

Centre for
Hydrographic
Studies

CEDEX

Centre for Studies and Experimentation in Public Works
Centre for Hydrographic Studies

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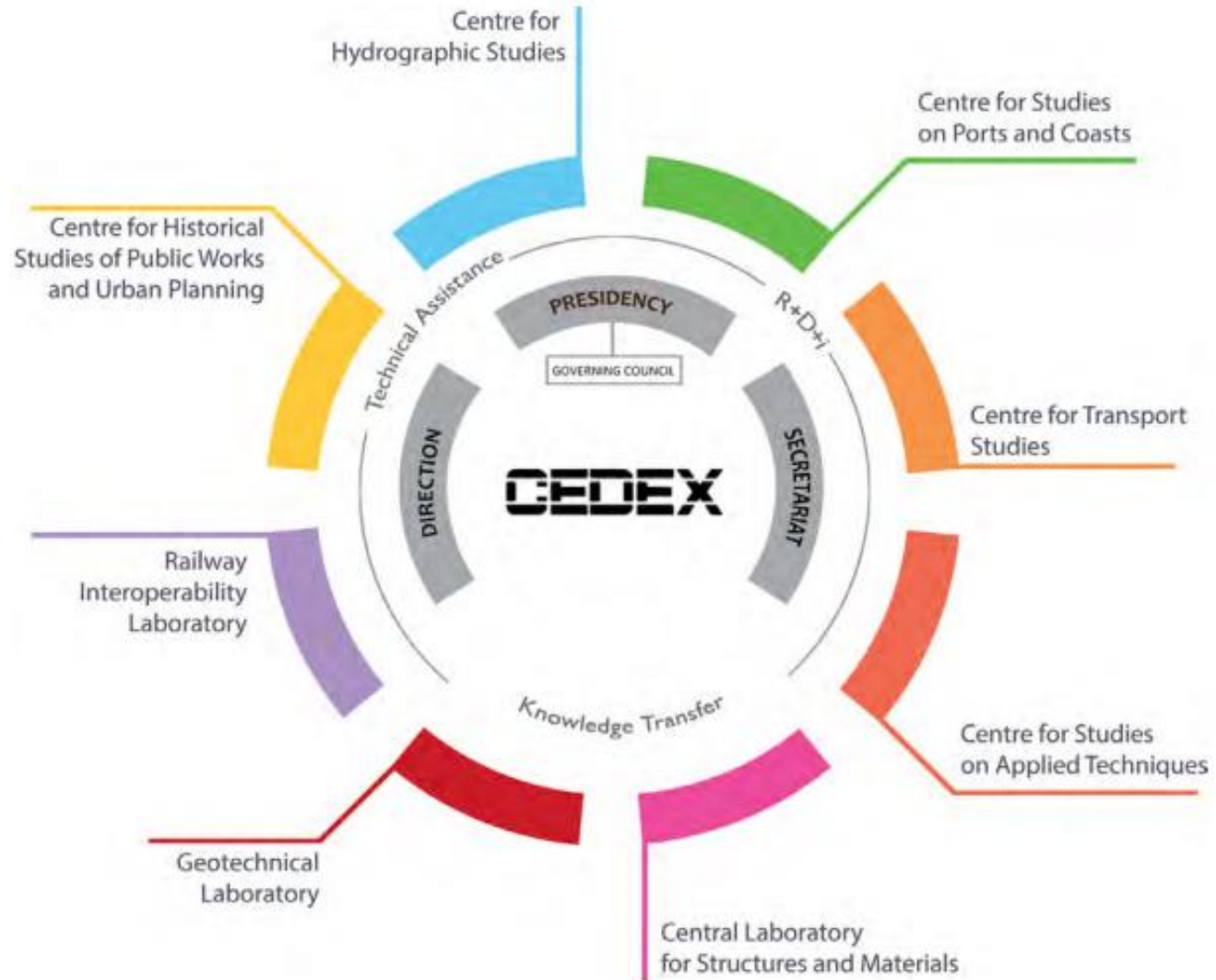


