KU LEUVEN GENT

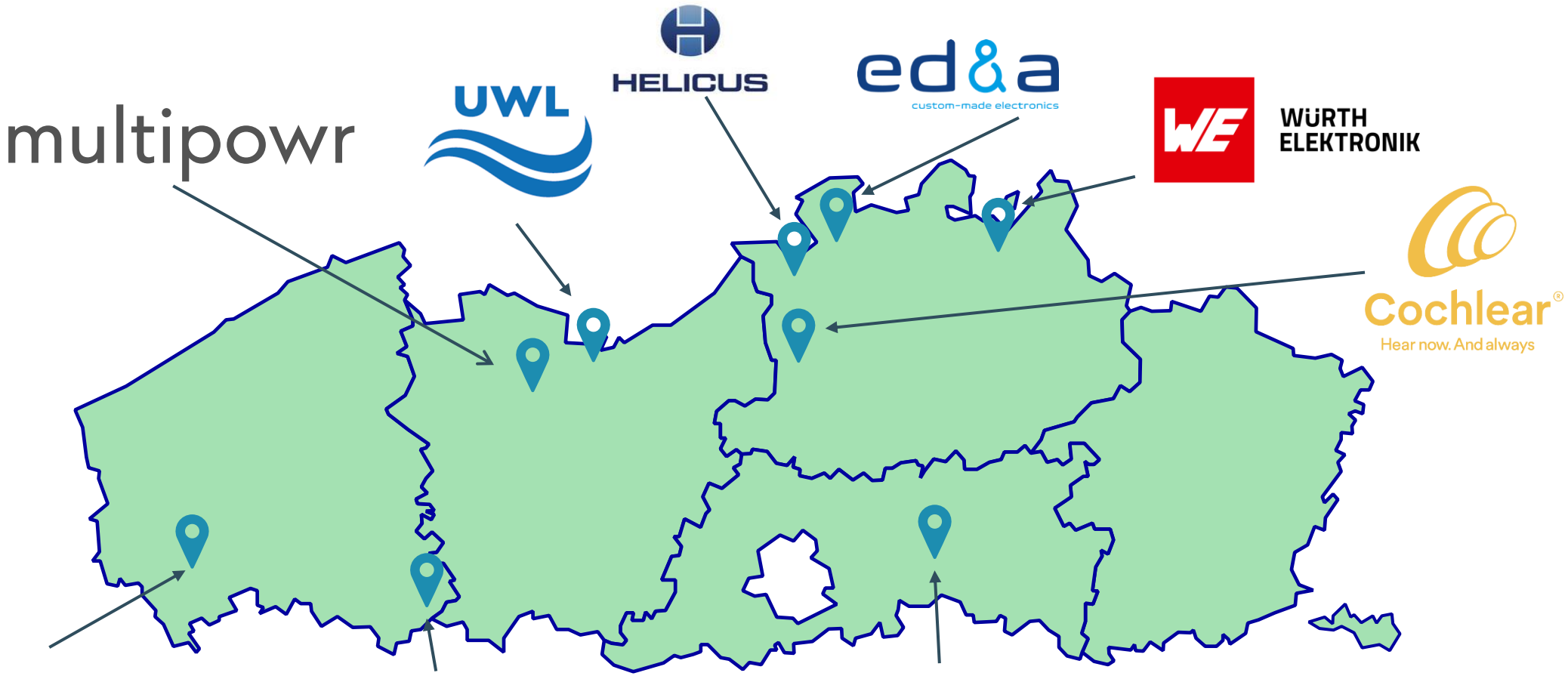
Work package 4: High Power WPT

Advances and decisions

UWL PICANOL Let's grow together multipowr HELICUS BEKAERT ed&a custom-made electronics WE WÜRTH ELEKTRONIK Cochlear Hear now. And always FORCEBIT®

