifications	Messaging protocol	<input checked="" type="radio"/>
	Correlation and fusion rules	<input type="radio"/>
	Service discovery specification	<input type="radio"/>
Reference implement.	Gateway (for data exchange)	<input type="radio"/>
	Node (includes the gateway)	<input type="radio"/>
	Service discovery coordinator	<input type="radio"/>
Services	Catalogue of CISE (technical) services	<input checked="" type="radio"/>

Interoperability Agreements:

- EU-wide CISE interoperability agreement
- Voluntary action
- EU-wide CISE interoperability agreement (voluntary to use)



2012

1 July 2013

2013

Joint
Research
Centre

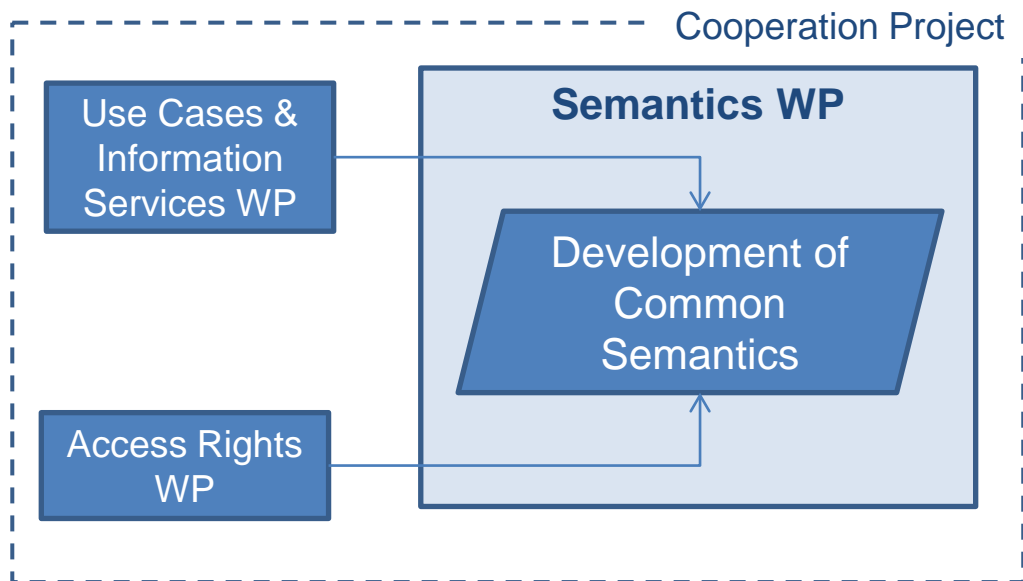
2016

2020



Cooperation Project using ISA's Process and Methodology

Reaching **semantic (interoperability) agreements** on common semantics is a complex and demanding process. It cannot be performed in an ad hoc fashion.



The Cooperation Project will develop (in just 1 year) common data models, code-lists and identifiers to facilitate the exchange of information **among public administrations and EU agencies**



CISE & INSPIRE

- Reusing methodologies & best practices
- Reusing and/or extending data models
- Standardization

Thank you for your attention

Franco Oliveri

TAG Secretary

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IPSC – DG JRC

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