

## MEDGuard project



### Deliverable

#### D2.2 Definition proposal with the new professional competences required to carry out the new activities.

<b>Deliverable:</b>	D2.2 Definition proposal with the new professional competences required to carry out the new activities.
<b>Document number:</b>	MEDGuard-D2.2
<b>Delivery date:</b>	15th January 2016
<b>Call:</b>	Guardians of the Sea, MARE/2014/24
<b>Grant agreement:</b>	MARE/2014/24 – MEDGuard – S12.710553

#### List of participants:

Participant No *	Participant organization name	Participant short name	Country	Type *
1	Centro Tecnológico Naval y del Mar	CTN	ESP	Non profit
2	CIFP Hespérides	HESPÉRIDES	ESP	Public
3	Identidades, valores y estrategias alternativas para los empresarios marítimos y pesqueros	IVEAEMPA	ESP	Non profit

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Company / Organization	Name and Surname
HESPERIDES	Antonio Arroyo
HESPERIDES	Alberto Díaz
HESPERIDES	Pedro J. Bernal
HESPERIDES	Sara García
CTN	Noelia Ortega
CTN	Daniel Alonso
CTN	Jordi Solé
CTN	Fuensanta Riquelme
CTN	Covadonga Rayón

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### Acknowledgements

The members of the consortium express their recognitions for their support on the carrying out of the project to:

- Service of Fishing and acuiculture of the Comunidad Autónoma de la Región de Murcia.
- Directorate-General for Merchant Shipping of Cartagena.
- Fishermen Brotherhood of Cartagena and Mazarrón.
- Students from the Training course Maritime Transport and deep sea Fishing
- Students from the Training course Hiperbaric and underwater operations.
- Technical University of Cartagena ( Underwater vehicles Laboratory)
- Asociación Ambiente Europeo.

### Abstract

This document is the Deliverable: "D2.2 Definition proposal with the new professional competences required to carry out the new activities" of the MEDGuard Project co-funded by the DGMare of the European Commission within the call: "Guardians of the Sea, MARE/2014/24". This call co-funds preparatory actions to promote the reassignment of fishing vessels and the professional re-orientation of fishermen for activities and services outside fishing. In the MEDGuard project the reassigned fishing vessel "Ciudad de Cartagena" is operated in the coast of Cartagena with the aim to identify the requirements needed to guarantee the sustainability of the reorientation of the medium size fishing fleet. This confidential document reports the work progress to define the specific and general competences for the professional reorientation of fishermen to carry out on board of the reassigned vessels activities other than fishing. Identified in Deliverable D1.1. Study of the technical feasibility.

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## Bibliography

- Call MARE2014/24. Guardian of the Sea. Ref. Ares(2014)3588218 - 29/10/2014
- Grant Application Form “Guardians of the Sea”, MEDGuard project.

### List of short names

<b>CTN</b>	Centro Tecnológico Naval y del Mar
<b>HESPÉRIDES</b>	CIFP Hespérides
<b>IVEAEMPA</b>	Identidades, valores y estrategias alternativas para los empresarios marítimos y pesqueros

## 1 Introduction.

The MEDGUARD Project is co-funded by DGMare of the European Commission within the call “Guardians of the Sea, MARE/2014/24”. This call co-funds preparatory actions to promote the reassignment of fishing vessels and the professional re-orientation of fishermen for activities and services outside fishing which should contribute to the sustainable management and use of marine and maritime resources.

In the MEDGuard project the reassigned fishing vessel “Ciudad de Cartagena” is operated in Cartagena coast to examine and demonstrate the feasibility and economic viability of substitute activities to fishing with the main aim of identifying the requirements needed to guarantee the sustainability of the reorientation of the medium size fishing fleet. The Project has the following specific objectives:

- ✓ To perform a series of tests in Western Mediterranean Coast using the reassigned fishing vessel “Ciudad de Cartagena”.
- ✓ To analyse the technical viability of using the acoustic systems and devices of fishing vessels for collecting lost fishing gears.
- ✓ To analyse the economic conditions and operational costs of vessels to perform maritime activities outside fishing and identify ways for future funding.
- ✓ To identify the relevant training needs of fishermen and vessel owners to perform the substitute activities.
- ✓ To provide useful data and information about costs and ways of funding to the promoters of the diversification activities, fishermen and the authorities with competences in the management of programmes related to the CFP Reform.

