



Chemical Regulation: The Need for a Holistic Approach

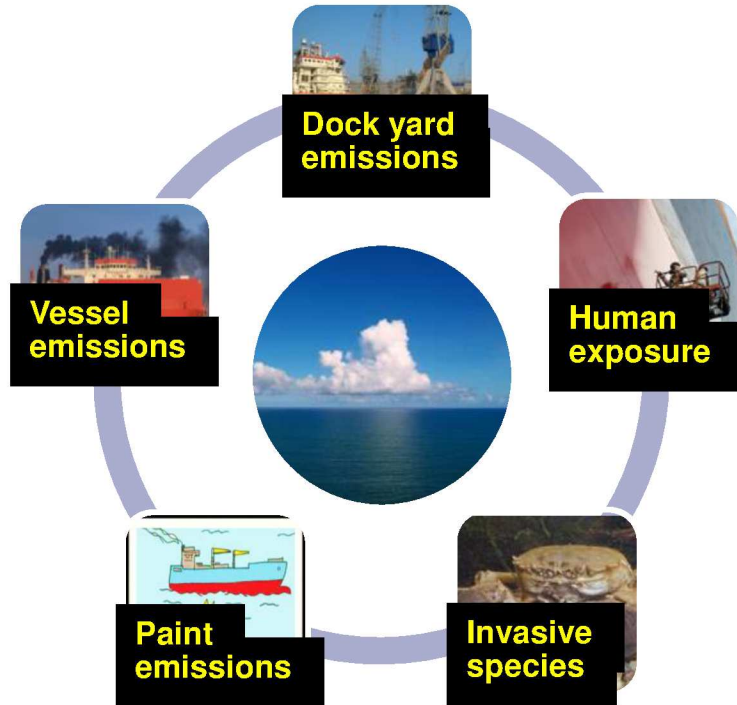
Dr Gareth Prowse
25 September 2017



Agenda

- Introduction
- The regulatory environment
- An Example
- What should we protect?
- Conclusions

Introduction



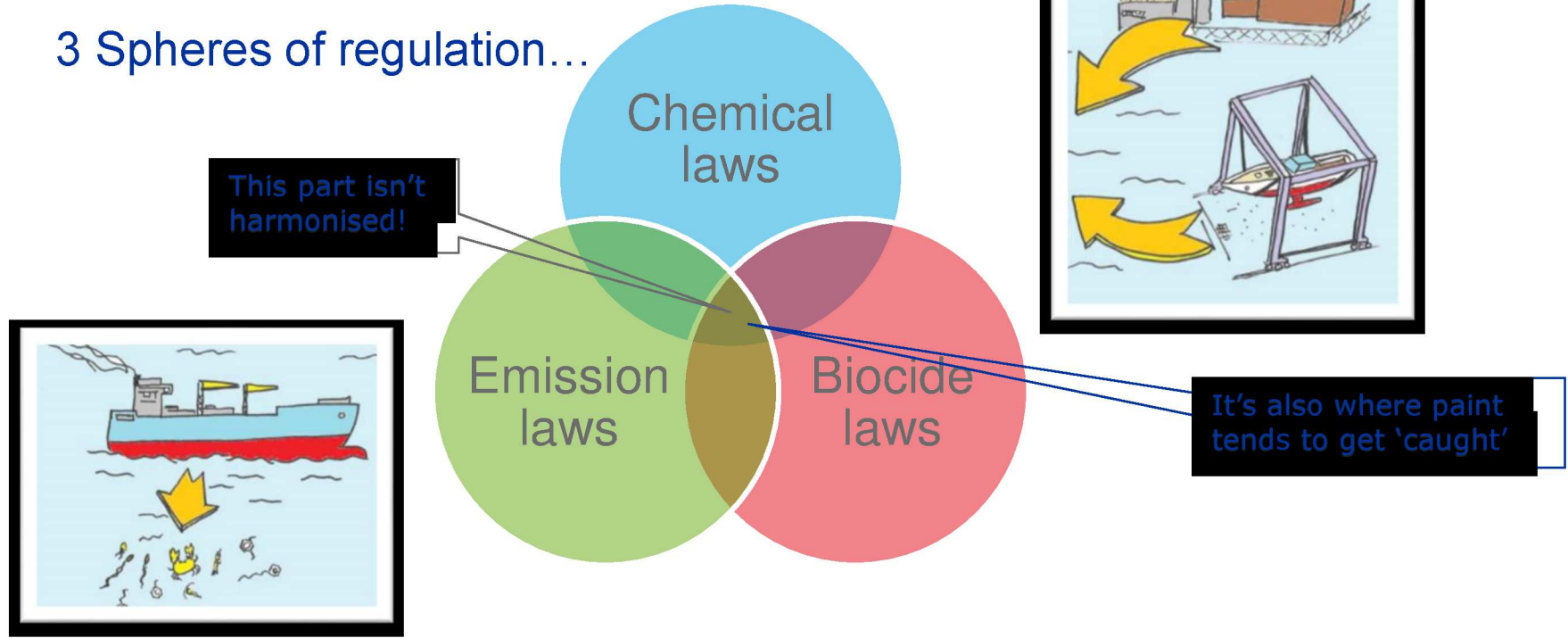
- Managing hazardous chemicals is a key ambition globally
- Environmental issues and public awareness of chemicals are well established
- Government policy reflects this
- Ultimate ambition is to minimise impact on environment and humans alike
- Antifouling Paint: A case in point



