# Maritime Emissions Portal Collaboration between RightShip, AUSMEPA and PortVision.





#### RIGHTSHIP

## <u>Agenda</u>

**About RightShip** 

The air quality challenge

**Maritime Emissions Portal – A solution** 

- How it started
- How it works
- Emission calculations

**Maritime Emissions Portal – Live demonstration** 

**Maritime Emissions Portal – Applications** 



## **About RightShip**

RightShip is the world's leading maritime risk management and environmental assessment organisation.

RightShip helps customers manage maritime risk through big data and predictive analytics across safety and environment performance.

#### **Independent company formed in 2001**

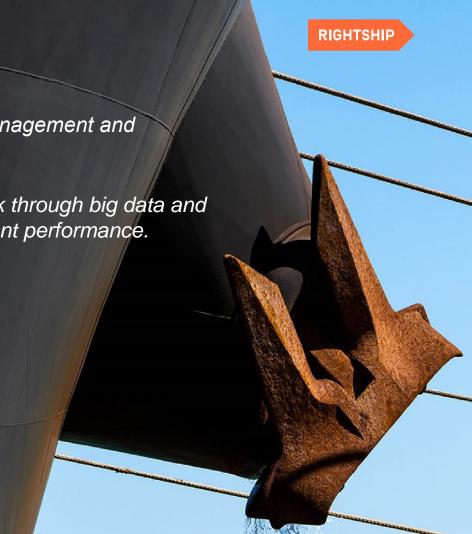
- Houston, Melbourne & London
- 300+ customers globally

#### **Greenhouse Gas Emissions Rating**

- 76000+ ships
- Used by financers, charterers, ports & others.

#### **Industry collaboration**

- Environmental organisations (e.g. Green Marine, ESI, AUSMEPA, NAMEPA).
- Maritime Emissions Portal an example of this

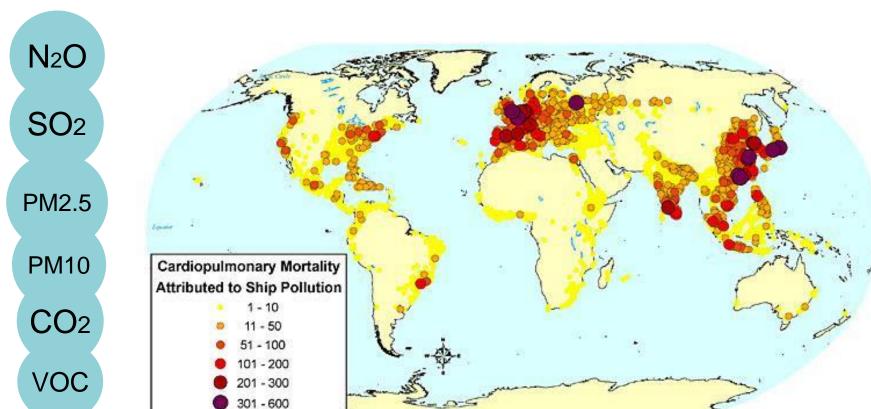


# Air quality – the challenge





## Air quality – Everyone's problem





## Air quality – The Data

- Lack of good data
- Laborious
- Expensive?
- Retrospective
- Complex



# Maritime Emissions Portal ('MEP') – A Solution





#### **MEP - What is it**

An online portal that helps reduce the impact of ship emissions on the health of port communities and the environment.

It provides users with the ability to observe changing air patterns throughout a port and city over the course of a day, week, month or a year.





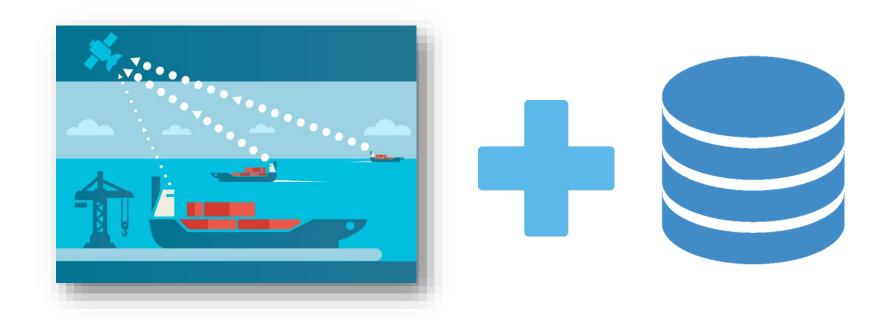
#### MEP – How it started

# Google Impact Challenge

"Using technology to tackle a global issue that makes a better world, faster"

