



LeanShips

Low Energy And Near to zero emissions Ships

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LeanShips ...

... aims to demonstrate the effectiveness and reliability of energy saving and emission reduction technologies at real scale.

Target markets ...

... are the small to mid-sized ships for intra-European waterborne transport, vessels for offshore operations and the leisure and cruise market.

Seven demonstrators will be carried out ...

... combining technologies for improved efficiency and pollution reduction, in line with end-users' needs and requirements.

Main objectives ...

- ✓ CO₂ reduction of at least 25%
- ✓ Estimated fuel saving of up to 25%
- ✓ Expected decrease of SO_x/NO_x/PM air pollutants by up to 100%



LeanShips' stakeholders:





LeanShips' mission:

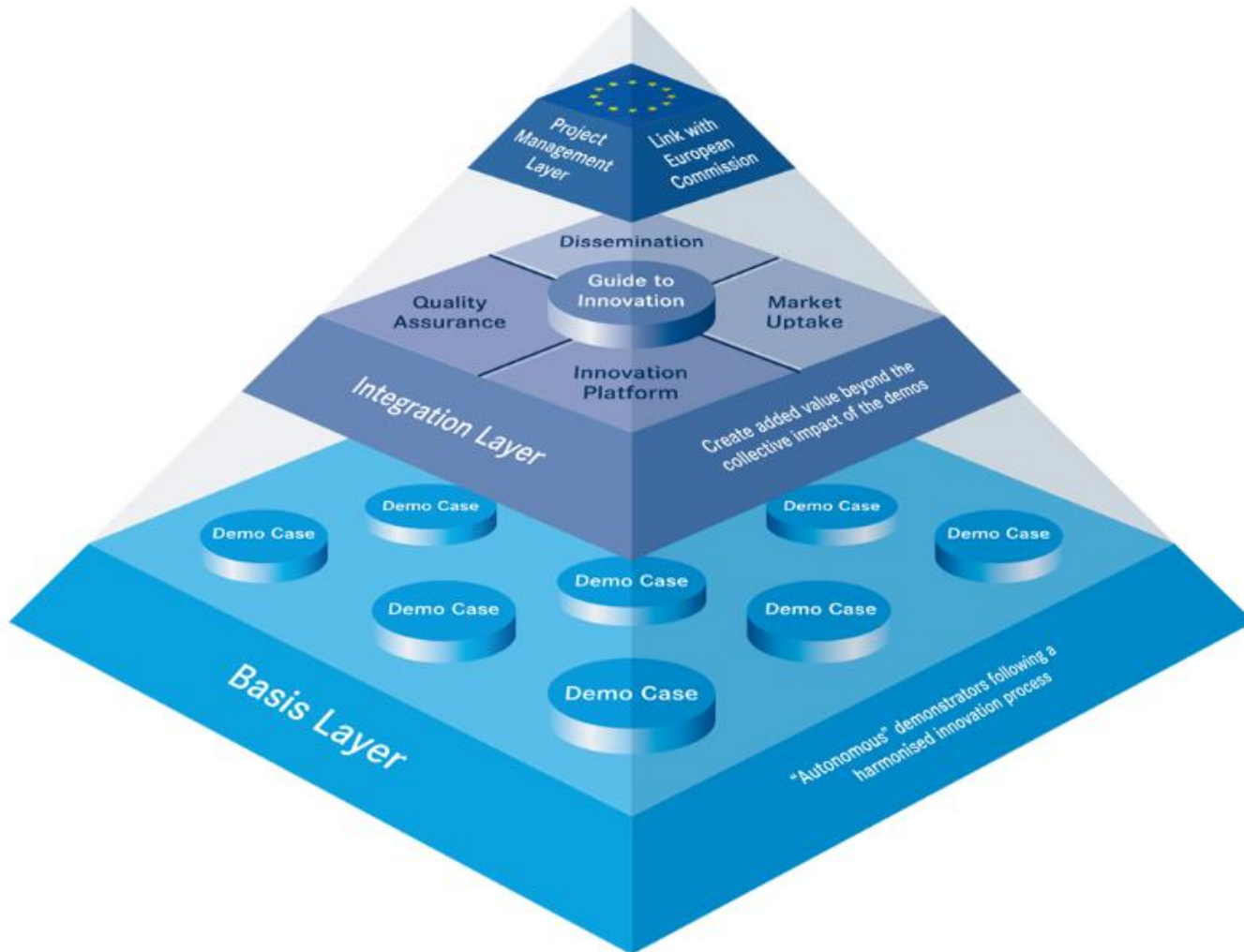
Prove that:

- a) **green** technology can be installed **onboard** (new and old - *retrofit*);
- b) **green** technology works in maritime and is **reliable**
- c) **green** technology can be **economically viable**

And can **significantly contribute** to the EU energy and emission policies by collaborating with:

- a) ship equipment manufacturers;
- b) ship builders;
- c) ship operators;
- d) classification societies;
- e) research centres and universities

Impact



CNG powered RSD Shiphandling Tug



Potential of methanol as alternative fuel



SECA refit strategy



Expanding the application of ESD to ships with CPP



Large diameter propeller for general cargo ship



Decision support system for ship energy efficiency



Energy efficient systems for leisure/passenger ships



Guide to Innovation

- *the project has been initiated by a core consortium of partners that have a longstanding history in doing joint research and that will continue to do so.*
- *Moreover, the demo case teams are mostly locally centralised teams of partners who also collaborate in commercial projects.*
- *One of the main deliverables is the Guide to Innovation, a web based tool with lessons learned, technical information and also tip and tricks on how to innovate throughout the value chain in the maritime industry.*

Thank You

- *Contact us at:*
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