



Scope at a glance

Registered credit rating agency

FSMA accreditation in 2012 (European Securities and Markets Authority)

240+ employees entrepreneurial

culture

Pan-European

Berlin London Madrid Frankfurt Milan Paris Oslo

serving

~380

institutional investors

with total assets under management of ~ € 49tn

coverage **ECB** requirements for ECAF status met in **2018**

The largest **European rating** agency



The challenge





Ship owners and ship managers

meet customers' and partners' requirements by implementing reliable, safe, green and sustainable shipping



banks and investors

meet regulatory requirements from market authorities and initiatives such as the Poseidon Principles



port authorities and flag states

identify green shipping operators to ensure cleaner harbors and cities



shippers and logistic companies

meet consumer needs by identifying environmentally friendly sea transport providers



The solution

Ship Review measures the evolving sustainability of the sea freight sector as ship owners and operators face growing pressure to meet tougher environmental regulations & 2050 climate goals.

Ship Environmental Review: Measures air borne emissions, sea emissions, emissions through garbage disposal and emissions impact to people onboard and ashore

Ship Sustainability Review: Measures the adoption of the 17 United Nations sustainable development goals of a specific ship



Ship Reliability Review: Measures technical and crew related deficiencies and detentions and therefore availability of a vessel

Ship Condition Review (coming soon): Measures the condition of a ship i.e. maintenance status of technical components, quality standard of refurbishment, extend of work during drydocking.

Ship Review has been created in collaboration with GMS





Why Scope?

Scope is already registered with ESMA and therefore well positioned to meet future regulatory requirements on ESG ratings and assessment tools.



"ESMA highlights the need to match the growth in demand for these products with appropriate **regulatory requirements to ensure** their **quality and reliability**."

"The market for ESG ratings and other assessment tools is currently unregulated and unsupervised. When combined with increasing regulatory demands for consideration of ESG information, there are increased risks of greenwashing, capital misallocation and products misselling."



The content

More than 70.000 ships

Container: 5,300 ships

Tankers: 15,100 ships

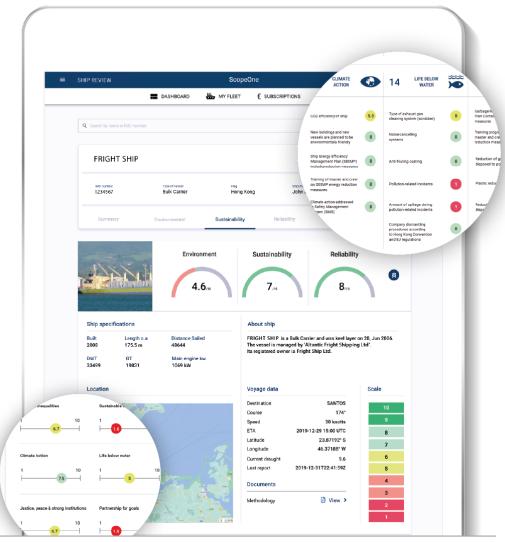
Passenger: 3,600 ships

Bulk carriers: 12,200 ships

General cargo: 12,100 ships

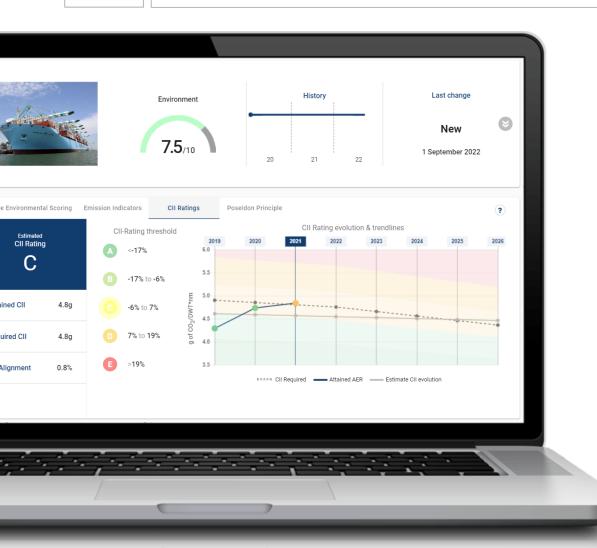
Offshore: 6,200 ships

Other: 31,000 ships





Case study - Carbon intensity indicator (CII) rating



What Ship Review shows:

- CII Rating estimate, CII Rating forecast and ship comparison
- Carbon Intensity Estimate (EEOI),
 (CO2/mt*nm) based on MRV data.
- Annual Efficiency Ratio (AER)
- Allowed AER based on Poseidon Principles trajectory.
- Climate Alignment Rating (Allowed AER vs. Poseidon Principle target).
- Total annual emissions of a ship
- Emission estimates for ships that do not report emissions to MRV based on sophisticated peer group emissions analytics and satellite based distance sailed.



Case study - Climate alignment / Poseidon Principles

Ship 1



97,303 102,389 5.27 5 8,3%

1,052

VS.

Ship 2



Environment



Distance sailed (2021 AIS data)

Total CO2 Emitted (2021 MRV data)

Annal Efficiency Ratio (AER)

Poseidon AER trajectory

Estimated Poseidon Principles Climate Alignment

Annual average CO2 emission per distance from MRV (kg CO2/nm)

4,57 5 -8,6%

979

74,405

72,811

What Ship Review shows:

Environment

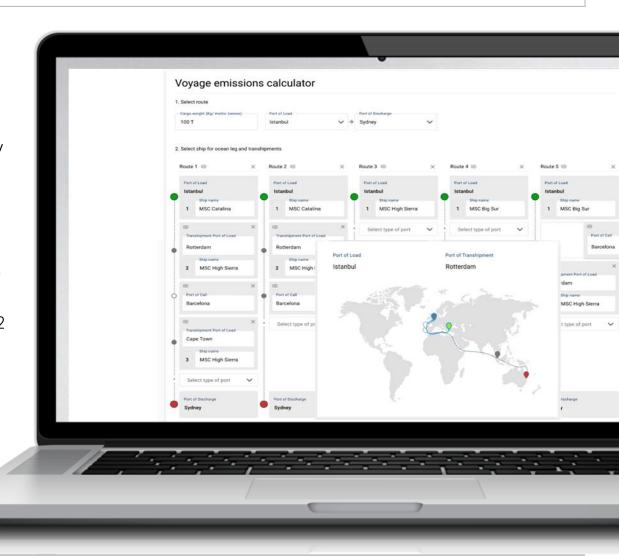
- Vessels with similar engines and dwt emit different amounts of CO2/nm and show different AER
- Ship 1 has a slightly negative and Ship 2 a slightly positive impact on Poseidon Portfolio performance
- Ships with better CO2 performance can be worse in the overall environmental performance as other parameters also have an impact on the environment



Case study - Voyage CO2 calculator with real emission data

What Ship Review shows:

- Real emission data instead of theoretical emissions.
- Emissions calculated based on MRV certified emissions data per tones carried and nm sailed. Voyage based on hourly satellite data
- Alternative routes (ships, distances, port of calls, transfer ports) cargo can be book on, to minimize the Co2 emissions of products shipped.
- Total Co2 footprint for their cargo for each voyage alternative.
- Emissions of different legs, with different ships, different ports of call and transmission ports.



