

# e4ships Innovationcluster

e4ships from maritime industry perspective

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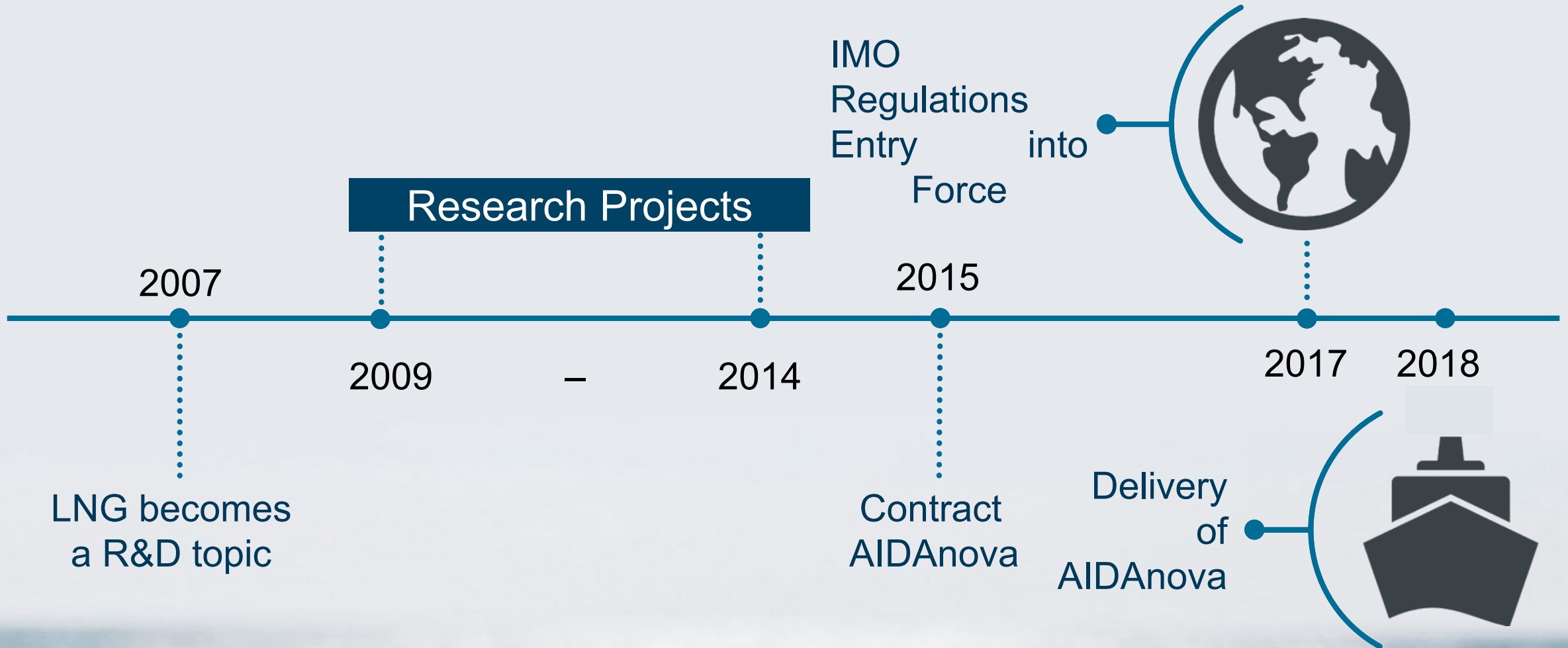
# What are the main driver

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- ≡ Shipping must be emission free / carbon neutral so soon as possible latest 2050.
- ≡ Fuel cell technology can be an important part in the transition to emission free / carbon neutral shipping.
- ≡ Fuel technology can provide system depending advantages versus the existing power production units.
- ≡ The choice of fuel and fuel flexibility will be an important key for the technology.
- ≡ The combination of fuel and system are the key to success to reduce the emissions and achieve the climate targets.

# Challenges (Experience from the past)

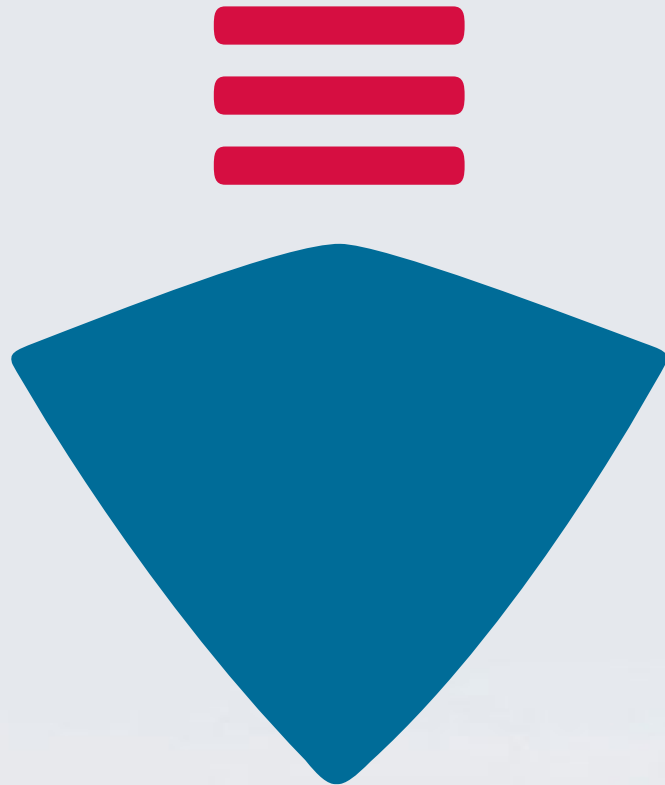




- ≡ Upscaling of output and system design and integration.
- ≡ System integration together with other power sources and combination of this.
- ≡ Fuel choice requires decisions with an impact on the whole ship design.
- ≡ Realisation and timing of demonstration projects.
- ≡ Demonstration projects are important for the further development of the fuel cell in the maritime world.

# Projektbeteiligte





**Vielen Dank für Ihre Aufmerksamkeit!**

**e4ships**

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