The Regulatory Environment: An Industrial Perspective

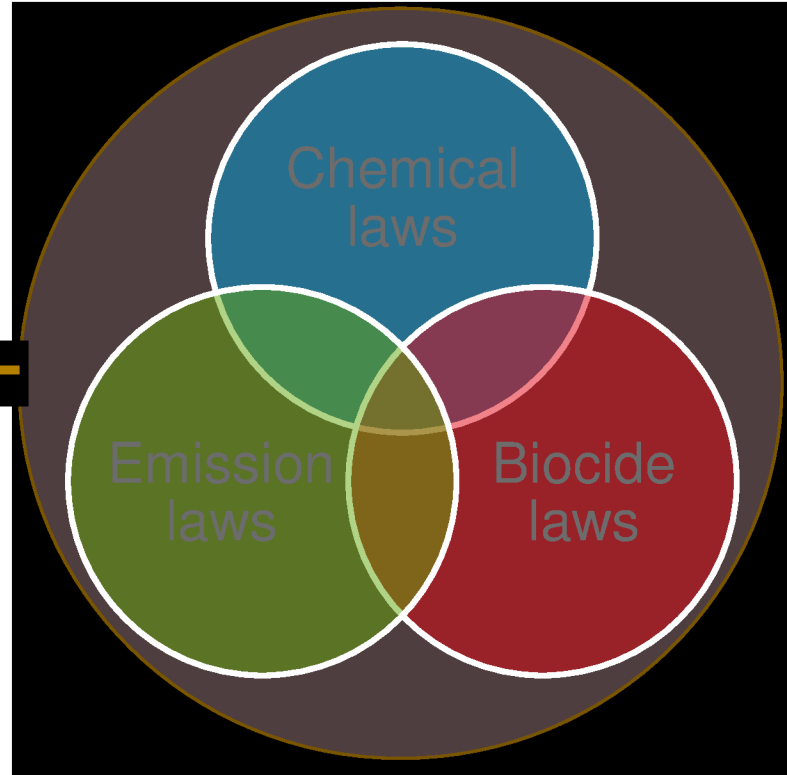
Regulatory Environment

3 Spheres of regulation...



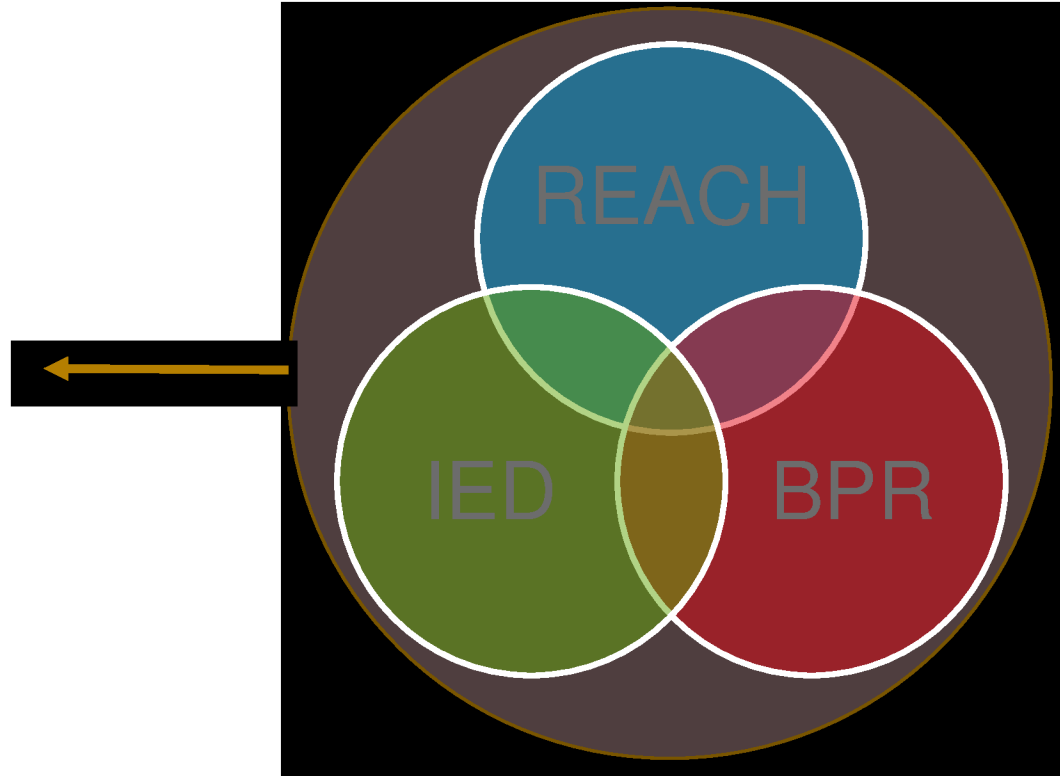
An extra focus

- Societal concerns
- Sustainability agenda



Regulatory Framework

- CoRAP / SVHC
- Sustainable use of Biocides Regulation
- Microplastics
- BPA
- Invasive Species
- Vessel GHG
- Etc



An Example: Antifouling Paints

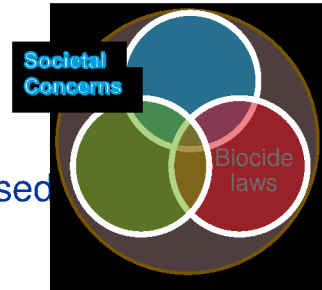
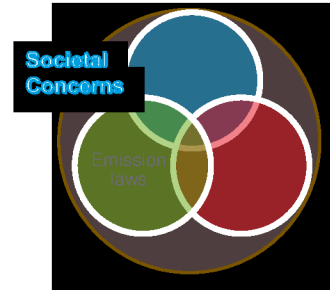
Why Antifoulings?

Products **support** Global and Regional regulatory ambitions:

- Current best technology to minimise ship and yacht hull fouling
- Critical to reduce hydrodynamic drag minimising fuel consumption
 - Reducing Vessel Green House Gas emissions
 - World fleet accounts for approximately 3% of world green house gas emissions alone
- Critical to minimise risk of invasive species
 - Hull fouling accounts for majority of invasive species introductions
 - Increasing evidence that Yacht and costal fleet 'vector' invasive species

