



Pixel sur Mer

Media Kit

Technological
innovation for
performance and
safety



PIXEL SUR MER

We design smart electronic systems for the greatest ocean races sailboats, yachting boats, maritime industry and the aeronautics research and development

€2.5M Turnover | 25 employees | 50% of international turnover

| 15 years of experience



Why we do what we do ?

We believe that access to data and its management are the keys to performance and safety in navigation. We believe that these data should be used to create intelligent systems that reinvent the way we navigate.

How we do it

We have developed our own structure health monitoring system with a fiber-optic technology, selected the best existing complementary technologies, and developed a cutting-edge solution for data acquisition, visualization, and transmission. But we've gone even further.

We have used all this data to create intelligent and automated solutions. We have invented high-performance piloting solutions for ships, whether foiling or not, sailing or motoring. Today, these solutions are able to make ships fly, avoid collisions and capsizes, but also make the most demanding sailors win.. All thanks to data from our systems.

Last but not least, to provide a complete solution and bring the final touch to the challenges we face, we have been offering a true expertise in the installation and integration of electronic systems for 15 years. Our team works all over the world to the same high standards of quality and reactivity that have become our signature: "the Pixel touch".

What we do

We design, supply and install complete on-board electronics systems at the cutting edge of technology



Challenging the limits, inventing the technologies of tomorrow

Offshore racing, a development laboratory

While ocean racing has been our development laboratory, Pixel sur Mer has now widened its scope. Indeed, maritime history shows that technologies applied to racing boats are often adapted for other uses: yachting, passenger transport, freight, military, energy, air or even automobile.

Applications in a wide range of sectors

Today, our innovations have a wider scope than sailing competitions, extending to the economy: from transport to renewable energies. We are opening up the field of possibilities and making sure that our innovations contribute to the emergence of intelligent, autonomous and sustainable maritime vehicles.

A recognized spirit of innovation

We are strongly investing in R&D to develop the technologies of tomorrow. In fact, we are regularly nominated in international innovation competitions. Pixel's teams are also fully involved in innovative international projects alongside institutional and private partners.

Jean-François CUZON



July 1999: Jeff is crowned world champion in the 470 class in Melbourne, Australia, while still studying

As soon as he finished his studies in 2001, Jean-François joined Michel Desjoyeaux's Mer Agitée team

In 2005, he joined the French Areva Challenge in Valencia for the 32nd America's Cup.

He was also named navigator for the first races of the Louis Vuitton Cup.

These two years in the America's Cup were crucial: Jean-François had to combine high-level sailing with cutting-edge engineering.

In 2008, he created 'Pixel sur Mer', a boat design company



A unique accumulation of experience

Experiencing strong growth for the past 15 years, Pixel sur Mer has developed a wide range of internationally recognized electronic products and solutions, supported by a team of 25 people

From 2008 to...

Creation of Pixel
sur Mer, by
Jean-François
CUZON

2008

2012

Pixel sur Mer, a
pioneer in the
development of
a technology
using fibre optics
to monitor
structures

2016

Creation of the
EXOCET product
range to complete
our expertise in
embedded systems
integration

Pixel sur Mer
starts flying
sailing boats

2017

Market
diversification
strategy: maritime
industry,
aeronautics, MRE,
etc.

2020

Pixel sur Mer makes any
type of sailing or motor
boat fly, thanks to a
technology that can be
produced in series and
industrialised. Its flight
controller won a special
mention from the jury
at the DAME Design
Award, a worldwide
maritime innovation
competition.

2021

Pixel sur Mer enters a
new phase of
development with a
comprehensive range
of performance and
safety products and
services

2022

... today

Our expertise



INTEGRATION

Our vocation is to offer a complete and reliable service for a sports or technological project by proposing a wide range of equipment.

We install all the electronic systems on board: navigation system, autopilot, sensors, on-board communication, energy production, computers, etc.



OPTIC FIBER

This cutting-edge technology allows us to reliably and accurately identify the deformation levels of composite parts.

