



R&D Webinar - AFOSS-DC Project Outcomes Designing the electrical substations of the future



Welcome words



Nicolas RUIZ



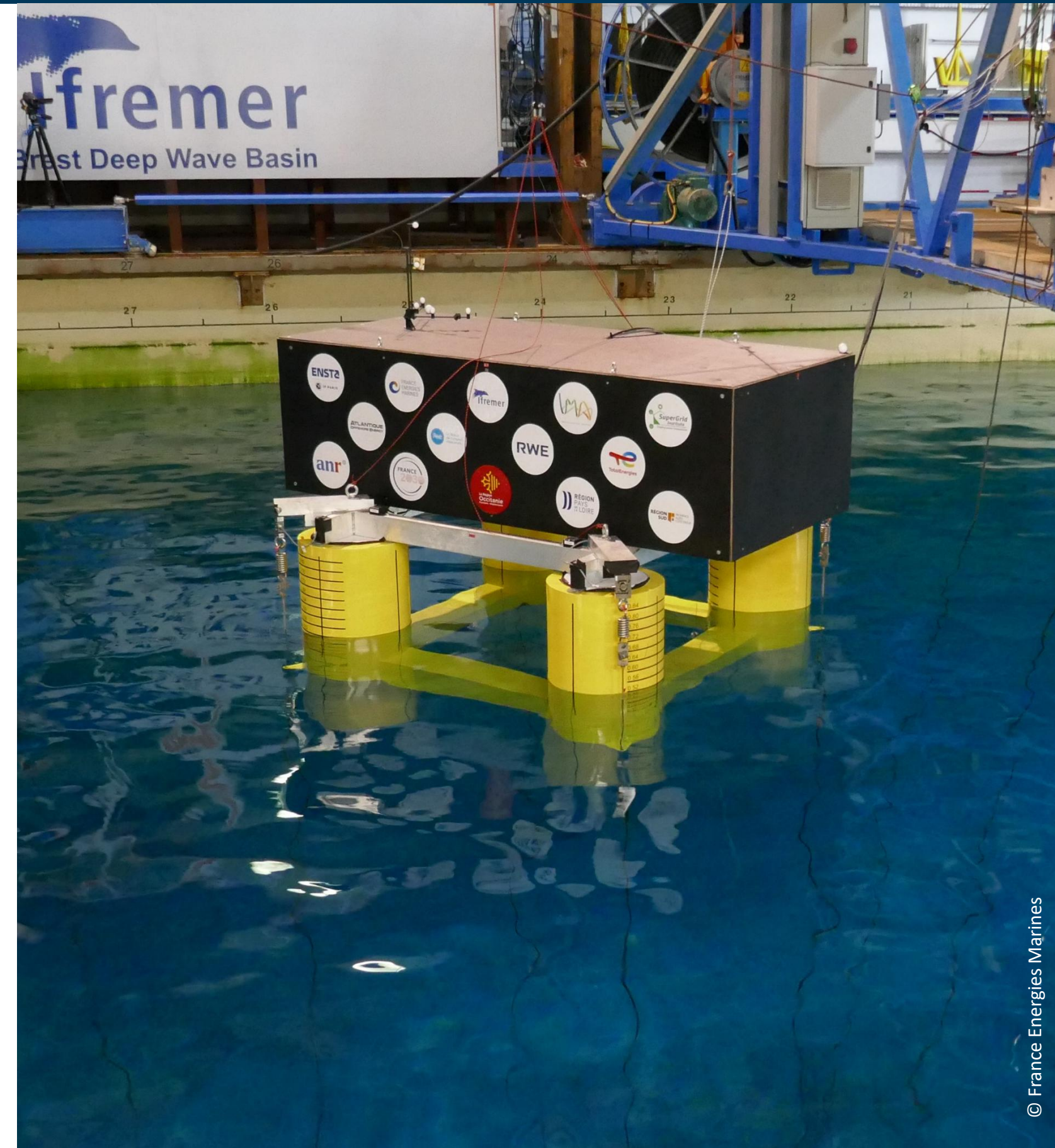
Yohan PERCHER



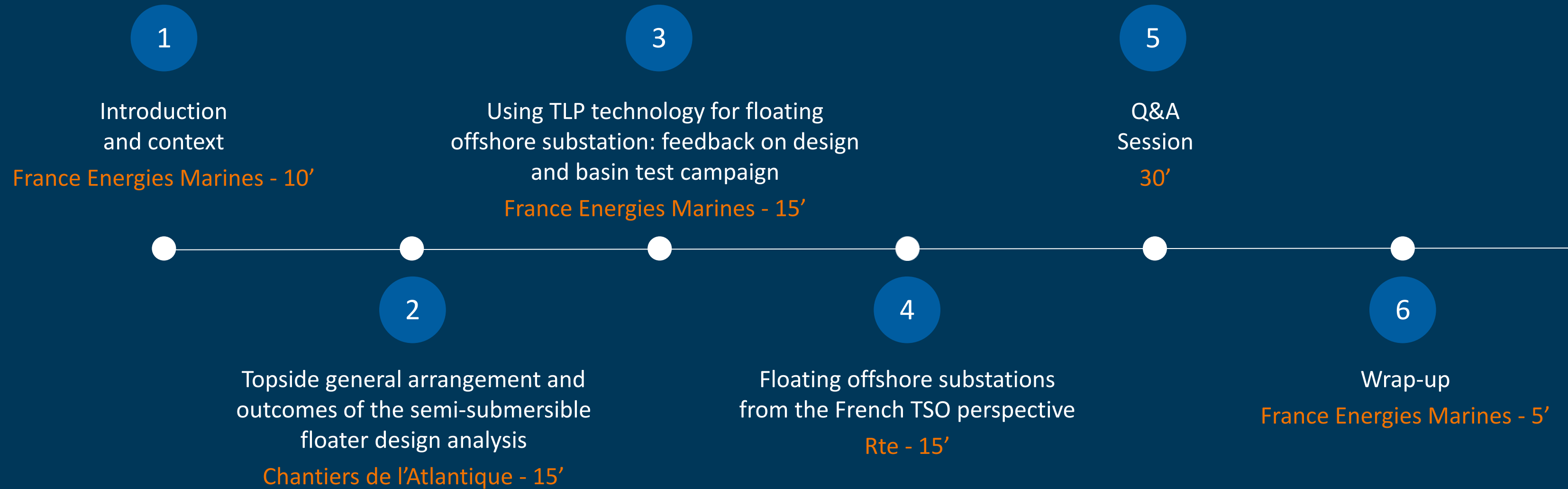
Jérémy BIOUD



Yann GIORGIUTTI

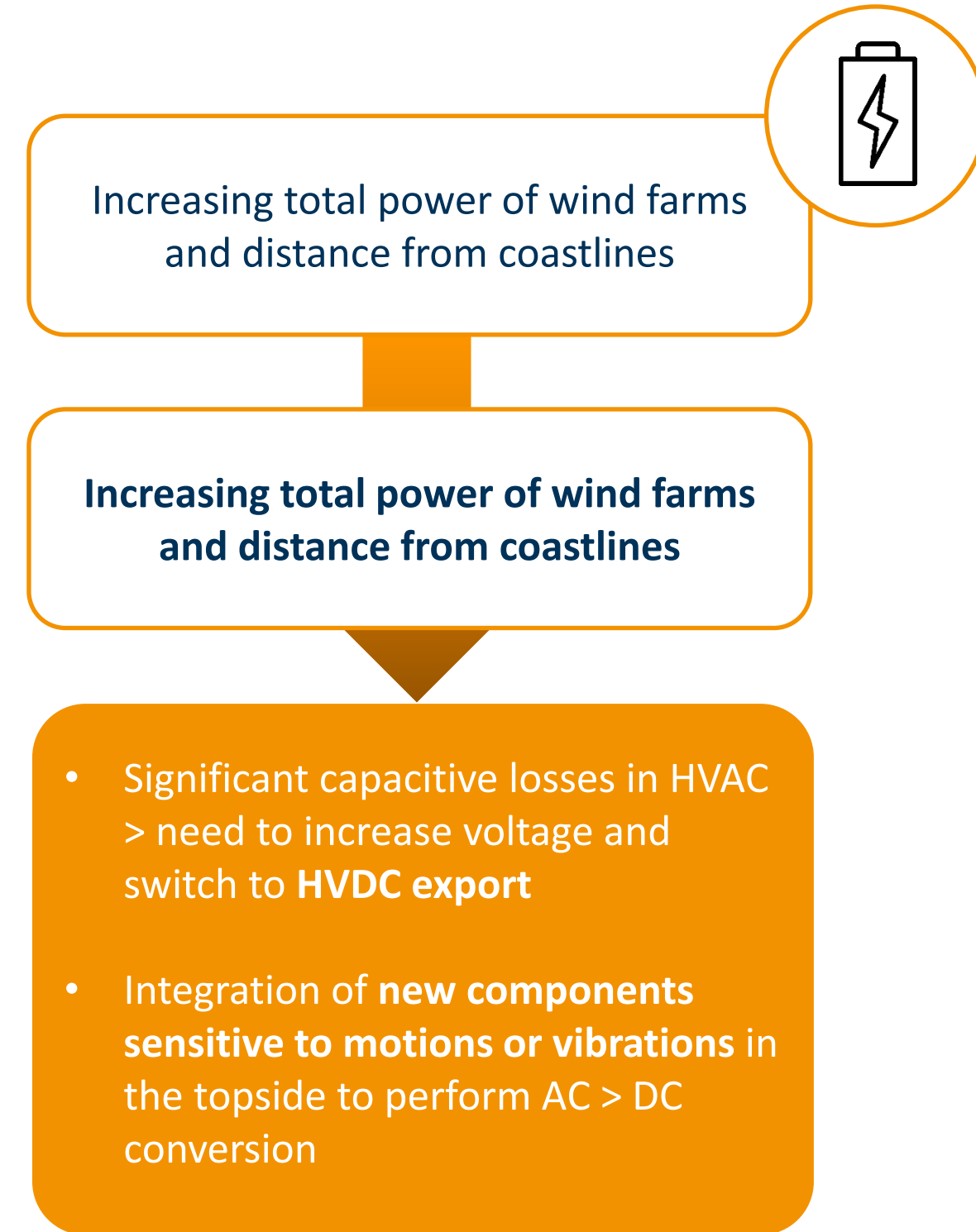
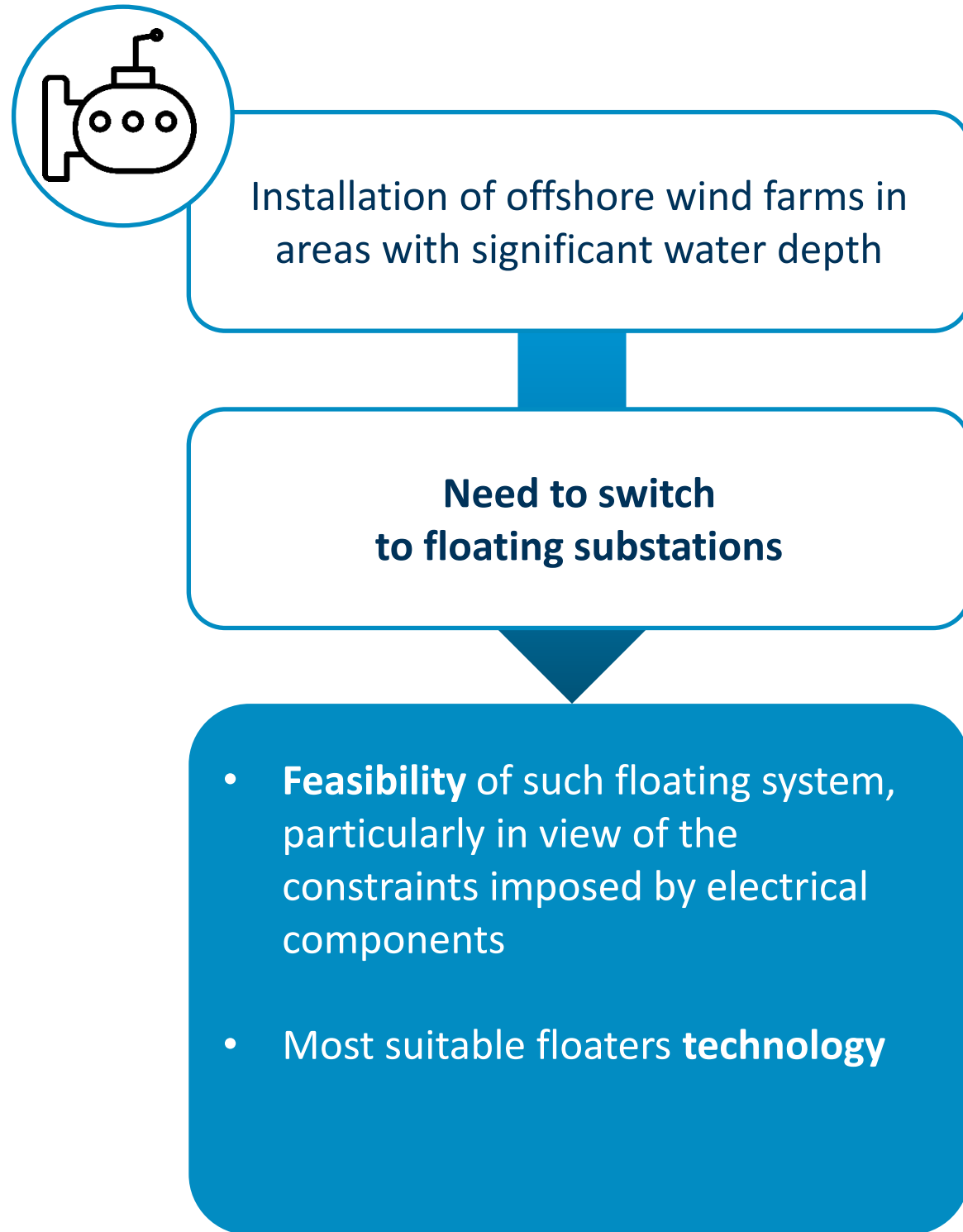


Agenda



"Q&R" or "Q&A" to ask questions that will be addressed during Q&A session

Introduction and context



3 YEARS (2022-2025)

€1.5M TOTAL BUDGET

9 PARTNERS

OBJECTIVE

To study the HVDC floating offshore substation as an integrated system through analyses of functional requirements, integration constraints, risk and reliability

TOPICS ADDRESSED

- **Design basis**
- **Electrical systems and topside:** functional analysis, electrical architecture definition, topside arrangement, calculation of the movements
- **Semi-submersible platform:** design, motion and vibration analysis
- **TLP platform:** advanced and comparative design, motion and vibration analysis, basin testing
- **Dynamic cables:** design of a cross section, arrangement and connection
- **Cybersecurity**
- **Risk and reliability** analysis, maintenance optimisation, OPEX calculation
- **Qualification:** validation and qualification strategy, rules and regulation gap analysis, recommendations