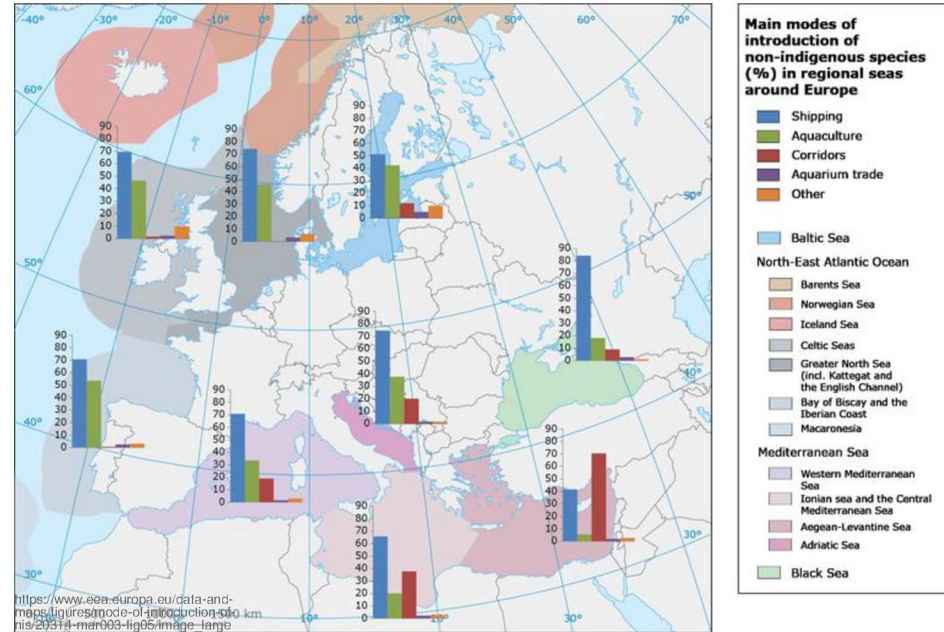
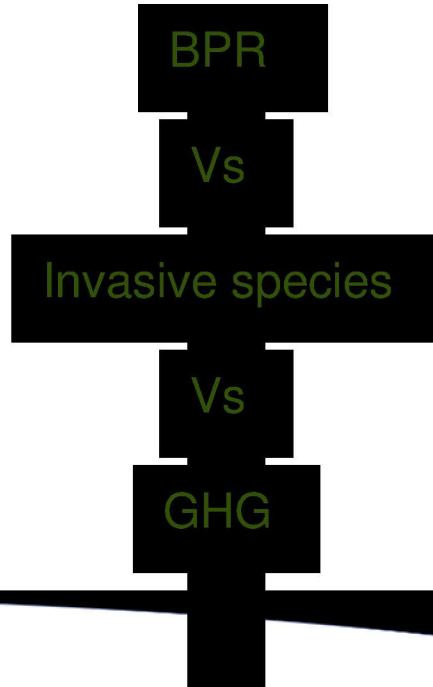
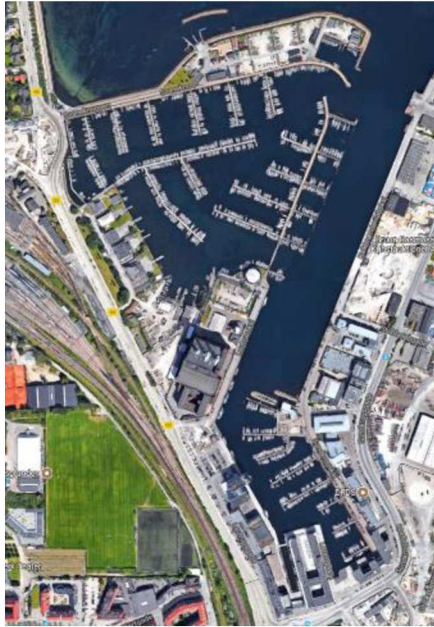
BPR will restrict innovation of new products and sale of current effective products

- Precautionary principle, conservatism throughout risk assessment, lack of harmonised protections goals...
- All **prevent approval** of products especially Yacht coatings



