



# BRETAGNE



## A STRATEGIC LOCATION

In the heart of Offshore Wind  
& Marine Energies Market

BRETAGNE  
OCEAN POWER

/ Supported by

UNION EUROPÉENNE  
UNANIEZH EUROPA



L'Europe s'engage  
en Bretagne

Avec le Fonds européen  
de développement régional

140 COMPANIES

# to find your right partner

Thanks to its strong ocean waves, currents, and winds, Bretagne is a region with a high potential for harnessing marine renewable energy. It also enjoys a strong skills base in the maritime industry, which is crucial for growing this emergent sector along with the new technology required.

Bretagne Region is committing to floating wind turbines, backing industrial projects and identifying areas that are commercially attractive. In 2020, the 1st call for tenders for

an area of up to 750 MW for Floating Wind Turbine will be launched.

Proof of these good conditions is the multitude of projects in development, testing or pilot phase around the Breton coast.

**Find the right partner for business:**  
140 companies and 56 research labs are referenced by skills in our online directory.



[www.bretagneoceanpower.fr/directory](http://www.bretagneoceanpower.fr/directory)

3 TESTS SITES

# to prove your concept

**Open sea test sites are open to your projects,** whether they are in the development or pre-commercialization phase. Specialists accompany you from the commissioning to the connection to the network and up to the tests. They host all kinds of marine energies and offshore wind technologies (tidal

turbines, floating wind turbines, etc.).

If you need to perfect your technologies, you can count on the expertise of 140 companies and research centres dedicated to offshore wind and marine energy technologies in Brittany.

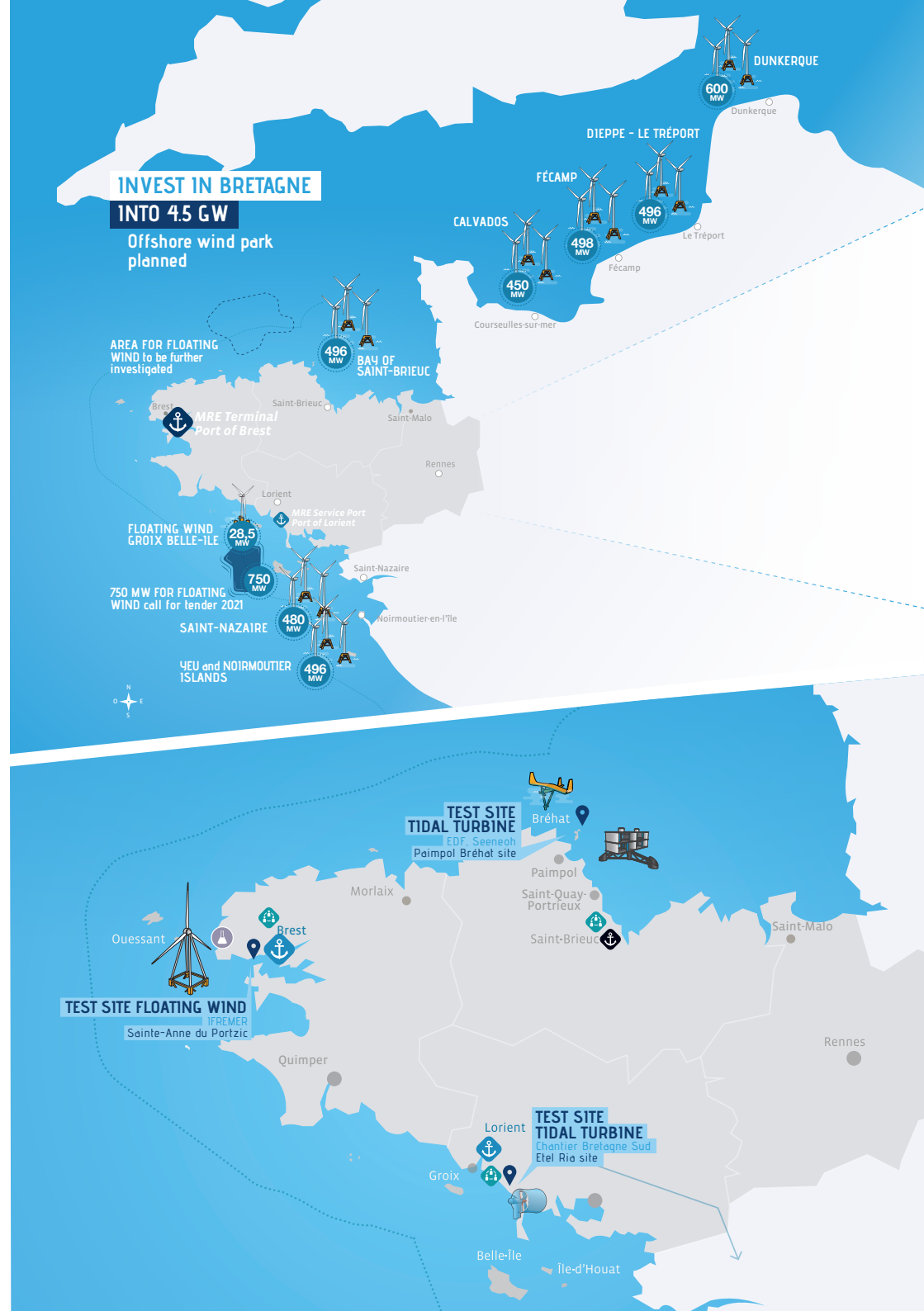
On Paimpol-Brehat test site, European Tiger Project is dedicated to demonstrate that tidal stream energy is a maturing industry, capable of achieving an accelerated cost reduction pathway.