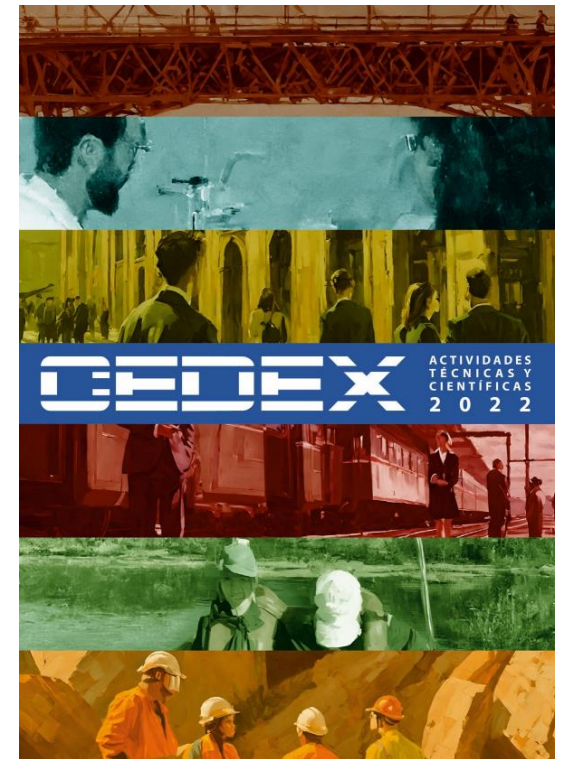
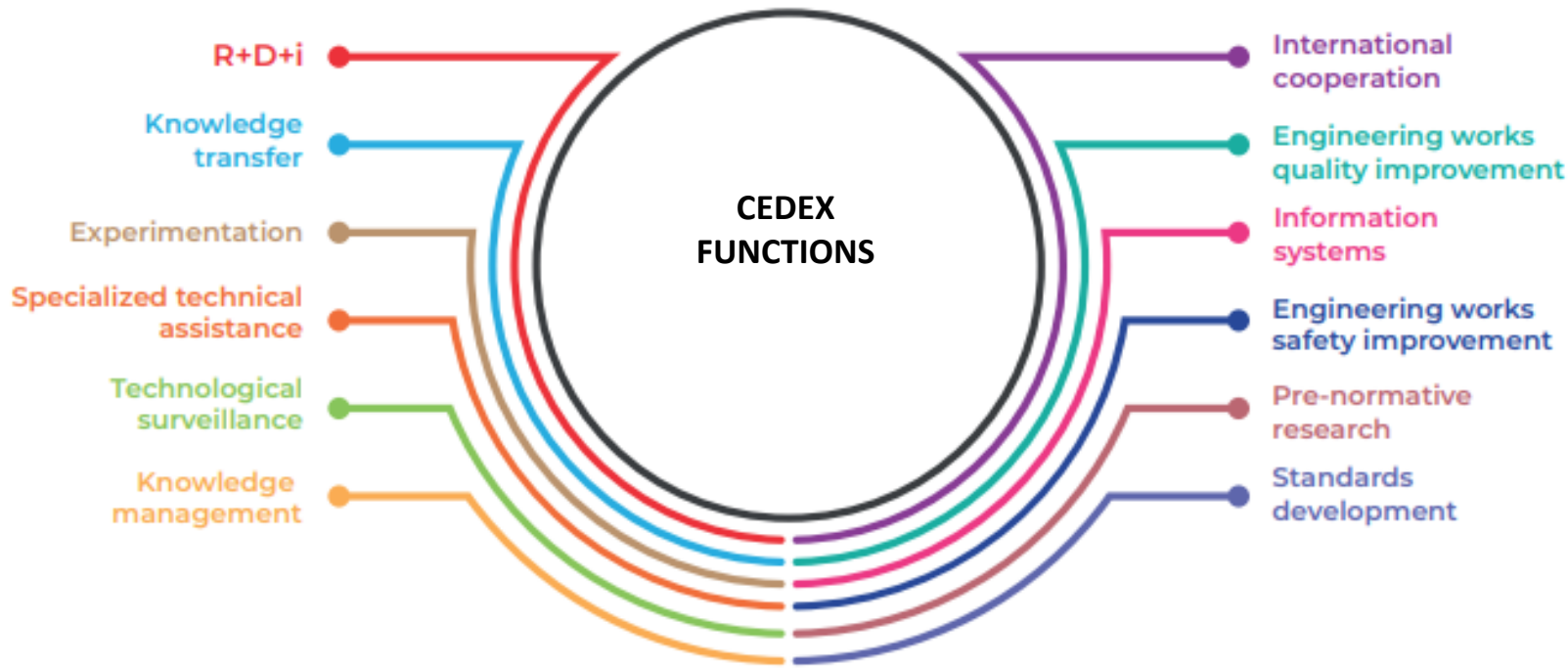
01.