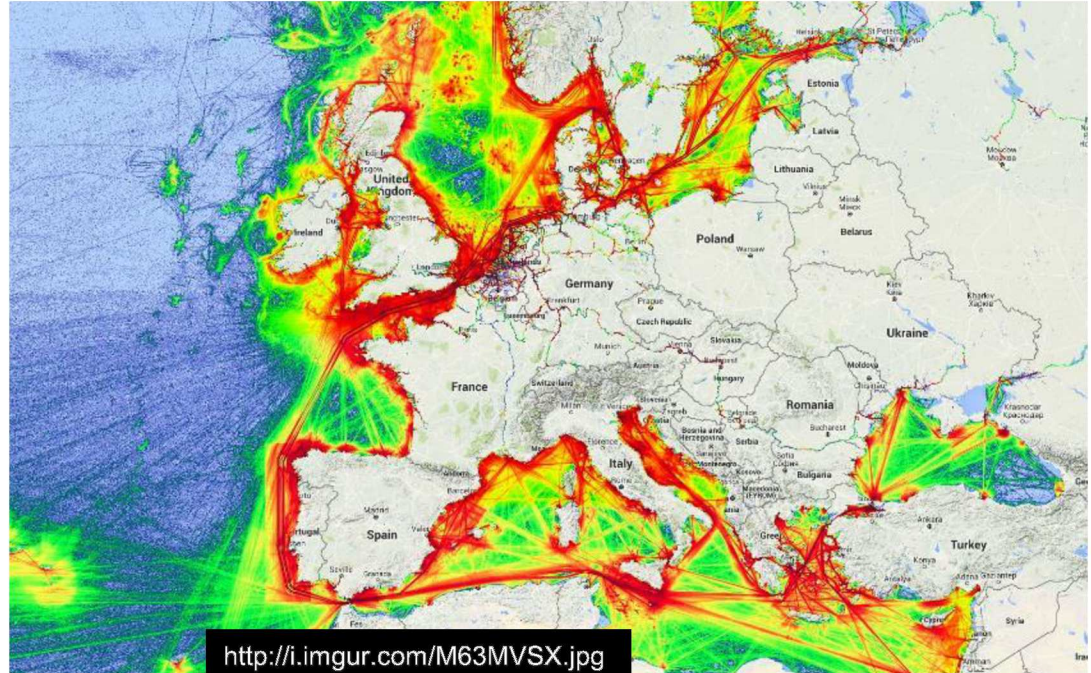
Regulatory ambition?

- Environmental Protection?



European Shipping Routes

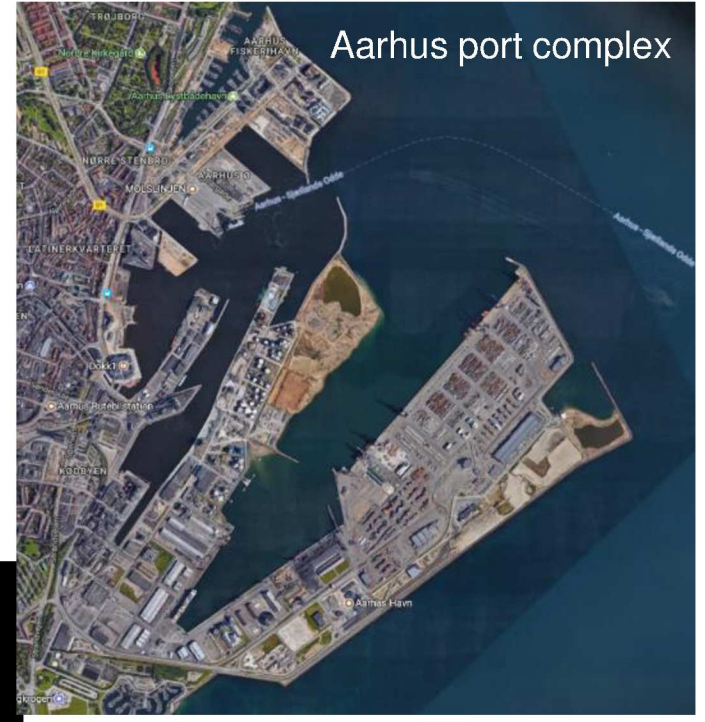
BPR
Vs
GHG?





What should we protect?

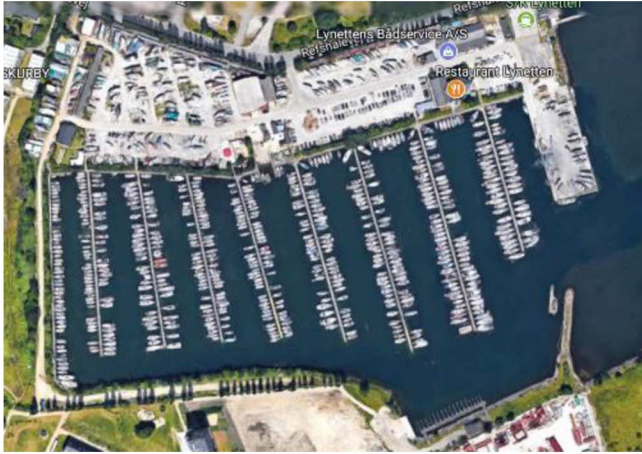
How do we align Protection goals?



