



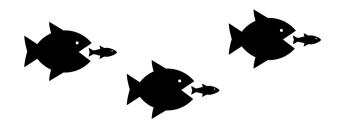
Saaremaa – Center for Wind Energy Knowledge, Skills, and Research

Merit Kindsigo School of Engineering / Kuressaare College

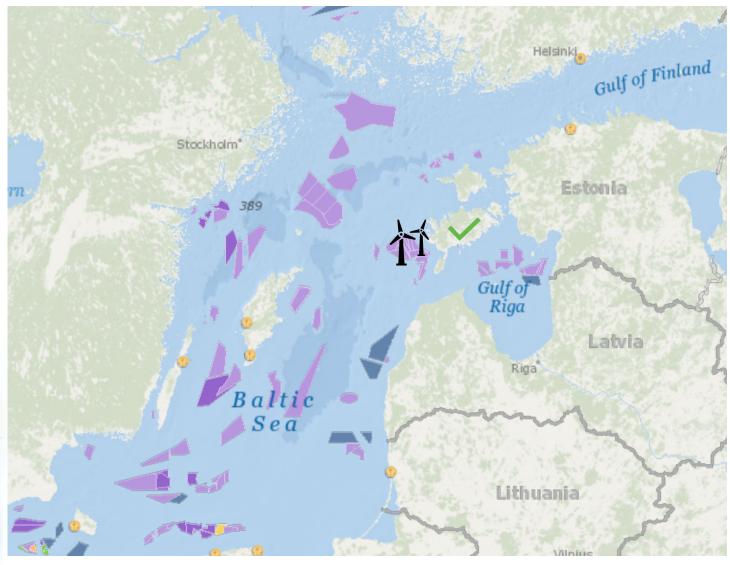
28.03.24 TALLINN UNIVERSITY OF TECHNOLOGY

WHERE ARE WE?

"The Baltic Sea is a shitty place to be..."









WHAT DO WE KNOW?

- Environmental conditions:
 - nature, species,
 - physical conditions,
 - weather etc.
- Pollution
- Shipping routes/logistics
- Ports

The Baltic Sea - one of the most important European bird migration routes and habitats of different species: Birds (over 80 sp.)

Bats (14 sp.) Seals (2 sp.)

Fishes (approx. 30 sp.)

Other (plants, algae)



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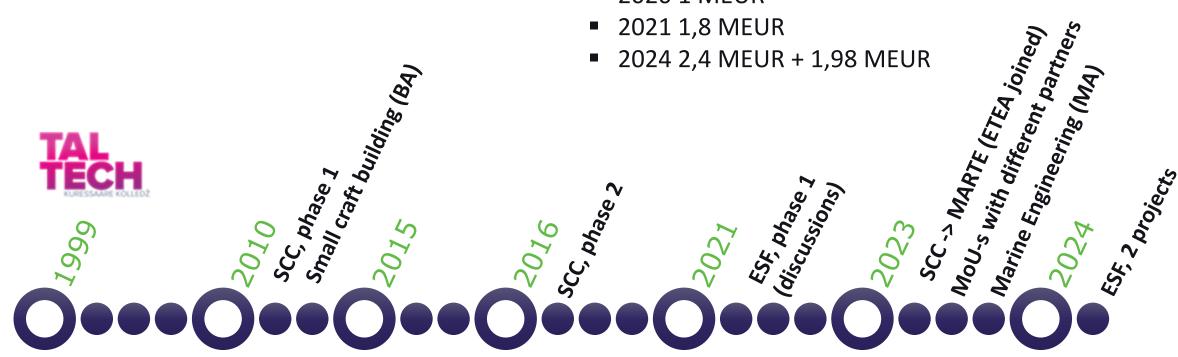


Baltisch-ungarischer Zugweg Baltic-Hungarian Flyway Osteuropäischer Zugweg

BRIEF HISTORY OF THE CENTER OF THE BALTIC SEA

Systematic growth of competence:

- 2010 3,7 MEUR
- 2016 0,7 MEUR
- 2020 1 MEUR
- 2021 1,8 MEUR







WHAT WE DON'T KNOW?

- Sea-blindness
- Climate change
- The speed on innovation
- Solutions for next generation technologies
- Economic and political situation of tomorrow
- What we need tomorrow or day after that..?



How to bridge the gap between 'we have's 'and 'we don't have's'; we know's and we don't know's..?

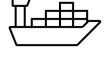
How to go beyond boundaries..?

















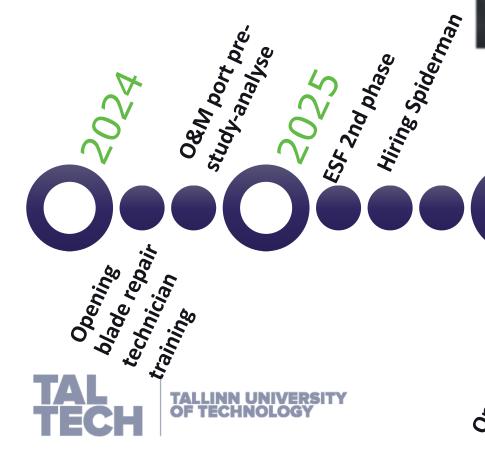
THE MYSTERIOUS FUTURE...

