

# Aspects of MU offshore logistics based on the work at the FINO3 Platform

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## an Offshore Research Laboratory in the North Sea

Date: 26.01.2022

Speaker: Lisa Schulz



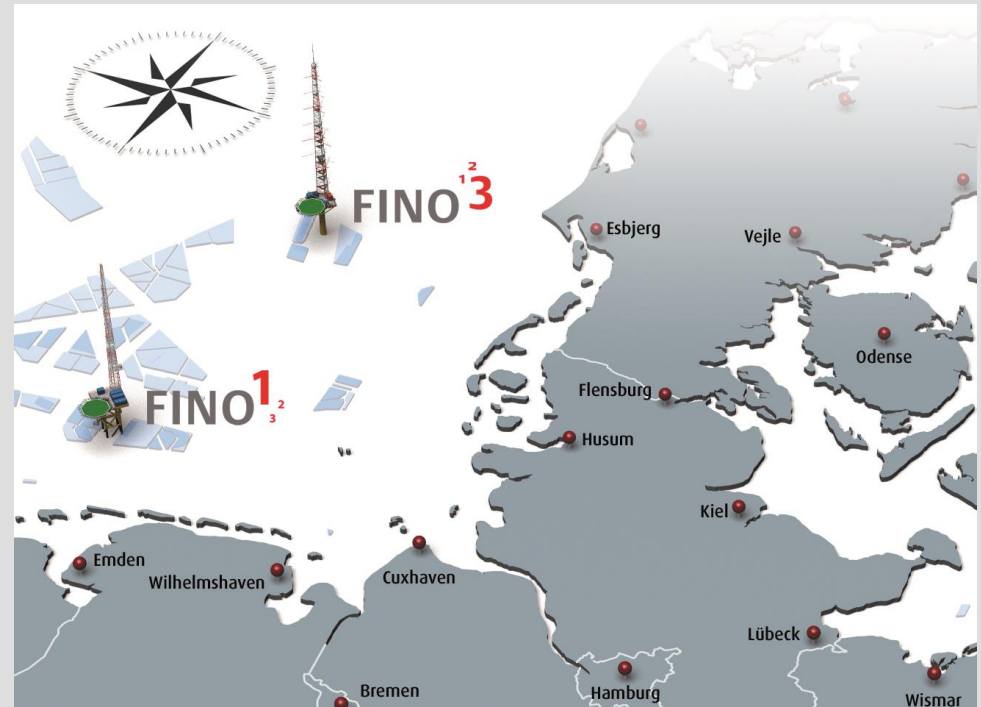
# 1. Introduction – Facts

Owner/Operator:  
FuE-Zentrum FH Kiel GmbH

Building/Completion:  
2007/2009

Location:  
80 km west-northwest of Sylt

Operating:  
unmanned & remote



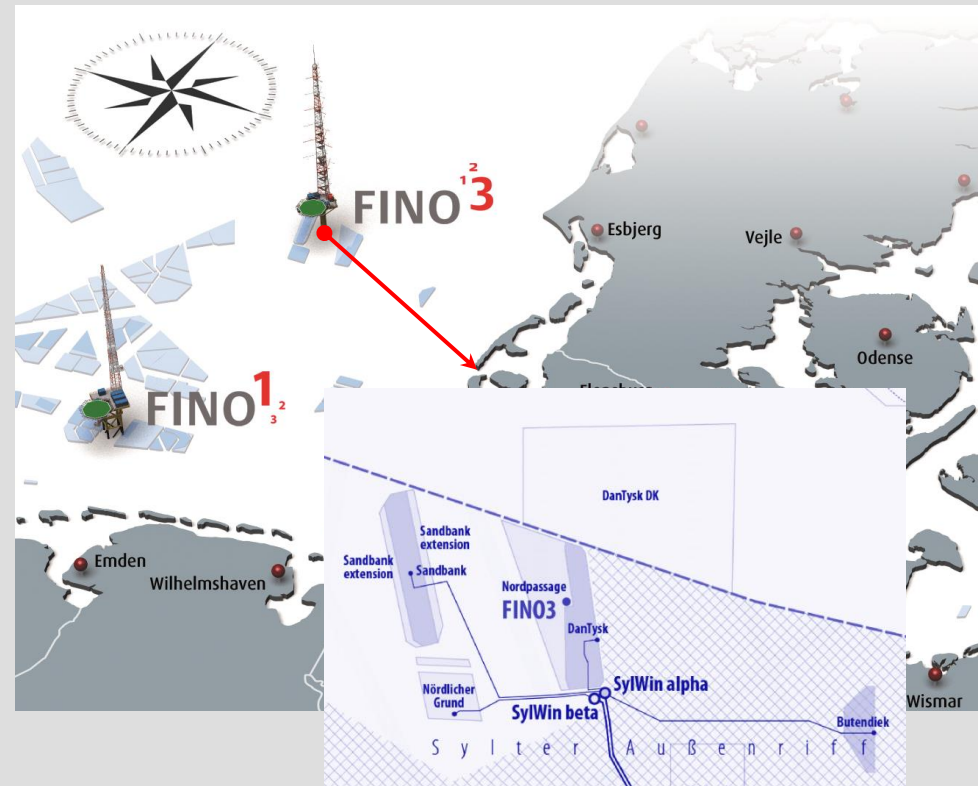
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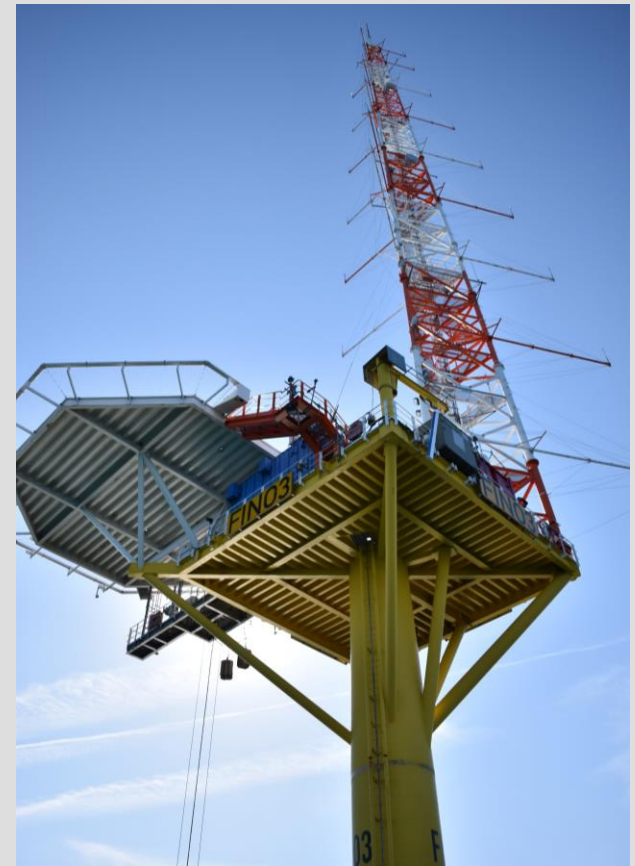
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# 1. Introduction – Technical Data

Platform Deck:	area: 13x13 m, height: 22 m above sea level
