

FARNET TRANSNATIONAL SEMINAR FOR FLAGS  
**BANTRY, IRELAND 2 – 4 APRIL 2019**

**“Smart coastal communities: creativity and innovation within  
FLAG communities”**

# TECHNOLOGICAL PLATFORM ‘XESMAR’

**FLAG RÍA DE AROUSA**  
Rosa Carballo Martínez



# PROJECT INFORMATION: “INNOVATIVE PROJECT: TECHNOLOGICAL PLATFORM XESMAR MOBILE APPLICATION”

## COOPERATION PROJECT

**Promoters: Guilds of Cambados and Vilanova de Arousa.**

**Sector: Fisheries (shellfish); Women’s training: 430**

**Locations: Cambados and Vilanova de Arousa**

**Timeframe: 2018-2019**

**Total investment: 63.319,30€**

**Subsidies: 52.330 €**



# RÍA DE AROSA FLAG STRATEGY

- **5.1.1. Initiatives that strengthen the empowerment of the fisheries sector and social groups involved in the development of the coastal area.**

# BACKGROUND:

Shell-fishing does not only involve harvesting, it also includes partial “farming”/growing work

- **Diversity of the work:**

- **Planting;**
- **Transferring;**
- **Cleaning;**
- **Monitoring/Surveillance;**
- **Use of PERMEX, and for its renovation it is necessary to reach a minimum annual work load and sales**



**EXHAUSTIVE CONTROL**



# ISSUE:

- Difficult organization and exhaustive control;
- Days of fishing closures, shutdowns for toxins, weather warnings.

*Photos of day-to-day life at the coast*



**Xesmar**  
**TO THE FUTURE**



# PROJECT DESCRIPTION:

- **Platform: accessible via internet and mobile app.**
- **For the fisheries and shellfish sectors.**
- **Solutions based on new technologies.**
- **Simplifies the management and organization of the work.**
- **Encourages the training of the professionals of the primary sector.**
- **Multiplier effect to other guilds ('Cofradías')**