To achieve its objectives, the project has 5 work packages which relationships are shown in Image 1. Work Plan Structure.

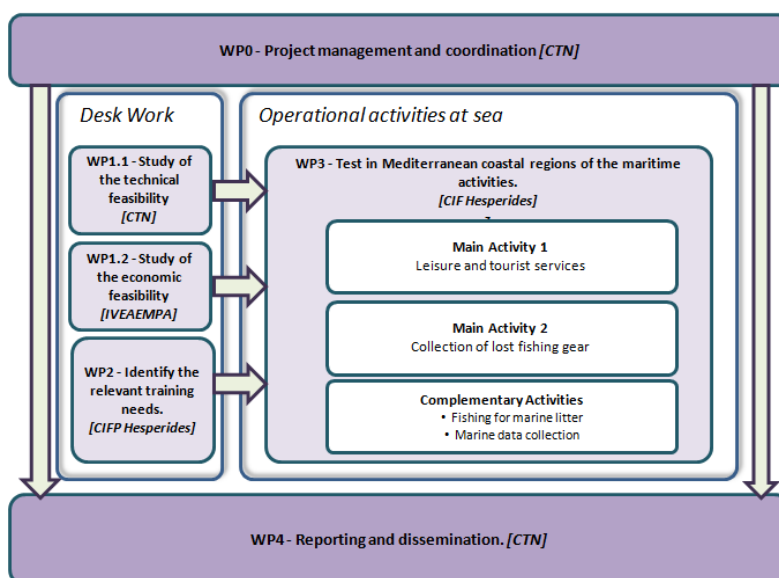


Image 1. Work Plan Structure.

This document shows the General competences to carry out on board of the reassigned vessels to activities other than fishing. 3 fishermen professional profiles need reorientation (A) Ship owner, (B) Captain & Sailor and (C) Ship engineer. For each of the 3 professional profiles, it has been defined a mandatory General Competence to carry out each of the 4 alternative activities, ending in 12 General Competences (see section 4). Each of these General Competences has been broken down into different Specific Competences (see Summary section 4). The result of this work is described in Deliverable “D2.2 Definition proposal with the new professional competences required to carry out the new activities”. In order to determine the training itinerary needed for the professional reorientation of the crew, the identified training needs have been divided into three groups according to the priority of each training need: (i) Mandatory (before starting the activity), (ii) Mandatory (in the 1st year) and (iii) Complementary. The result of this work has been a total of 12 training itineraries, one for each profile and activity detailed in sections 5 and 6 of this Deliverable (“D2.1 Catalogue with the training itineraries for the professional re-orientation of fishermen and ship-owners”).

The schedule of the training actions will be detailed in the Deliverable “D2.3 Planning and programming training actions directed to fishermen” foreseen for month 12 of the project.

The project is developed by a consortium made up of 3 entities coordinated by CTN and it has a duration of 12 months starting on August 2015.

## 2 Objectives of this file.

The fishing industry and aquaculture are suffering a deep transformation in the last decades. The maritime extraction fishing is giving up facing the feeding production system and fostering offered by the aquaculture. On the other hand, we have the concern aroused with the fact that many fishing grounds are subdued to excessive fishing of their fishing resources have been exhausted, causing changes in the ecosystems that endanger the wellness of future and present generations. Both factors determine the necessity of the sustainable development of the fishing activity that has led to promote the reduction of capacity of the EU fleet.