We provide valuable data for boat design and development as well as for real-time monitoring and performance of structures.

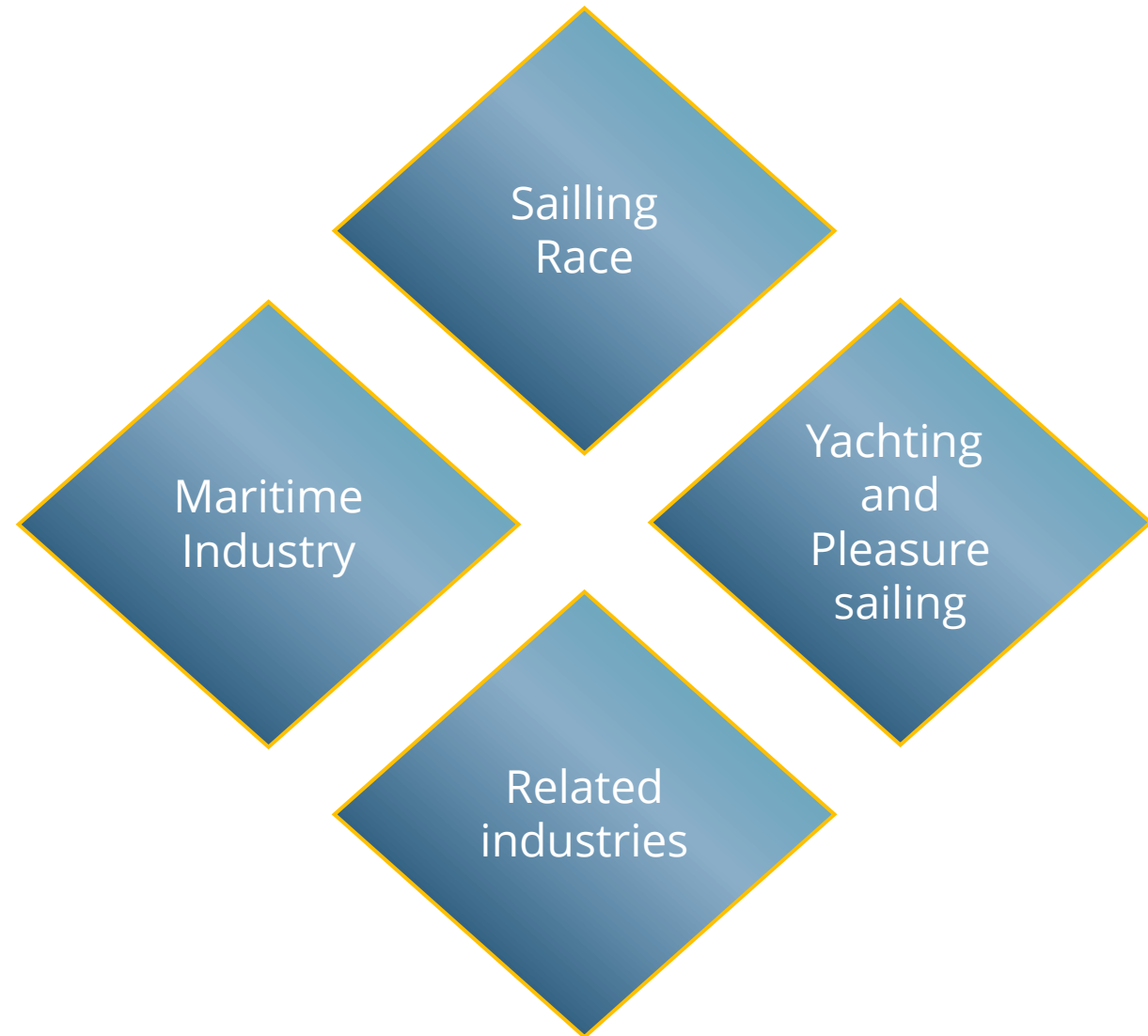


RESEARCH & DEVELOPMENT

Our engineers develop some of the most powerful electronic systems: high frequency data acquisition and supervision, advanced calculations for navigation, automatic piloting, control of ships in flight, etc.