*Cofradía de Cambados*



*Cofradía de Vilanova*

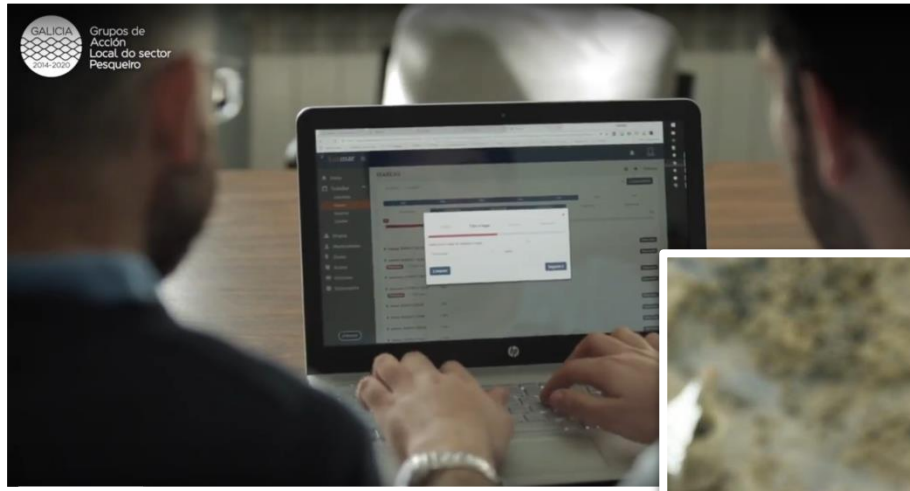


*Cofradía de Vilaxoan*

# Xesmar

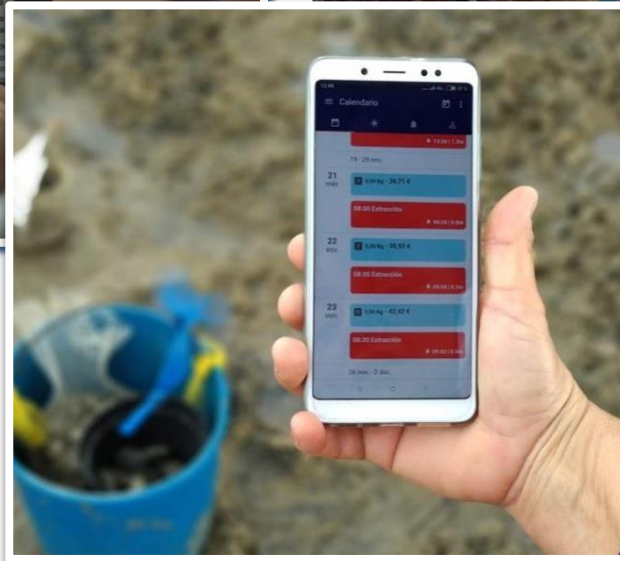
## Control

*Assistance, harvest, ...*



## Platform

*Management, planning, notices, ...*



## App

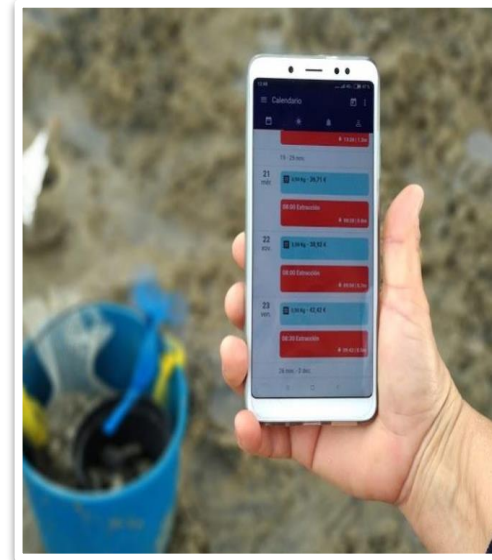
*Work calendar, assistance, notifications, sales, ...*





## WHY XESMAR:

- Accessible work calendar and attendance record.
- Notifications from guilds to be updated regularly.
- All the information available at all times.
- Easy to use, reliable information and always protected.
- Training and support in the use of new technologies.
- Environmentally friendly: reduced paper use, energy, printers, ...



# Xesmar Plataforma



San Antonio 
Novidades!

- Inicio
- Calendario
- Traballos
- Planificador
- Asistencias
- Estatísticas
- Mariscadores
- Grupos
- Avisos
- Informes
- Zonas
- Usuarios
- Axuda

## CALENDARIO

Xesmar / Calendario

< > Hoxe

### Xuño 2018

Mes Semana Día

Lun	Mar	Mer	Xov	Ven	Sáb	Dom
				1 12:27 <span style="color: red;">↓ 0.9m</span> 23:00 NT04 <span style="color: green;">↑ 00:55 (0.9m)</span>	2 10:45 <span style="color: green;">↑ 13:03   1m</span> 13:15 <span style="color: green;">↑ 13:03   1m</span> 23:45 NT19 <span style="color: green;">↑ 01:33   1m</span>	3 11:15 <span style="color: red;">↓ 13:41   1.1m</span> 13:45 <span style="color: red;">↓ 13:41   1.1m</span>
4 00:15 NT06 <span style="color: green;">↑ 02:15   1.1m</span> 14:30 <span style="color: green;">↑ 14:23   1.3m</span> JM03, SM03, ST03	5 01:15 NT07 <span style="color: green;">↑ 03:03   1.2m</span> 12:45 <span style="color: green;">↑ 15:14   1.4m</span> JM05, SM05, ST05 15:15 <span style="color: green;">↑ 15:14   1.4m</span> JM04, SM04, ST04	6 02:00 NT05 <span style="color: green;">↑ 03:59   1.3m</span> 16:00 <span style="color: green;">↑ 16:18   1.5m</span> JM01, SM01, ST01	7 03:15 NT08 10:00 VI - For Xesmar 16:30 JM06, SM06, S	8 08:46 <span style="color: red;">↓ 0.8m</span> 12 09:31 <span style="color: red;">↓ 0.6m</span> 13 10:16 <span style="color: red;">↓ 0.3m</span> 14 21:45 NT11	9 00:15 NT16 <span style="color: green;">↑ 02:09   0.5m</span> 14:23 <span style="color: red;">↓ 0.8m</span> 25 RECUPERACION 09:05 <span style="color: red;">↓ 1m</span>	10 01:15 NT17 <span style="color: green;">↑ 03:09   0.7m</span> 15:24 <span style="color: red;">↓ 1m</span> 26 09:45 <span style="color: red;">↓ 0.9m</span> 19:45 <span style="color: green;">↑ 22:10   0.9m</span> JM06, SM06, ST06 20:15 NT09 <span style="color: green;">↑ 22:10   0.9m</span>