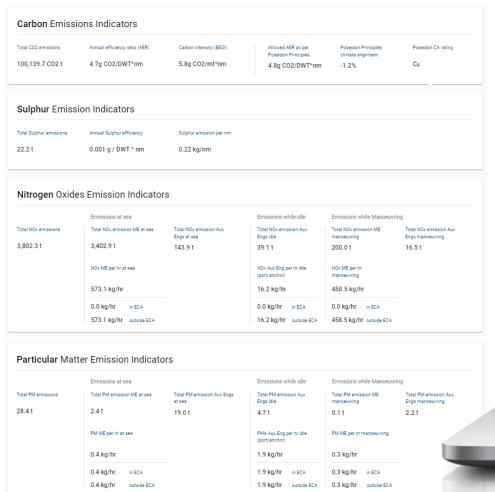
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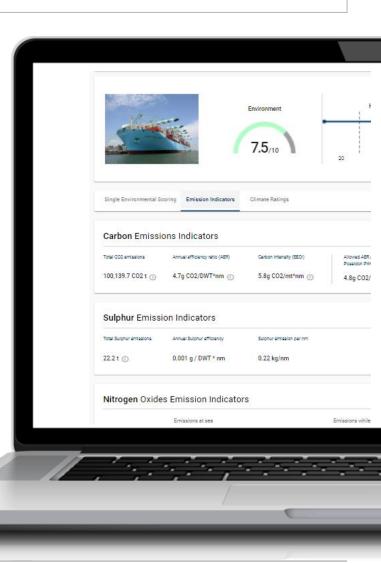
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Case study - Emission indicators

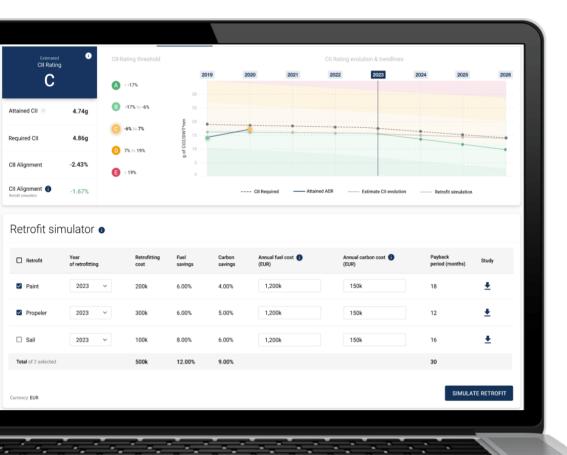
What Ship Review shows:







Case study - Retrofit simulator

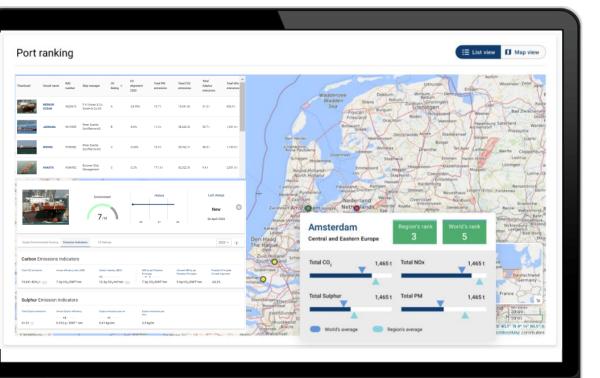


What Ship Review shows:

- Cost of retrofit
- Fuel cost savings of retrofit
- Carbon cost savings of retrofit
- · Payback of retrofit
- CII improvement of retrofit
- Poseidon Principle improvement of retrofit
- Study about retrofit cost and benefits



Case study - Port emissions



What Ship Review shows:

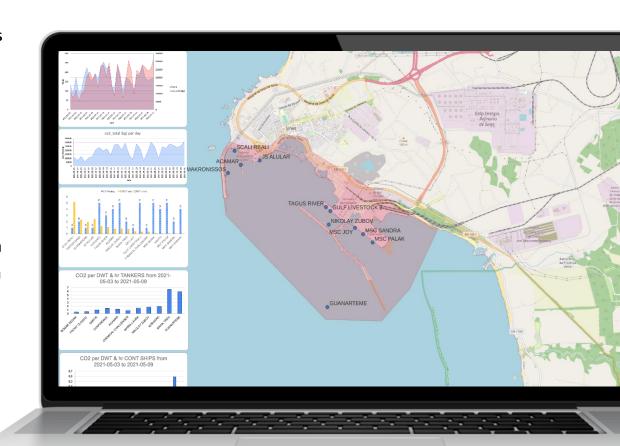
- Absolute missions on CO2, NOx, SOx and PM per day, week, month and year in port
- Relative missions on CO2, NOx, SOx and PM per day, week, month and year in port
- Global and regional ranking of port based on relative emissions, i.e. per DWT/hr, metric tonnes and TEU/hr etc.
- Port emission reduction over time
- Emission ranking of ships in port per DWT/hr



