

INDUSTRIAL DESIGN

Portfolio

FLEUR JANSEN

HI! I'M FLEUR JANSEN



WHO AM I? AS A DESIGNER

My name is Fleur Jansen, and I'm an Industrial Designer with a passion for **healthcare** and **sustainability**. I want my designs to inspire change by sharing the **love, compassion**, and **kindness** that my family and friends keep showing me.

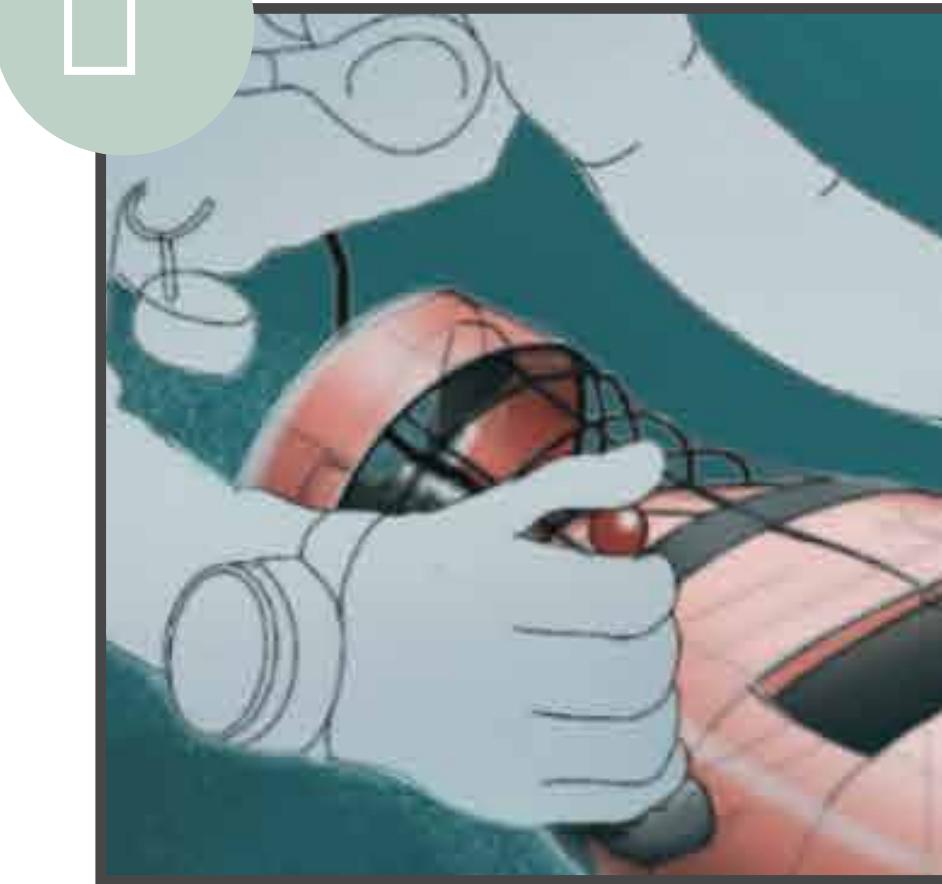
I see design as a tool to create **meaningful products** that **improve the quality of life** of the **individual** but also on a **global** scale.

I want to improve the health of the individual and contribute to the health of our world.

To reach this goal, I see myself working for design companies that value this as much as I do. When there is room to improve on this, I want to be the one who **inspires** the company to uphold these values. Because I believe that by working together, **we can make a change** in this world.

content

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HYDRO HELPERS

INDIVIDUAL PROJECT
3 MONTHS

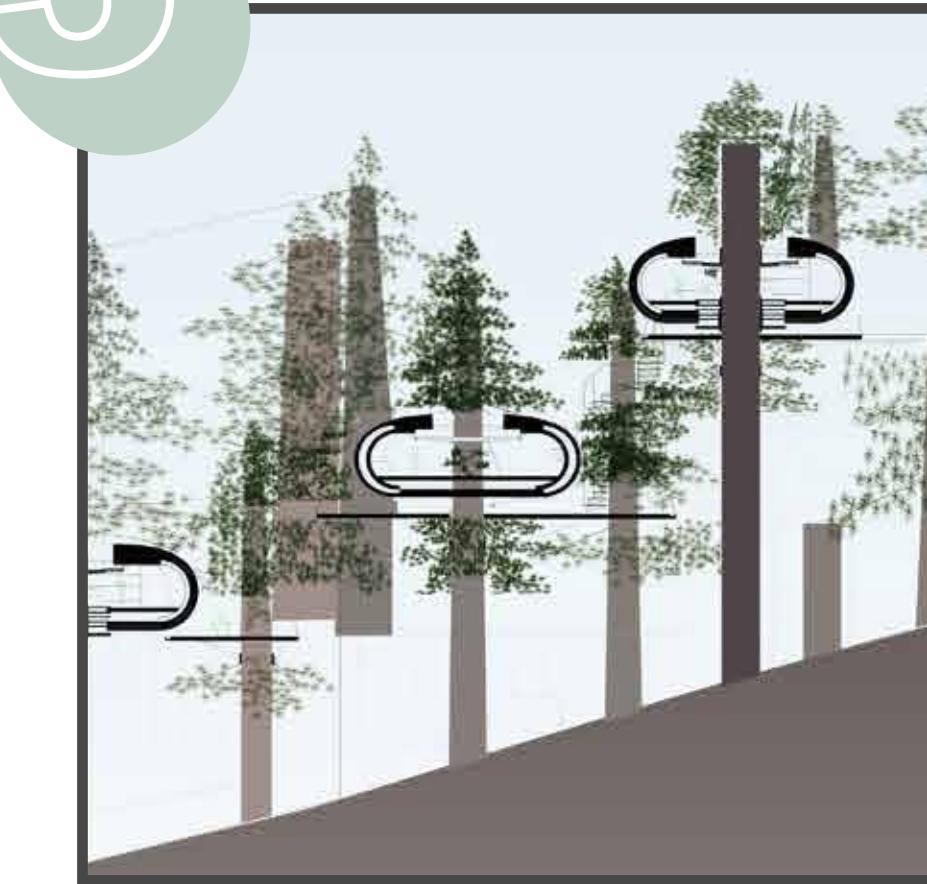
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WRAP DESIGN