According to the "Annual Report of the Spanish fishing fleet activity": "Along 2014, a total of 290 fishing ships have been retired (64% with no funds and the rest with funds from FEP) mainly in trawl fleet and small scale fishing". This fall is connected with the direct or indirect unemployment in this sector. Trying to minimize this problem, it is taken into account the economic and technical feasibility of other kind of activities that can be carried out on board the ship. This retraining implies the reconversion of the professional profile of the fishermen, being the purpose of this document the definition of these new profiles, defining the new specific and general competences needed for the reconversion of the fishermen to carry out on board.



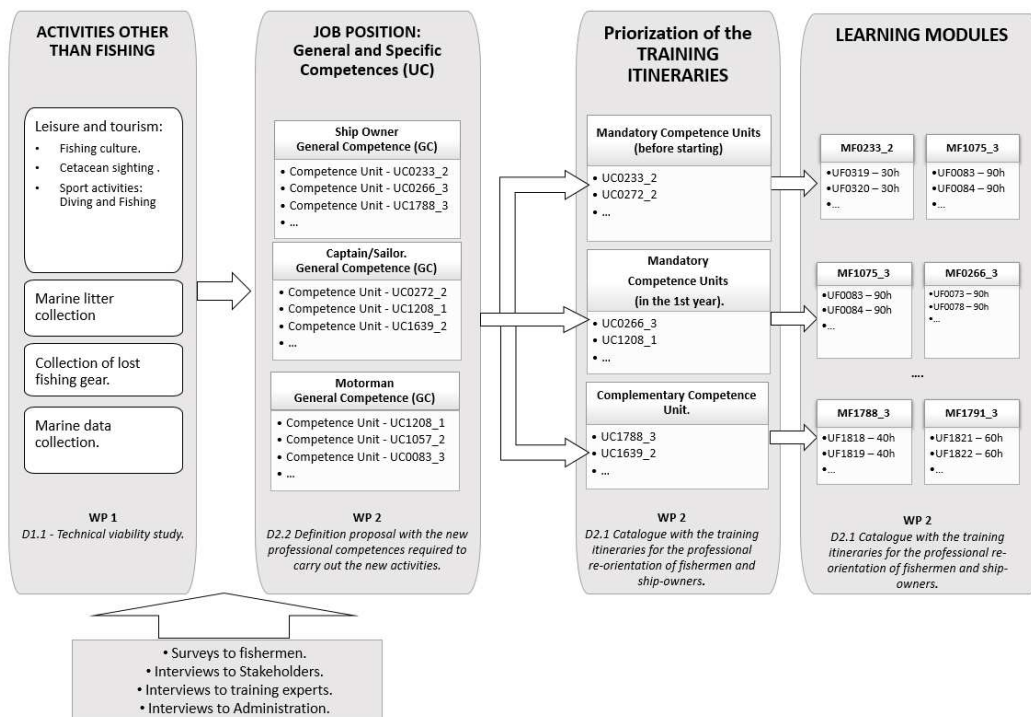
### 3 Methodology.

In order to carry out the 4 new activities 3 fishermen professional profiles need reorientation: (A) Ship Owner, (B) Captain & Sailors and (C) Ship's Engineer. There may be other additional professional profiles other than former fishermen to carry out these activities such as: touristic guides, oceanographic researchers, marine biologists, etc. which are out of scope of this study.

Twelve general competences have been defined to carry out the 4 activities other than fishing by the 3 professional profiles (Tasks 2.1. and 2.2.). Each of these general competences has been broken down into different specific competences following the nomenclature of the Spanish National Catalogue of Professional Qualifications (CNCP). The result of this work is described in Deliverable "D2.2 Definition proposal with the new professional competences required to carry out the new activities".

In order to determine the training itinerary needed for the professional reorientation of the crew, the identified training needs have been divided into three groups according to the priority of each training need: (i) Mandatory (before starting the activity), (ii) Mandatory (in the 1st year) and (iii) Complementary. The result of this work has been a total of 12 training itineraries, one for each profile and activity. These itineraries are detailed in the Deliverable "D2.1 Catalogue with the training itineraries for the professional re-orientation of fishermen and ship-owners". The schedule of the training actions will be detailed in the Deliverable "D2.3 Planning and programming training actions directed to fishermen" foreseen for month 12 of the project. Planning and programming training actions selected to take into account within the temporal framework of the project are detailed.

