

Instituto Pirenaico de Ecología - CSIC

Jaca-Zaragoza

www.ipe.csic.es

Centro de RRNN fundado en 1942

Dos sedes: Jaca y Zaragoza

PERSONAL: ~90

22 científicos en plantilla, incluidos 2 ARAID

OBJETIVO

Contribuir a la comprensión del **funcionamiento y la estructura de los sistemas terrestres** y los organismos que allí habitan. Investigar los cambios que ocurren en estos sistemas como consecuencia del **cambio global**, incluyendo la variabilidad climática y las actividades humanas

VALOR DE LA INVESTIGACIÓN

Proporcionar las bases científicas para la **conservación, gestión y restauración** de los espacios y los recursos naturales, así como para la **adaptación y mitigación del cambio climático**.



**Paleoambientes
Cuaternarios y
Cambio Global**

**Conservación de
Ecosistemas
Naturales**

**Hidrología
Ambiental e
Interacciones
con el Clima y
las Actividades
humanas**

**Restauración
Ecológica**

ESTRATEGIA CIENTÍFICA 2022-2025

OBJETIVOS



Generar
conocimiento

- Funcionamiento de ecosistemas y procesos ambientales
- Entender el cambio global

- Gestión, conservación y restauración ambiental
- Espacios Naturales Protegidos
- Adaptación al Cambio Global

Transferencia



FINANCIACIÓN

- 9 proyectos europeos
- 20 proyectos nacionales
- 3 regionales (grupos GA)



Divulgación

- Educación y concienciación de la problemática ambiental
- Comunicación científica



Cluster 5

CLIMATE, ENERGY & MOBILITY

**Paleoambientes
Cuaternarios y
Cambio Global**

**Hidrología
Ambiental e
Interacciones
con el Clima y
las Actividades
humanas**

Strategic Plan

IMPACT - Transition to a climate-neutral society enabled through **advanced climate science** and responses for climate mitigation and adaptation

Work Programme

DESTINATION – Climate sciences and responses for the transformation towards climate neutrality

- Estudio del **cambio climático**, desde el pasado a la actualidad y las predicciones
- Eventos extremos: **índice SPEI**
- **Hidrología, criosfera, erosión**
- **Aerosoles atmosféricos**
- **Transferencia:** IPCC, Consejo Asesor del Clima del GA, AEMET

En colaboración con **EEAD-CSIC**





Cluster 6

**FOOD, BIOECONOMY,
NATURAL RESOURCES,
AGRICULTURE &
ENVIRONMENT**

**Conservación
de Ecosistemas
Naturales**

**Restauración
Ecológica**

Cluster 6 will support in particular the following two Horizon E Impact Areas associated to them³¹

KEY STRATEGIC ORIENTATIONS FOR R&I

KSO B: Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources

IMPACT AREAS

Enhancing ecosystems and biodiversity on land and in waters

Clean and healthy air, water and soil

Sustainable food systems from farm to fork on land and sea

EXPECTED IMPACTS

27. Climate neutrality and adaptation to climate change

28. Preservation and restoration of biodiversity and ecosystems

29. Sustainable and circular management of natural resources; tackling pollution; bioeconomy

30. Food and nutrition security for all from sustainable food systems from farm to fork

Cluster 6

FOOD, BIOECONOMY, NATURAL RESOURCES, AGRICULTURE & ENVIRONMENT

Work Programme

• Destination: Land, oceans and water for climate action

• Destination: Biodiversity and ecosystem services

• Destination: Circular economy and bioeconomy sectors
• Destination: Clean environment and zero pollution

• Destination: Fair, healthy and environmentally-friendly food systems from primary production to consumption

Work Programme

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- Impacto del cambio climático en ecosistemas de montaña, región mediterránea, zonas áridas, pastos, bosques.
- Resiliencia de recursos forestales



Work Programme

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- Seguimientos poblacionales de **especies amenazadas**
- Valor y funciones de la **biodiversidad** en los ecosistemas.
- Cuantificación de **servicios ecosistémicos**
- **Restauración ecológica** de ecosistemas terrestres y acuáticos
- **Herbario JACA** y otras colecciones
- **PTI ECOBIODIV** – Patronatos, colaboración gestores
- **Ciencia ciudadana**



Work Programme

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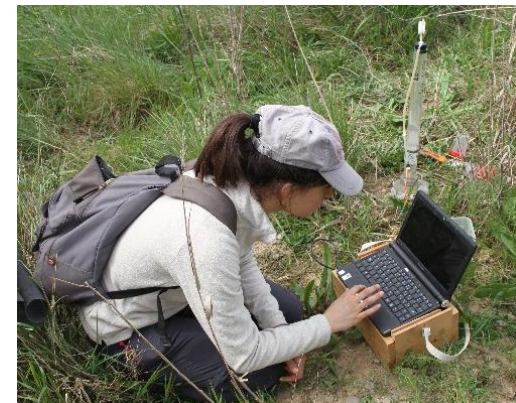
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• Destination: Fair, healthy and environmentally-friendly food systems from primary production to consumption

- **Toxicología ambiental:** contaminación de medios terrestres y acuáticos
- Sistemas ecológicos de **tratamiento de aguas residuales y suelos contaminados**



Work Programme

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- **Ecosistemas pastorales sostenibles:** indicadores, funcionamiento, restauración
- Impacto **especies invasoras:** por ejemplo, mejillón cebra en regadíos



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