

INTERNATIONAL MEDIA LAUNCH BMW i8 ROADSTER



BMW i AND TEAM MALIZIA
COOPERATION

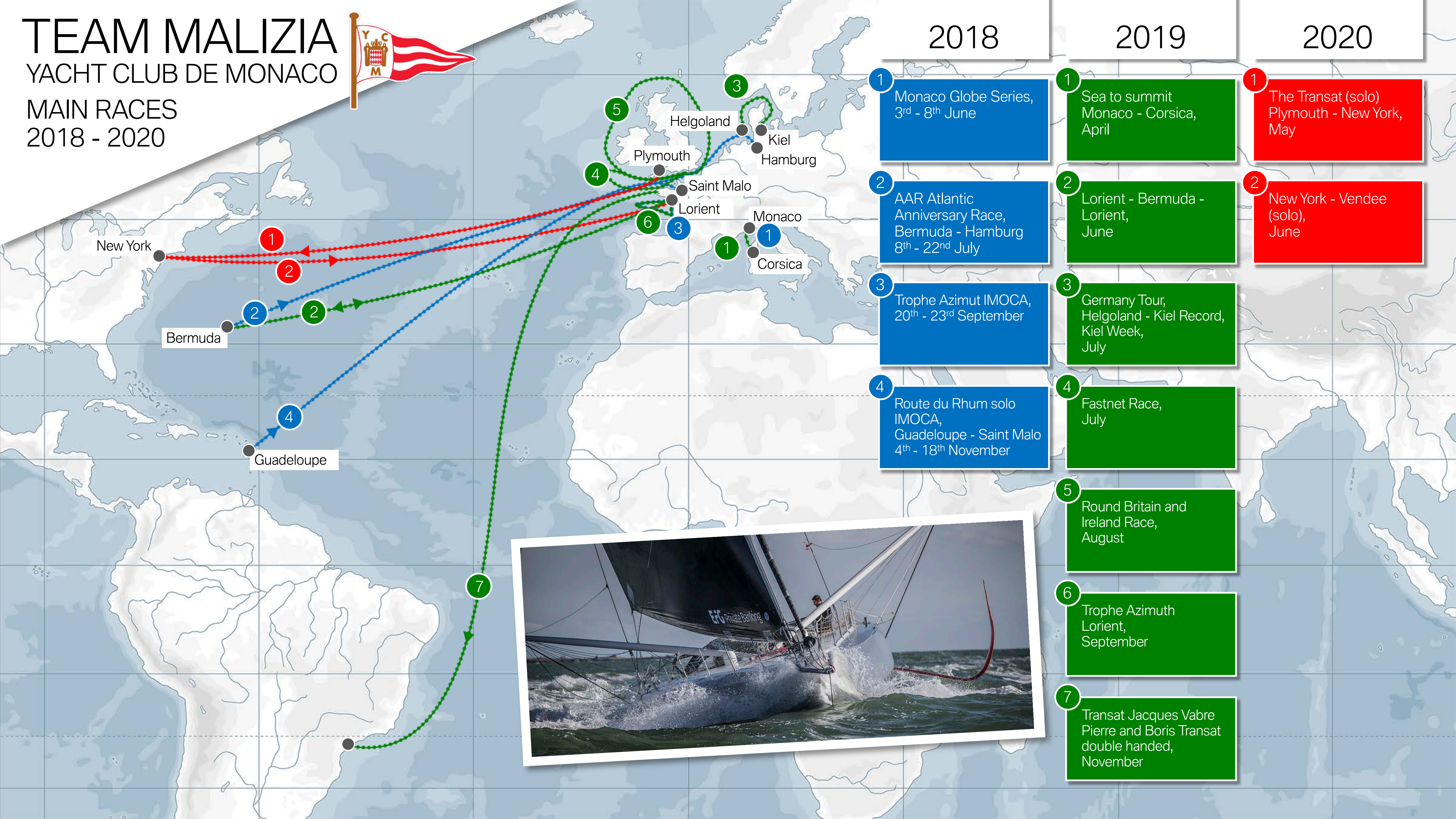


TEAM MALIZIA

YACHT CLUB DE MONACO

MAIN RACES

2018 - 2020



2018

2019

2020

1 Monaco Globe Series,
3rd - 8th June

1 Sea to summit
Monaco - Corsica,
April

1 The Transat (solo)
Plymouth - New York,
May

2 AAR Atlantic
Anniversary Race,
Bermuda - Hamburg
8th - 22nd July

2 Lorient - Bermuda -
Lorient,
June

2 New York - Vendee
(solo),
June

3 Trophe Azimut IMOCA,
20th - 23rd September

3 Germany Tour,
Helgoland - Kiel Record,
Kiel Week,
July

4 Route du Rhum solo
IMOCA,
Guadeloupe - Saint Malo
4th - 18th November

4 Fastnet Race,
July

5 Round Britain and
Ireland Race,
August

6 Trophe Azimuth
Lorient,
September

7 Transat Jacques Vabre
Pierre and Boris Transat
double handed,
November



MALIZIA

IMOCA OPEN 60

Sail area upwind:
between 240 and 330 m²

Sail area downwind:
between 460 and 620 m²

Combustion engine
system: 377 kg

Length: 18.28 m (60 feet)
Beam: approx. 5.50 m
Draught: 4.50 m

First IMOCA generation
with hydro foils

Mast height:
29.00 m



Type of keel: Canting



Ballast tanks: 2.5 tons
of water on each side



BMW i8 ROADSTER

374 hp / 275 kW

System output

53 km

Electric range*

≤ 2.0 ltr + 14.5 kWh

Consumption / 100 km*

4.6 sec

0 - 100 km/h

250 km/h

Top speed

Sports car performance
with efficiency of
a compact car



BMW electric motor

Carbon fibre frame

BMW three-cylinder
high-performance
combustion engine

* According to WLTP regulations.



