



# ***EMSA supporting decarbonisation of waterborne transport***

**Carlos Pereira**

*Project Officer - Sustainability*

***SMM Hamburg***

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# EMSA and its 5 S: Sustainability

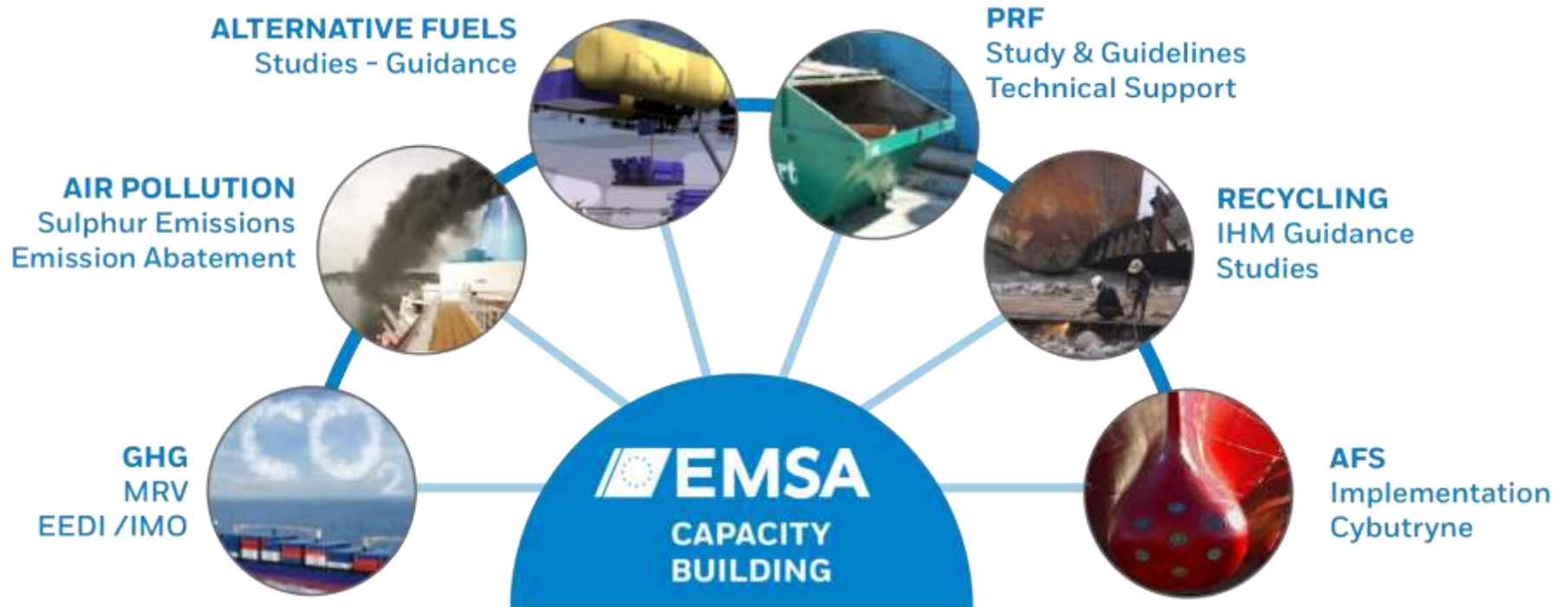
## 1.1 OVERVIEW OF THE 5-YEAR STRATEGY



Modern organisational management

efficient, stakeholder oriented, smart, transparent  
and gender balanced

# EMSA in support of Green Shipping



# Energy Efficiency & Sustainability

## EMSA in support of Green Shipping

### EMSA's role

### EMSA support to both Regional (EU) & International (IMO) debate



- **Participation in IMO** discussions including WG and CG
- **EMSA Studies** assist in the IMO GHG discussions & **IGF Code** developments



- **EMSA Studies & Guidance**
- In-house **Workshops & Trainings**
- Participation in **Conferences & Workshops**



- **Providing Scientific & Technical** support
  - Regulatory Framework
  - EU Studies
  - Evaluation of EU Co-Financed Projects
  - Technical Experts Consultation - **ESSF**



