



#### Training and Cooperation Activity (TCA) Agroecology, technical and educational approach

CEZ - Bergerie nationale Rambouillet, France



# CONSELLERIA D'EDUCACIÓ, INVESTIGACIÓ, CULTURA I ESPORT





MINISTERIO DE EDUCACIÓN Y FORMACIÓN PROFESIONAL













#### **CONFERENCE PARTICIPANT**

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**FACILITIES** 

**INNOVATION** 

NEW ERASMUS PROJECTS IN THE FUTURE...



Carmina M. Arenes.

Dept. of Agriculture

# Orhuela



Miguel Hernández



### https://www.orihuelaturistica.es

## 1 THE CITY OF ORIHUELA (ALICANTE) SPAIN

**Orihuela** is a monumental city, with extraordinary natural beaches and surrounded by majestic mountains that have been granted environmental protection. However, one of its greatest assets is its gastronomy, based mainly on products grown in the area.

#### MONUMENTS: PALACES, MUSEUMS, CATHEDRAL, AND THE INTERNATIONAL POET "MIGUEL HERNÁNDEZ"



BEACHES: SUN, ROUTES, CULTURAL EVENTS, WATER ACTIVITIES, SHOPPING CENTRE AND RESTAURANTS



MOUNTAIN LANDSCAPES, TRADITIONAL GASTRONOMY, RURAL AND FORESTRY ENVIRONMEN



#### Europe's second biggest palm oasis



Phoenix dactilyfera



#### THE AREA WHERE THE SCHOOL IS LOCATED



"The Palmeral" in Orihuela, whose recognition as a protected space began in 1963 under the denomination of *Paraje Pintoresco* (Picturesque Site).

It is currently protected as an Asset of Cultural Interest by the Spanish Historical Heritage Law, aimed at preserving its environmental, cultural and landscape values. This space is an ideal environment for a variety of activities, mainly those related to the natural environment, as well as traditional agricultural activities. The City Council promotes, among other actions, the international painting competition, the implementation of traditional crops, the celebration of World Environment Day, the opening of the interpretation center, the Palmeralfest, photography competitions...



https://www.palmeraldeorihuela.com/



#### 3

#### **BRIEF HISTORY OF THE EDUCATIONAL CENTRE**

The plot where the I.E.S. El Palmeral de Orihuela is located has an area of 30.902 m<sup>2.</sup>

It was in 1955 that the studies of the Palmeral centre began.

Initially, the knowledge was dedicated to agriculture, as this was the predominant economic sector in the Orihuela area at that time.



Orihuela agricultural landscape



- O Parking access
- 1 Electrical and construcction building
- 2 Main building: administration, staff room
- 3 Complulsory education building
- Workshops automotive
- 5 Workshops construction

- 6 Canteen
- 7 Multi-purpose room
- 8 Physical Education facilities
- 9 Agriculture classroom and Workshops
- 10 Agriculture outside facilities

#### 4 THE CENTRE'S EDUCATIONAL OFFER

The Palmeral High School has around 1100 students, 150 teachers, 3 custodians and 3 administratives.









## **COMPULSARY EDUCATION**

AGE 12-16 years old

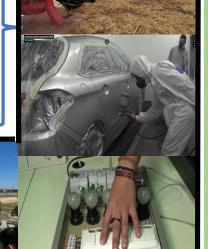
## **ESO - COMPULSORY SECONDARY EDUCATION**

- •First Cycle: 1 st grade, 2nd grade and 3rd grade
- •Second Cycle: 4th grade: with a preparatory character, either towards the Baccalaureate (if they opt for Academic Education) or towards Vocational Training (if they opt for Applied Education).

## FIRST LEVEL OF VOCATIONAL TRAINING

Agricultural and Livestock Activities
Electricity and Electronics
Vehicle Maintenance
Building Renovation and Maintenance









## THE CENTRE'S EDUCATIONAL OFFER

## NON COMPULSARY EDUCATION

## SECOND LEVEL OF VOCATIONAL TRAINING

- Bodywork
- Electromechanics of Motor Vehicles
- Electrical and Automatic Installations
- Telecommunications Installations
- Interior Design, Decoration and Refurbishment
- Agro-ecological Production

## THIRD LEVEL OF VOCATIONAL TRAINING

- Prevention of Occupational Risks
- Automotive
- Forestry and Natural Environment Management
- Landscaping and Rural Environment
- Building Projects
- Electrotechnical and Automated Systems
- Telecommunications and Computer Systems
- Physical Conditioning