Our goal is to offer solutions and systems tailored to our customers' needs.

Our markets



Although yacht racing has been our development laboratory, today our innovations have a wider scope, from maritime transport to aeronautics and yachting



Data management



Smart navigation system



Solution for safety at sea

Our solutions

Pixel sur Mer at the heart of networks



Pixel sur Mer and its ecosystem

Being at the heart of our ecosystem is a priority for our development.

We regularly take part in institutions and clusters in Brittany.

We have been selected to take part in the development program launched by BPI Region, dedicated to high-growth innovative companies called "Booster Bretagne."

In 2023, Pixel sur Mer was elected to the management board of Pole Mer Bretagne Atlantique, alongside major companies and institutional partners.

We are leading two consortium projects for structure health monitoring and collision prevention at sea.

We are actively involved in the sustainable development project eco sailing design, collaborating with key companies in the marine industry.

Our commitments for sustainable growth



Limitation of energy consumption

Making our technologies accessible to the greatest possible number of people in order to contribute to sustainable progress

Make navigation safer by using technologies that prevent shipwrecks and maritime pollution

Safety of goods and people

To contribute to the development of autonomous, sustainable maritime vehicles: making boats fly and thus contributing to the reduction of their fuel consumption

Search for solutions to optimise our processes, make reasoned choices about our purchasing channels, and study recyclability solutions for our waste

Environmental approach to impact measurement and lifecycle analysis

Internal awareness raising and encouragement for sustainable actions: promoting sustainable mobility, waste sorting, and more

Active member of Eco Sailing Design: a commitment to analysing the life cycle of our products and activities

Our EXOCET Line



EXOCET Blue

Data Manager

EXOCET BLUE is a system for collecting, processing, recording, visualising and monitoring on-board data. Much more than a recorder, it's a universal data management system.



EXOCET Silver

Navigation System

EXOCET SILVER is a navigation system designed to optimise safety and autopilot performance: sensor management, true wind calculation, custom settings according to sailing conditions...



EXOCET Cloud

Remote Monitoring

Cloud connectivity is included in our Exocet range. Subscription to this service is an option. The EXOCET Cloud is a customizable web application for remote viewing of data from your Exocet units, live or recorded.

Our EXOCET Line



In 2021, EXOCET Gold won the DAME Design Award, the world competition for maritime innovation.

EXOCET Gold

Flight Controller

EXOCET Gold is designed to control boats in flight. The system takes into account sailing conditions, constantly monitors the movements of the appendages to control the heel, angle and altitude of the yacht.



EXOCET Essential

All in One technology

EXOCET technology accessible to all. This box brings together all the core functions for navigation, data management and autopilot. It comes with an intuitive web interface.

Our key development projects



**FLIGHT CONTROL
TECHNOLOGIES FOR
THE SHIPS OF
TOMORROW**



**STRUCTURE HEALTH
MONITORING AND
DATA MANAGEMENT**



**A GLOBAL
SOLUTION FOR
SAFETY AT SEA**

Customer Quotes



**Aurélien
Ducroz**

Class40 Crosscall Skipper

"We were the first class40 to place its trust in Pixel sur Mer. Over and above the performance of the products and the quality of the installation, which after two years has not had a single bug, it's the human relationships and the availability of the teams that make the collaboration extremely pleasant and effective."



**Ronan
Lucas**

Team manager of Banque populaire

"Pixel sur Mer and Team Banque Populaire are two companies that have grown together with increasingly ambitious projects, from the ORMA era to the latest flying Ultime and our Imocas. We have always found the right technical solutions to our ever-growing challenges, from steering the Ultim BPXI to collecting information from the 100 sensors on board. It's extremely comfortable to have such a skilled and efficient company so close to our premises."



