

PROYECTO NUCIF  
Conferencia de lanzamiento

**El Knowledge Hub**  
MEDIO AMBIENTE Y CAMBIO CLIMÁTICO



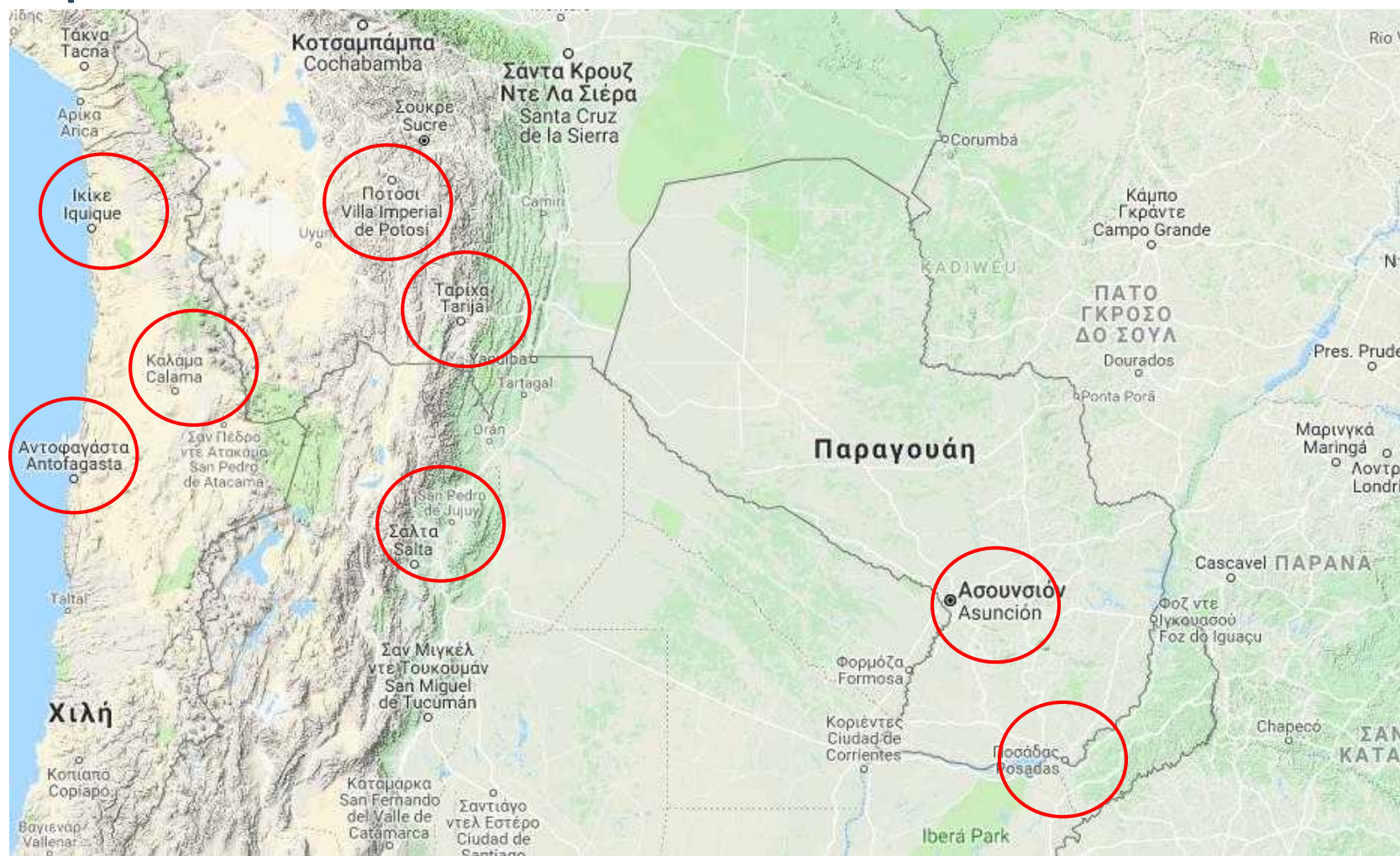
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## El área geográfica de referencia

- Descripción de la área geográfica donde el KH esta situado
  - Description of the geographical area where the KH is located
- Descripción de los proyectos en curso y ya realizados
  - Description of the projects in progress and already carried out