ACC V5



90 ft Trimaran



AC45F



AC50

2002

2007

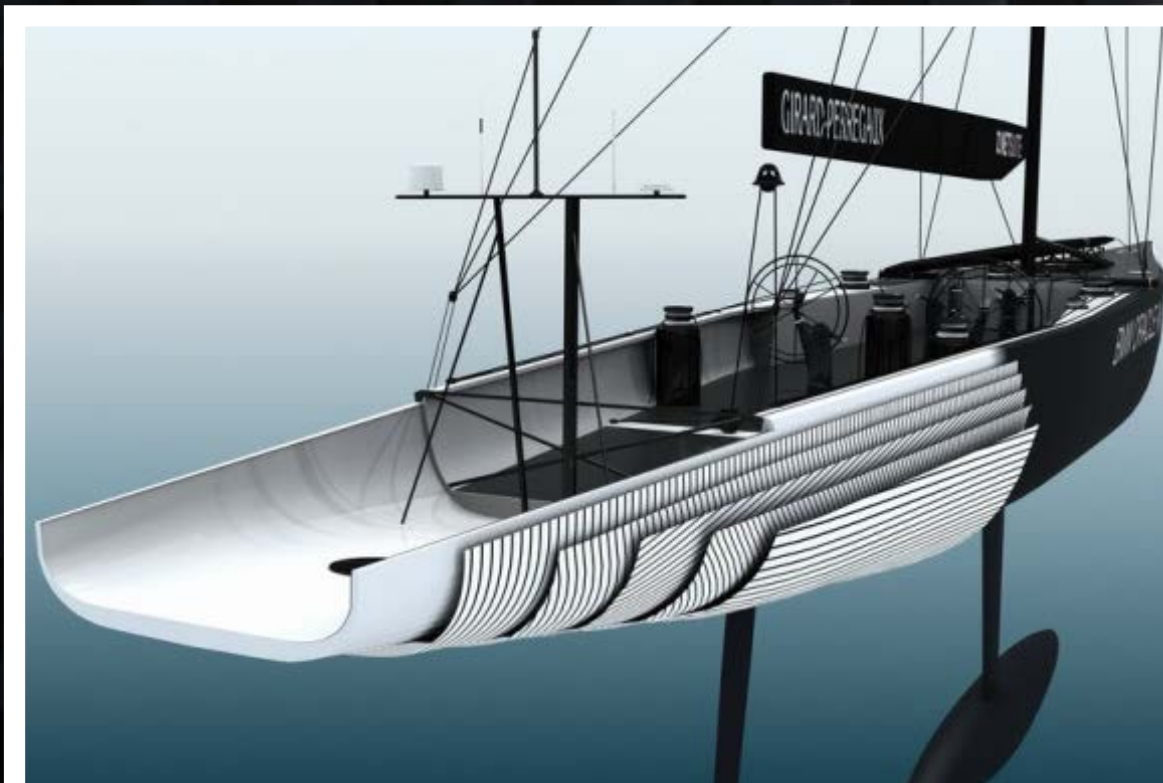
2010

2013

2017

HISTORY

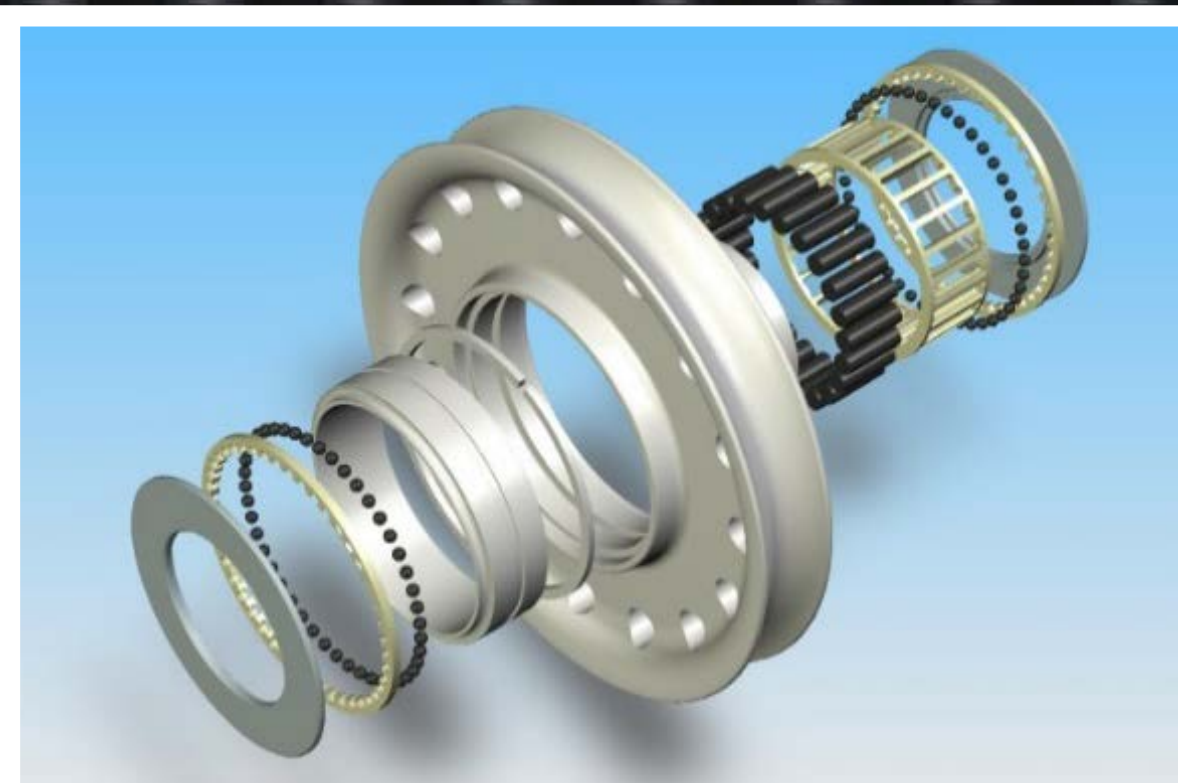
BMW HISTORY IN SPORTS TECHNOLOGY - SAILING.
AMERICA'S CUP.