Port emissions

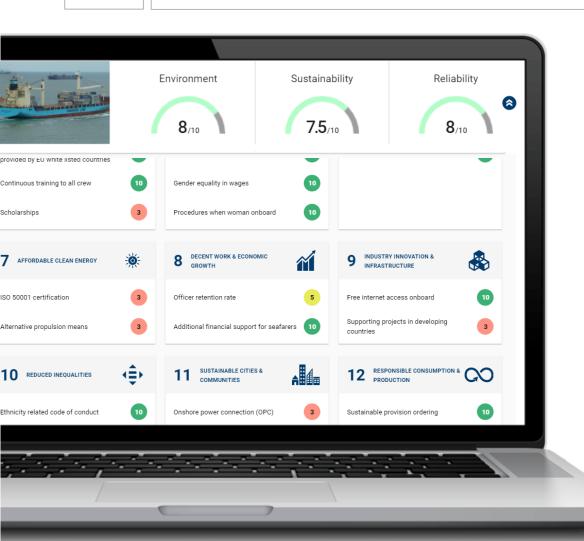
What Ship Review shows:

- CO2 emissions and hours of ships being within the polygone in a time period (week, month, year)
- "CO2 per voyage in port", showing CO2[kg]/(dwt + hr) per ship, per call in the port
- CO2 per ship during the busiest day (2021-05-07) compared with CII rating. Note: CII rating is not a good measure for port emissions.
- CO2 emissions of tankers or container ships during the busiest week





Case study - Sustainability of a ship

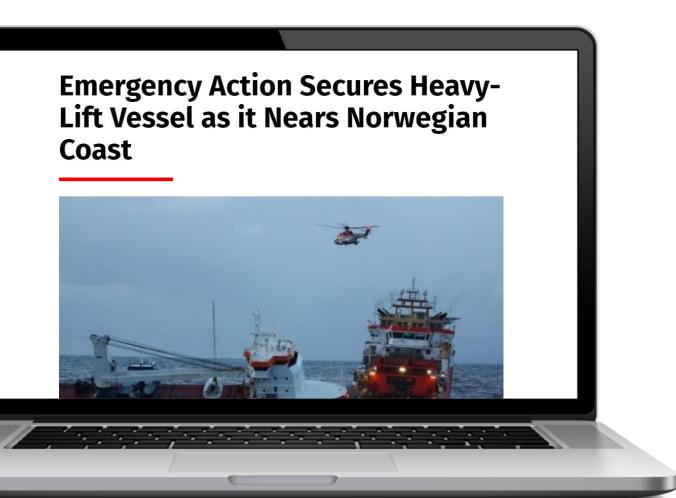


What Ship Review shows:

- Well being of employees, i.e. wage level, social & health benefits, permanent employment contracts, training, education, etc.
- Governance (corruption measures of flag, ship manager, owner domicile, anti corruption and bribery initiatives, etc.
- Water, air and land pollution prevention, climate initiatives, etc.
- SDG fleet performance of ship managers

