

# MIGRALION

Monitoring bird migration in the Gulf of Lion with **at sea surveys**.



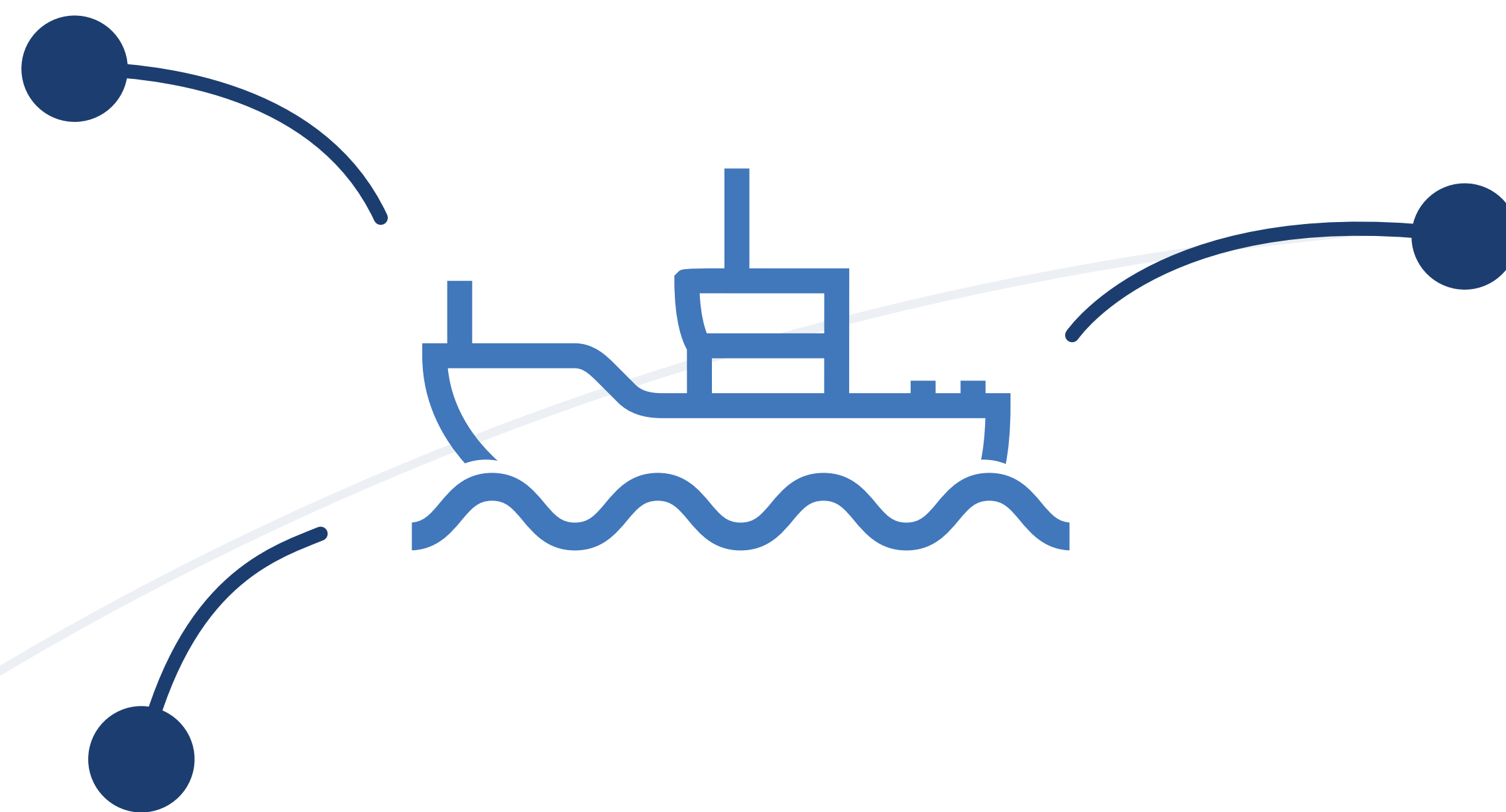
MigraLion's mission is to acquire knowledge on the flying fauna in the Gulf of Lion, in the Mediterranean, while floating wind turbine projects are emerging. Among the means implemented: at sea surveys by boat that allow to criss-cross the entire Gulf otherwise inaccessible to coastal inventories. The program plans four campaigns per year during migrations.