Process &
Optimization



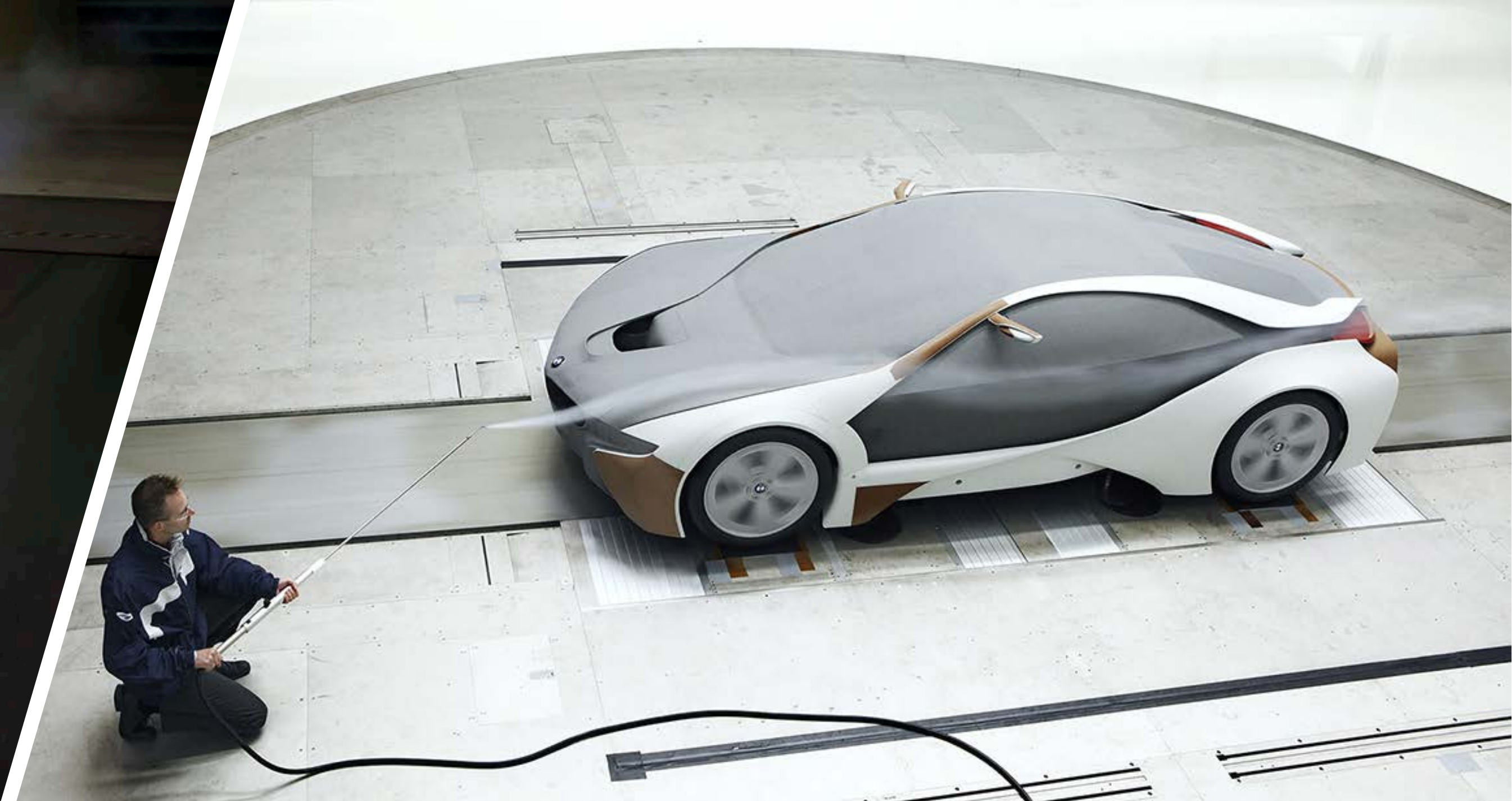
Stainless Steel Keel Fin