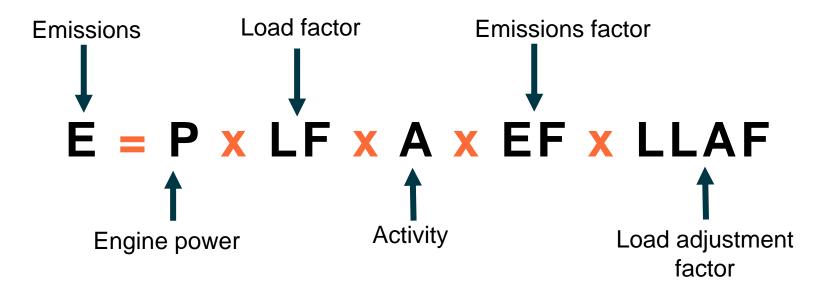


## **MEP- How it works**





### **MEP – Emissions calculation**



**Underlying methodologies:** US EPA, California Air Resources Board, Entec UK and the IMO 3<sup>rd</sup> GHG Report.



### **MEP – Verification**

## 3 independent experts:

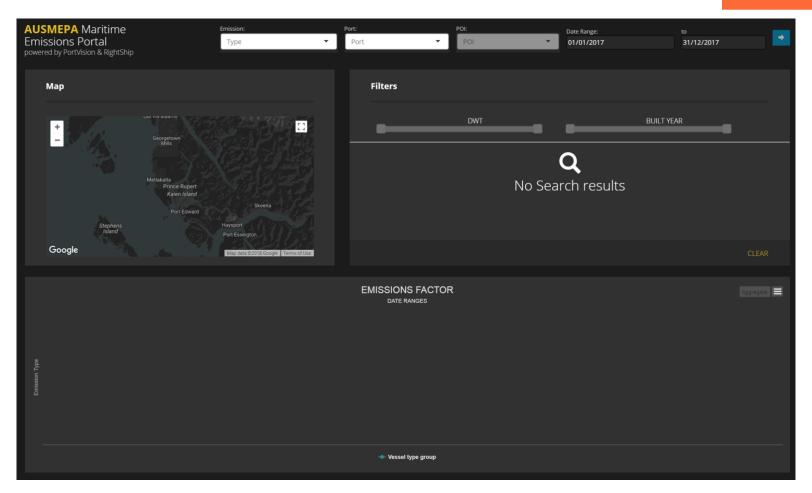
- Dr. James Corbett -University of Delaware
- Russell Furey California Air Resources Board
- Tim Scarbrough -Ricardo Energy & Environment

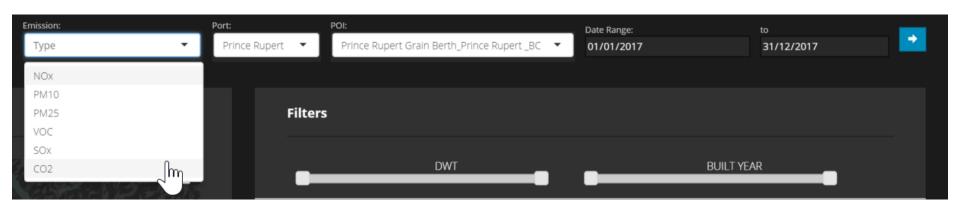
"We think it's a great product that has been well QA'd and will be useful for many ports. We did our review and we stand behind our work". Seth Hartley, Technical Specialist at ICF International.

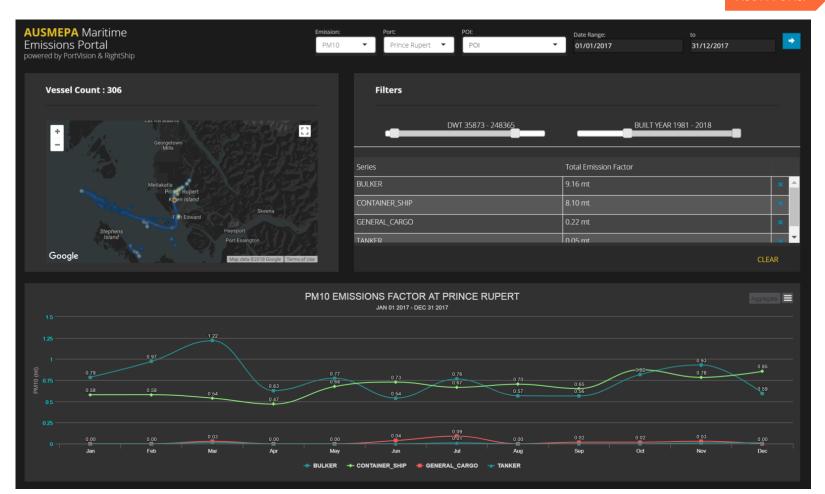
## **Maritime Emissions Portal – Demonstration**











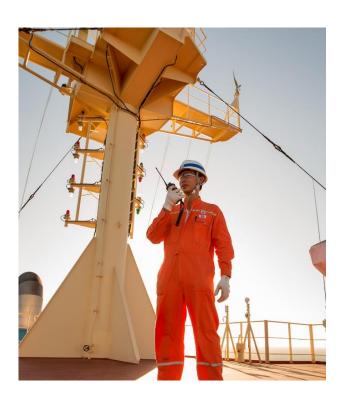
## **Maritime Emissions Portal – The Opportunities**





## **MEP – Applications & Opportunities**

- Port wide inventory (on-demand)
- Alignment with strategic objectives
- Reporting function
- Scenario planning tool
- Future state assessment
- Stakeholder engagement



Integrate/inform/measure port incentive programs



## Where to next?

- 1. Collaborate with more ports
- 2. Develop tailored reporting outputs
- 3. Develop improved functionality
- 4. Get it to market accessible to all