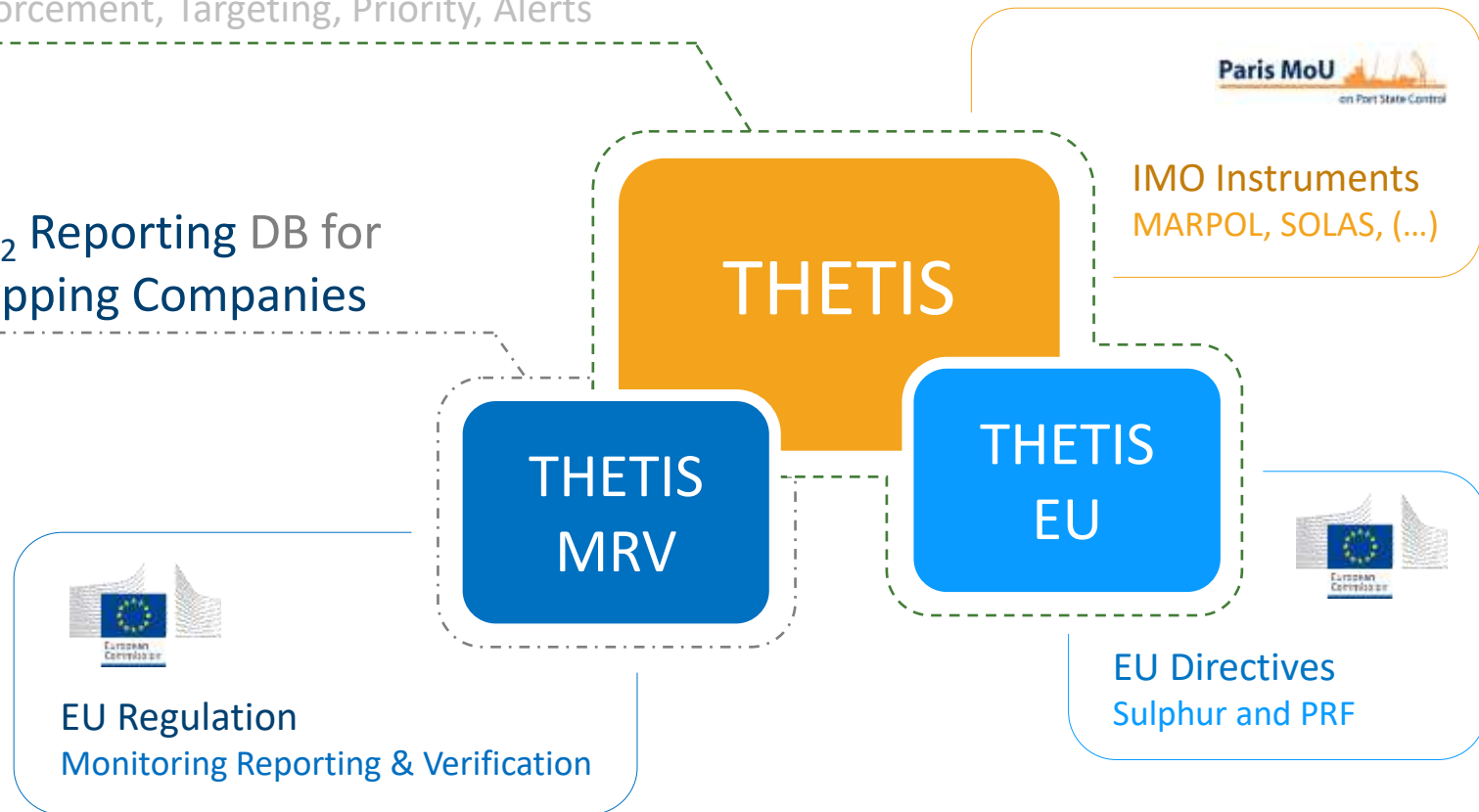
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### Main Projects