## AGE from 16 years old

## **BACCALAUREATE**

Modalities offered

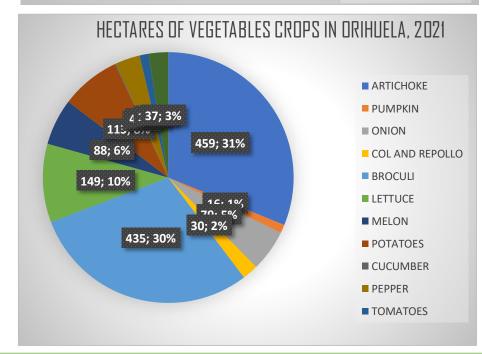
ARTS

HUMANITIES AND SOCIAL SCIENCES SCIENCES AND TECHNOLOGY



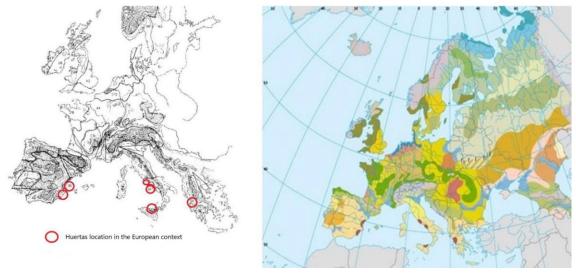


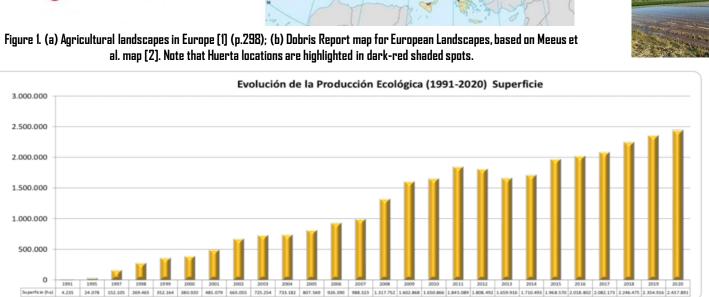
#### HECTARES OF FRUIT CROPS IN ORIHUELA, 2021 APPLE TREE MEMBRILLERO ■ NISPERO PLUM TREE APRICOT TREE PALM TREE LEMON TREE. ALGARROBE TREE 7257 ■ FIG TREE PEACH TREE PLANT NURSERY GRAPES FOR WINE POMEGRANATE



#### THE IMPORTANCE OF AGRICULTURE IN ORIHUELA

European Environment Agency in 2005, highlighting its importance and qualifying it as a "Landscape that is a physical expression of the creations, knowledge and practices of traditional agricultural culture". Landscape that is a physical expression of the creations, knowledge and practices of traditional agricultural culture".







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LANDSCAPING AND RURAL ENVIRONMENT FOREST MANAGEMENT AND NATURAL ENVIRONMENT AGROECOLOGY

AGRICULTURAL AND LIVESTOCK **ACTIVITIES** 



Dept. of Agriculture

**FACILITIES** 











GREENHOUSE

7 COMPOST AREA

POULTRY HOUSE

AGRICULTURAL PARCEL

10 DEPARTMENT AND LIBRARY

























#### THE TEACHING TEAM (15 TEACHERS)

We have a wide professional experience, not only in teaching, but also in the private sector in companies related to fruit and vegetable production, control and monitoring of pests and diseases, employment workshops related to gardening, technical advice in ecological farms, topographical studies, employment agents, quality management, etc... which allows a complete transfer of knowledge at the time of teaching practice.

#### DEPARTMENT OF EXCELLENCE

The Palmeral Institute is a centre of excellence, a distinction awarded on 24 May 2021 to the Department of Agriculture. The facilities, the prestige of the years of teaching experience as well as the action plan presented were the reasons for this recognition. This merit implies the implementation of a quality system.

# FOREST MANAGEMENT AND NATURAL ENVIRONMENT

#### **DEPARTMENT OF AGRICULTURE**



#### Carmina M. Arenes

#### DRONES IN THE CLASSROOM 4.0: FROM THE CURRICULUM TO THE PROFESSIONAL FIELD



The Department of Agriculture has organized courses and talks on knowledge of software and flight techniques for handling drones aimed at applications in thermal and photographic studies of crops, monitoring of pests, environmental actions, forest management, etc. All of this with the students of the higher level and the intermediate level.





MONITORING OF NESTING IN NATURAL PARADISES has won the first national prize for Research and Technological Innovation. March, 2023

#### ERASMUS-EDU-2022-PEX-COVE (Partnership for Excellence - Centres of Vocational Excellence)

TEAM#UP's main goal is to mobilize extensive knowledge and skills in the field of ecological restoration (ER) to fill gaps in green vocational education training (VET).



- (1) multifunctional and sustainable land use in agricultural systems
- (2) restoration of old infrastructure, ecological compensation and landscaping
- (3) restoration across urban and rural landscapes
- (4) forest restoration and disaster risk management





Almacil

Desenvolupament Rural del Camp d'Elx

ecomercat

#### THE BEGINNING OF AN "EXCELLENT" COLLABORATION







PRODUCT DELIVERY





**ELABORATED DISHES** 





**POLASAL** 





Menú Sostenible productos ecológicos y Km.O Viernes 10 de marzo de 2023 Colabora:











Thanks to this action, the slogan "from the Farm to Fork" is highlighted, the training practices developed in both training cycles are made visible and the possibility of developing innovative and sustainable projects between both centres of educational excellence is opened up.