INDIVIDUAL PROJECT
1 MONTH

3



VILLAGE IN THE TREES

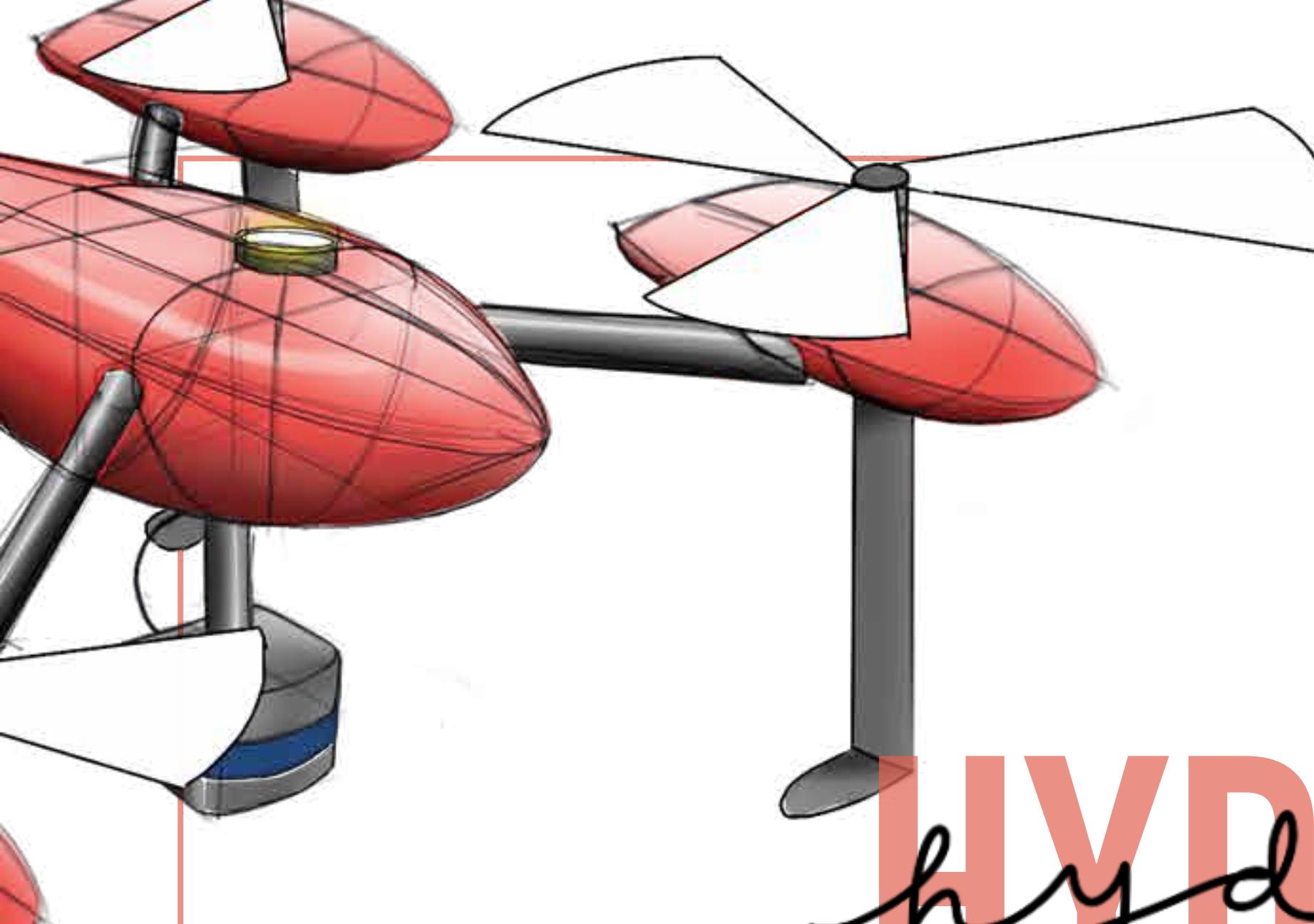
TEAM PROJECT
6 MONTHS

4

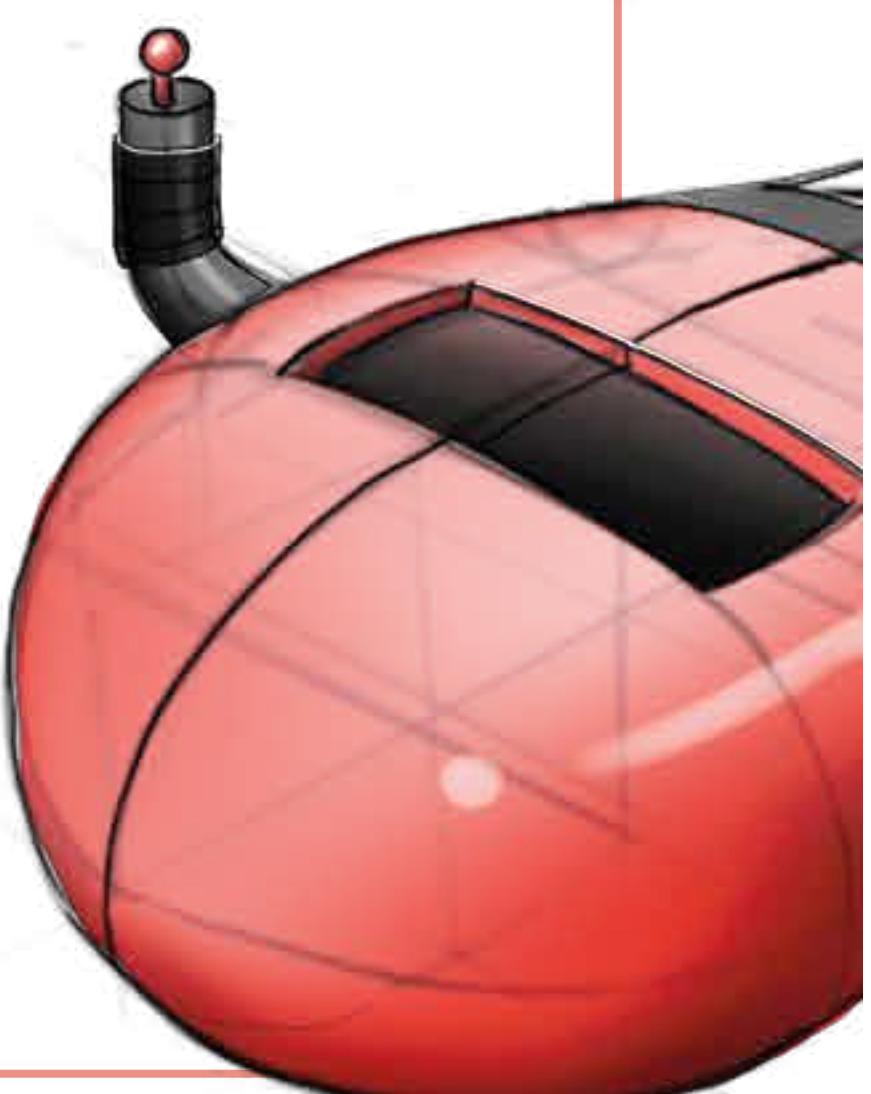


SLAAPLEKKER

TEAM PROJECT
3 MONTHS



HYDRO *HELPERS*



INCREASES CHANCE OF SURVIVAL OF DROWNING VICTIMS

3 months, individual project



DROWNING INCIDENTS

Each year around 230 people are admitted to the hospital after drowning, killing more than 25 people a year. Children make up more than half of the victims. By attempting to find them, firefighters jeopardize their own lives. The only way for them to locate a victim underwater is by touch because everything is completely dark. Divers are also at risk of becoming trapped amid the debris. When 112 is called, the clock starts ticking because the victim's chances of survival go worse the longer they remain underwater.