This?

Or

This?



This?

Or

This?



Copenhagen



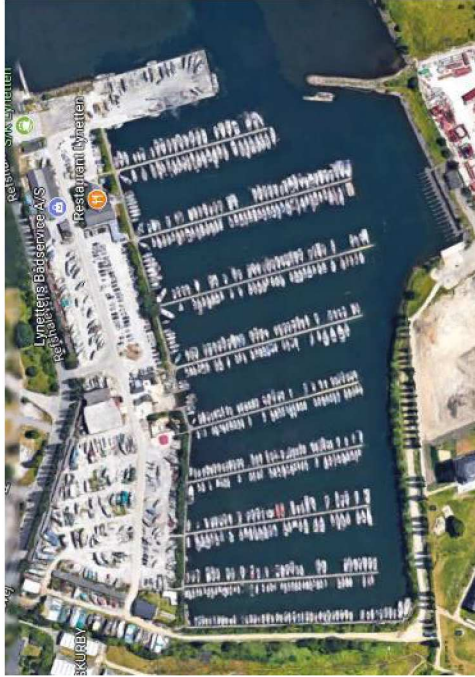
This? *and* This?





Do we ever consider what's
most important?

What's the *Ecological* Value?



This?

VS

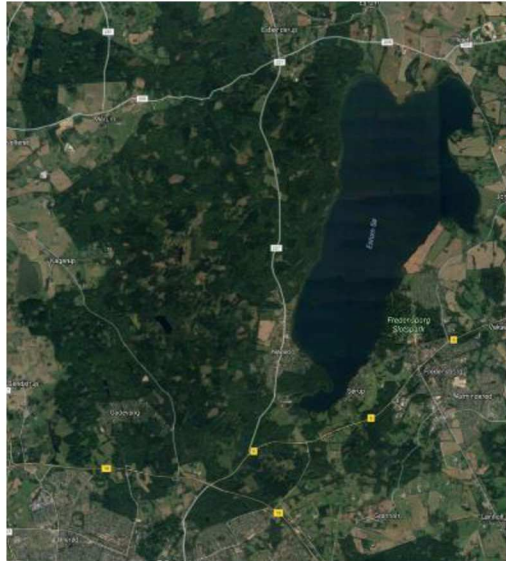
This?



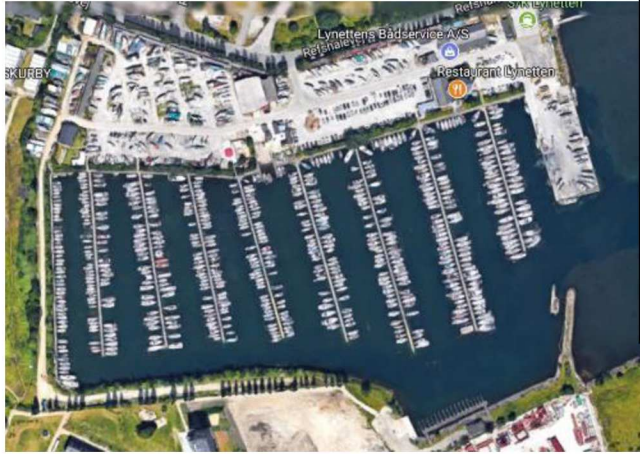
What's the *Ecological* Value?



This?
VS
This?



What's the relative *Ecological impact*?



More
invasive
species?