Extracción
Receitas
Limpieza
Traslado
Rareo
Vixilancia

Datos persoais

Nome  
Pablo

Apelidos  
Dorgambide Avilés

NIF

Nº Seguridade Social

Permex

Data de Nacemento

Estado  
Activo (13 de dec. de 2017)

Notas

Datos de contacto

Código  
0001

Nome  
Pablo

Apelidos  
Dorgambide Avilés

NIF

Nº Seguridade Social

Permex

Data de Nacemento

Estado  
Activo (13 de dec. de 2017)

Últimas notificacións

**GRUPOS**

Grupo	Categoría
G1002 Grupo proba Vixancias 2	Vixancias
G2002 Limpzas proba 2	Limpzas
QUA Quality	Global

[+ Insertar](#)

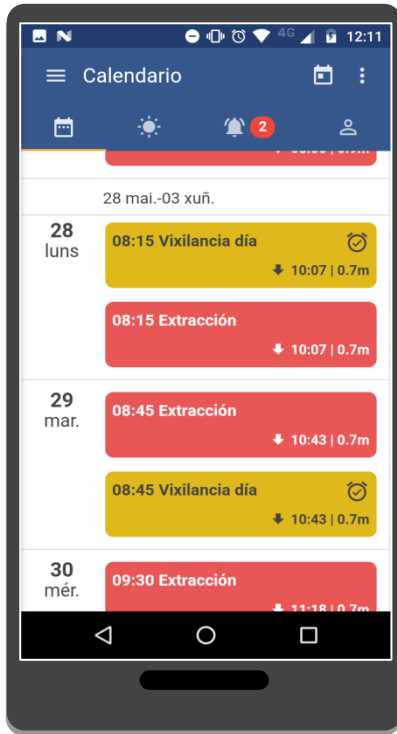
**CUMPRIMENTO DO PERMEX**

9 Asistencias / 1 Faltas 90,00%

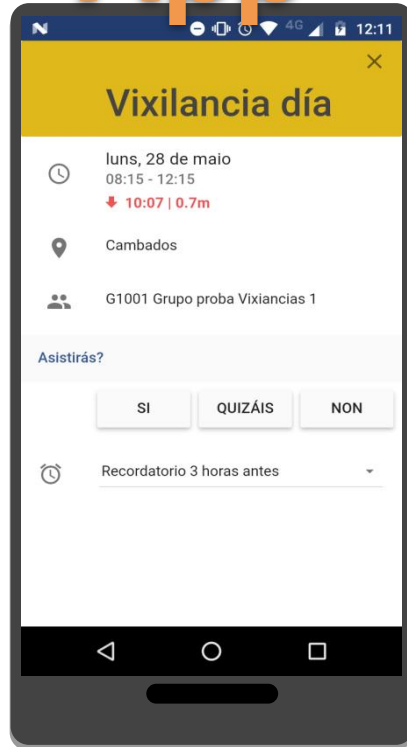
10 Convocatorias efectivas / 0 Convocatorias de baixa 100,00%