Stroboscope

For visibility in the dark

Floaters

To float on the water

Speaker

To inform bystanders

Propeller

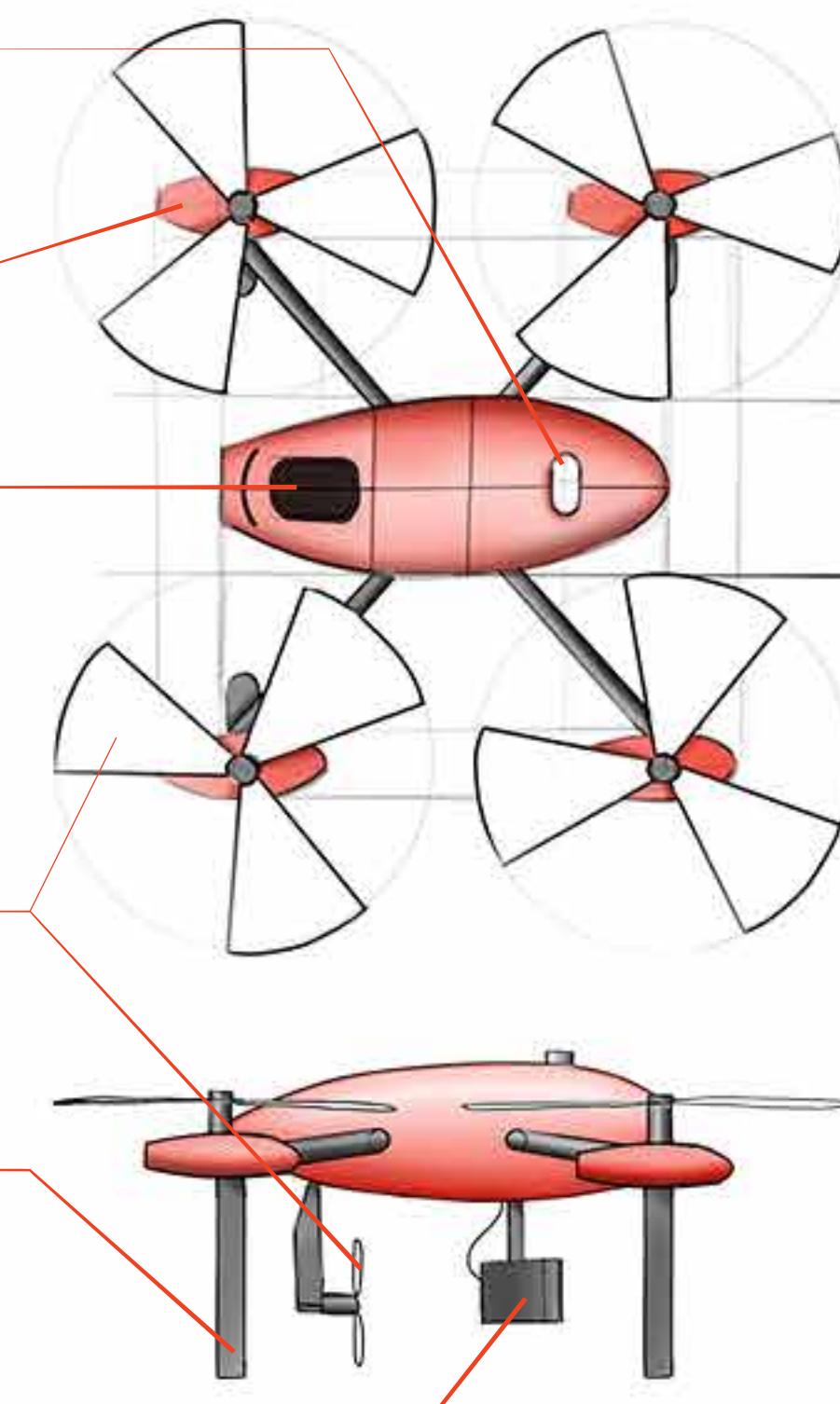
Propulsion through the water

Hydrofoils

Less resistance in the water

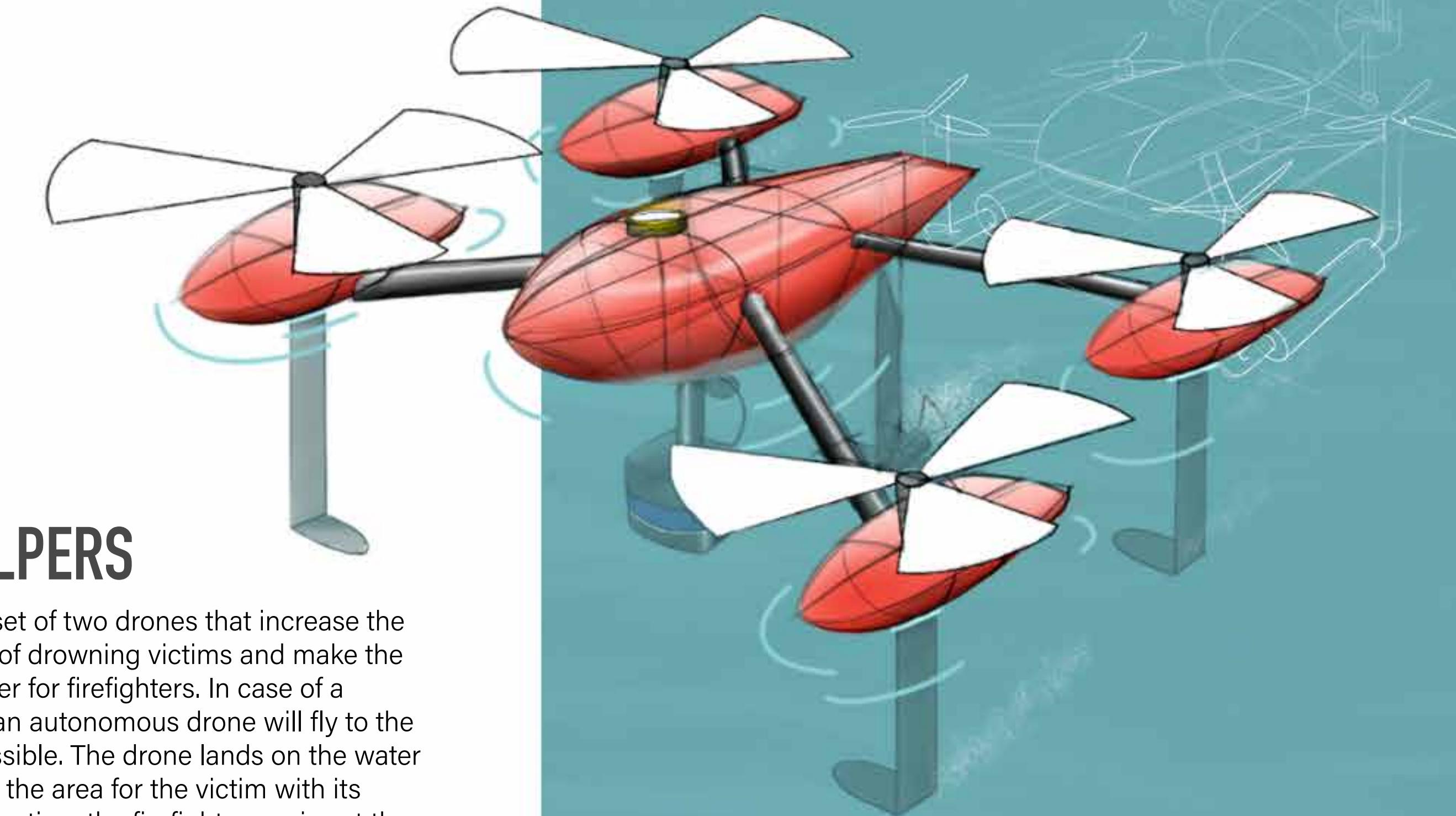
Imaging sonar

Locates drowning victim



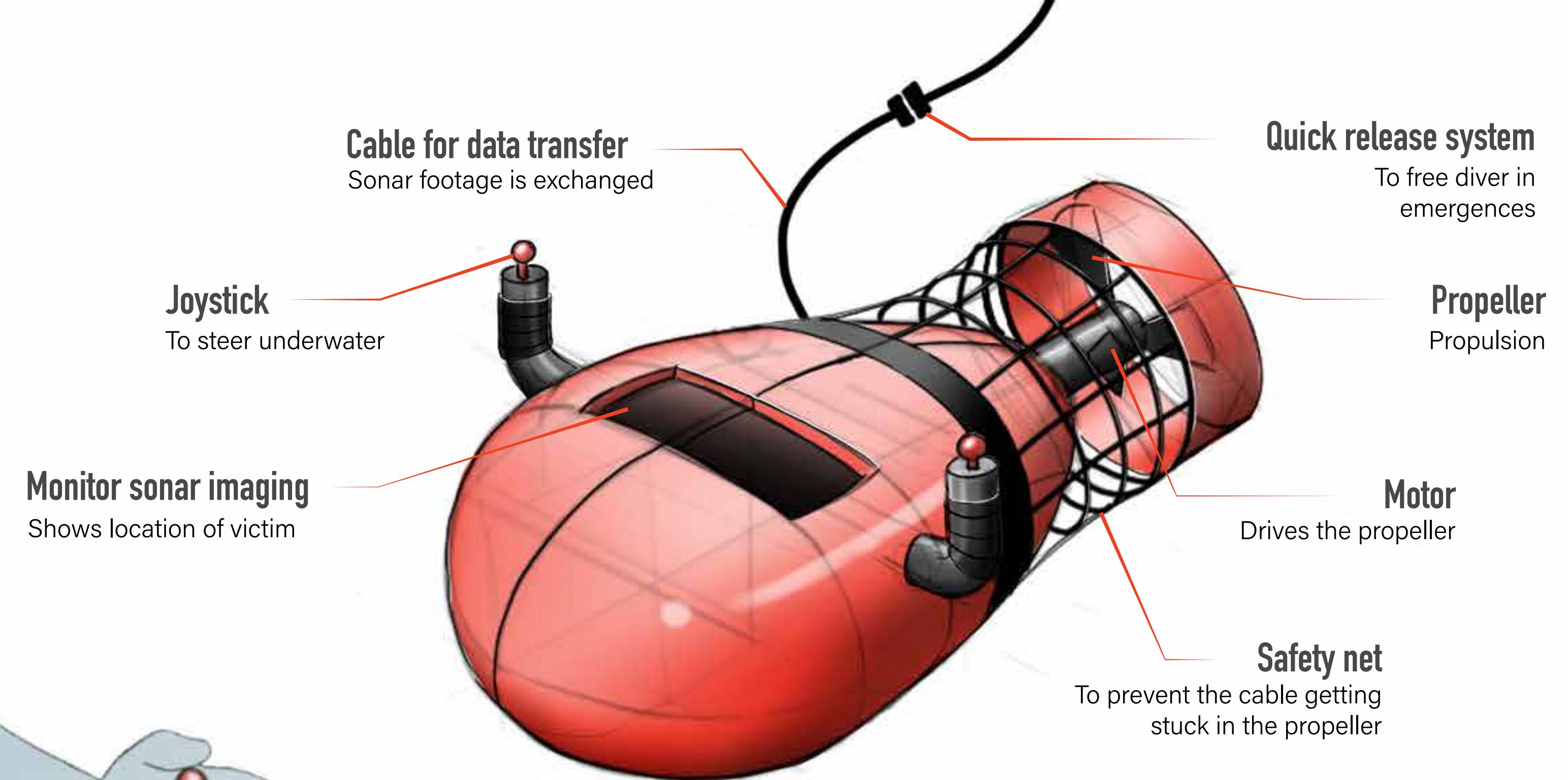
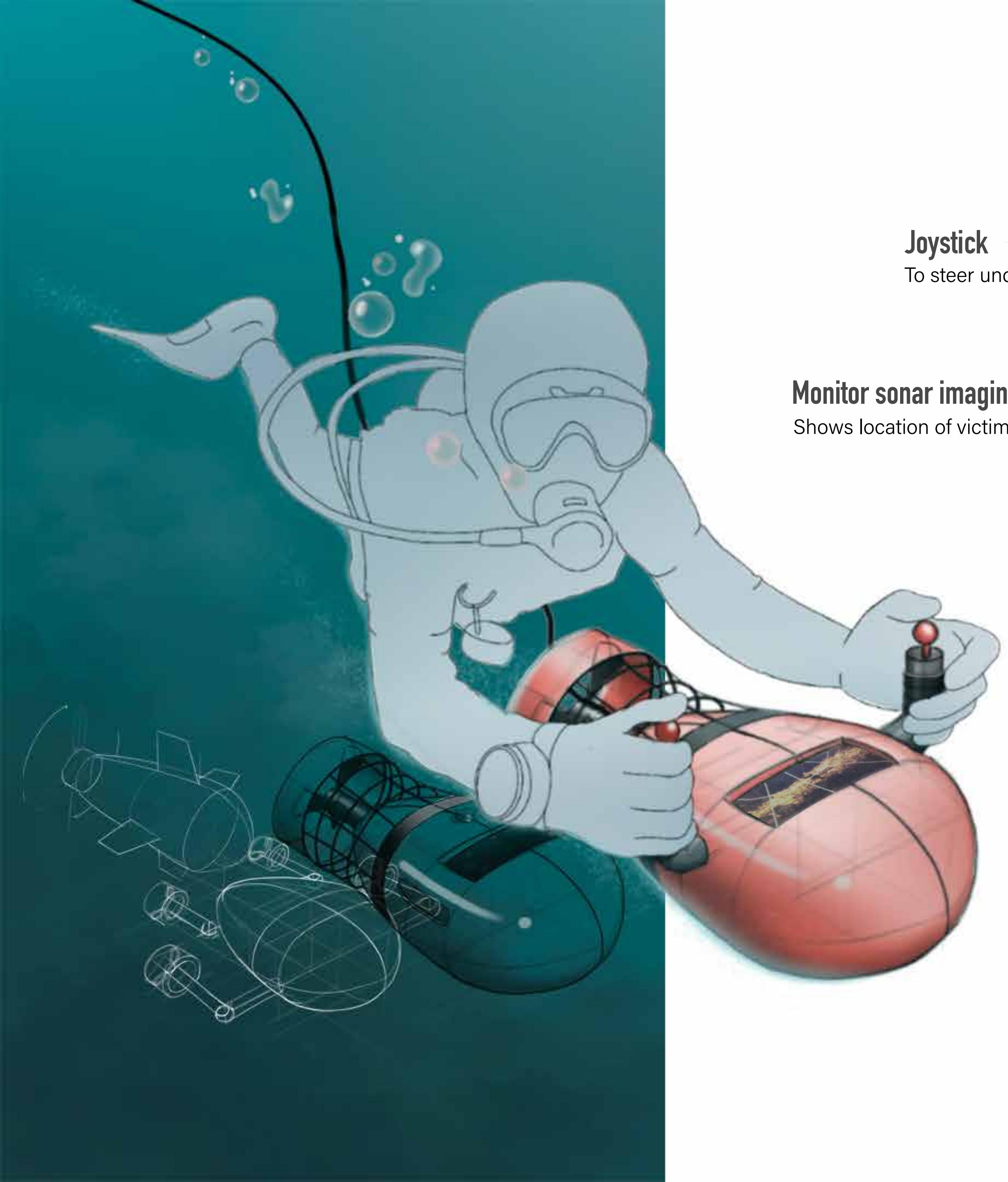
HYDRO HELPERS

Hydro Helpers is a set of two drones that increase the chances of survival of drowning victims and make the diving operation safer for firefighters. In case of a drowning incident, an autonomous drone will fly to the scene as fast as possible. The drone lands on the water and starts scanning the area for the victim with its imaging sonar. By the time the firefighters arrive at the scene, the drone has identified the location of the victim. This way, victims and firefighters spend less time in the water and increases the chances of survival of both.



SONAR IMAGING

Since the victim's body temperature has dropped as low as the water temperature, the victim cannot be located with a temperature sensor. An imaging sonar is attached beneath the drone. Once the drone lands on the water, the sonar sends out sound waves to visualize the objects beneath the surface. From this, the victim can be located.