Platorchestia platensis

Biocides here? Or



Neanthes succinea



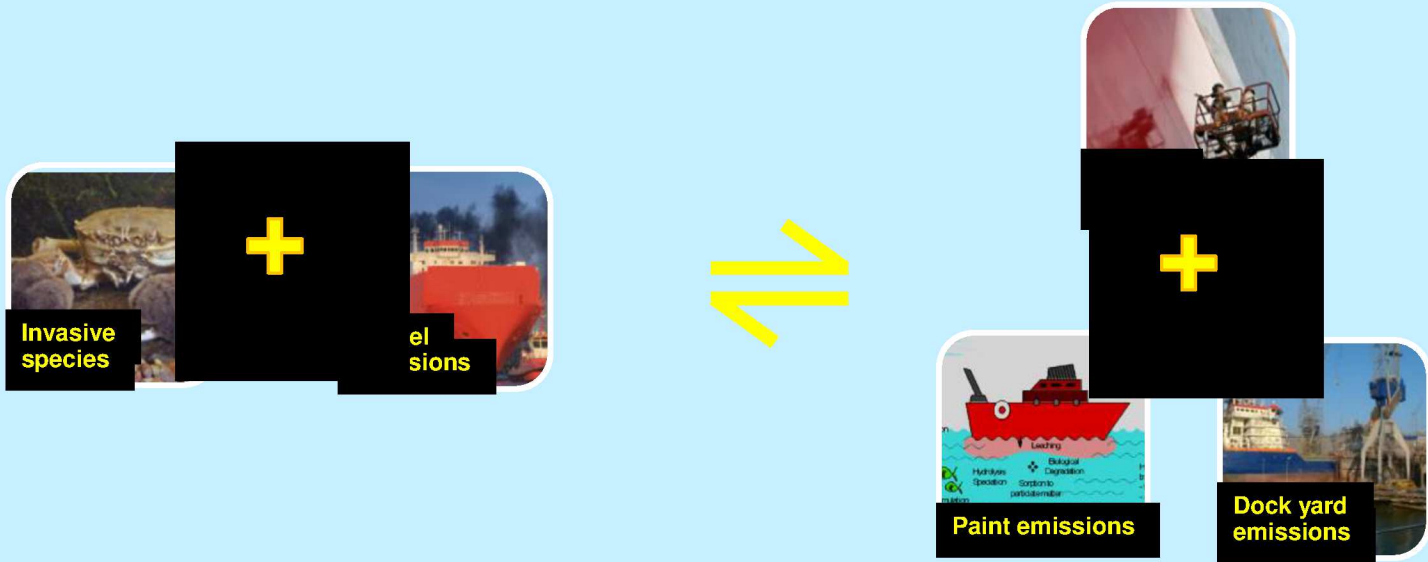
Teredo navalis

© Frank Hecker

Conclusions

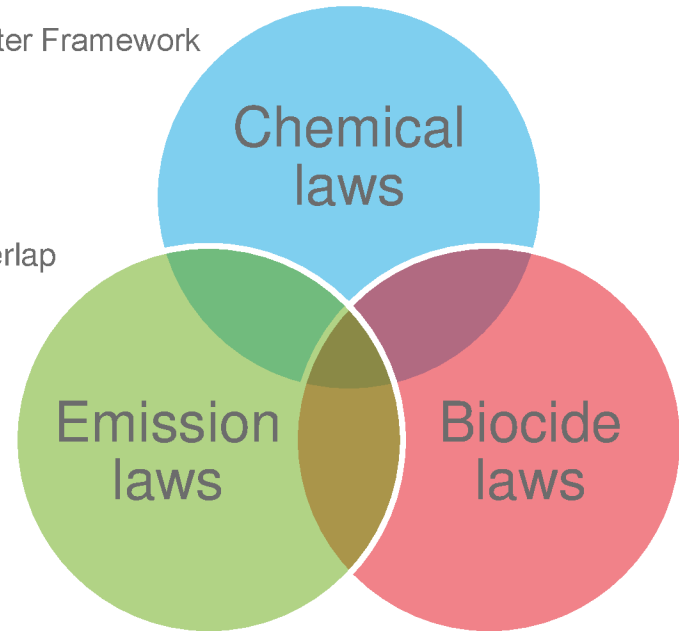


Regulations need to work together



Conclusions

- Protection goals and government policy needs to be aligned across regulatory frameworks
 - E.g Designate marinas as ‘heavily-modified water body’ under the Water Framework Directive
 - Allows for a different approach to be taken in BPR
 - Ensures we have effective control over invasive species
- Competent authorities should be encouraged to work together
 - Avoid ‘Silo’ thinking – recognise where department responsibilities overlap
- Use risk assessments effectively
 - Avoid excessive worst case assumptions
 - Gather data to inform validity of models
- Be consistent
 - Use the same tools across all legislation
 - Prevent contradictions and conflict with decision making





Questions?