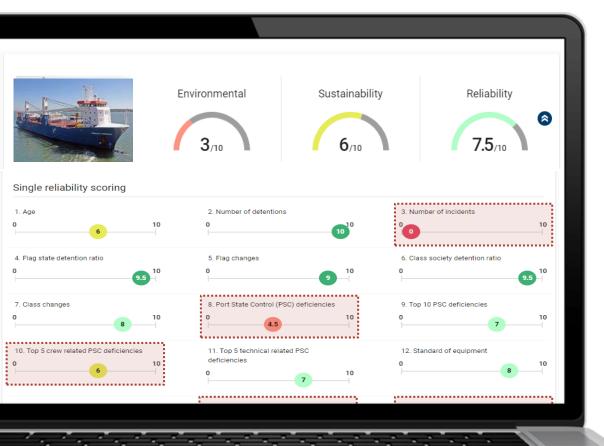


Case study - Ship reliability



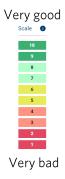


Case study - Ship reliability



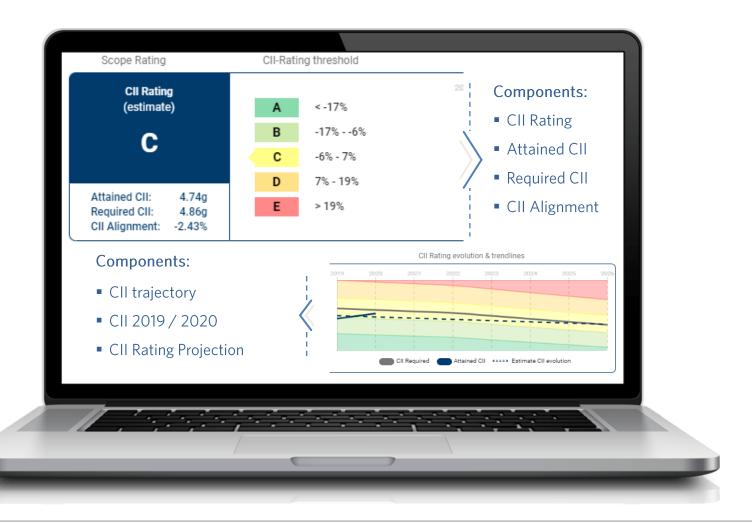
What Ship Review shows:

- Very high number of incidents
- High number of port state control deficiencies
- High number of top 5 crew related deficiencies
- High ship manager deficiency ratio
- Very high number of ship manager incident ratio



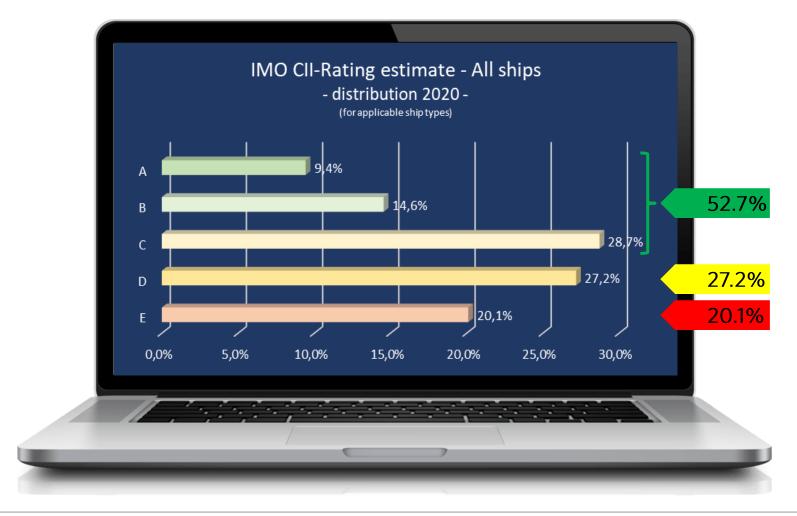


Scope CII Rating estimate





41.000 Carbon intensity indicator (CII) rating estimates





CII-Rating estimates by ship type





Impact of CII Ratings

Lenders will look at:

- GHG impact on portfolio performance
- GHG adjusted pricing / covenants
- Feasibility of financing retrofitting projects
- Carbon credit finance
- Impact on regulatory reporting (SFDR)

Ports, governments and regions will look at:

- Impact of port pollution on climate strategy
- Impact and monitoring of coastal water pollution
- Port support infrastructure (climate strategy)
- Performance of ship registry fleet