The following scheme shows the methodology followed for the development of Work Package 2 and its deliverables.



**Image 2. Methodology to identify the general and specific competences for professional reorientation of fishermen in activities other than fishing.**

## 4 General and Specific Competences for the workers to re-orientate.

The specific and general competences of each of the professional profiles to be reoriented has been defined in order to accomplish the production and demand needs of the new activities:

- Leisure and tourism– Dissemination of the fishing culture; cetaceans sightseeing and sport activities.
- Litter collection.
- Lost fishing gear collection.

Environmental parameters monitoring the professional positions that require a professional reorientation are: (A) Ship Owner, (B) Captain & Sailors and (C) Ship's Engineer. Taking into account that due the vessel crew is not big and with the objective to gain polyvalence, the following competences have been established for the reorientation of each of the professional positions:

- Ship Owner: will assume the responsibilities of the manager of the new activity.
- Captain/sailor: it has been considered that the additional training that captains and sailors should have to carry out the new activities is the same.
- Ship's Engineer.

### 4.1 New competences for leisure and tourism activities.

<b>ECONOMIC ACTIVITY</b>		<b>1. - Leisure and tourism services.</b>
<b>JOB POSITION</b>		<b>1.- Ship owner</b>
<b>GENERAL COMPETENCE</b>		
To direct the small entrepreneurs or small companies, together with the implementation and planning of business area strategies , programming the activities, organizing and controlling material resources, the economic operations and fostering the marketing and sales of the products and touristic services by using telematics or computer media, managing with quality and environmental quality, ensuring risk prevention and using consultancy services when the difficulty of the activity requires, with the purpose of assure the business goals and the fulfilment of the current regulation.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC0233_2	To handle computer applications to manage information and documentation (partial)	
<b>2.- Mandatory (In the first year): Compulsory to manage them during the first year of the development of the activity</b>		
UC1057_2:	To be able to communicate in English, independent user level, in touristic activities.	
UC1792_2	Manage risk prevention in the small businesses.	
UC0266_3	To sell travels and touristic services.	
UC1075_3:	To create, push and manage services and local touristic products.	
UC2005_2:	Offer the travellers own means of transportation services	
<b>3.- Complementary: those not compulsory for the development of the activity</b>		
UC1788_3	To plan efforts and activities in small businesses or micro-enterprises.	
UC1789_3	To manage the daily business activity and resources in small businesses or micro-enterprises.	
UC1790_3	To market with the products and services in small companies or micro-enterprises.	

UC1791_3	To do administrative and financial dealings of the small companies or micro-enterprises.
UC1070_3:	To interpret natural spaces and other sites of cultural interest within the scope of tourists and visitors.

**Table 1 New professional competences for leisure and touristic activities – Ship owner.**

ECONOMIC ACTIVITY		1.- Leisure and tourism services
JOB POSITION		2.- Captain
<b>GENERAL COMPETENCE</b>		
To develop activities of reception and attention to passengers in means of transportation according to the specifications of the company or borrowing company and to inform and interpret the heritage, cultural and natural assets and all the rest of touristic resources, and in an attractive way, interact with them fostering their interest, together with the providing of escort service, using ,when necessary, the English language or other foreign language, in a way that they fell comfortable and well attended all the time, being their expectations for information and enjoyment fulfilled . This way the objectives of the organizing entity can be done.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC1637_2 (Partial)	To be able to make hyperbaric actions using the autonomous or semiautonomous scuba system, breathing air or nitrox up to a pressure of 5 atmospheres.	
UC0272_2	To assist in an accident or emergency situation (diving) as first person	
UC0255_1 (Partial)	To execute basic operations on providing supplies, pre-elaboration and food preservation.	
UC0806_3 (Partial)	To develop training programs on environmental education and Foster educational processes.	
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>		
UC1637_2 (complete)	To be able to make hyperbaric actions using the autonomous or semiautonomous scuba system, breathing air or nitrox up to a pressure of 5 atmospheres.	
UC1057_2	To be able to communicate in English, independent user level, in touristic activities.	
UC2005_2 (Partial)	Offer the travellers own means of transportation services.	
UC0256_1 (Partial)	Help in cooking elaboration and do and show simple food preparations.	
UC0257_1 (Partial)	Basic service of snack bar.	
UC0258_1 (Partial)	To execute basic operations on providing supplies, prepare and show basic drinks and fast food.	
UC1209_1	To be able to operate with information technologies and communication.	
UC1208_1	To be able to do minor maintenance operations in micro computing systems.	
UC0806_3 (Partial)	To develop training programs on environmental education and foster educational processes.	
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>		

