Digital Platforms for collecting and analyzing Fuel Oil Consumption Data
Facilitating and Enhancing the implementation of Regulatory requirements

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“Ethical Creatures like humans, can never escape their responsibility...”

E. Papanoutsos, Greek Educator and Philosopher
(Human Enhanced) Green House Effect Consequences:

1,000,000,000,000

Tonnes of CO2 emitted annually from ships

Predicted to increase between 50%-250% by 2050

Air Pollution causes the premature deaths:

- of **500,000** people in Europe each year
- of **6,500,000** people worldwide each year
Impact of upcoming Regulations:

Worldwide Ports
- 50000 Ships

EU Ports
- 13000 Ships

IMO DCS

EU MRV
Applicability of parallel regulations of EU and IMO:

**EU MRV:**
- ≥ 5000 GT Ships
- Regardless of Flag
- Calling EU Port*
- Carrying Cargo or passengers for commercial purposes

**IMO DCS:**
- ≥ 5000 GT Ships
- Regardless of Flag
- Applicable to all voyages
- All Vessels have to report their fuel use
Digital Platform Definition:

A digital platform refers to the software or hardware of a site.

It is a set of tools built on modern cloud technology that makes the development of applications easy.

It is, however, not a product in itself: The services, applications, and solutions on the platform are the products that a customer will interact with and pay for.

Benefits:

- Cost - effectiveness
- Speed and Efficiency
- Data Quality
- Visibility and Tracking
Experience Examples (EU MRV Reg. implementation):

- **Regulatory Bodies**: IMO, EU, Flag Administrations
- **Crew onboard**
- **Independent Verifier**
- **Ship Management Co.**
A closer look at the reporting and verification process:

**Traditional way**

**Preparation of Reports**
Onboard and ashore

**Verification Process**
At Company’s premises

**Digital age way**

**Reporting & Verification Process**
Onboard and ashore
Designing a Digital Platform for Regulatory Compliance:

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Identifying needs to be served and parties involved:

**Crew Onboard**
- Monitoring & Reporting
- Fwd Data to Company

**IMO / Flag States**
- FO Consumption Data Collection System
- SEEMP Requirements
- EEOI Requirements
- Future Requirements

**IMO Mandatory Fuel Consumption Data Collection System**

**Ship Owner / Manager**
- Drafting Monitoring Plan
- Review Ship Reports
- Record keeping of data
- Drafting Emissions Reports

**EU MRV Regulation**

**EU / Emissions Verifiers**
- Assessing Monitoring Plan
- Review data available in company's premises
- Verifying Annual Emissions Reports
Blue Print for a Digital Platform for Regulatory Compliance:

Cloud Storage

Regulatory Body

Flag Administration

DIGITAL PLATFORM
- Facilitation for Regulatory Compliance
- Enhanced implementation

Independent Verifier
Ship Management Company
“We are proud to be participating in this international alliance, and stand alongside each and every one of you in pursuit of the materialization of our common global vision for greener seas”
Thank you all for your attention!