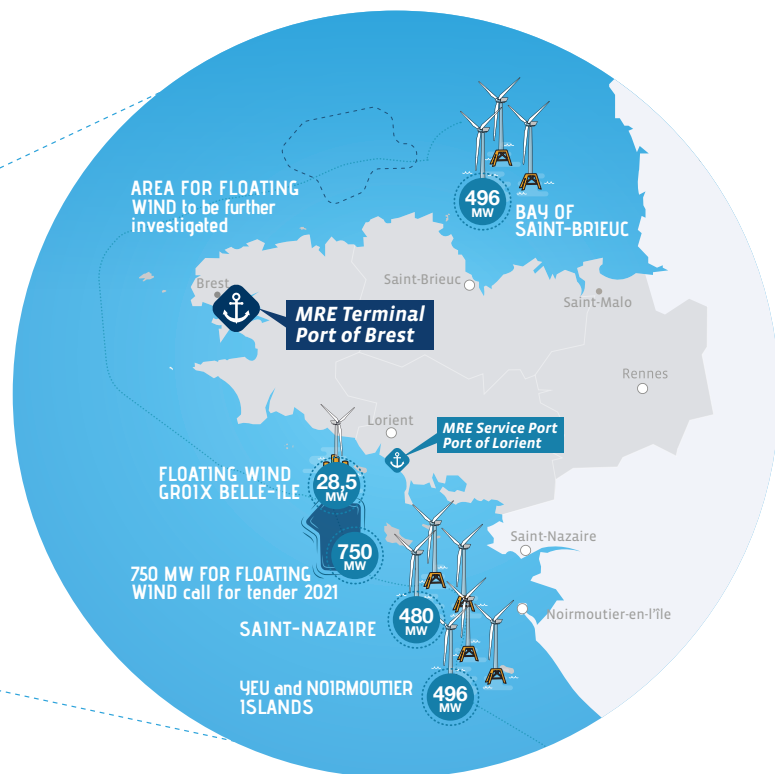
**TIGER**

TIDAL STREAM  
INDUSTRY  
ENERGISER



**Interreg**  
France (Channel) England





## DEDICATED PORT INFRASTRUCTURE specialized for more efficiency

### PORT OF BREST

A new terminal catering to large MRE projects :