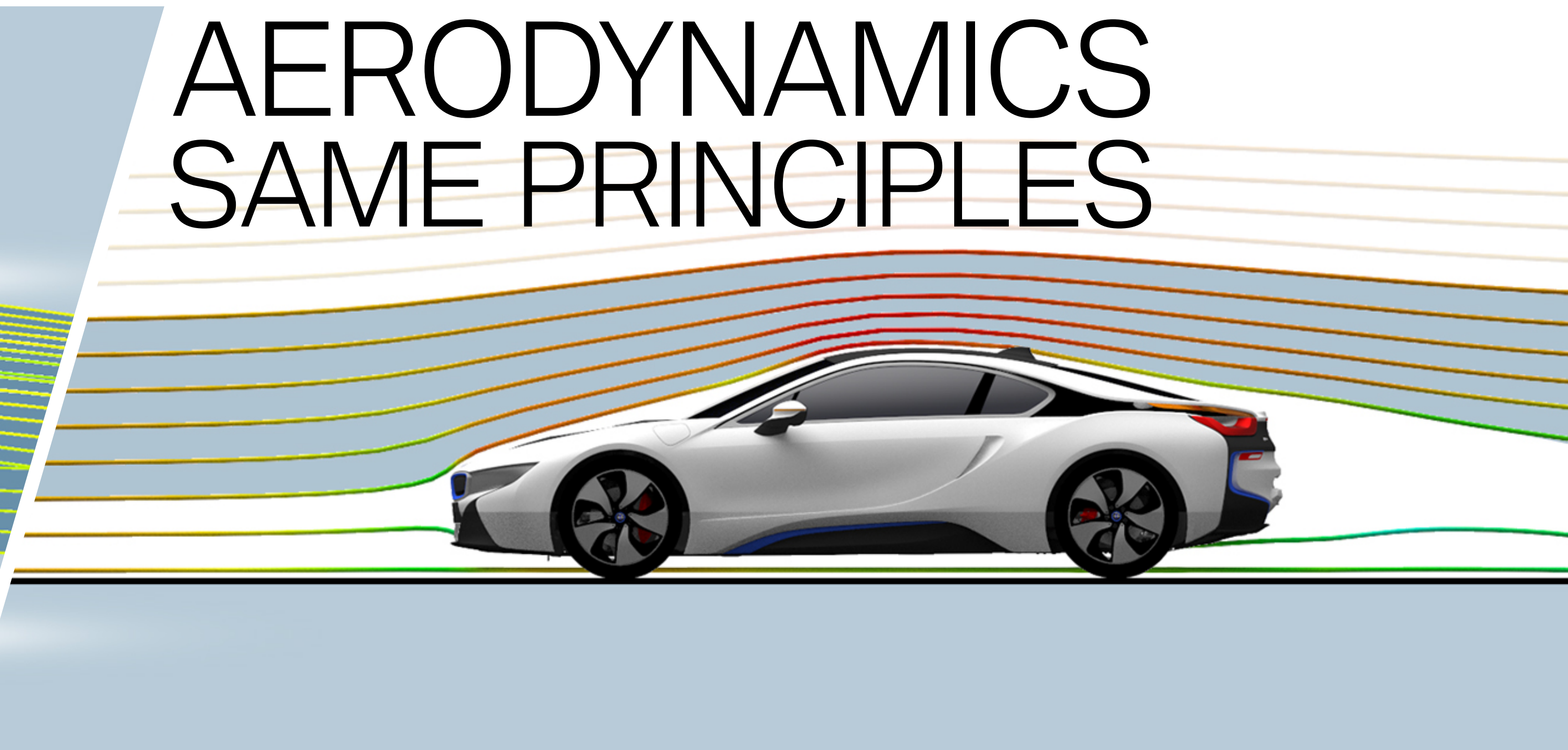
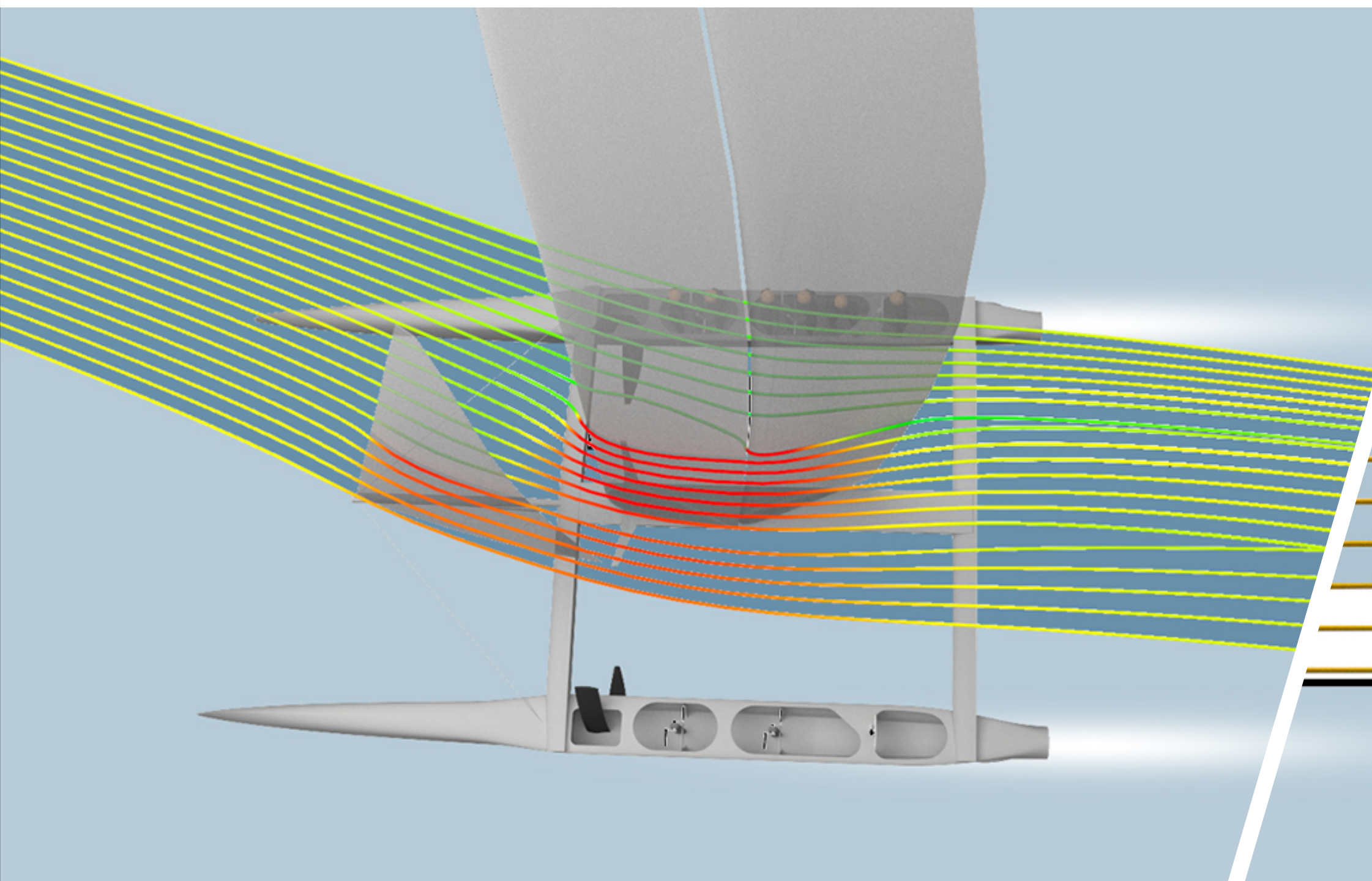
Ceramic Bearings -
Winches