UC1639_2	To lead a sport diving team during a hyperbaric intervention up to 5 atmospheres of pressure.
UC1638_2	To take part in the organization, take care for the security and fix sub aquatic routes in sport diving operations.
UC1070_3:	To interpret natural spaces and other sites of cultural interest within the scope of tourists and visitors.
UC0255_1 (complete)	To execute basic operations on providing supplies, pre-elaboration and food preservation.
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.
UC0256_1 (complete)	To attend in food elaboration and prepare and show basic recipes.
UC0257_1 (complete)	Basic snack bar service.
UC0258_1 (complete)	To execute basic operations on providing supplies and prepare and show basic drinks and fast food.

**Table 2 New professional competences for leisure and tourism activities – Captain.**

<b>ECONOMIC ACTIVITY</b>	<b>1. - Leisure and tourism services.</b>
<b>JOB POSITION</b>	<b>3.- Ship's Engineer</b>
<b>GENERAL COMPETENCE</b>	
To develop passengers attendance activities on the means of transport according to the specifications of the Company or borrowing Company of that service and to inform and to interpret the local heritage, sites of cultural and natural interest and rest of touristic resources from a specific scope of action for tourists and visitors, in an attractive way, interacting with them and waking up their interest, as well as offering escorting and assistance services, using, when necessary, the English language or other foreign language, so that they can feel attended all the time, fulfilling their information and leisure expectations, and also fulfilling the goals of the organizing entity of the service.	
<b>SPECIFIC COMPETENCES</b>	
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>	
UC0272_2:	To assist in an accident or emergency situation (diving) as first person.
UC1208_1	To be able to do auxiliary maintenance actions on micro computing systems.
UC0806_3 (Partial)	To develop training programs on environmental education and foster educational processes.
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>	
UC1057_2:	To be able to communicate in the English language, with an independent user level, in touristic activities.
UC0806_3 (Partial)	To develop training programs on environmental education and foster educational processes.
UC1209_1	To be able to operate with information technologies and communication.
UC0083_3 (Partial)	To control and monitor the natural spaces and its public use.
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC0806_3 (Complete)	To develop training programs on environmental education and foster educational processes.
UC0083_3	To control and monitor the natural spaces and its public use.

(Complete)

Table 3 New professional competences for leisure and tourism activities – Ship’s Engineer.

#### 4.2 New professional competences for collection of lost fishing gear.

ECONOMIC ACTIVITY		2.-Lost gear collection
JOB POSITION		1.- Ship owner
<b>GENERAL COMPETENCE</b>		
To manage business initiatives of small businesses or micro-enterprises, as well as the implementation and planning of business area strategies, programming the activities, managing the persons, organizing and controlling material resources, the financial and economic operations and developing the marketing and selling of the products and services, by using the telematics and computing media, managing with quality and environmental protection criteria, everything assuring the risk prevention and using consultancy services when the complexity of the activity requires it, in order to achieve the company goals and the fulfilments of the current regulations.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC0233_2 (partial)	To handle computer applications in the managing of information and documentation.	
<b>2.- Mandatory (In the first year): Compulsory to manage them during the first year of the development of the activity</b>		
UC1792_2	To manage the risk Prevention in small businesses and micro-enterprises.	
UC0233_2 (complete)	To handle computer applications in the managing of information and documentation.	
<b>3.- Complimentary: Those not compulsory for the development of the activity but useful to know</b>		
UC1788_3	To plan efforts and activities in small businesses or micro-enterprises.	
UC1789_3	To manage the daily business activity and resources in small businesses or - micro enterprises	
UC1790_3	To market with the products and services in small companies or micro-enterprises.	
UC1791_3	To do administrative and financial dealings of the small companies or micro-enterprises	