#### Inspection DB for Member States

Enforcement, Targeting, Priority, Alerts

#### CO<sub>2</sub> Reporting DB for Shipping Companies

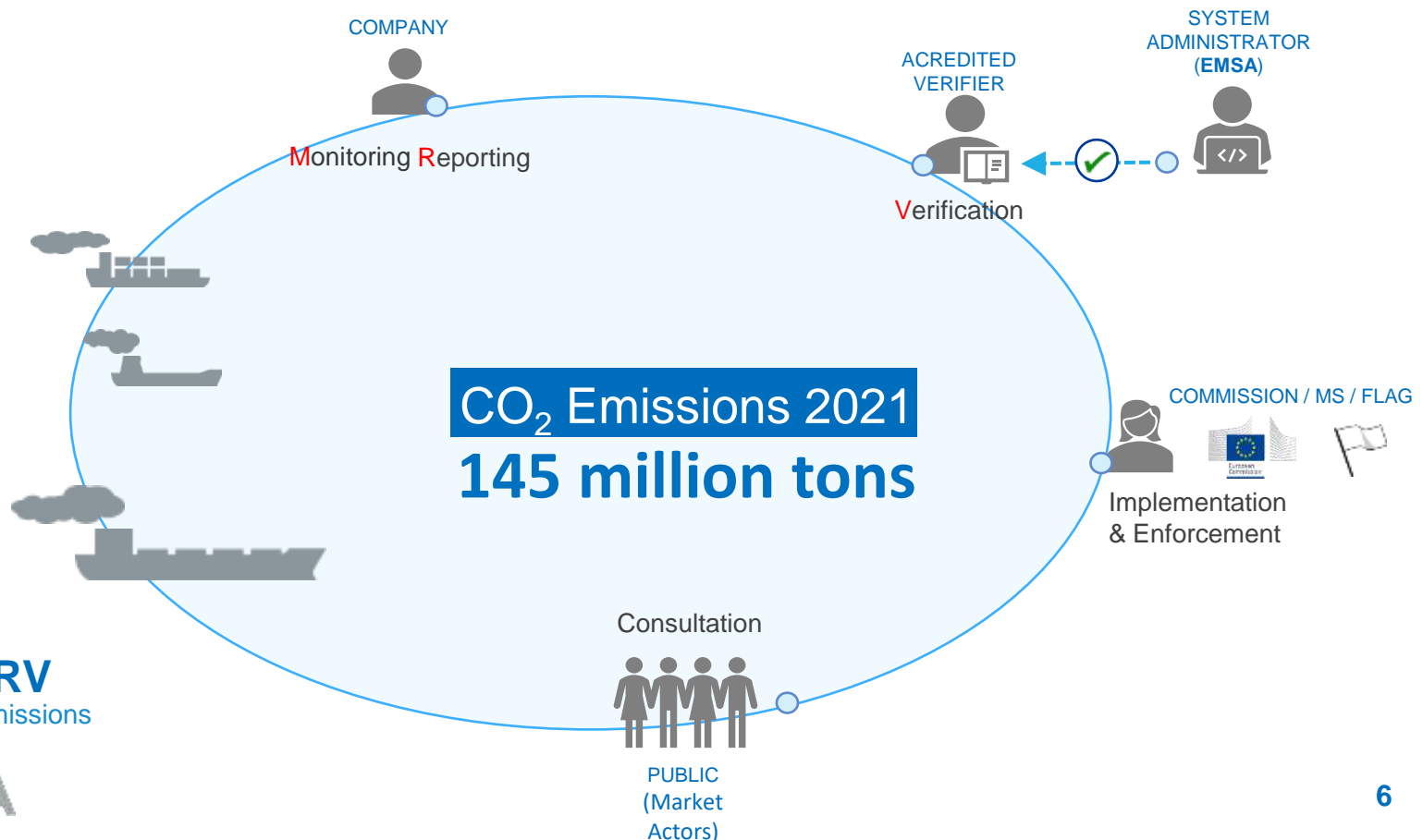


# Energy Efficiency & Sustainability

## EMSA in support of Green Shipping

### THETIS-MRV

***First concrete step to bring the maritime sector in line with the European ambition of climate-neutrality by 2050 and assist to increase the EU's greenhouse gas (GHG) reduction target for 2030 to at least 50% and towards 55 % compared to 1990 levels***





# Energy Efficiency & Sustainability

## EMSA in support of Green Shipping

EE & Fuels

### Energy Efficient (EE) & Alternative-Fuelled Ships - Already a reality!



*CO<sub>2</sub> emission reductions towards a progressive shipping sector decarbonisation & sustainability*



