



# **EU MRV Regulatory Framework - Training**

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# CONTENT

- ✓ The EU gradual approach
- ✓ Essential elements and cycle of compliance
- ✓ First milestones
- ✓ Thetis MRV
- ✓ International dimension

# Gradual approach to reduce GHG emissions

2013 Commission Communication:

- 1. Implementing a system for MRV of emissions*
- 2. Definition of reduction targets for the maritime transport sector*
- 3. Application of actual reduction measures*

... preferably at global level (IMO alignment)

## **Framework for monitoring, reporting and verification (MRV)**

*Regulation (EU) 2015/757 adopted on 29<sup>th</sup> of April 2015*

- Based on a Commission proposal of June 2013 and after intensive stakeholder consultations
- 4 Delegated & Implementing Regulations setting out detailed rules were adopted in 2016 (completed)

## MRV: Scope

- *Ship voyages related to the EEA+ emissions in EEA ports*
- *Flag-neutrality*
- *Exclusion of 'small' emitters equal/below 5000GT*
- *Exclusion of special ships (e.g. military, fishing)*
- *Focus on CO<sub>2</sub> as predominant greenhouse gas emission from ships*
- *Ship efficiency (expressed by different indicators)*

# Essential elements MRV Shipping (1)

## Monitoring:

- *per ship* monitoring
- Lean approach (relying on already monitored data)
- Leaving companies a choice between four monitoring methods

## Reporting:

- *per ship* reporting obligations
- Transparency: publication of aggregated annual data and annual report by the Commission

# Essential elements MRV Shipping (2)

## Verification & accreditation

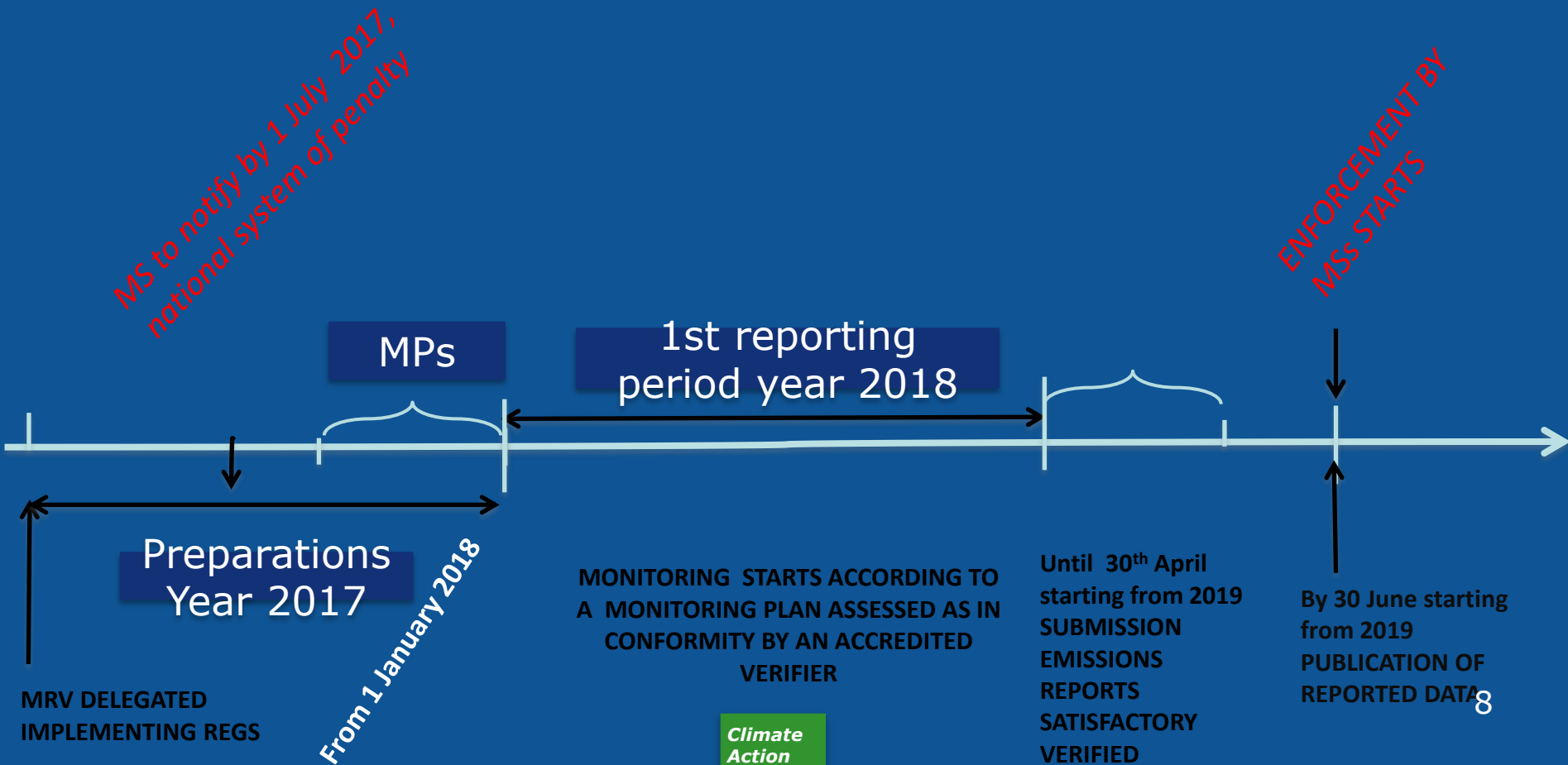
**Third party verification:** legal entities accredited by and EU NAB pursuant to Regulation 765/2008