## THREE COMPLEMENTARY SURVEYS

**Two navigation radars (vertical and horizontal)** detect flying birds by day and by night.



Photo credits : V. Delcourt/Biotope



**2. A team of ornithologists** identifies and counts all the birds spotted from the boat (and incidentally the cetaceans) and records the observations in a database.

**3. Acoustic recorders** are used to identify migrating bird and bat species, especially at night when visual observation is impossible.

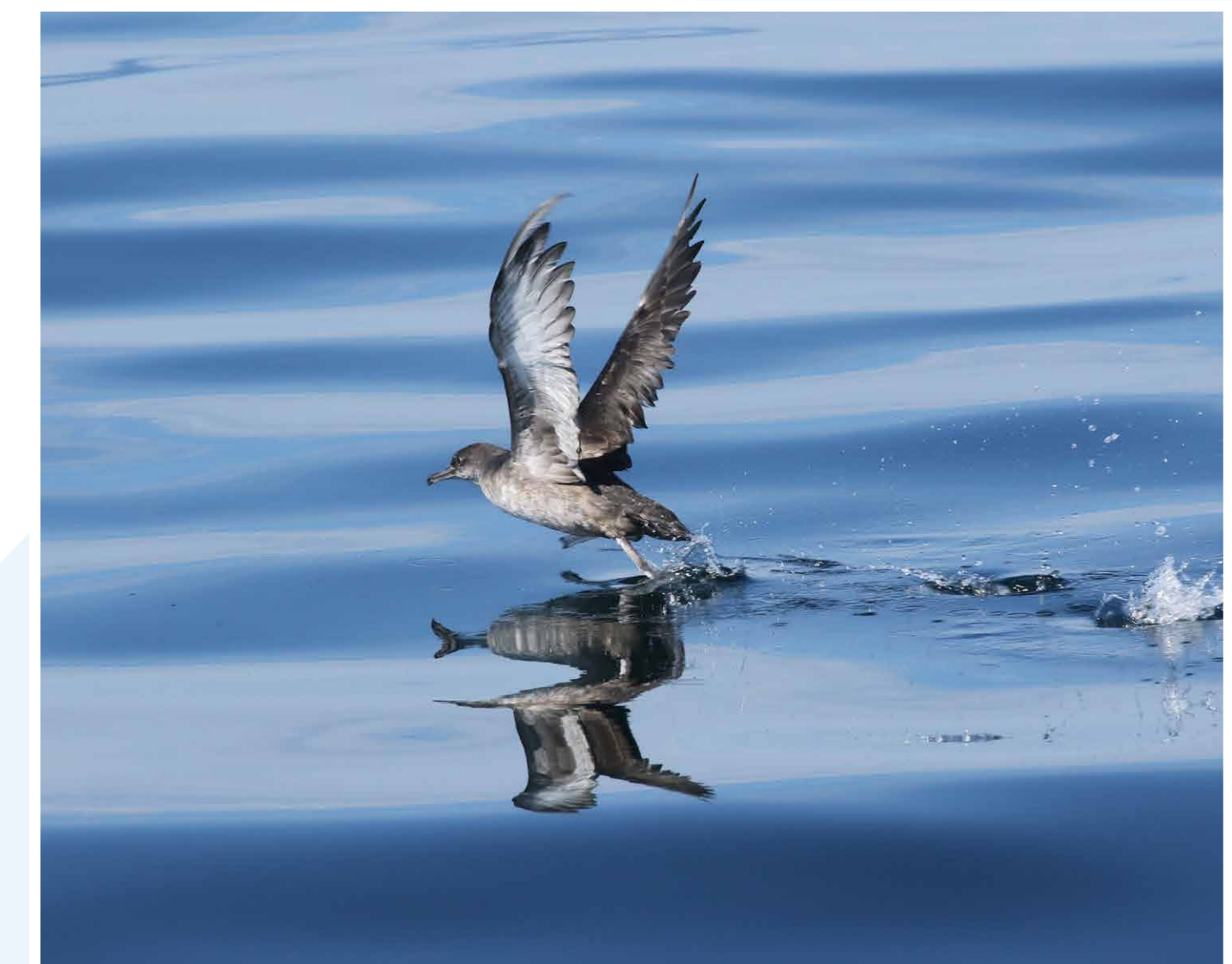
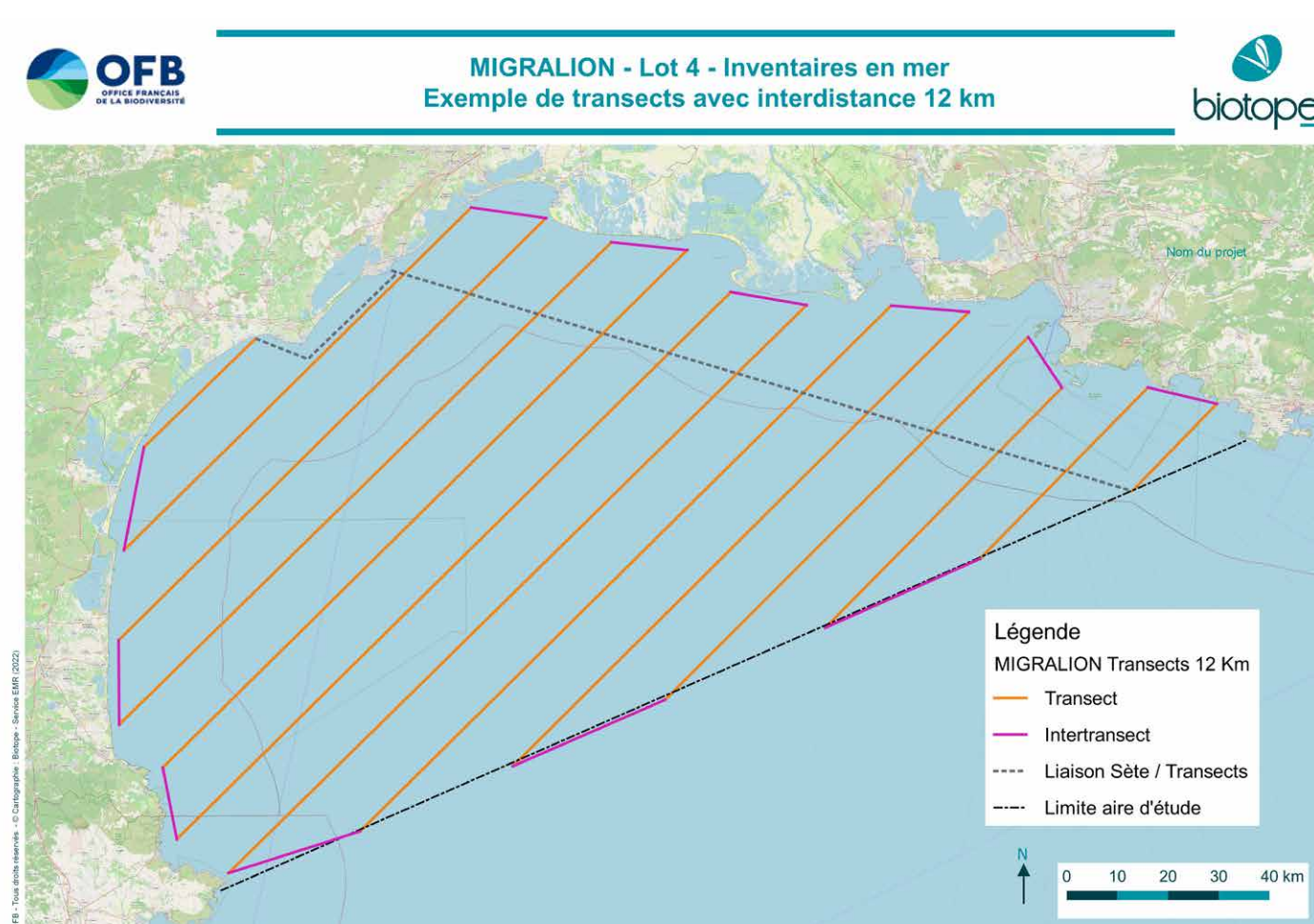


Photo credits : H.Touze/Biotope

Each year, two campaigns at sea will be carried out during spring and fall migrations. Twice a year, the boat will sail **2x4 days** and will carry out **1150 km of transects**, allowing a visual survey across 20% of the Gulf's area and a radar coverage of **80% of the area**.



Map of the transects followed by the boat during a survey.

## EXPECTED RESULTS

The simultaneous implementation of the different types of monitoring will provide information on the spatial distribution of birds at sea (including feeding and resting areas for seabirds) and the migration routes of both seabirds and terrestrial birds. Such information is crucial to well consider the development of floating wind turbines in the Mediterranean.

Learn more about the MigraLion programme



Programme co-financed by the Ministry of Ecological Transition, SUD Provence-Alpes-Côtes d'Azur and Occitanie regions