VLAIO KU LEUVEN Universiteit Antwerpen

Location companies



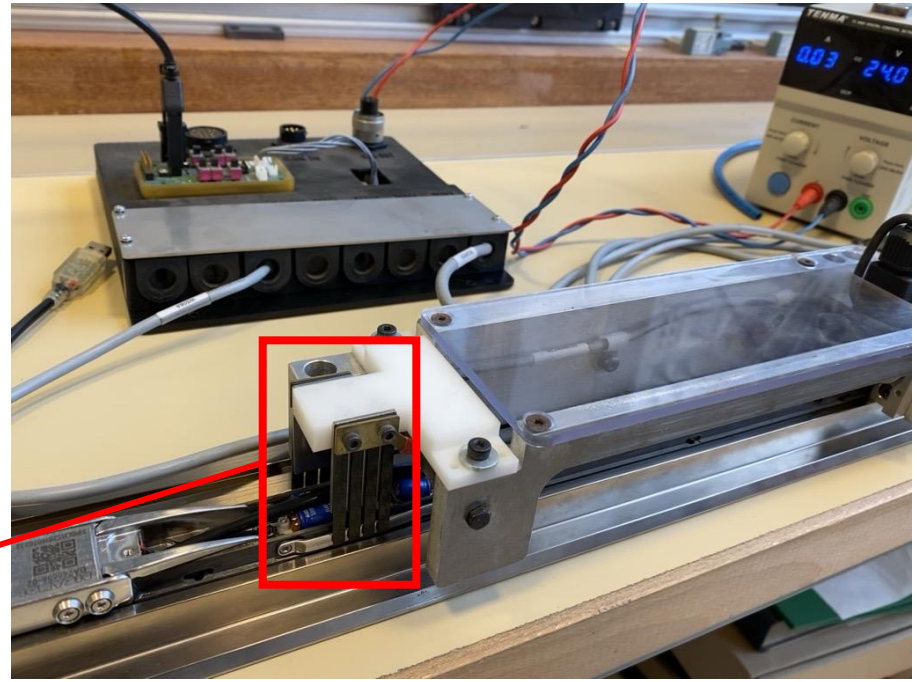
WP 4: High Power – advances & decisions

3 demonstrators will be built in collaboration with Master's thesis:

D1: Charging linear accelerating part of weaving machine
D2: Charging autonomous electric inland vessel
D3: Educational demonstrator of high power WPT

