

# Teknotherm Innovation Norway Projects



> September 2020 Sigbjørn Tyssen



Heating



Ventilation



Air Conditioning



Refrigeration

# Bakgrunn



"Teknotherm shall be the preferred HVAC & Refrigeration partner, providing our clients with the highest technical competence and the most competitive and innovative solutions"

# Bakgrunn



**TEKNOTHERM**  
A HEINEN & HOPMAN COMPANY





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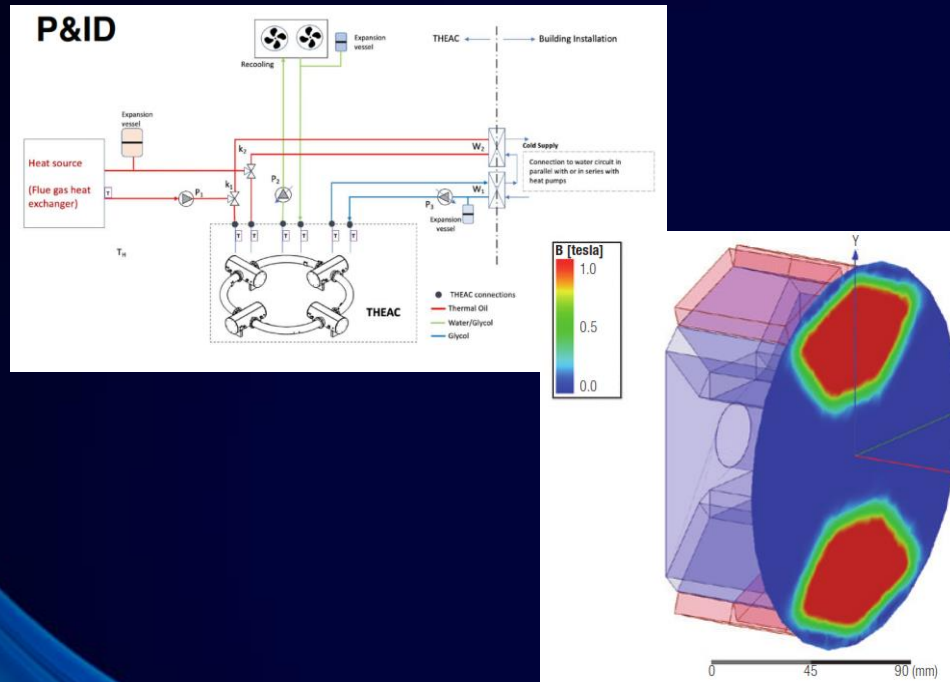
Norwegian Centres of Expertise

**NCE Maritime CleanTech**

The logo icon for Innovasjon Norge, featuring a large black stylized 'N' shape.

**Innovasjon  
Norge**

# Project 1 - Magnetic cooling



# Project 1 - Magnetic cooling

- Cooling without the use of refrigerant
- The technology is known, but not used in maritime industry and very limited commercial use.

## Goals:

- Better understanding of the technology
- Evaluate if it could be used on ships
- Find partners:
  - Suppliers
  - End users
- Evaluate if we should go forward with this technology

# Project 1 - Magnetic cooling



## Status:

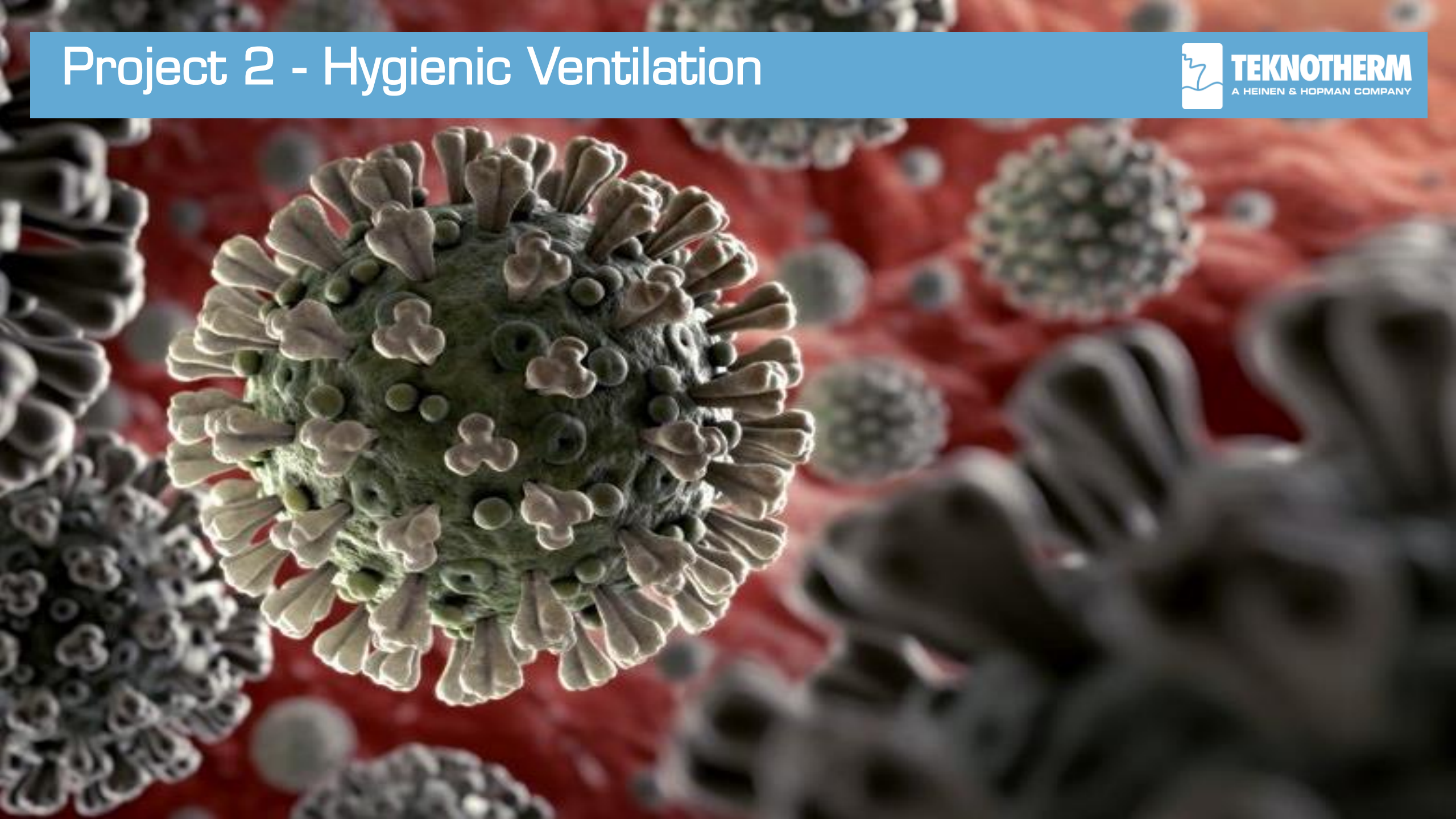
- Established contact with research institutes that are working on this
- Established contact with suppliers / manufacturer for a possible proto-type
- Have a better understanding of the possibilities and limitations



