

Composite Dynamics

THE SEA CARVER PROJECT



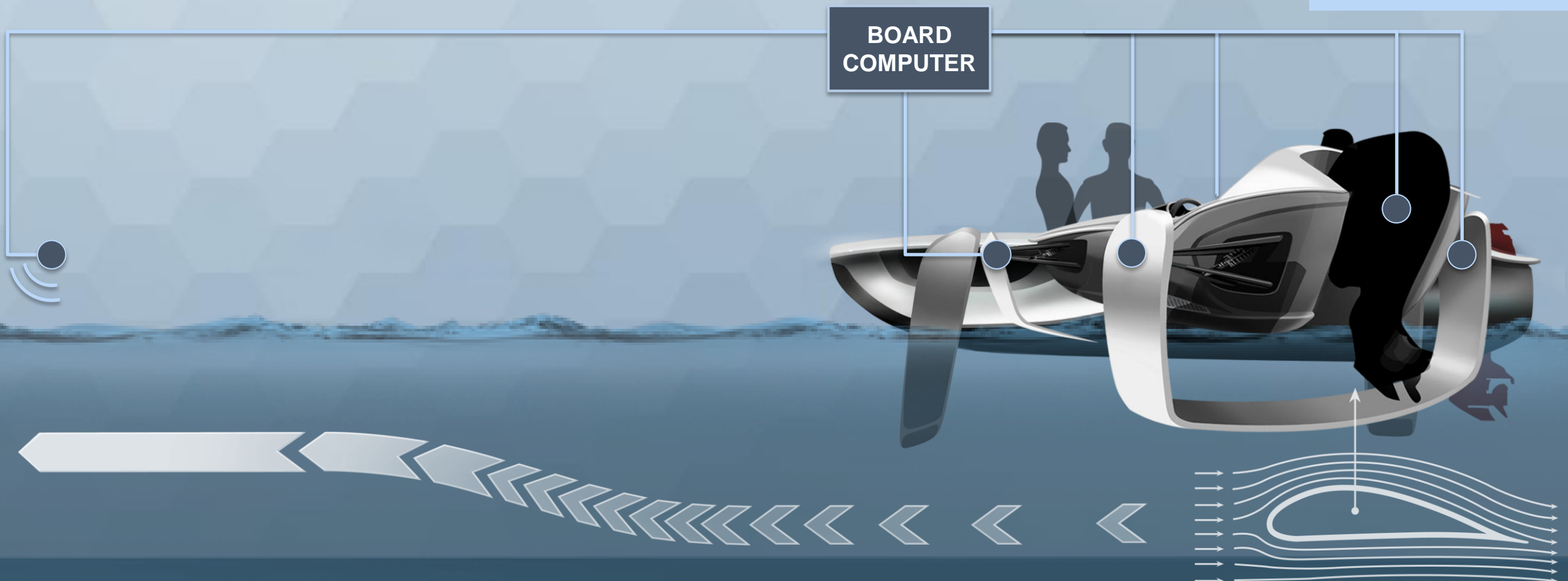
Dr.-Ing. Peter Schnauffer, Dipl.-Des. Oliver Schweizer
21.10.2015, TBB.2015 Berlin

ENERGY EFFICIENT ACTIVE HYDROFOIL SYSTEM

- Development of sports boat »Sea Carver« with hydrofoil system
- Hydrofoils reduce drag by lifting the vessel out of the water
- Inertial and sonar sensors to support board computer
- Special designed algorithms to adopt all driving situations

ACTIVE FOIL CONTROL
MEASURING

- SPEED
- LOAD
- WEIGHT DISTRIBUTION
- WAVE HEIGHT



ENERGY EFFICIENT ACTIVE HYDROFOIL SYSTEM

- Development of sports boat »Sea Carver« with hydrofoil system
- Hydrofoils reduce drag by lifting the vessel out of the water
- Inertial and sonar sensors to support board computer
- Special designed algorithms to adopt all driving situations
- Computer controlled mechanism to extract and retract the hydrofoils and the engine automatically



BUSINESS MODEL

Developing, producing and selling sports boats equipped with the **ACTIVE HYDROFOIL SYSTEM**

TARGET GROUP:

Private users, couples, families and best agers

Hotel keepers, boat rentals and governments

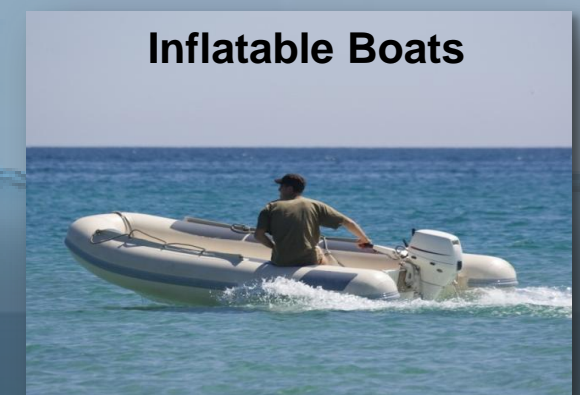
DOMAIN:

Coastal areas, waterways and lakes



NEEDS and SOLUTION, USPs

- Clean image
- Driving in recreation areas, low noise emissions
- Active Hydrofoil to reduce power consumption between 30 % and 70%
- Usage of outboard engines with low or no emissions
- Smooth gliding capabilities
- Admission and registration as hydrofoil and ordinary boat
- No additional driving skills required



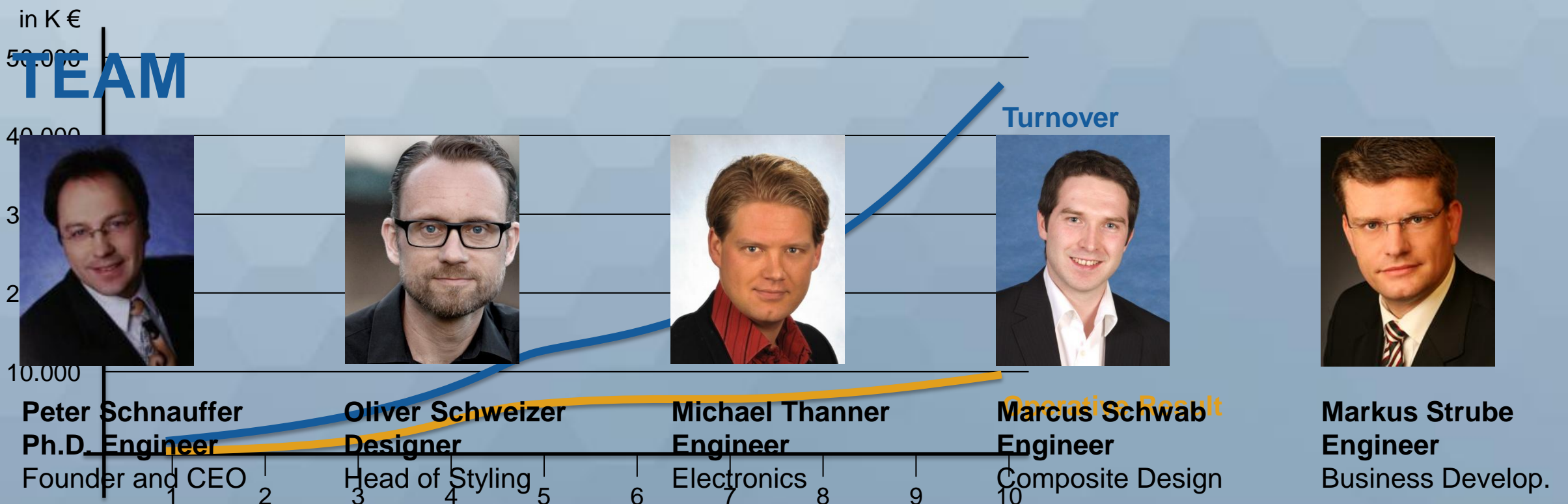
THE JOURNEY SO FAR

- Development and design of the hydrofoil system
- Technical prototype with test equipment to proof the concept
- Simulation station
- International patent pending
- Approx. 10 man years manpower until now







MARKET

- Total size of water sports market: 29 Billion €
- Our potential niche market: 160 Million €
 - 2 % of Jetski market = 53 Million € (Europe and USA)
 - 2 % of open sports boats market = 107 Million € (Europe and USA)



Thank you. Any questions?

-  facebook.com/kicinnoenergy
-  twitter.com/KICInnoEnergy
-  linkedin.com/company/kic-innoenergy
-  youtube.com/user/InnoEnergy