Shipper, Forwarders, will look at:

- Emissions per cargo carried per voyage
- Impact on companies CO2 footprint (Scope3)
- Alternative routes/ships that minimize emissions
- Impact on carbon credit financing



Impact of CII Ratings

Ship Owners will look at:

- Options and cost of emission reduction
- Emission linked KPIs for ship management/crew
- New shipping contracts involving emission targets
- Impact of carbon credits on charter rates

Ship Manager/ Charterer will look at:

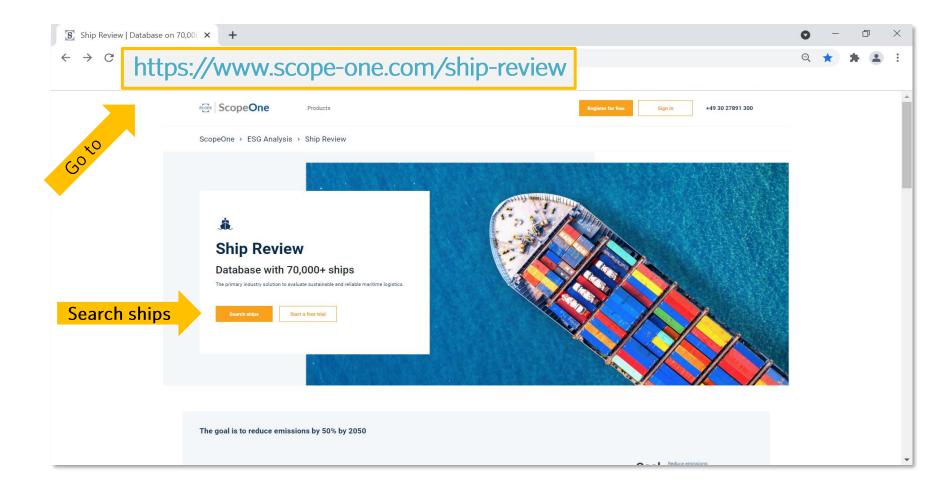
- Emissions per cargo carried per voyage
- Current and forecasted CII Rating of ships
- Crew training on new emission linked KPIs
- Impact of carbon credits on transport cost

The impact of the CII Rating is just the beginning. It will accelerate the implementation of UN Sustainable Development Goals

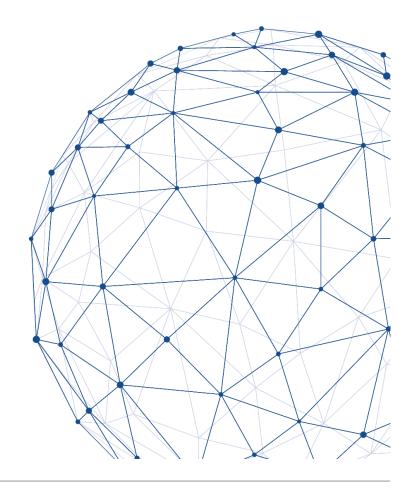




Access CII-Ratings on the Ship Review landing page







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Eberhard Vetter

Member of Supervisory Board of Scope SE & Co. KGaA

Head of Asset Management RAG-Stiftung Member of various supervisory boards (DIC ASSET AG etc.)



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Former positions at Banque centrale du Luxembourg, IMF, World Bank, EIB



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Medical Care



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Shareholders of Scope Management SE (General Partner of Scope SE & Co. KGaA)







Selected shareholders of Scope SE & Co. KGaA























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Feedback from ISC Platform Test - April 2021

Key aspects a platform should consider:

Transparency, in particular how a rating score has been arrived at
Clear guidance as to how the information provided be used by either the client/owner.
Free, or at least low-cost access to owners own information if they are not a client.
Accuracy of the information held on each ship.
Criteria that are set within the platform must be within the control of the owner / manager.
Ease of engagement with the platform provider to update or correct information
Cost consideration should be given to smaller operators.