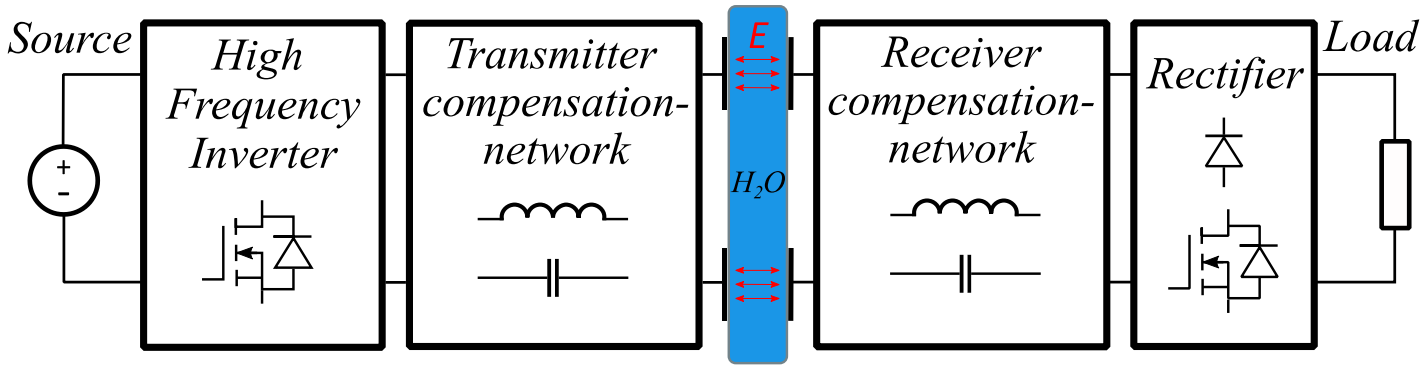
D1: Charging linear accelerating device

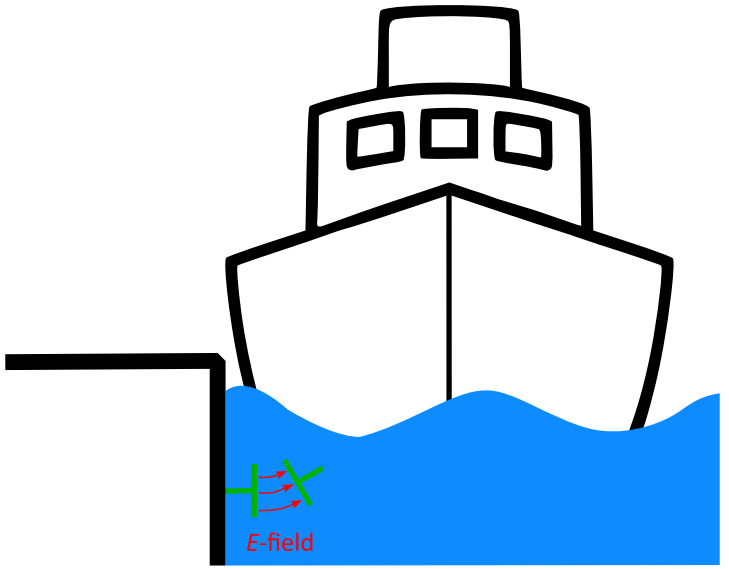
- Focus: **system design**, integrating Components of The Shelf (COTs)
- Mechanical/Pneumatic part is delivered by Picanol
- Inductive charging (**IPT**)



D2: Charging autonomous electric inland vessel

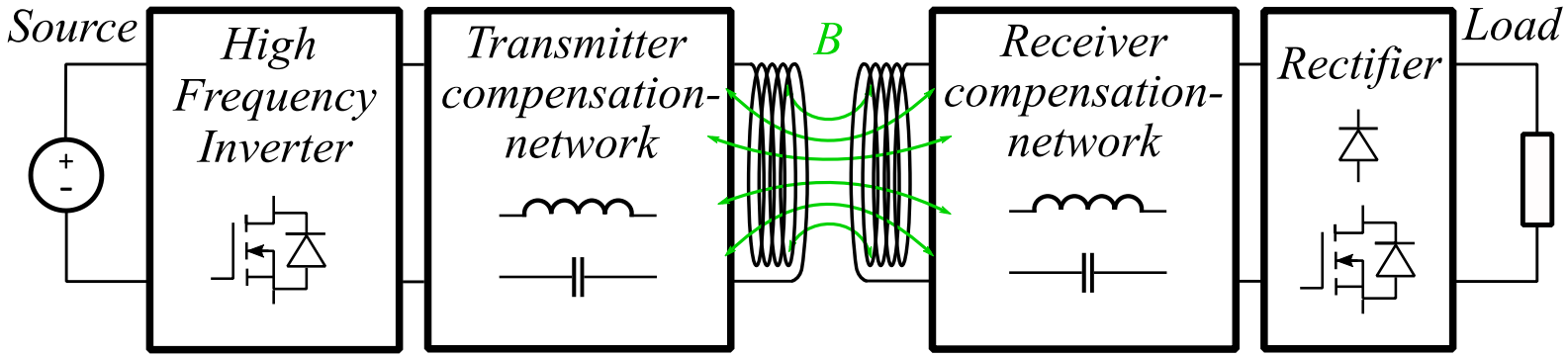
- Focus: **water as a dielectric medium**
- **CPT** high power transfer
- Specifications:
  - P_{out} = 50W
  - Gap ≈ 5mm





D3: Educational demonstrator of high power WPT

- Focus: system design & **educational value**, with COTs
- **IPT**: power ~ 500W
- To be integrated in the course Power Electronics



Thank you for your attention
Questions?