# Project 2 - Hygienic Ventilation



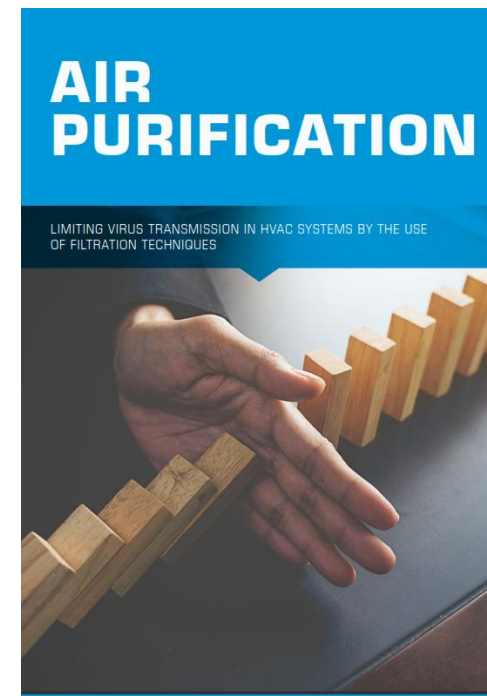
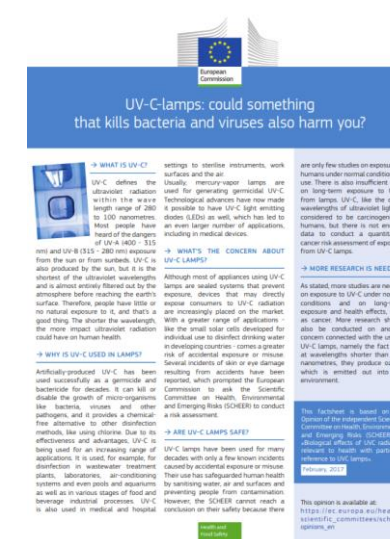
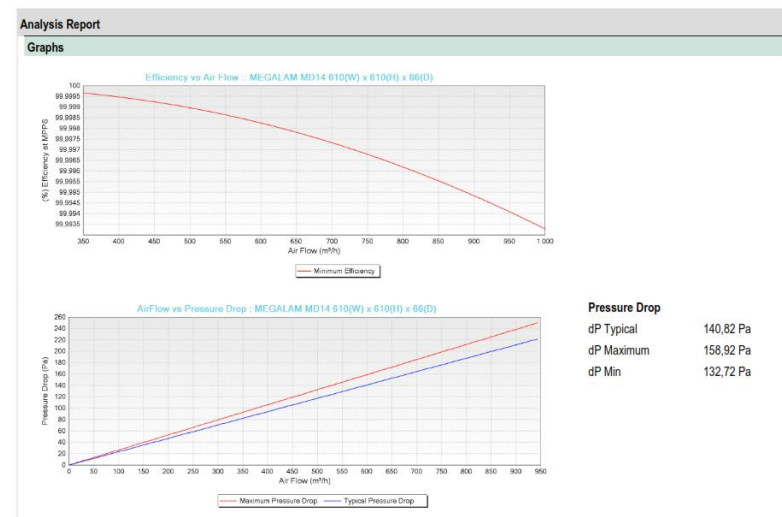
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# Project 2 - Hygienic Ventilation

- Risk analyses of the ventilation system, especially for Covid-19
- Research available technologies we can use
- Market research



Status:

- High willingness from ship owners to invest in protection
- **Identified two technologies that we will move forward with**
- Established a pool of potential suppliers

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