Helicopter Deck:	area: Ø 14 m height: 26 m above sea level
Mast:	3 element-welded, bolted & zinc-coated construction height: 105,9 m above sea level
Foundation:	Monopile
Anchoring Foundation:	30 m
Water Depth:	21,8 m



# 1. Introduction – Technical Data

## Container:

emergency shelter, measurement equipment, workshop, power supply, diesel fuel tank & storage container

## Energy Supply:

three equal generators  
in alternate operation  
(two on standby)

## Data connection:

2 identically fast SAT-routes,  
parallel





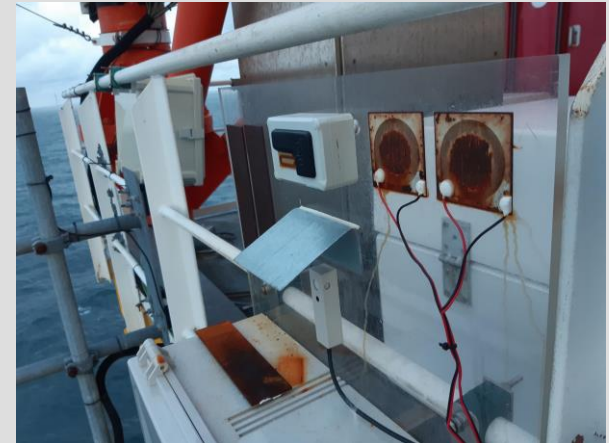
# 1. Introduction – Projects

## Ongoing:

hydrographic & meteorologic measurements,  
testing of lidar buoys, testing of anticorrosive  
coating, bat monitoring, aquaculture