Aerodynamic
Development



AERODYNAMICS
SAME PRINCIPLES





AMERICA'S CUP
TECHNOLOGY FOR THE ROAD

2004

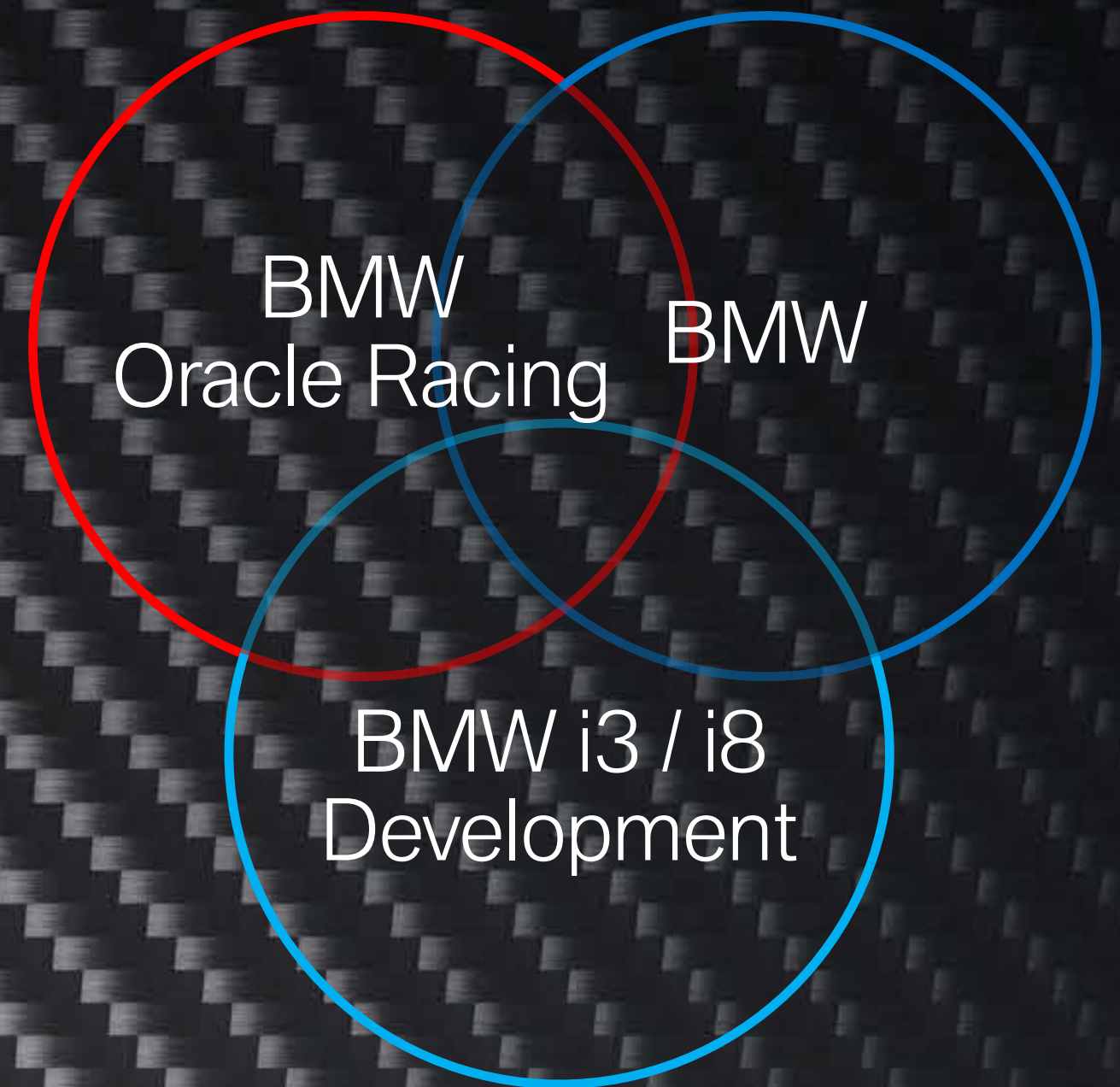
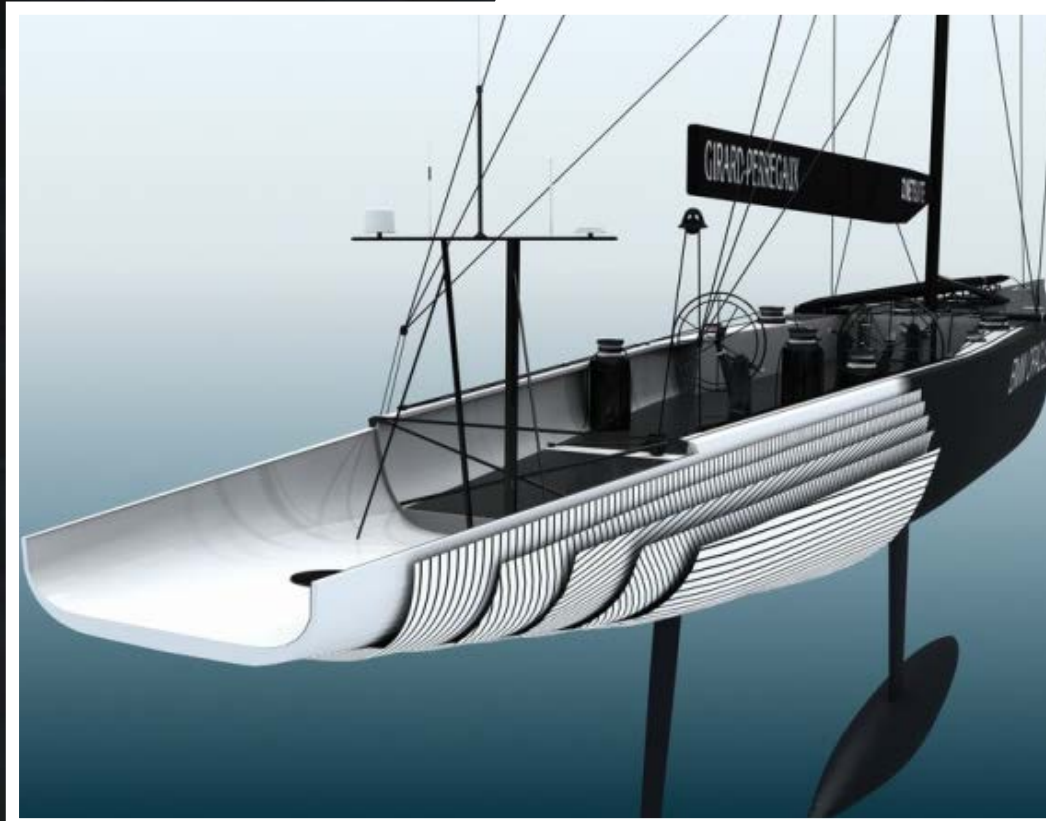
2007