UNDERWATER DRONE

The underwater drone is brought to the scene with the firefighters. The diver swims most of the distance above the water surface, following the aerial drone which floats near the location of the victim. The underwater drone saves energy by dragging him across the water's surface. When the diver is close to the victim, he dives underwater. When the diver is above the victim, they can see themselves appearing on their screen which shows the sonar images. He now knows he must descend until he reaches and saves the victim.

WHAT THEY THINK



"With this product, our risks are greatly reduced, and the efficiency of deployment will be greatly increased. We can indicate where the crucial points are in the water; the locations we could get stuck to and areas that are not important to explore. We can start the rescue operation immediately instead of having to start the search for the victim."

- Marvin van Rees, diver at fire station Schiedam



"With this product, we can give the divers more support and we can save the victim way quicker than we can now. Next to that, it increases the safety of the diver, and we have a quicker overview of what is going on since the drone arrived earlier at the scene than the diving team."

- Robbert Heinecke, head of Digital Exploration Team



wrap design WRAP DESIGN

DESIGNED FOR A HYDROGEN-POWERED BOAT

1 month, individual project



WRAP DESIGN

FOR THE TU DELFT HYDRO MOTION TEAM

I participated in one of the TU Delft Dreamteam after finishing my bachelor Industrial Design Engineering. In just one year, with a multidisciplinary team of 25 students, we designed, built, and raced a hydrogen-powered boat. After a thrilling race in Monaco, our boat won the endurance challenge and proved the potential of hydrogen, earning second place in the world championships.

My role in the exposure department was to deliver our team's message to the world. We aimed to inspire people to participate in the energy transition by demonstrating the possibilities that hydrogen possesses.

