

Tópico: Água e Solo

# MONITORIZAÇÃO DE ANIMAIS VERTEBRADOS NOS TRAJETOS MARÍTIMOS DE NAVIOS NA EUROPA

(IMPEL Fixed Line Transects Europe)

Coordenador de Projeto: Roberto Crosti (ISPRA, Itália)  
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Conferência da Rede Nacional IMPEL, 27 de maio 2022, Olhão





# OBJETIVO

The objective of this project is to strengthen the collaboration among these bodies [European networks that undertake marine megafauna surveys] with the aim of setting up and standardizing protocols for data collection and defining the appropriate analyses to efficiently respond to the legislative drivers and supporting decision making across Europe.



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# AMOSTRAR MEGAFAUNA MARINHA

## PLATAFORMAS

### DEDICADAS

- ✓ Dados standard
- ✓ Esforço dedicado
- ⚠ Caro

### de OPORTUNIDADE

- ⚠ Desenho amostral
- ✓ Estrutura / logística existentes
- ✓ Custo-benefício



# AMOSTRAR MEGAFaUNA MARINHA



Grandes embarcações:  
navios de carga, ferries, cruzeiros

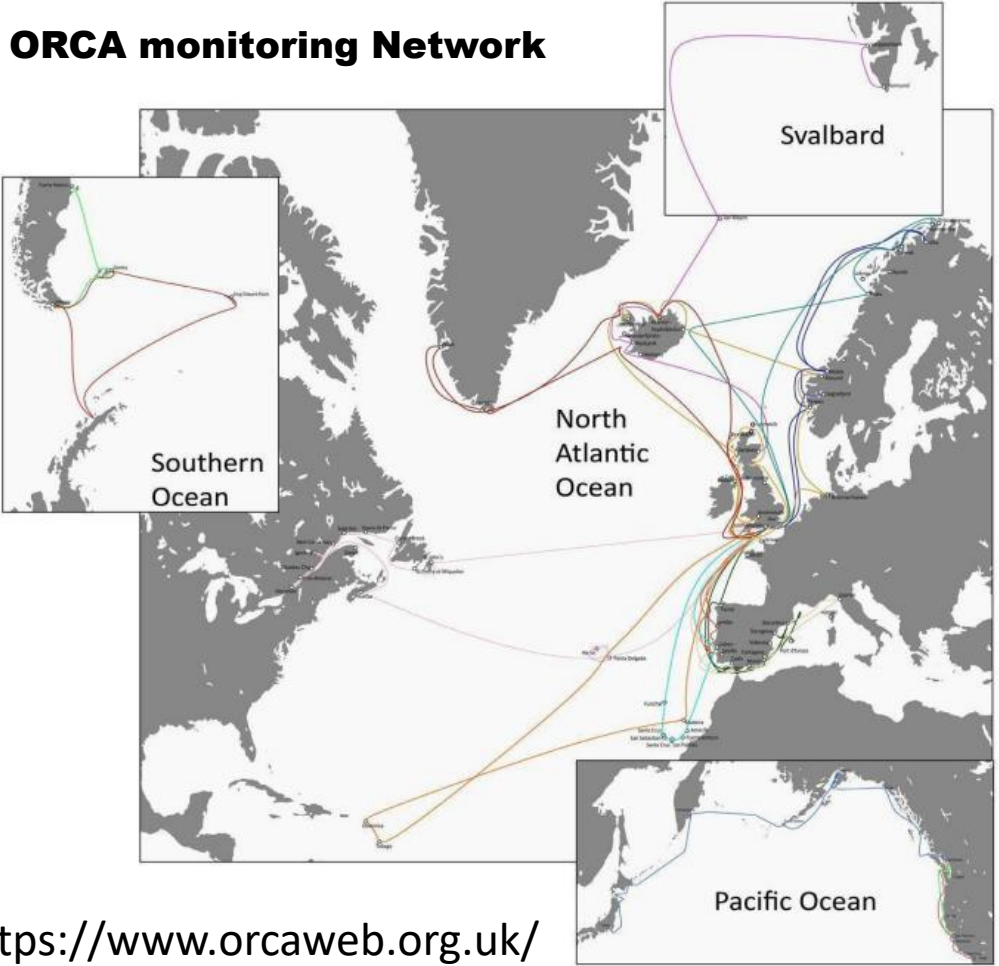


Megafauna:  
cetáceos, aves, tartarugas

Ameaças:  
lixo marinho, tráfego marítimo

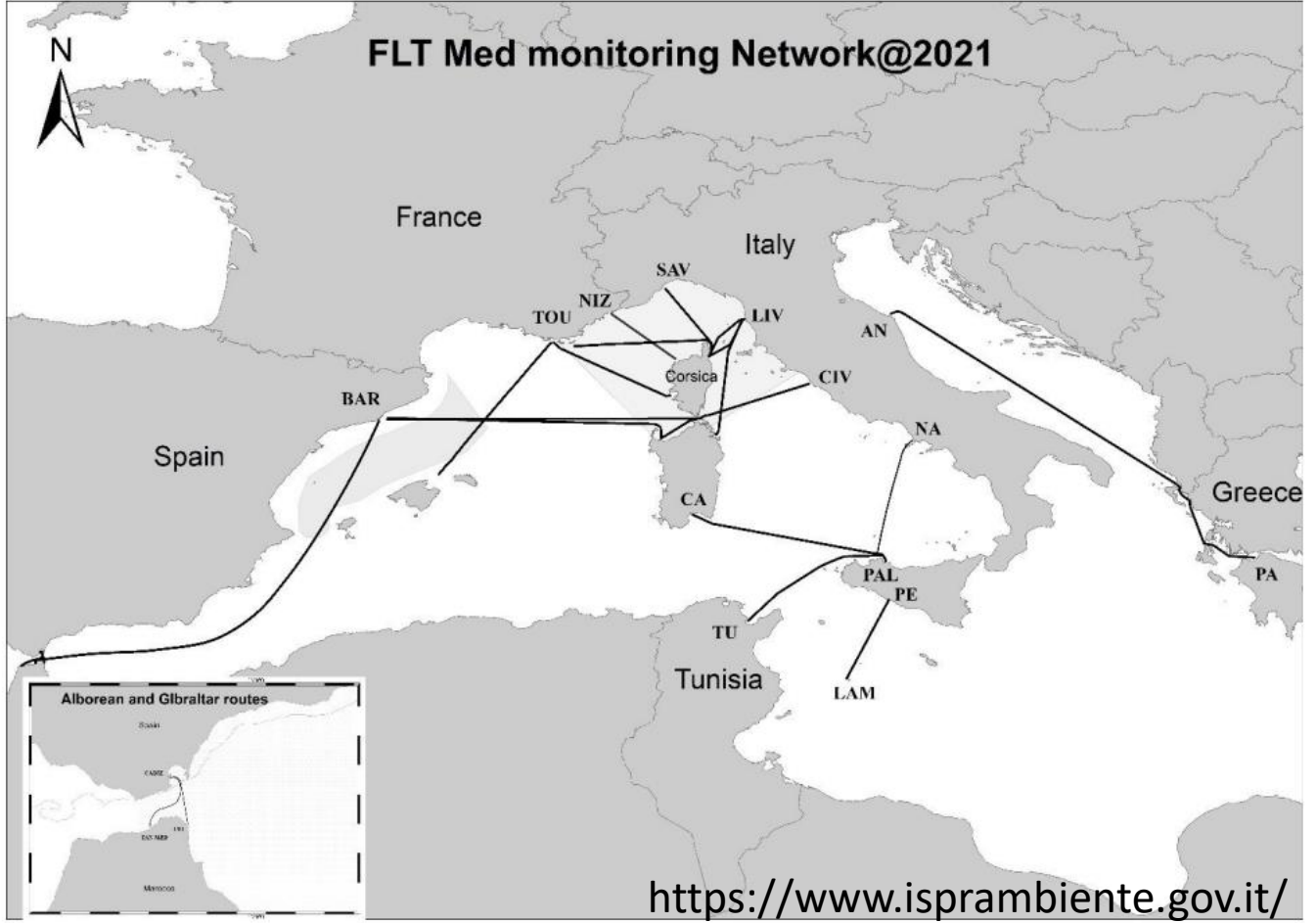
# AMOSTRAR MEGAFAUNA MARINHA

## ORCA monitoring Network



<https://www.orcaweb.org.uk/>

## FLT Med monitoring Network@2021



<https://www.isprambiente.gov.it/>



# AMOSTRAR MEGAFAUNA MARINHA



## CETUS PROJECT

Cetacean monitoring in the Macaronesia

Estudar a DISTRIBUIÇÃO e HABITAT de CETÁCEOS no Nordeste Atlântico, na área delimitada pelas costas da PENÍNSULA IBÉRICA e Noroeste de ÁFRICA e arquipélagos da MACARONÉSIA.