**Irina
Gracheva**

Performance Manager of Szabi Ocean Racing Team

"As a small Imoca team, we are delighted to have been welcomed at Pixel sur Mer and provided a professional service based on the company's many years of experience."

"We have always been treated with attention."



**Clément
Duraffourg**

Design office engineer for team Banque Populaire

"We chose Pixel sur Mer for the reliability and performance of Exocet products, as well as their specific skills in fibre optics."

"The R&D team provides us with high-quality, responsive and personalised support."

"A service provider and supplier in whom we have great confidence."

They said it in the medias



Frank Cammas

About the autopilot solution supplied by Pixel sur Mer for the Gitana Team ultim

"Working on a pilot means translating what the helmsman does intellectually when he's steering on autopilot. We managed to do that very quickly. In just a few meetings with Pixel sur Mer, they came up with something and I think we gained just as much as changing foils. In other words, it's not the same price. We realised in the final training sessions this year against some of the competitors that when everyone's at the helm, the boats are pretty close. But we've done some tests, and when we both put the pilot on, one of them starts to lose 2-3 knots in relation to the other. It's not a small knot (...)"

Extract from the Tips&Shaft podcast
Into The Wind from 13 January 2023



Jérémie Beyou

About the Pixel sur Mer steering solution supplied for the IMOCA Charal

"We've done a lot of work on the autopilot to ensure that the boat keeps a speed as regular as possible. We have a classic autopilot and an intelligent autopilot, developed by Pixel sur Mer.

You enter all the data you want, and you can add extra features, like steering at a certain degree of heel for example.

Today, we no longer touch the helm because the pilot does it twice as well as we do.

Le Journal du nautisme October 2019



Charles Caudrelier

About the Pixel sur Mer steering solution supplied for the Gitana Team's ULTIM

*«What made the difference for you?
F. C. : We've made a lot of progress with the autopilot. At the start of the year we were wondering how we were going to go fast on autopilot.*

C.C.: We had planned to steer for hours and hours and in the end we hardly ever steered at all.

F. C.: This evolution has enabled us to achieve huge average speeds. At the start of the year, even a helmsman couldn't go as fast as the pilot did at night. That was the pleasant surprise of the first three days (smiles). We added some buttons before we set off, it was a great success and I think we won the race a little on that (laughs)."

Ouest France 4 December 2019

Partner to the success of our customers



Ultim

We are working with 7 of the 8 boats in the Ultims fleet

- Gitana
- Banque Populaire
 - SVR
- Actual
- Idec
- Sodebo
- Spindrift



Gitana, 1st of Route du Rhum 2022



SVR, 2nd of Route du Rhum 2022



Actual, 5th of la Route du Rhum 2022

Imoca

These Vendée Globe sailors have put their trust in us

- Charal
- Arkea Paprec
 - LinkedOut
 - Malizia
- ElevenHour
- V and B Monbana Mayenne
 - Teamwork
 - Medallia
- Corum l'épargne
- Frotnet Best Western
 - Groupe Apicil
 - Hublot
- L'occitane en Provence
 - Szabi Ocean Racing
- Monnoyeur – Duo for a job



LinkedOut, 1st of la Route du Rhum 2022



Charal, 3rd of la Route du Rhum 2022

Class40

These sailors have chosen our Exocet Essential solution for their range of boats

- Sailing into the future together from Alberto Bona
- Everial with Erwan Le Draoulec
- SeaHorse Magazine from Joe Lacey
- Crosscall from Aurélien Ducroz
 - Nicolas d'Estay
- To come: Legallais Team Voile with Fabien Delahaye



Alberto Bona, winner of the Carribean 600 2023

Others

We equip many performance boats, from 34 to over 100 feet. Some great victories as the 2023 season gets underway

- Ando Commanche
 - Tango, wally
 - Mariquita
 - Moonbeam IV
 - Skorpis
- The entire TF35 fleet with our Exocet Gold



Rupert Henry sur la Sydney Hobart 2022, équipé de notre Exocet Essential



Ando Comanche sur la Sydney Hobart 2022

They choose us



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