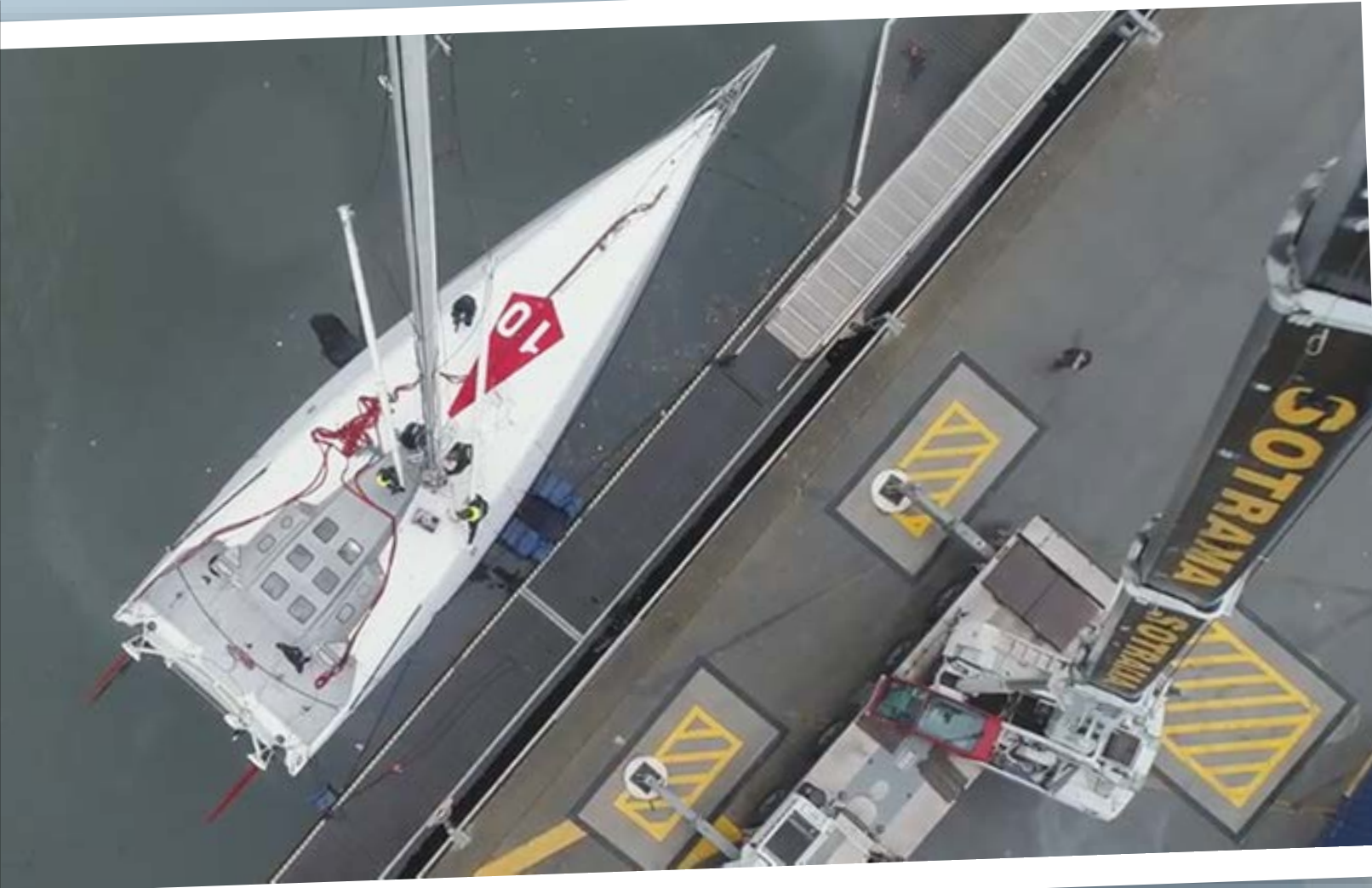
2010

2011

THE CARBON STORY

HOW CARBON KNOW-HOW EVOLVES.