- 40** ha OF INDUSTRIAL LOTS CONNECTED TO SEA AND TRANSPORT NETWORKS
- 400** LM OF DOCK WITH A HANDLING BERTH OF 100 m WIDTH
- FREIGHT PORT AND LOGISTIC HUB FOR EUROPEAN SEAWAYS
- CRANE CC TEREX 8800 AT 5 M FROM DOCKSIDE
- 8** m ACCESS CHANNEL DEPTH: 8 m BELOW CD

### PORT OF LORIENT

A logistic hub for step of installation :

- 12** m BERTH ACCESS: 12 m BELOW CD IN DEPTH
- 10** t/m<sup>2</sup> FOR HEAVY LOADS (EQUIVALENT UNIFORMLY DISTRIBUTED LOAD)
- LOCATED IN A PROTECTED ROADSTEAD WITH EASY ACCESS
- 1<sup>st</sup>** FRENCH PORT FOR SHIP REPAIR AND BUILDING (3 DRY DOCKS)
- 2.5** ha DEDICATED TO MRE ACTIVITIES
- 650** t BOAT ELEVATOR
- 8** t/m<sup>2</sup> FOR HEAVY LOADS
- 14 001** ISO CERTIFICATION

## OFF-GRID SOLUTIONS

# to become self-sufficient in energy

Ouessant Island is a **full-size demonstrator that proposes technical solutions to make it autonomous and integrating renewable marine energies.**

We operate on 3 levers:

- Reduce and manage energy consumption
- Produce energy locally from sustainable sources
- Create and manage the local energy loop with a microgrid

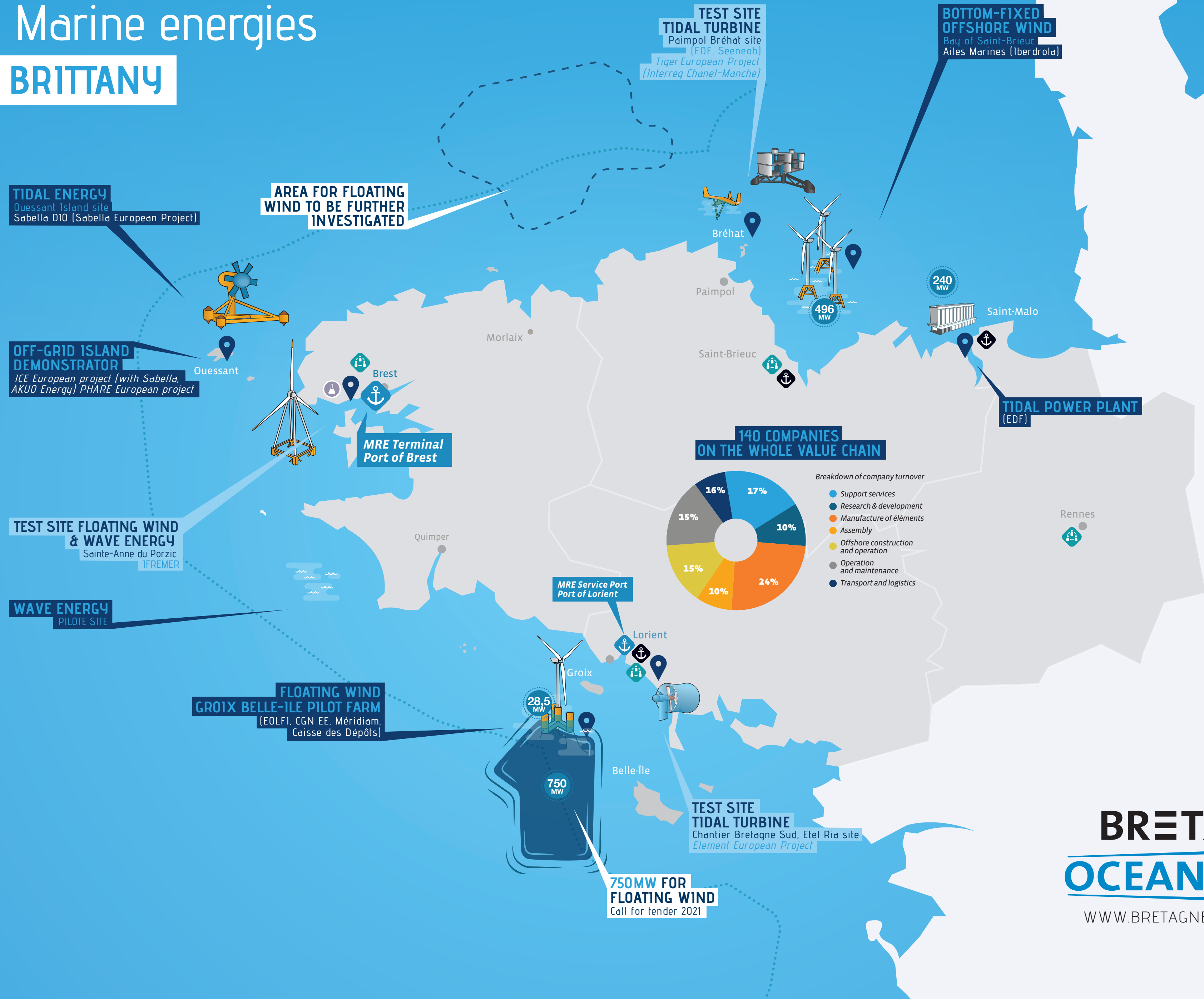
This model can be extended to all territories that are isolated from a national electricity grid and wish to become autonomous and decarbonised.