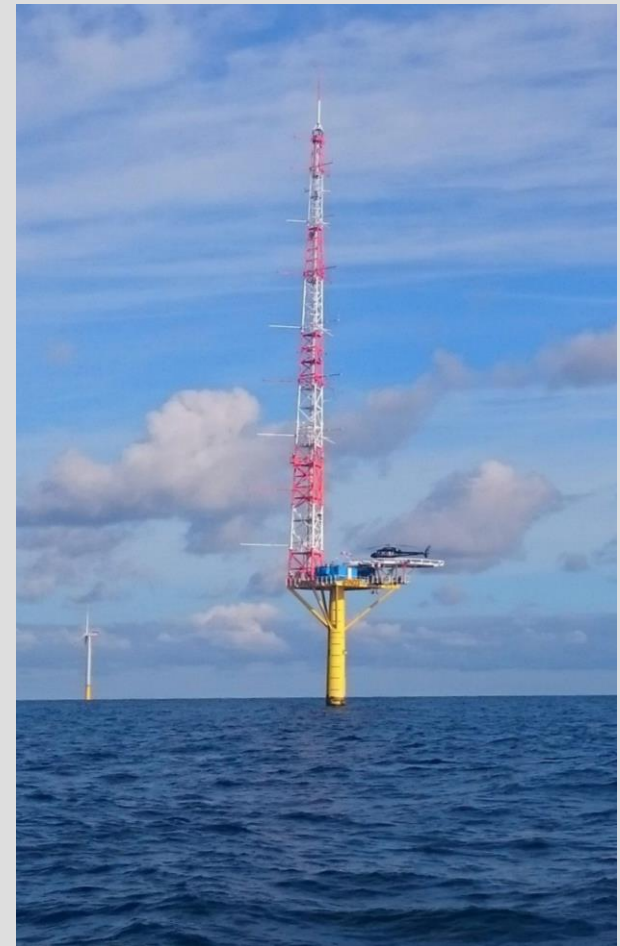
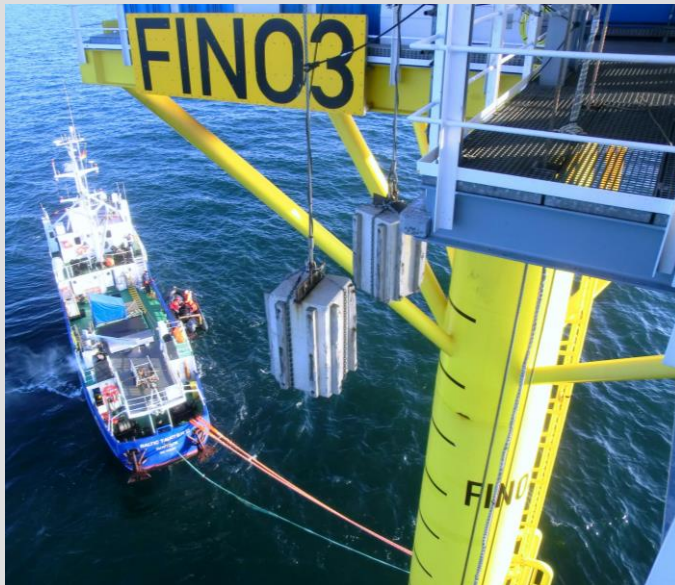
## Accomplished:

Since 2009 about 40 projects e.g. ecological  
research, lightning occurrence, testing of  
strength & stability



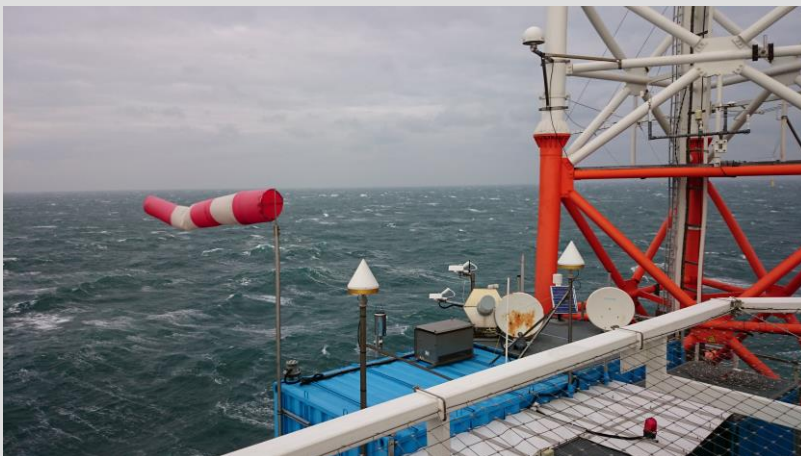
## 2. Aspects of offshore logistics – FINO3 platform