**HARVEST** 





#### SUSTAINABLE MENU

By students of The Palmeral High School High School Cap de l'Aljub de Santa Pola Restaurant





#### Carmina M. Arenes. Dept. of Agriculture



#### COLLABORATION WITH AGAMUR: RECOVERY OF A BREED IN DANGER OF EXTINCTION

6



INCUBATOR















**BIRTH** 

TO THE HEN HOUSE

which is in danger of extinction.

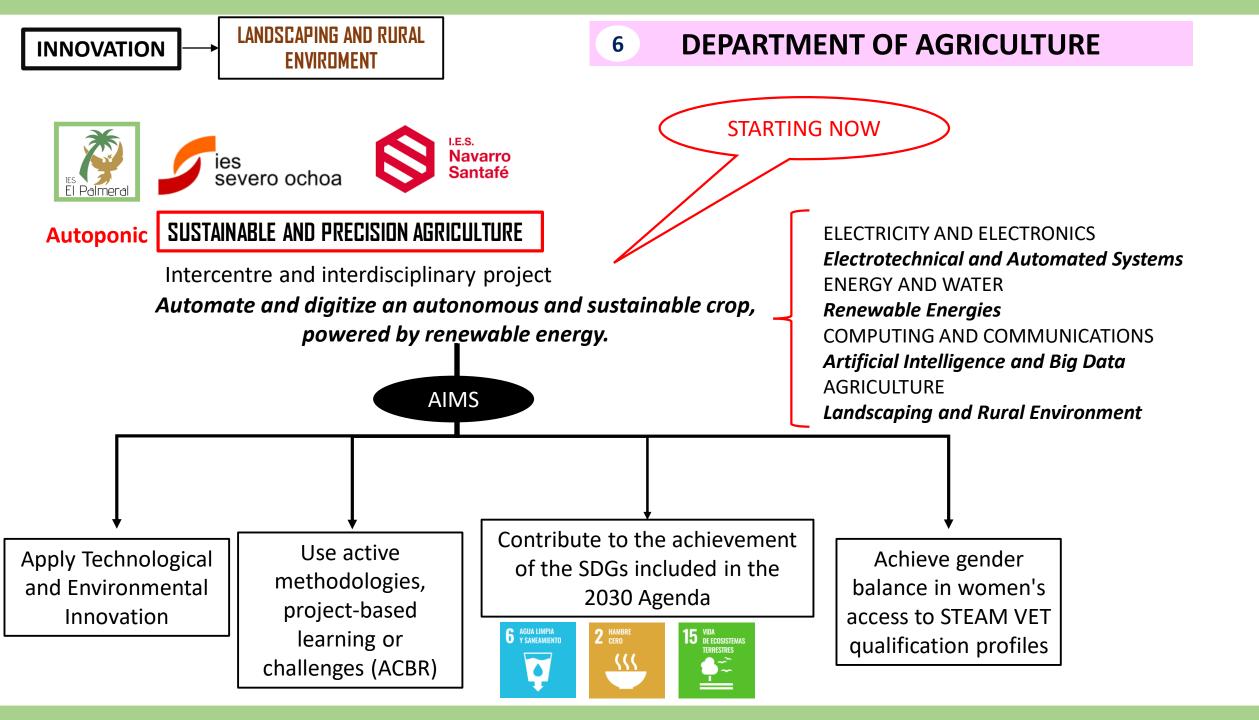


The Murcian Hen, the native poultry breed of the Region of Murcia,

#### **ANALYSIS OF THE** RESULTS

By students of The Palmeral High School And professionals of the Agamur association





**INNOVATION** 

#### OTHER ACCIONS...

**COLLABORATIONS WITH MIGUEL HERNÁNDEZ UNIVERSITY** 

ERASMUS + PROJECT "2020-1-ES01-KA201-082999





DEVELOPMENT OF PRACTICES IN THE PROFESSIONAL FIELD OF LIVESTOCK AT UMH



## NEW ERASMUS PROJECTS IN THE FUTURE...

#### **FUTURE PARTNERSHIPS**

From the High School "El Palmeral" in Orihuela (Spain) we would be delighted to establish contacts with other European educational centres.

Our aim is to build bridges of collaboration in future European projects that enrich all students: under the premise of broadening the knowledge of other languages, it would be possible to convey transversal subjects such as SUSTAINABILITY and SOLIDARITY.

For all these reasons, we would like to show you our predisposition and contact details to work as a team in future ERASMUS projects.



Carmina M. Arenes. *Dept. of Agriculture* 

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THANK YOU FOR YOUR ATTENTION