Xesmar © - 1.3 Tragrove

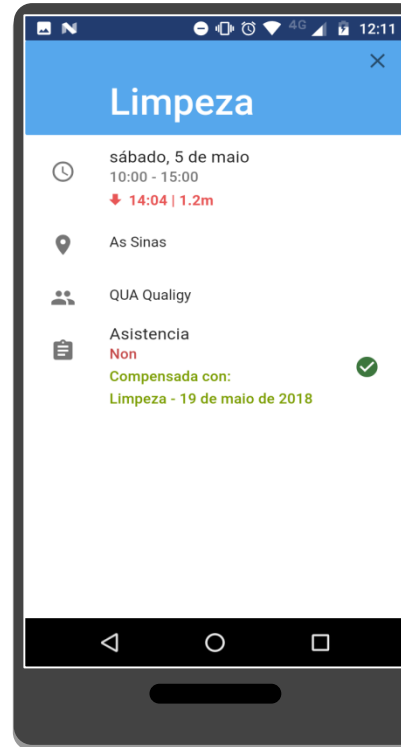
# Xesmar App



Calendar



Notifications

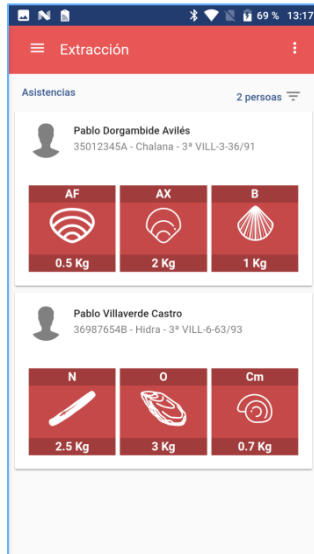
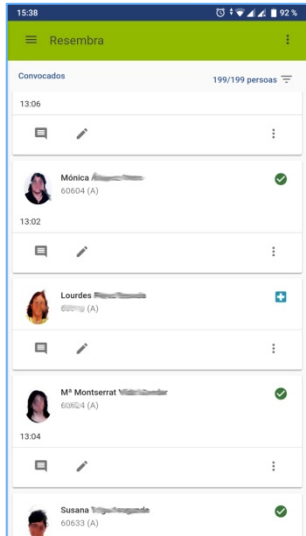


Assistance



PERMEX

# Xesmar Control



Calendar: *Work/Harvests*

Assistance control: *Cards/Companies*

Harvest control: *Species/Weight*

# REQUESTED EQUIPMENT:

- Desktop units (2)
- Caterpillar S40// Samsung xCover (12)
- Samsung Tab Active (3).
- License and software





## RESULTS:

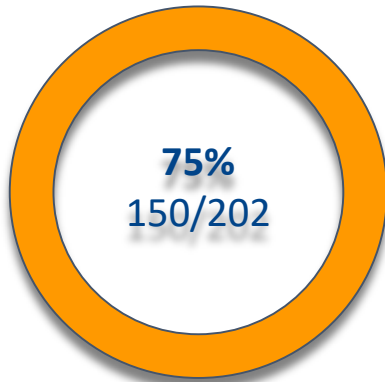
- Immediate communication.
- Being aware of real time weather conditions and toxicity.
- Improved organization of the work.
- Improved quality of life of shellfish farmers.
- Enhanced efficiency of production and marketing.
- Transferable project to other areas of the FLAG (e. g. Cofradía Vilaxoán).
- Multiplier effect.



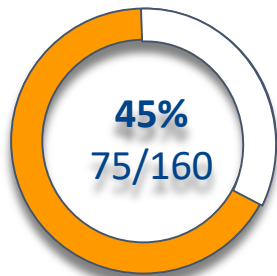
# A reality in...

## Cambados

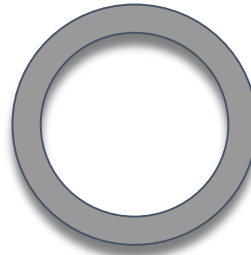
Shellfish  
gatherers  
on foot



Shellfish  
gatherers  
on board



*Mixed  
fisheries  
vessels*  
(March 2019)

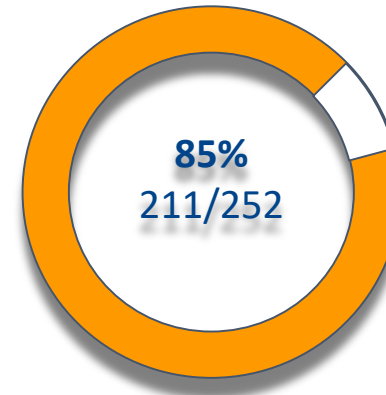


75-90%

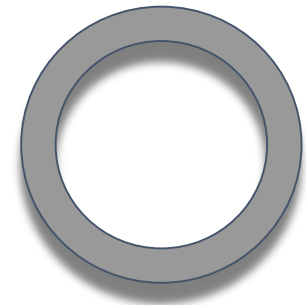
Access the platform directly

## Vilanova

On foot



On board  
(March 2019)



We started with women from walking groups and it has extended rapidly to other groups (afloat,...)





A platform developed **by and for the shellfish sector in Galicia**, that improves and simplifies the day-to-day management, control and planning of the resources.



# Thank you for your attention!

Phone: +34 986510953 / +34 628155386

[gac5@accioncosteira.es](mailto:gac5@accioncosteira.es)



*farnet*  
fisheries areas network