# Alternative Fuels for Shipping

## EMSA Studies

Bio-fuels

LNG

Ethyl/Methyl

Fuel Cells

Batteries

NH3 & H

### EMSA Studies on Alternative Fuels in Shipping - Common Elements in EMSA Studies



Available **Technologies**  
Newbuilds vs Retrofits

Technology

Studies &  
Research

**Research** Programs

Published **Studies** and relevant  
papers

Results of **EU-funded projects**

International and  
EU **legal  
framework**  
**Gap-Analysis**

Regulations

Standards

International and  
Industry Standards  
**Best Practices**

**Risk & Safety**  
evaluation of concept  
applications  
**HAZID Exercise**

Risk &  
Safety

Economical  
Aspects

Environmental  
Impact

Emission  
Reduction  
Potentials  
**Evaluation**

Business Case

**Cost Benefit  
Analysis**

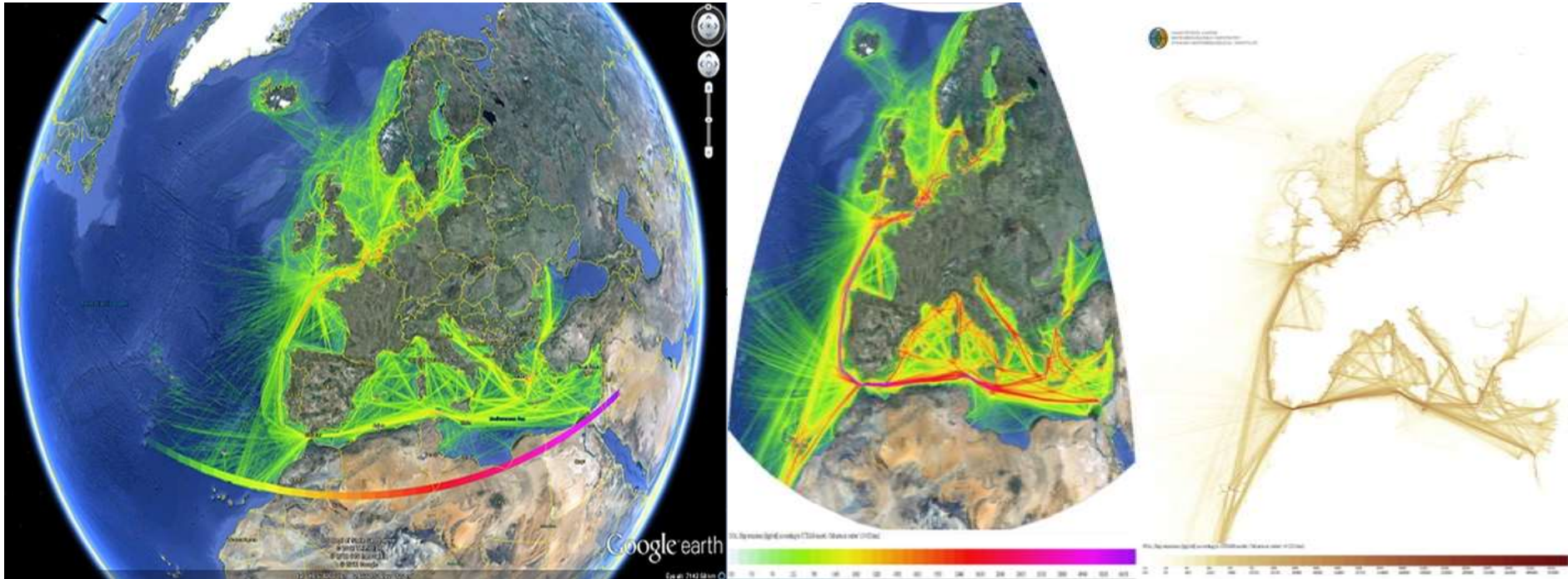




# Energy Efficiency & Sustainability

## EMSA in support of Green Shipping

### Emissions

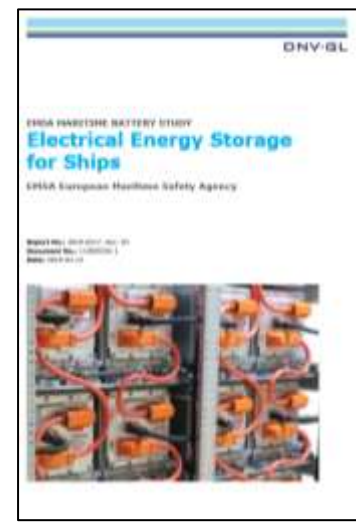
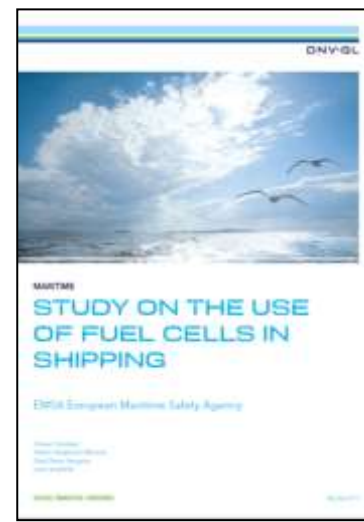


**Source EMSA&FMI Cooperation** - Exhaust emissions from ship traffic in the SafeSeaNet area  
(From left to right -  $\text{CO}_2$ ,  $\text{SO}_x$  and  $\text{NO}_x$ )

# Energy Efficiency & Sustainability

## EMSA in support of Green Shipping

### Studies



### EMSA's Studies towards *Shipping Sustainability*

All EMSA Studies available at:

<http://emsa.europa.eu/implementation-tasks/environment.html>



# Energy Efficiency & Sustainability

## EMSA in support of Green Shipping

Guidance



EMSA's **Guidance & Recommendations** towards *Shipping Sustainability*

All EMSA Guidance available at:

<http://emsa.europa.eu/implementation-tasks/environment.html>

# Thank you for your attention!



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