TIMELINE

My main contributions throughout the year



Rebranding



Design Presentation



Wrap design



Boat reveal



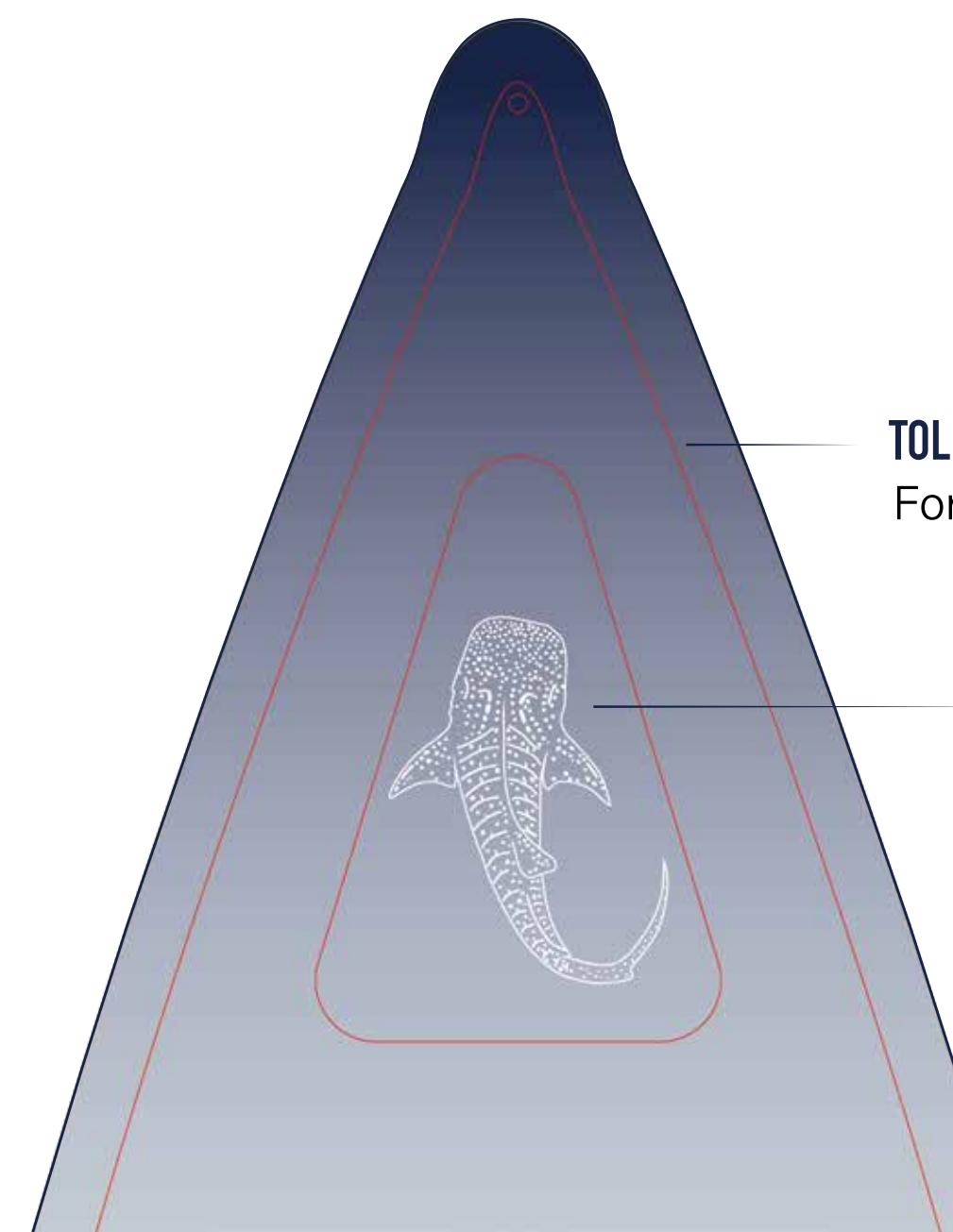
Race in Monaco



WRAP DESIGN FOR THE TU DELFT HYDRO MOTION TEAM

In one month, I designed the wrap of our boat. Through multiple feedback sessions with the team and iterations of the design, I came up with the final design. The wrap of the boat includes all the partners that assisted the team in realizing the boat, the spirit animal, and the Hydro Motion Team logo.