Açores

Madeira

Canárias

Cabo Verde

[cetusproject.pt@gmail.com](mailto:cetusproject.pt@gmail.com)

 @CetusProject |  @cetusproject



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# ATIVIDADES & RESULTADOS

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1. Screening. Definição de necessidades e de “gaps”;
2. Guidelines EU comuns: recolha de dados (APP), formato, análise de dados; responder a legislação EU.

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# ATIVIDADES & RESULTADOS

## Monitoring large marine vertebrates along fixed transects from ferries and cargo vessels: a state of the art.

1. Conservação, Legislação
2. Iniciativas de monitorização EU
3. Protocolos monitorização
4. Metadados, formatos, disseminação
5. Análise de dados
6. “Gaps”, necessidades de investigação, desenvolvimentos futuros
7. Conclusão + Protocolos anexos



# ATIVIDADES & RESULTADOS

**Monitoring large marine vertebrates along fixed transects from ferries and cargo vessels: a state of the art.**

[https://www.impel-network.eu/wp-content/uploads/2020/10/202014\\_FR\\_FLT-Europe-State-of-the-art\\_.pdf](https://www.impel-network.eu/wp-content/uploads/2020/10/202014_FR_FLT-Europe-State-of-the-art_.pdf)

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# ATIVIDADES & RESULTADOS

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Identificada a necessidade de uma ferramenta de amostragem comum



Desenvolvimento de uma ferramenta para amostragem



Standardização dos dados, partilha de datasets / datasets comuns





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## 1. Habitats Directive (92/43/EEC)