Table 4 New professional competences for collection of lost fishing gear – Ship owner.

ECONOMIC ACTIVITY		2.- Lost gear collection
JOB POSITION		2.- Captain
<b>GENERAL COMPETENCE</b>		
To control and monitor the environment, respecting the current regulations, making control tests and monitoring of the natural media, surveilling the waste management.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC0083_3	To control and monitor the natural spaces and its public use.	
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>		
UC0806_3 (partial)	To develop training programs on environmental education and foster educational processes.	

<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.

**Table 5 New professional competences for the collection of lost fishing gear – Captain.**

<b>ECONOMIC ACTIVITY</b>	<b>2.-Lost gear collection</b>
<b>JOB POSITION</b>	<b>3.- Ship's Engineer</b>
<b>GENERAL COMPETENCE</b>	
To control and monitor the environment, respecting the current regulations, by means of control tests and monitoring of the natural media, surveilling the waste management.	
<b>SPECIFIC COMPETENCES</b>	
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>	
UC0083_3	To control and monitor the natural spaces and its public use.
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>	
UC0806_3 (partial)	To develop training programs on environmental education and foster educational processes.
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.

**Table 6 New professional competences for the collection of lost fishing gear – Ship's Engineer.**

#### 4.3 New professional competences for litter collection.

<b>ECONOMIC ACTIVITY</b>	<b>3.- Marine litter collection</b>
<b>JOB POSITION</b>	<b>1.- Ship owner</b>
<b>GENERAL COMPETENCE</b>	
To manage business initiatives of small businesses or micro-enterprises, as well as the implementation and planning of business area strategies, programming the activities, managing the persons, organizing and controlling material resources, the financial and economic operations and developing the marketing and selling of the products and services, by using the telematics and computing media, managing with quality and environmental protection criteria, everything assuring the risk prevention and using consultancy services when the complexity of the activity requires it, in order to achieve the company goals and the fulfilments of the current regulations	
<b>SPECIFIC COMPETENCES</b>	
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>	
UC0233_2 (partial)	To handle computer applications in the managing of information and documentation.
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>	
UC1792_2	To manage the risk Prevention in small businesses.
UC0233_2 (complete)	To handle computer applications in the managing of information and documentation.

<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC1788_3	To plan efforts and activities in small businesses or micro-enterprises.
UC1789_3	To manage the daily business activity and resources in small businesses or -micro enterprises.
UC1790_3	To market with the products and services in small companies or micro-enterprises
UC1791_3	To do administrative and financial dealings of the small companies or micro-enterprises

**Table 7 New professional competences for litter collection – Ship owner.**

<b>ECONOMIC ACTIVITY</b>	<b>3.- Marine litter collection</b>
<b>JOB POSITION</b>	<b>2.- Captain</b>
<b>GENERAL COMPETENCE</b>	
To control and monitor the environment, respecting the current regulations, making control tests and monitoring of the natural media, surveilling the waste management.	
<b>SPECIFIC COMPETENCES</b>	
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>	
UC0083_3	To control and monitor the natural spaces and its public use.
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>	
UC0806_3 (partial)	To develop training programs on environmental education and foster educational processes.
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.