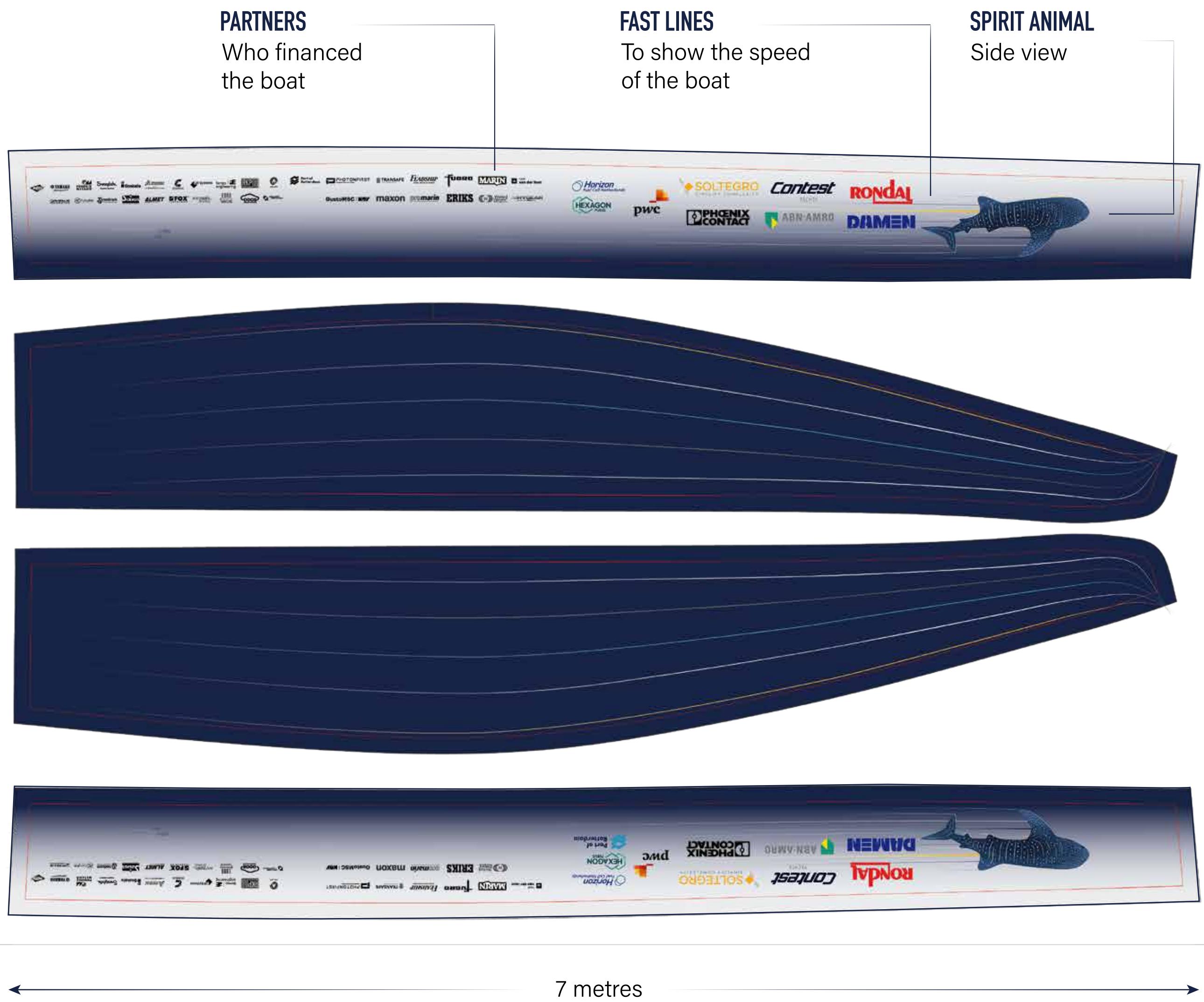
When the illustrator file was completed, the design was sent to a printing company to be printed on large stickers. Together with the wrapping company RKP18, we put the stickers onto the boat. This marked the end of our production phase.



SPIRIT ANIMAL
Top view



TOLERANCE
For printing



PARTNERS

Who financed
the boat

FAST LINES

To show the speed
of the boat

SPIRIT ANIMAL

Side view

7 metres