### **Verifiers** to:

- Assess the conformity of Monitoring Plans
- Verify annual emission reports
- Communicate through THETIS MRV so MRV DoCs can be issued, on board of ship when visiting EU ports

*Delegated Regulation 2016/2072 on verification and accreditation*

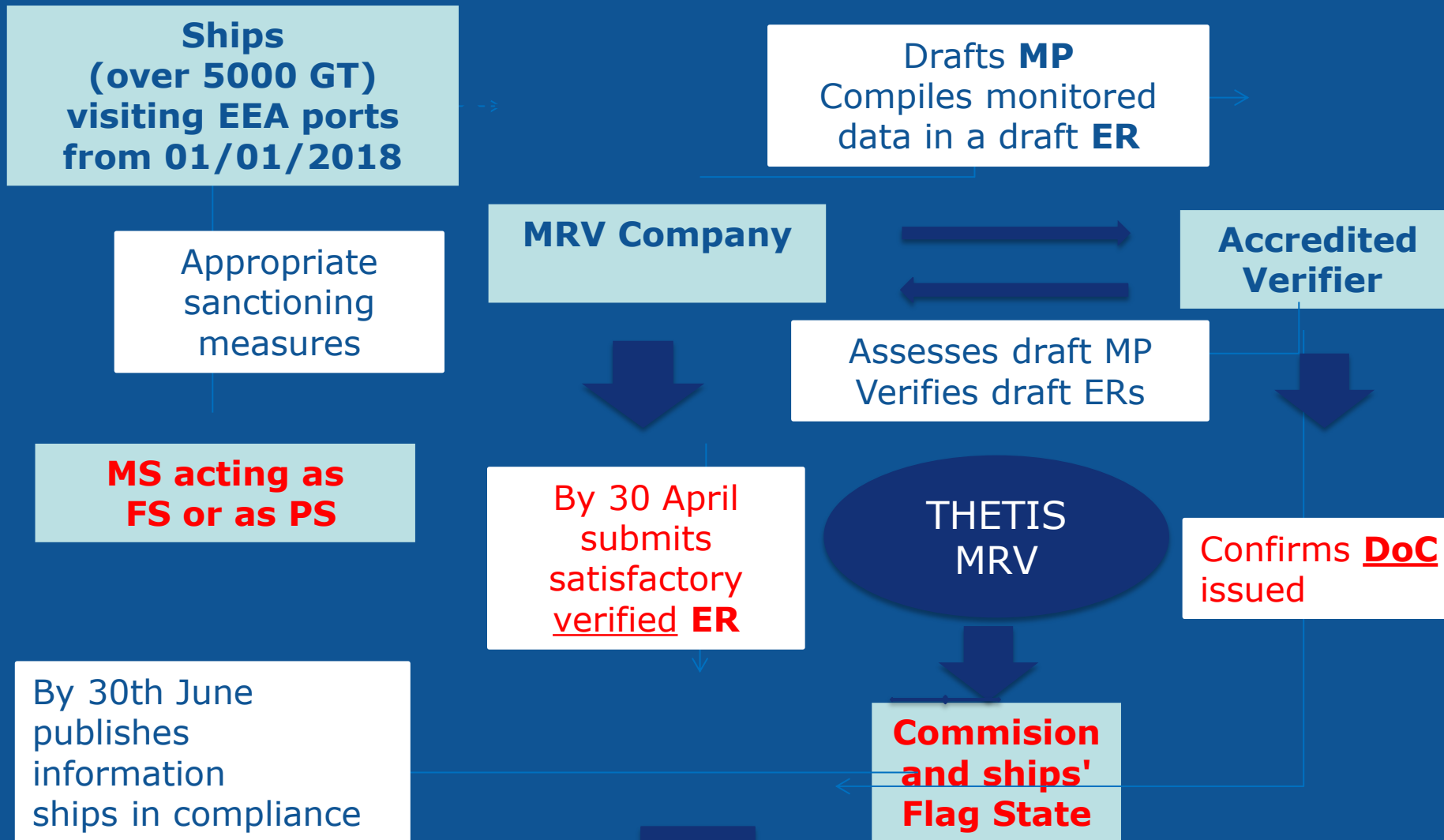
# MRV SHIPPING upcoming deadlines







# MRV Compliance cycle



# First milestones of MRV implementation

- *31 August 2017*: submission of monitoring plans to verifiers
- *31 December 2017*: assessment of monitoring plans by verifiers
- *1 January 2018*: monitoring starts
- *30 April 2019*: submission of satisfactorily verified emissions report (for 2018)
- *30 June 2019*: obligation to carry valid DoC on board
- *30 June 2019*: publication of reported information

## Scope of monitoring: 'per voyage' and annual basis

- *Fuel consumption & CO<sub>2</sub> emissions on EEA related voyages from port of call to port of call. + EEA in-port emissions*
- *Cargo carried calculated per ship*
- *Distance travelled*
- *Transport work*
- *Time spent at sea*
- *Average operation efficiency (EEOI&per distance)*
- *Additional data on a voluntary basis*

# Scope of annual reporting

- Annual reports to Commission/EMSA using web-based tool
- Main content:
  - **Ship Identification**
  - **Technical efficiency** (EEDI/EIV where applicable)
  - **Annual fuel consumption & CO<sub>2</sub> emissions of EEA-related voyages and in EEA ports**
  - **Total annual values for cargo carried, distance travelled, time spent at sea**
  - **Annual average efficiency** (e.g. EEOI, fuel consumption, CO<sub>2</sub> per distance)

# Implementing Regulation on MRV shipping templates

Covers 3 templates required by the MRV Regulation:

- Monitoring plan template
- Emission report template (THETIS MRV)
- Template for documents of compliance (THETIS MRV)

# **Delegated Regulation amending Annex I& II:**

- Compulsory use of emission factors as in the latest applicable IMO Regulations
- Density measurements possible for all monitoring methods
- Distance travelled and time spent at sea calculated 'berth-to-berth'
- Use of actual cargo mass for RoRo cargo ships
- References to MSC.1/circ.1475 for container weight measure

# **Delegated Regulation on shipping V&A: verification issues**

- Competences of verifiers
- Assessment of the conformity by companies to verifiers
- Document to be provided by companies to verifiers
- Risk assessment to be carried out by verifiers
- Verification of the emission report
- Site visits
- Uncertainty; Materiality; Misstatements & non-conformity
- Reasonable assurance
- Content of the verification report
- Recommendations for improvements

# Additional information: FAQs & Guidance

- Set of FAQs for clarification
- Development of guidance and best practise documents
  - *Determination of cargo parameters*
  - *Monitoring of fuel consumption*
  - *Monitoring of distance travelled & time spent at sea*
  - *Monitoring for ships with >300 annual voyages covered by EU-MRV*
  - *Preparation of monitoring plans*



# IMO

- IMO DCS: Documented plan to monitor CO2 emissions (SEEMP)
- MEPC 72 adopted in April 2018 a strategy to reduce shipping emissions



*Thank you for your attention!*

*Please visit our website:*

*[http://ec.europa.eu/clima/policies/transport/shipping/index\\_en.htm](http://ec.europa.eu/clima/policies/transport/shipping/index_en.htm)*

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