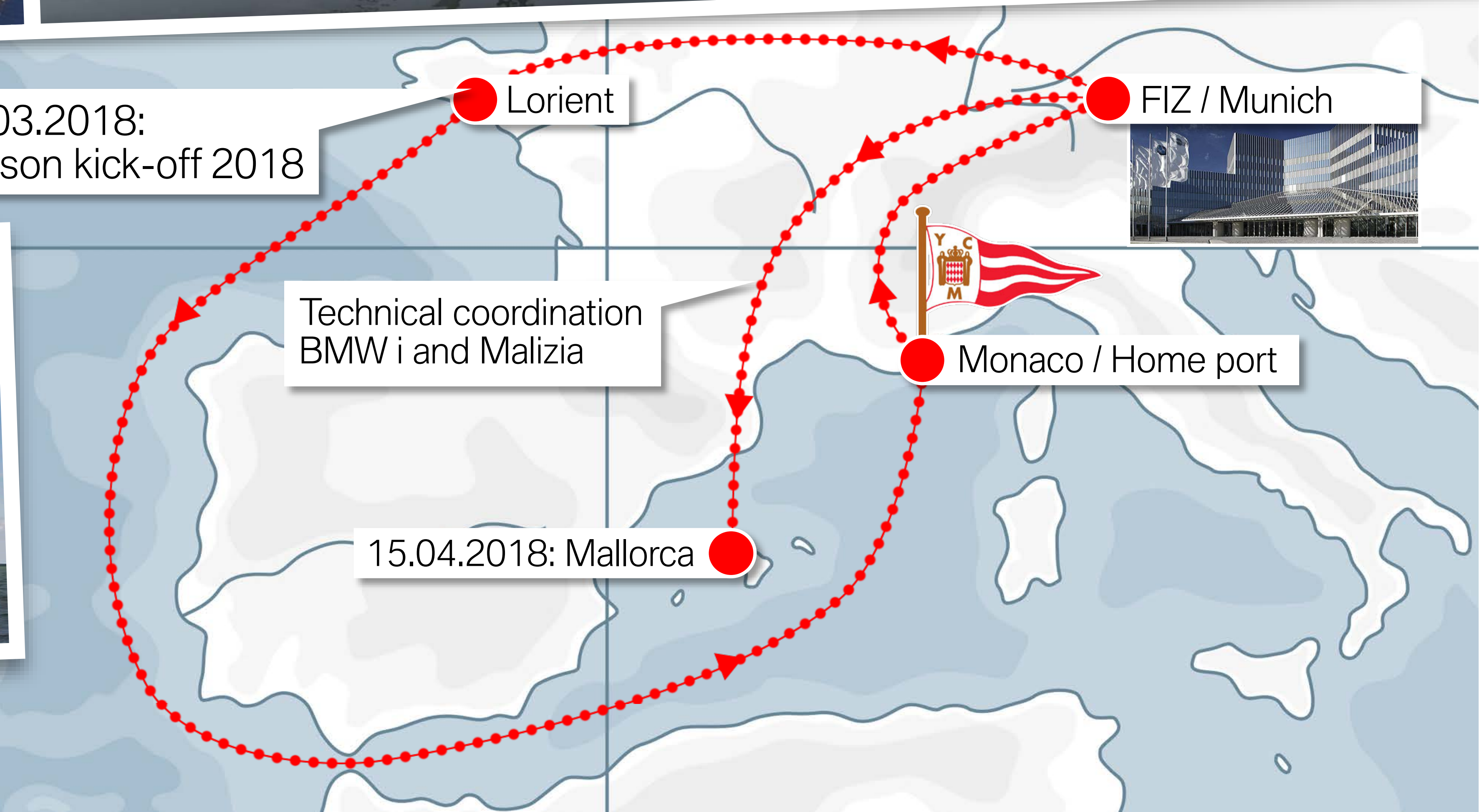




TECH TRANSFER



16.03.2018:
Season kick-off 2018



Lorient

FIZ / Munich



Technical coordination
BMW i and Malizia

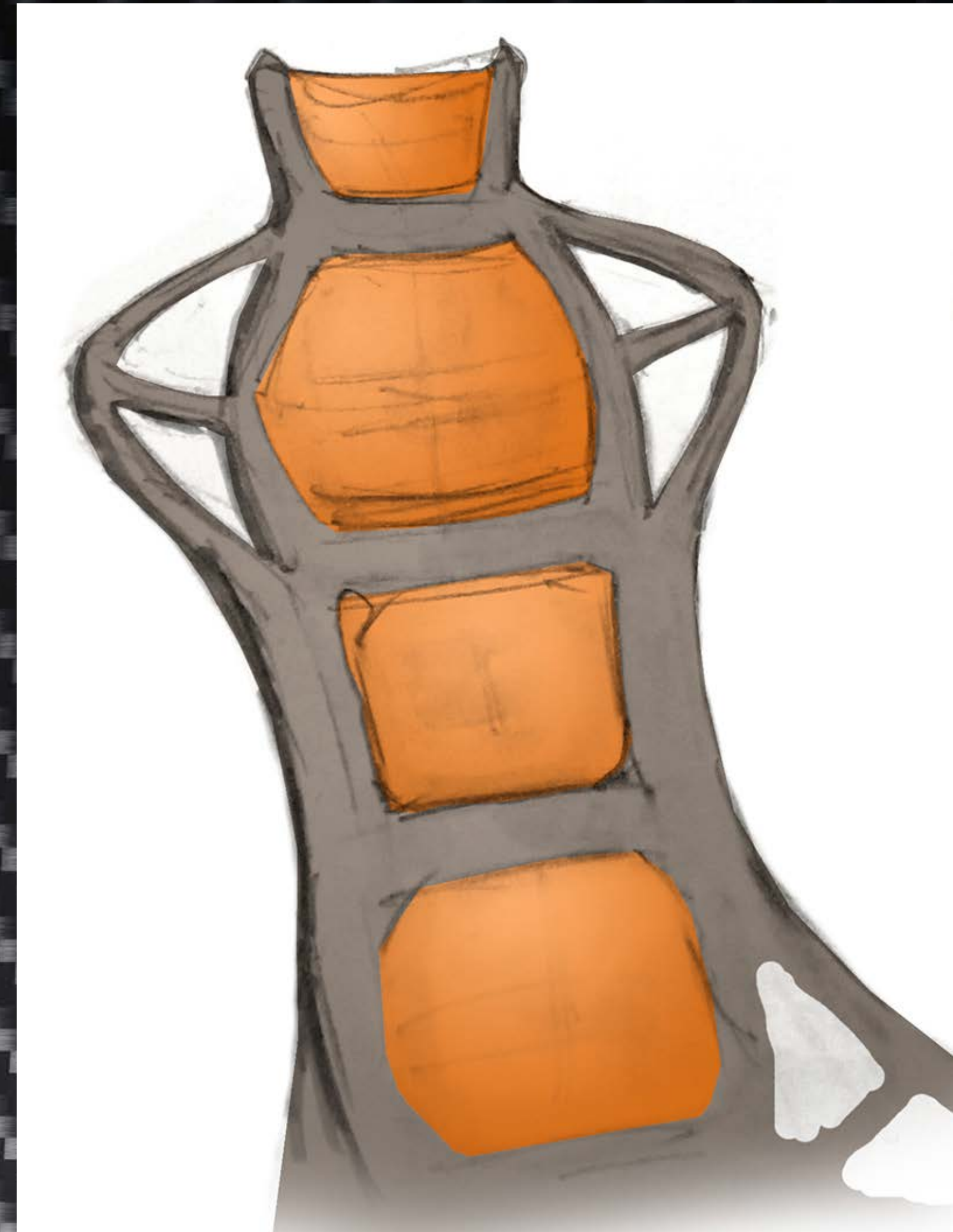
Monaco / Home port



15.04.2018: Mallorca

LOOK INTO THE FUTURE

Next generation navigators seat: Increased weight reduction out of a bionic optimisation.



BMW i AND TORQEEDO COOPERATION

- » Leading-edge lithium batteries by BMW i fully integrated into Torqeedo motor systems.
- » Making the best of automotive technology available for boating.

torqeedo

DEEP BLUE
Lithium-Ion High Voltage Battery
Engineered and manufactured by BMW



» LEADING EDGE BATTERY TECHNOLOGY.

Torqueedo



POWER 48-5000

Taking lithium batteries for boats to a new level.

- » Build with BMW i3 battery module technology.
- » Record level energy density: 145 Wh/kg on battery level - 68 % better than typical LiFePo4 batteries.
- » Record level cycle life: 80 % capacity remaining after 3000 cycles.
- » Superior safety based on Torqueedo's 5-step safety system.
- » Specifications:
 - » Useable energy: 5,000 Wh.
 - » Nominal capacity 5,275 Wh.
 - » Waterproof IP67.
 - » Weight: 36.5 kg.



»» LEADING EDGE MOTOR TECHNOLOGY.

torqeedo

CRUISE 10 i / 20 i

Lightweight high efficiency electric motor.

- »» Field-oriented control, electronically commutated brushless motor, rare-earth magnets.
- »» Peak efficiency (motor and motor electronics combined) 92 %.
- »» Motor RPM: 7000.
- »» Propeller RPM: 1400.
- »» Gear: 5:1 with 98 % efficiency.



» FULLY INTEGRATED SYSTEM.