- around 50 flights per year
- diving operation around once a year
- refuelling two to three times per year



## 2. Aspects of offshore logistics – Planning of operations

1. Weather  $\Rightarrow$  access to different forecasts
2. Flexible availability of helicopter & vessel
3. Good infrastructure
  - Onshore: office space, storage facilities, network of suppliers
  - Offshore: good accessibility of the location, energy supply





## 2. Aspects of offshore logistics – Planning of operations

### 4. Qualified operation manager

- Knowledges about the platform itself, the systems, rescue equipments as well as rescue procedure
- Helicopter Landing Officer & Helicopter Fire Fighting
- Company paramedics & First Aid Offshore
- Rope rescue & Personal Protective Equipment for Rescue and Climbing
- Sea Survival & Helicopter Underwater Escape Training
- G41 - occupational health check
- Short range certificate (SRC)



## 2. Aspects of offshore logistics – Planning of operations

### 5. Work planning

- max. 6 people  $\Rightarrow$  limitation of emergency shelter equipment

### 6. Verification of workers' qualifications & contractual basis

- Basic: Sea Survival, Fire Awareness, Helicopter Underwater Escape Training, First Aid Offshore, G41 - occupational health check

### 7. Flight registration

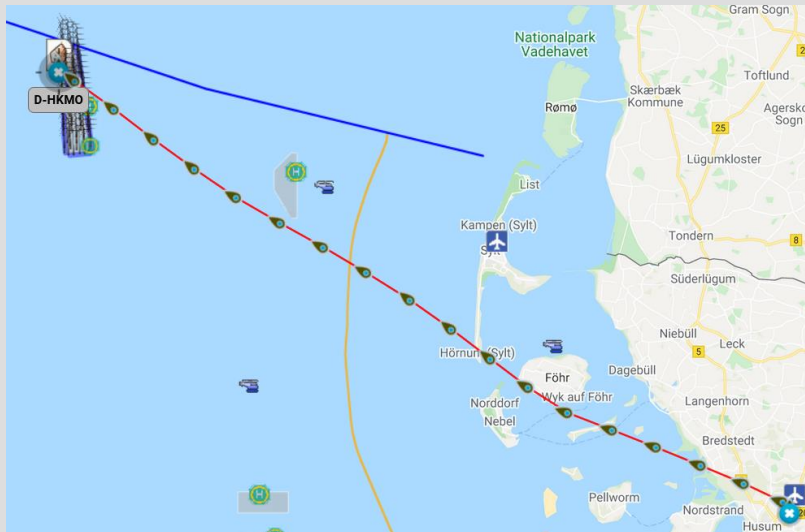
- number of passenger, nationality, ID number, weight of passenger & luggage, start & final destination, arrival & departure time



## 2. Aspects of offshore logistics – In operation

### 1. Safety

- Safety briefing before departure & on arrival at FINO3 for external
- Operation monitoring by onshore backup
- Working in teams if necessary





## 2. Aspects of offshore logistics – In operation

### 2. Communication

- via radio device by work in the pile, in the mast, parallel work, refuelling, ...





## 2. Aspects of offshore logistics – Work around FINO3

- 500 m safety zone around FINO3
- Permission required from the Federal Maritime and Hydrographic Agency to bring out an installation on or under water
- Permission required from FuE-Zentrum to enter the safety zone
- Message at FuE-Zentrum by entering/leaving and beginning/ending the work in the safety zone
- More preparation required (costly, time-intense)
- Setting limits of use & method statements



### 3. Conclusion

- Good communication
- Good coordination of works before and during an operation
- More and detailed preparation required as nearshore/onshore (costly & time-intensive)
- Main factors of offshore work  
⇒ weather & availability of helicopter & vessel
- Flexibility required
- Always consider safety





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