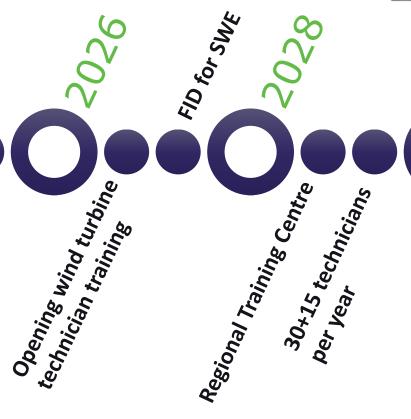
WHAT THE FUTURE HOLDS?













DO SOLUTIONS HAVE TO BE PHYSICAL?











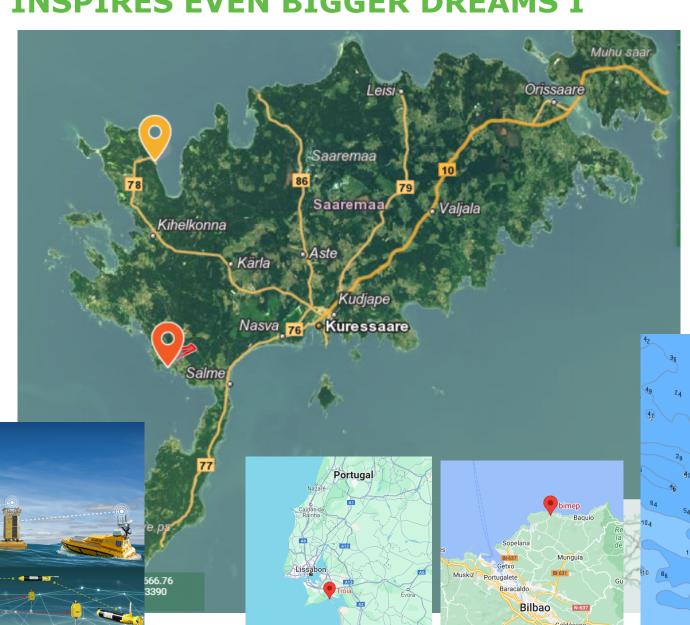


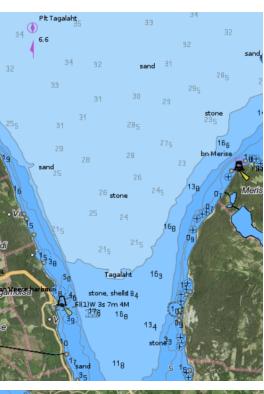


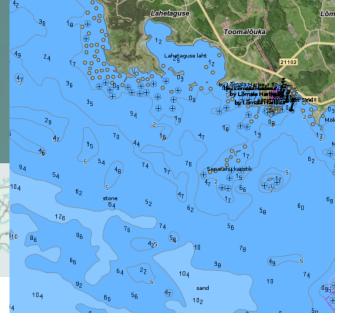
BIG PROGRESS INSPIRES EVEN BIGGER DREAMS I

- Innovation area -> practical testbed
 (BiMEP, Troia, Plymouth)
- O&M port to Saaremaa

Smart Sound Plymouth







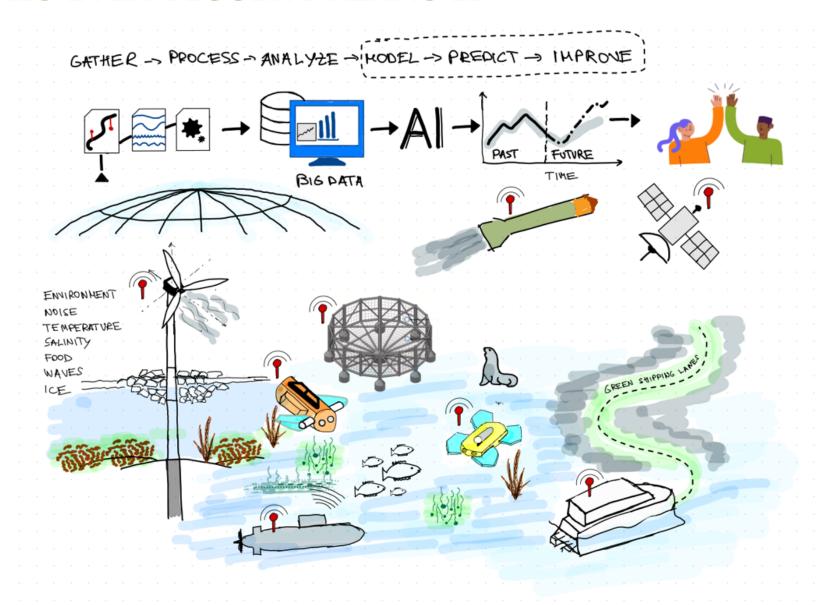
BIG PROGRESS INSPIRES EVEN BIGGER DREAMS II

Smart Sea – Centre of Excellence

"Our ambition is to tell you what you think before you know it."

Systematic growth of competence:

- 2025 3+4 MEUR (ESF)
- 2025 2 MEUR (testbed, phase 1)
- 2026-2027 30+ MEUR (CoE)
- 2024-2030 O&M port (for CTV-s, 5+ MEUR)





2035



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