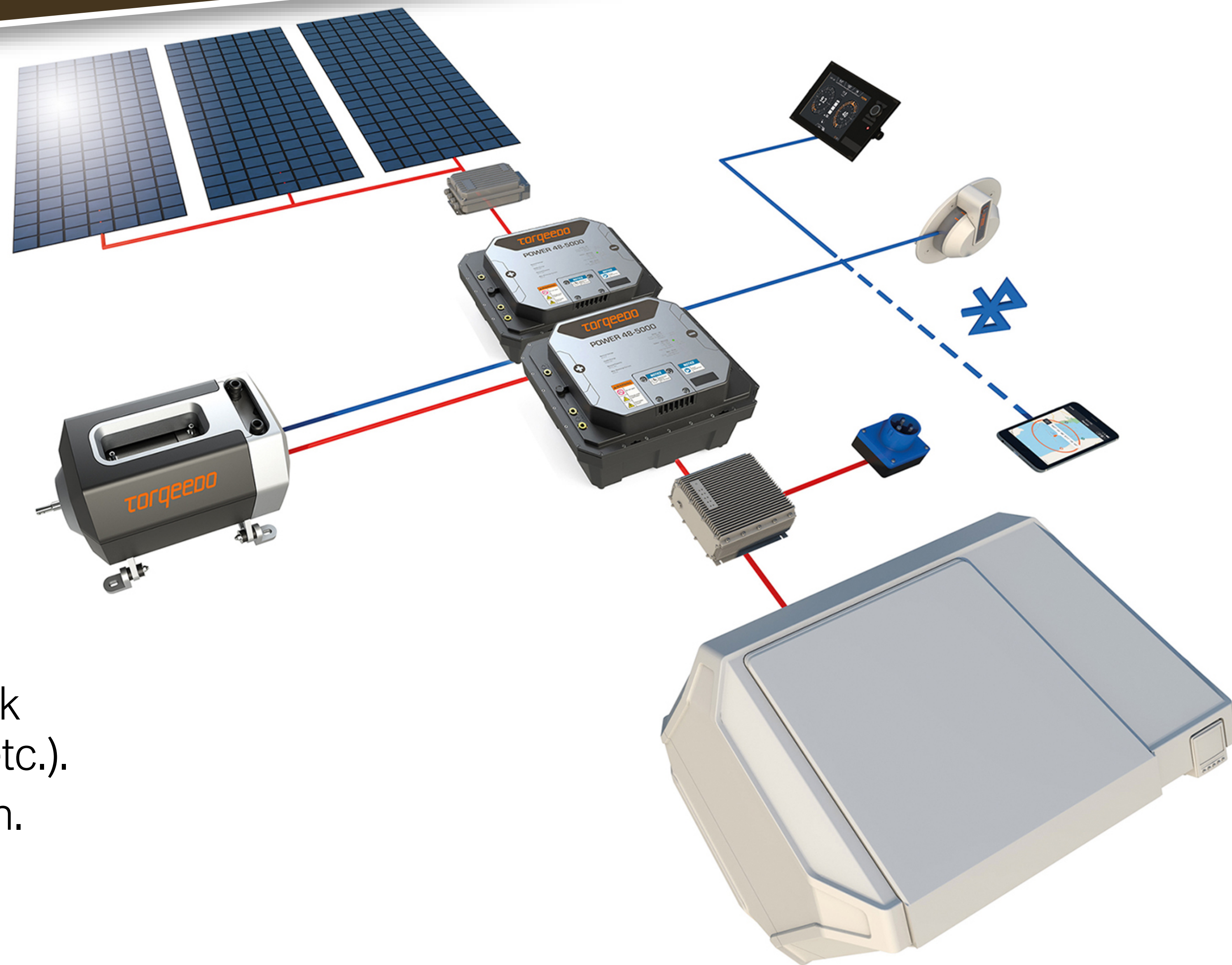
torqeedo

» Components:

- » Batteries.
- » Motor.
- » Throttle with on-/off- and kill-switch.
- » Onboard computer.
- » DC-to-DC converter (24 V system).

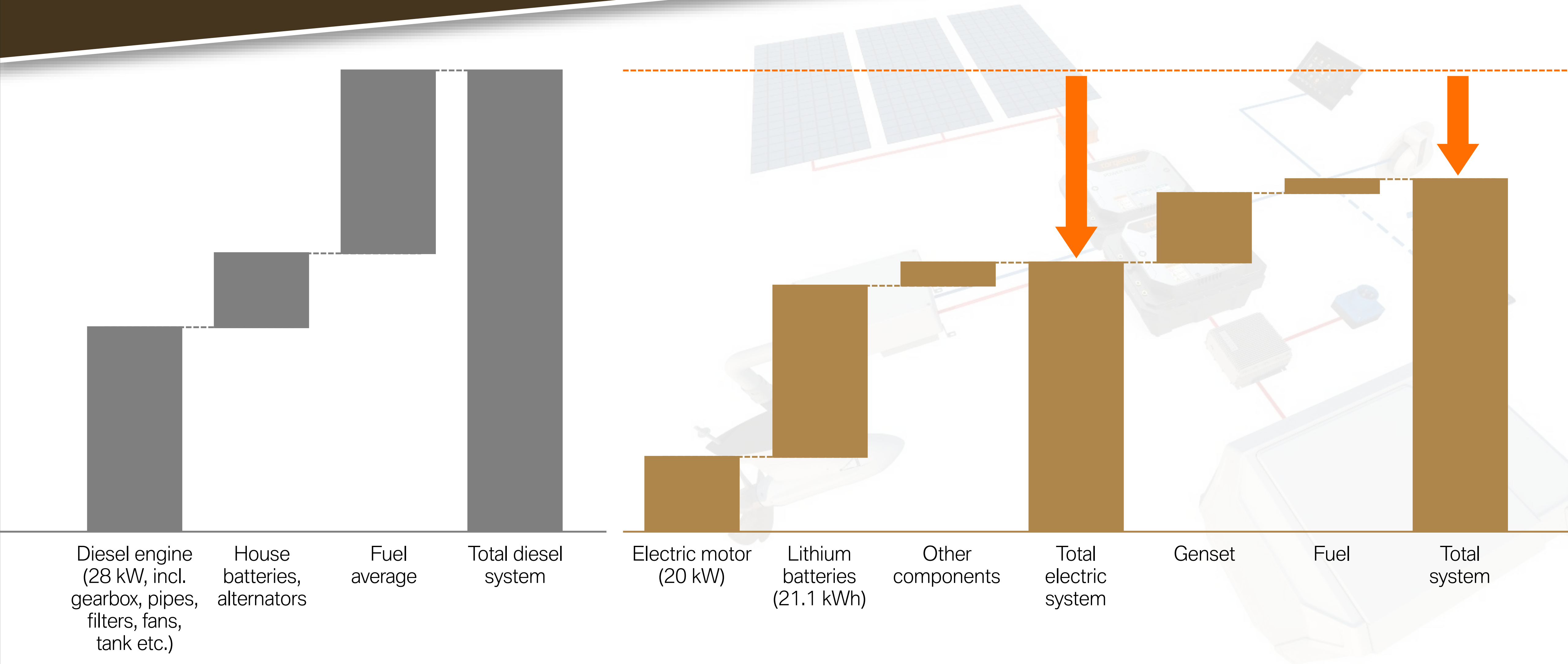
» Functionalities provided:

- » Propulsion.
- » Energy management for 24 V network (autopilot, canting keel, watermaker etc.).
- » Power generation via hydrogenation.
- » Integration of solar.



» THE LIGHTEST DRIVETRAINS ARE ELECTRIC.

torqeedo





BMW i AND TEAM MALIZIA COOPERATION

ZERO EMISSIONS

DURING VENDÉE GLOBE - DIESEL SYSTEM STAYS PLUMBED