**Table 8 New professional competences for litter collection – Captain.**

<b>ECONOMIC ACTIVITY</b>	<b>3.- Marine litter collection</b>
<b>JOB POSITION</b>	<b>3.- Ship's Engineer</b>
<b>GENERAL COMPETENCE</b>	
To control and monitor the environment, respecting the current regulations, making control tests and monitoring of the natural media, surveilling the waste management.	
<b>SPECIFIC COMPETENCES</b>	
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>	
UC0083_3	To control and monitor the natural spaces and its public use.
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>	
UC0806_3 (partial)	To develop training programs on environmental education and foster educational processes.
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.

**Table 9 New professional competences for litter collection –Ship's Engineer.**

#### 4.4 New professional competences for marine data collection and marine ecosystems monitoring.

<b>ECONOMIC ACTIVITY</b>		<b>4.- Environmental parameters monitoring</b>
<b>JOB POSITION</b>		<b>1.- Ship owner</b>
<b>GENERAL COMPETENCE</b>		
To manage business initiatives of small businesses or micro-enterprises, as well as the implementation and planning of business area strategies, programming the activities, managing the persons, organizing and controlling material resources, the financial and economic operations and developing the marketing and selling of the products and services, by using the telematics and computing media, managing with quality and environmental protection criteria, everything assuring the risk prevention and using consultancy services when the complexity of the activity requires it, in order to achieve the company goals and the fulfilments of the current regulations.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC0233_2 (partial)	To handle computer applications in the managing of information and documentation.	
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>		
UC1792_2	To manage the risk Prevention in small businesses.	
UC0233_2 (complete)	To handle computer applications in the managing of information and documentation.	
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>		
UC1788_3	To plan efforts and activities in small businesses or micro-enterprises.	
UC1789_3	To manage the daily business activity and resources in small businesses or - micro enterprises.	
UC1790_3	To market with the products and services in small companies or micro-enterprises.	
UC1791_3	To do administrative and financial dealings of the small companies or micro-enterprises.	

**Table 10 New professional competences for marine data collection and marine ecosystems monitoring – Ship owner.**

<b>ECONOMIC ACTIVITY</b>		<b>4.- Environmental parameters monitoring</b>
<b>JOB POSITION</b>		<b>2.- Captain</b>
<b>GENERAL COMPETENCE</b>		
To control and monitor the environment, respecting the current regulations, making control tests and monitoring of the natural media, surveilling the waste management.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC0083_3	To control and monitor the natural spaces and its public use.	
<b>2 Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>		
UC0806_3 (partial)	To develop training programs on environmental education and foster educational processes.	



<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>	
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.

**Table 11 New professional competences for marine data collection and marine ecosystems monitoring – Captain.**

<b>ECONOMIC ACTIVITY</b>		<b>4.- Environmental parameters monitoring</b>
<b>JOB POSITION</b>		<b>3.- Ship’s Engineer</b>
<b>GENERAL COMPETENCE</b>		
To control and monitor the environment, respecting the current regulations, making control tests and monitoring of the natural media, surveilling the waste management.		
<b>SPECIFIC COMPETENCES</b>		
<b>1.- Mandatory (Before starting): Compulsory manage them before starting the activity</b>		
UC0083_3	To control and monitor the natural spaces and its public use.	
<b>2.- Mandatory (In the 1st year): Compulsory to manage them during the first year of the development of the activity</b>		
UC0806_3 (partial)	To develop training programs on environmental education and foster educational processes.	
<b>3.- Complementary: Those not compulsory for the development of the activity but useful to know</b>		
UC0806_3 (complete)	To develop training programs on environmental education and foster educational processes.	