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ORGANIZATIONAL STRUCTURE



Gauging yearbook

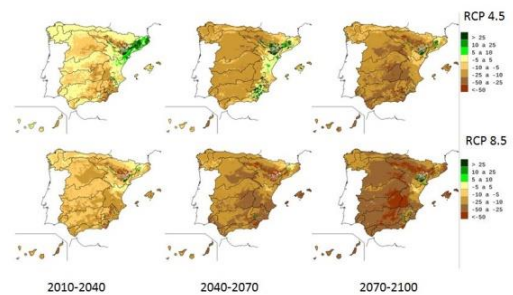
ANUARIO DE AFOROS 2018-2019



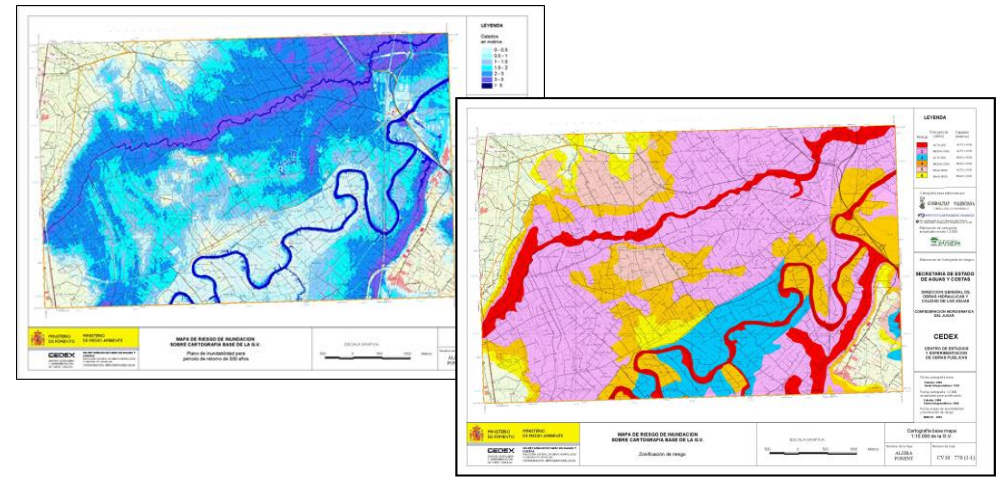
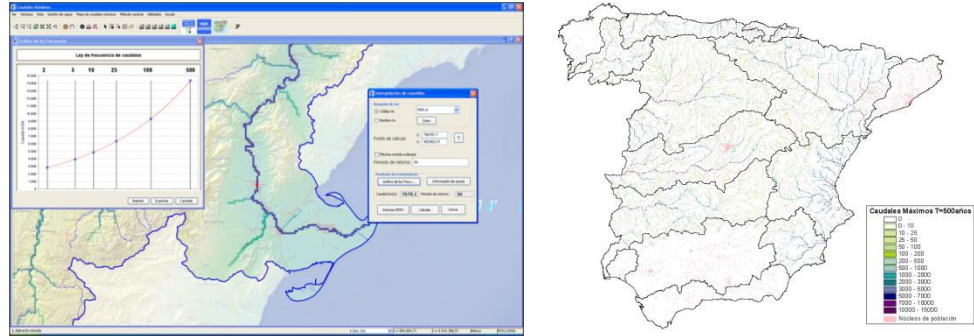
Map of maximum flows