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A31992L0043>

## 2. Marine Strategy Framework Directive (2008/56/CE)

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32008L0056>

## 3. Waste Framework Directive (2008/98/EC)

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02008L0098-20180705>

## 4. Directive on single-use plastics (2019/904/EC)

<https://eur-lex.europa.eu/eli/dir/2019/904/oj>

## 5. Regional Sea Convention (Barcelona and OSPAR)

[https://ec.europa.eu/environment/marine/international-cooperation/regional-sea-conventions/index\\_en.htm](https://ec.europa.eu/environment/marine/international-cooperation/regional-sea-conventions/index_en.htm)

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## Marine Strategy Framework Directive (2008/56/CE)

1. DIC2 (abundância)
2. DIC4 (distribuição)
3. DIC5 (habitat)
4. DI0 (lixo marinho)

# LEGISLAÇÃO

HD	MSFD Descriptor 1	OSPAR JAMP 2014–21	Barcelona Convention  Ecological Objective 1	CMS	IUCN  Red List
Population	C2	Population abundance	Common Indicator 4	Population distribution and abundance	Population size
<b>Relative index of abundance (SPUE, density) - Trends</b>					
Range	C4	Geographical range and distribution	Common Indicator 3	Species range, population distribution	Range
<b>Occupancy, interpolation techniques, species hotspots - Trends</b>					
Habitat of species	C5				Habitat quality included in the range
<b>Species distribution models, quantile analysis - Trends</b>					

# OBRIGADA!

## Monitorização de Animais Vertebrados nos Trajetos Marítimos de Navios na Europa

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