**Table 12 New professional competences for marine data collection and marine ecosystems monitoring–Ship’s Engineer.**

#### 4.5 Summary of competences.

Activity other than fishing	Priority	Specific competence for workers		
		Ship owner	Captain	Ship’s Engineer
Tourism: leisure and tourism services. Recreational fishing and scuba diving.	Mandatory (before starting)	UC0233_2	UC1637_2 - (Partial) UC0272_2 UC0255_1 - (Partial)	UC0272_2 UC1208_1 UC0806_3 - (Partial)
	Mandatory (in the 1st year)	UC1057_2 UC1792_2 UC0266_3 UC1075_3 UC2005_2	UC1637_2 - (Full) UC1057_2 UC2005_2 - (Partial) UC0256_1 - (Partial) UC0257_1 - (Partial) UC0258_1 - (Partial) UC1209_1 UC1208_1 UC0806_3 - (Partial)	UC1057_2 UC0806_3 - (Partial) UC1209_1 UC0083_3 - (Partial)
	Complementary.	UC1788_3 UC1789_3 UC1790_3 UC1791_3 UC1070_3	UC1639_2 UC1638_2 UC1070_3 UC0255_1 - (Full) UC0806_3 - (Full) UC0256_1 - (Full) UC0257_1 - (Full) UC0258_1 - (Full)	UC0806_3 - (Full) UC0083_3 - (Full)
Marine litter collection	Mandatory (before starting)	UC0233_2 - (Partial)	UC0083_3	UC0083_3
	Mandatory (in the 1st year)	UC1792_2 UC0233_2 - (Full)	UC0806_3 - (Partial)	UC0806_3 - (Partial)

	Complementary.	UC1788_3 UC1789_3 UC1790_3 UC1791_3	UC0806_3 - (Full)	UC0806_3 - (Full)
Lost gear collection	Mandatory (before starting)	UC0233_2 - (Partial)	UC0083_3	UC0083_3
	Mandatory (in the 1st year)	UC1792_2 UC0233_2 - (Full)	UC0806_3 - (Partial)	UC0806_3 - (Partial)
	Complementary.	UC1788_3 UC1789_3 UC1790_3 UC1791_3	UC0806_3 - (Full)	UC0806_3 - (Full)
Environmental parameters monitoring	Mandatory (before starting)	UC0233_2 - (Partial)	UC0083_3	UC0083_3
	Mandatory (in the 1st year)	UC1792_2 UC0233_2 - (Full)	UC0806_3 - (Partial)	UC0806_3 - (Partial)
	Complementary.	UC1788_3 UC1789_3 UC1790_3 UC1791_3	UC0806_3 - (Full)	UC0806_3 - (Full)

**Table 13 Summary of competences**

## 5 Conclusions.

The reduction of the EU fishing fleet in order to diminish the fishing activity, leads to the need of professional re-orientation of fishermen to carry out in board of the reassigned vessels activities other than fishing. In the framework of the MEDGuard project the fishing vessel “Ciudad de Cartagena”, a former 24 m. length, built in 1996 and retired in 2014 will perform to examine and demonstrate the feasibility and economic viability of substitutive activities than fishing (Leisure and Tourism services, Lost gear collection, Marine litter collection and Environmental parameters monitoring).

In this case, the professional profiles that need re-orientation are: (A) Ship owner, (B) Captain and (C) Ship’s Engineer. Twelve General Competences have been defined to carry out the four activities other than fishing to be made by the three professional profiles (see section 4). Each of these General Competences has been broken down into different Specific Competences (see summary in section 4.5). To acquire each of these 12 competences it has been determined a training itinerary for each profile and substitutive activity detailed in Deliverable “D2.1 Catalogue with the training itineraries for the professional re-orientation of fishermen and ship-owners”.

In the same way, Deliverable “D.2.3 Planning and programming training actions directed to fishermen”, planned for month 12 of the project, it will be able to find the planning for training actions to be done by the crew of the “Ciudad de Cartagena” in order to fulfil the sea campaigns that will show the feasibility for the professional re-orientation of the fishermen for activities other than fishing.

## 6 Attached files.

Annex	Description	File name
Annex 1	Competence Units. Information from the data base from INCUAL.	MEDGuard_D2.2 Annex I - Unidades de competencia. Información de la base de datos del INCUAL_Sp.rar
Annex 2	Training actions. Information from the data base from INCUAL.	MEDGuard_D2.2 Annex II – Acciones Formativas. Información de la base de datos del INCUAL_Sp.rar

**Table 14 List of attachments**