# Μαπα del territorio



# Descripción de los proyectos en curso y ya realizados

- Several high quality research works have been carried out on environmental issues related to:
  - Water quality
  - Biodiversity
  - Environmental services
  - Soil degradation
- The common issue underlying most of the research work:
  - Low dissemination
  - Restricted application of research findings
  - Lack of links with stakeholders and the economy

# Los problemas principales (datos diagnóstico)

## The main problems (diagnostic data)

- ✓ Loss of biodiversity, absence of records and of monitoring systems.
- ✓ Lack of training and educational awareness programs on environmental issues.
- ✓ Tendency to increase global temperatures.
- ✓ Scarce allocation of economic resources by local and national governments.
- ✓ High rural out-migration of the indigenous native population.
- ✓ Lack of control from responsible institutions

# La experiencia del socio (indicar nombre partner europeo)

## The partner's experience (University of Patras)

- Water resources:
  - The European Water Framework Directive (WFD)
  - Monitoring Good Ecological Status (GES)
  - Monitoring Chemical Status
  - Monitoring water abstraction (especially from agriculture)
  - Agriculture and water resources (design, implement and monitor agri-environmental programmes for water resources)
  - Use of simulation software for nutrient and sediment transportation
  - Use of simulation models for farm water needs and Gross Nutrient Balances
  - Economics of water resources – water pricing – value of freshwater ecosystems

## The partner's experience (University of Patras)

- Soil resources:
  - The European Soil Data Centre (ESDAC)
  - Monitoring soil resources through ESDAC (stations, databases, results)
  - Agricultural policy for soil conservation
  - Soil erosion (water, wind, practices and cover factors)
  - GIS models for soil erosion and pan European soil erosion maps
  - Monitoring soil organic matter
- Biodiversity
  - The International Biodiversity Framework
  - The EU Birds Directive
  - The EU Habitats Directive
  - Monitoring Natura2000 sites
  - The Greek Natura2000 network
  - Economics of Ecosystem Services

# El Knowledge hub en Medio Ambiente y Cambio Climático

## - Universidades involucradas

(Universities involved)

### Prime partners

- Juan Misael Saracho
- Tomás Frías de Potosí
- ???

## - Ubicación

- Location

## - Especialización

- Education and Training
- Monitoring of Natural and Environmental Resources
- Dissemination of academic and general public knowledge
- Awareness raising activities



# El Knowledge hub en Medio Ambiente y Cambio Climático

## •Objetivos

(Objectives)

- Preparation of undergraduate, postgraduate and extension programs,
- Develop shared curricular models with participating universities,
- Promote training and research through the exchange of knowledge and cooperation with the Research Centers formed by the NUCIF.

## •Participantes

•???



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# El Knowledge hub en Medio Ambiente y Cambio Climático

- **Proyecto(s) en relación a los problemas del diagnóstico**

Project (s) in relation to diagnostic problems

- **Monitoring of water quality**
- **Study of the degree of surface and underground contamination of sanitary and mining waste**
- **Sanitation of the Guadalquivir River in the city of Tarija, Bolivia.**
- **Impact of the oil exploration activities on Tariquía National Flora and Fauna Reserve**
- **Reforestation in the biological reserve of the Sama mountain range, Tarija - Bolivia.**
- **Study of areas with capacity for the generation of renewable energy**



# El Knowledge hub en Medio Ambiente y Cambio Climático

## •Recursos (Humanos, financieros, equipo etc)

- Resources (Human, financial, equipment, etc.)

Human and financial resources through commitments to the NUCIF Project and additional funds from participating institutions

## Equipment (indicative list)

**Chemical equipment:** Breathmeter control systems, Total Organic Carbon (TOC) and OC Analyzer, Reagent kits, Analytical balance, pH meter, rain gauge, wind sensors, multiparameter probe (pH, temperatura, salinity, conductivity, dissolved oxygen, etc.)

**Monitoring equipment:** Desktop computer and tablets , Professional drone

**Software:** Life Cycle Assessment Software

Training, video conference and distant education equipment

# El Knowledge hub en Medio Ambiente y Cambio Climático

## • Los roles en la gestión del KH

- The roles in the management of KH
- **University of Patras – Greece:**
- Knowledge transfer on how EU organizes and delivers policies and monitoring frameworks for water and soil resources
- Technical issues on water resources monitoring
- Biodiversity (?)
- Ecosystem services (?)
- **Los socios de América Latina**
- To be agreed in Salta

## • Agenda de trabajo