

# Project / KSWS / NEidI / LDiCS Smart Computing Summer 2022

VAC / MMIS / Sebastian Bader

# Topic Descriptions (just a few examples)





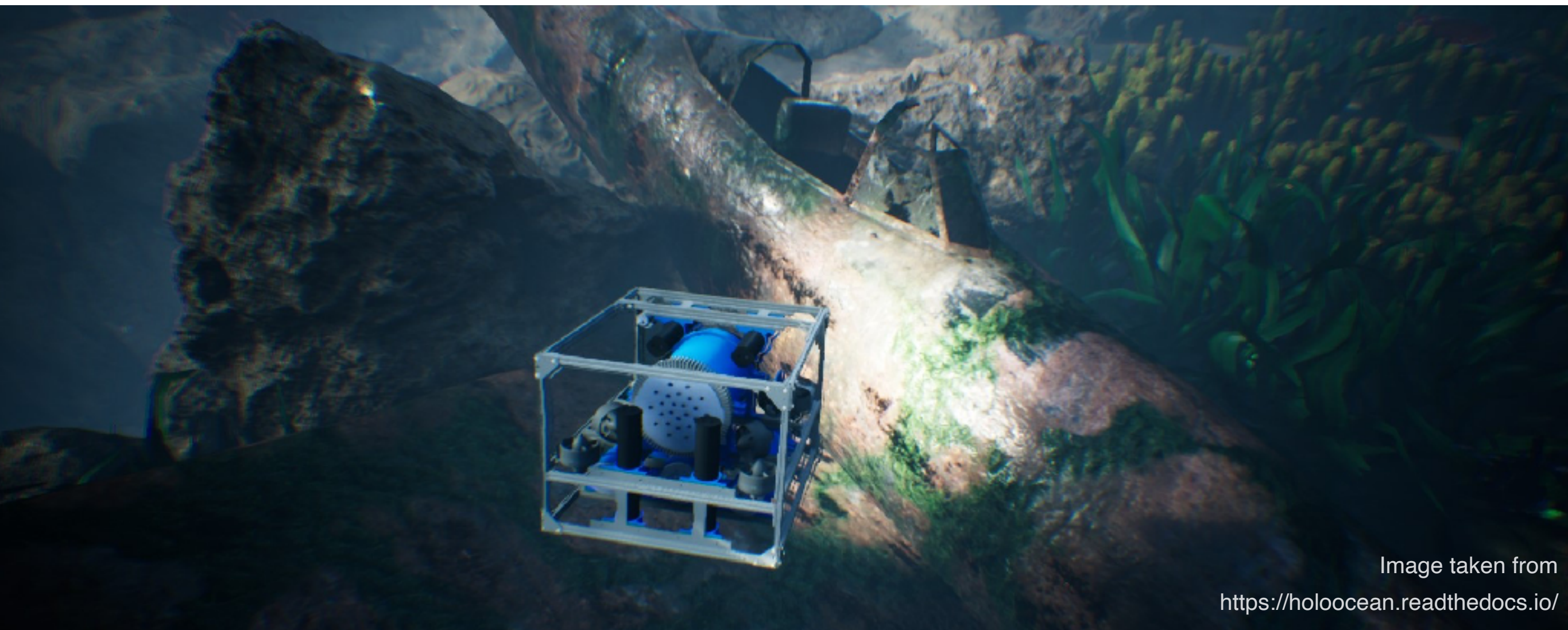
# OTC-DATA

Making sense of data in a maritim environment

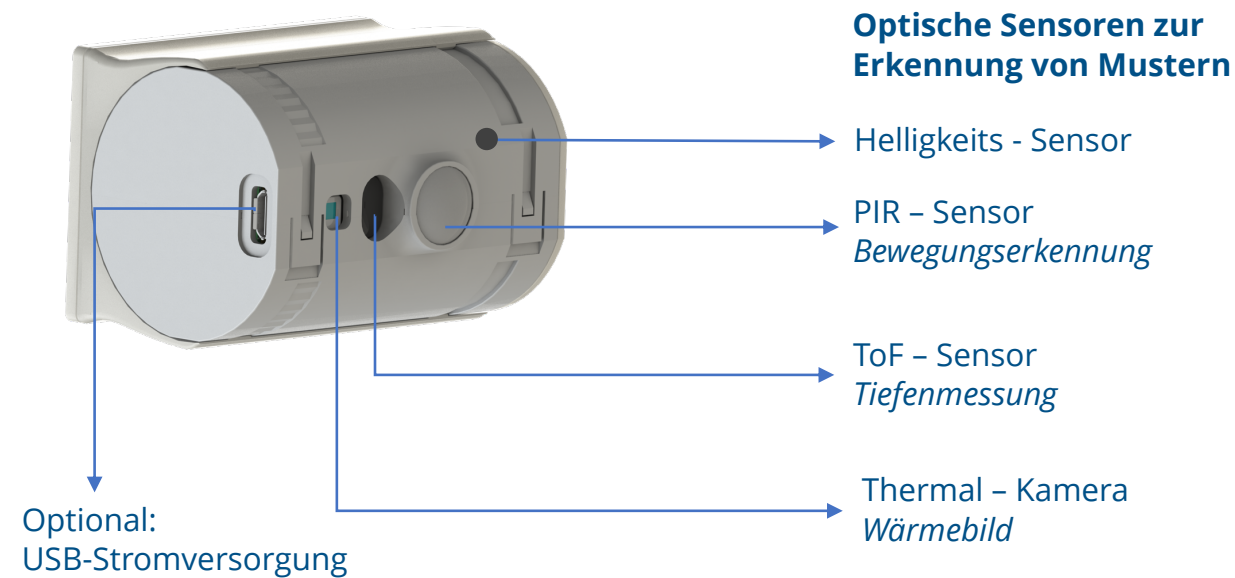


# Underwater Simulation Environment

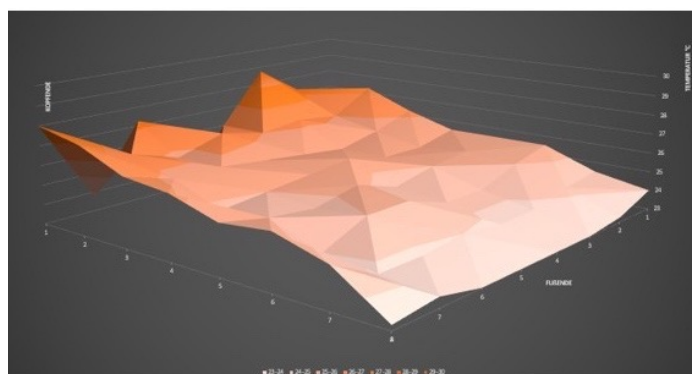
- Build an underwater simulation for selected areas within Rostock
- Develop and control virtual robots based on ROS
- Collect simulated data and compare it to real world data



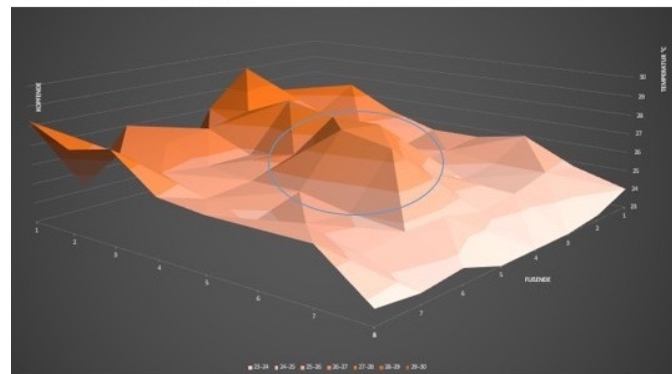
# Sensor-based State estimation in Hospitals



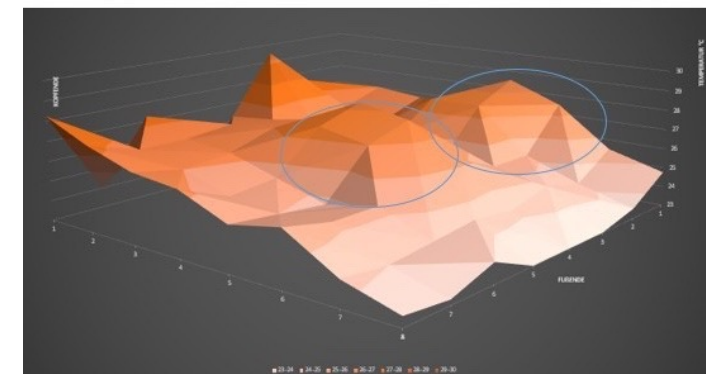
**leeres Bett**



**belegtes Bett**



**belegtes Bett &  
Person rechts neben Bett**



# Goals

# Professional competence

- Tools for project management:
  - GIT, Timesheets
  - Find your communication tool as a team (and reflect your choice)
  - Find your method as a team:
    - waterfall, spiral, agile methods, continuous integration, ...
    - [https://en.wikipedia.org/wiki/Software\\_development\\_process](https://en.wikipedia.org/wiki/Software_development_process)
- Specification, Design and Implementation of a software system:
  - UML diagrams
  - Interface definitions for modules
  - Replicability of all tests

# Methodological competence

- Project management:
  - Meeting notes:
    - each meeting should be headed by one team member
    - lead should be distributed (weekly, project phase, ...)
  - Time sheets
- Ability to explore a topic in a less structured learning environment
  - there will be no traditional lectures / exercises
  - you will need to organize yourself / your team
  - you will need to organize meetings with supervisors if necessary and appropriate



# Self- and social skills

- Organisation as a team
  - group meetings with dedicated roles: head of meeting, minutes, ...
  - the roles should not be fixed and be noted in the meeting notes
- Assertion within the team:
  - Find your spot, be the lead for at least one sub-area

# Organisation



# Project / KSWS / NEIDI / LDiCS

- Organisation

- If interested, enroll via StudIP until April 6!
  - Project: Course ID 23818 (BSc)
  - KSWS: Course ID 23819 (BSc)
  - NEIDI: Course ID 23837 (MSc Inf)
  - LDiCS: Course ID 23876 (MSc CSI)
- First meeting Thu. 7th April, 15:00 via Zoom  
(check StudIP announcement)
- Limited number of participants
- All topics will be presented during the kick-off on April 7.
- Topics will be assigned on a first-come first-serve basis to fully formed teams of students (3-5 participants)