Call us, we create the link with the companies who develop these solutions.



# Offshore Wind and Marine energies

## IN BRITTANY



**Research centres**

- Ifremer Brest : equipped Wave and Wind Tank and test site
- Campus Mondial de la Mer (Worldwide campus for blue growth) - Brest
- ENSTA Bretagne - Brest
- France Energie Marine - Brest

**Business and innovation clusters**

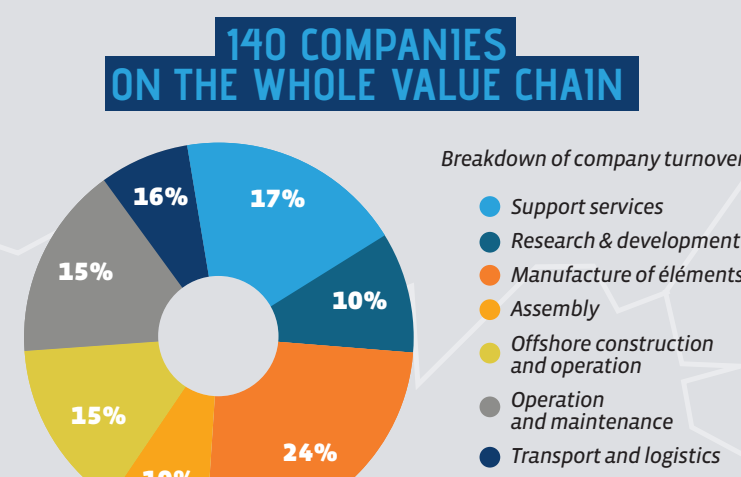
- Pôle Mer Bretagne-Atlantique
- Bretagne Pôle Naval
- Breizh EMR
- Pôle EMC2
- Technopole Brest Iroise

**Marine Energy ports**

- Maintenance ports

**/ Geographical scale**

0 10 20 30



Team up  
**HARNESS**  
**OCEAN ENERGY**



**BRETAGNE<sup>BE</sup>**  
**OCEAN POWER**

**BRETAGNE<sup>BE</sup>**  
 COMMERCE  
 INTERNATIONAL

**BRETAGNE<sup>BE</sup>**  
 DÉVELOPPEMENT  
 INNOVATION

**BREIZH**  
 EMR

**7TECHNOPOLES**  
 BRETAGNE

**CCI BRETAGNE**

**POLYMER**  
 BRETAGNE ATLANTIQUE

**bpn**

UNION EUROPÉENNE  
 UNANIEZH EUROPA



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**/ Have a project? Contact us!**

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