Technical advice in the preparation of Flood Risk Management Plans

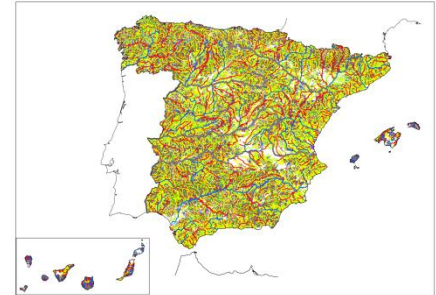
Climate change



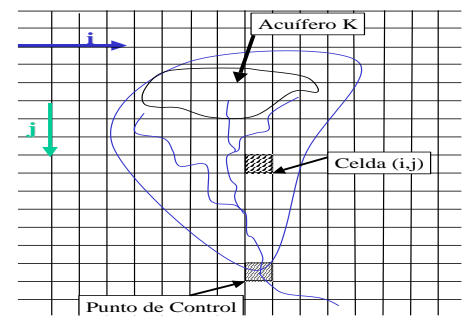
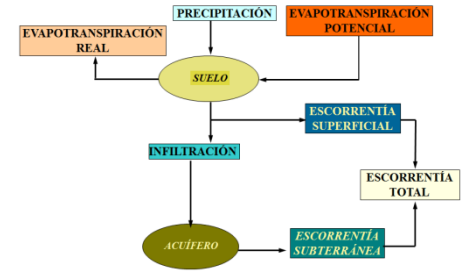
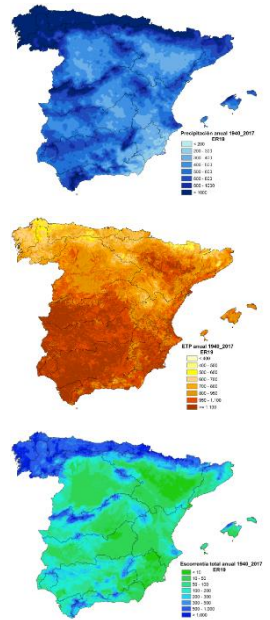
Floodwater and flood risk management



Hydrographic classification

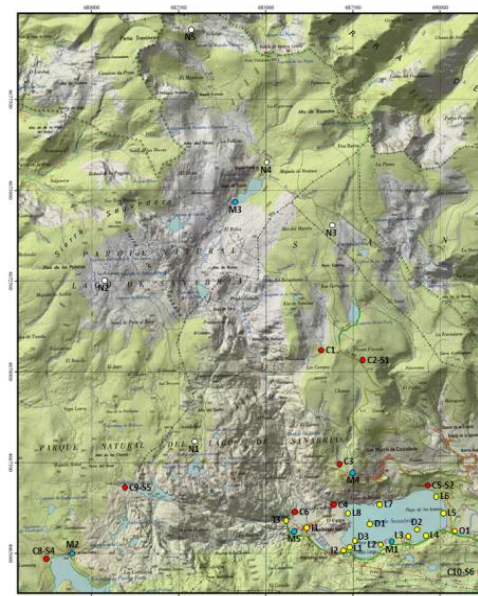


Water resources evaluation



Water resources evaluation

WATER ENVIRONMENT



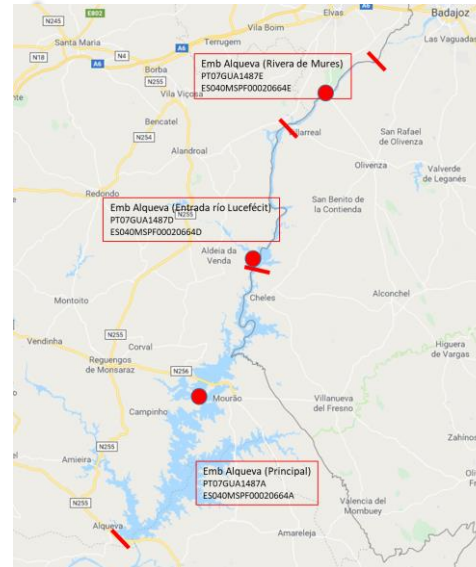
- L, D, L, O: Punto de muestreo en lago y río principal de entrada y salida
- C: Punto de muestreo en cuenca (modelo nutrientes)
- S: Punto de muestreo en suelos (Inviados + suelos)
- M: Estación meteorológica [ENDESA + CHD + Proyecto]
- N: Nivómetros (Red EHVH)



ALBUFEIRA. Program for monitoring and joint management of the water masses of the Spanish-Portuguese hydrographic basins



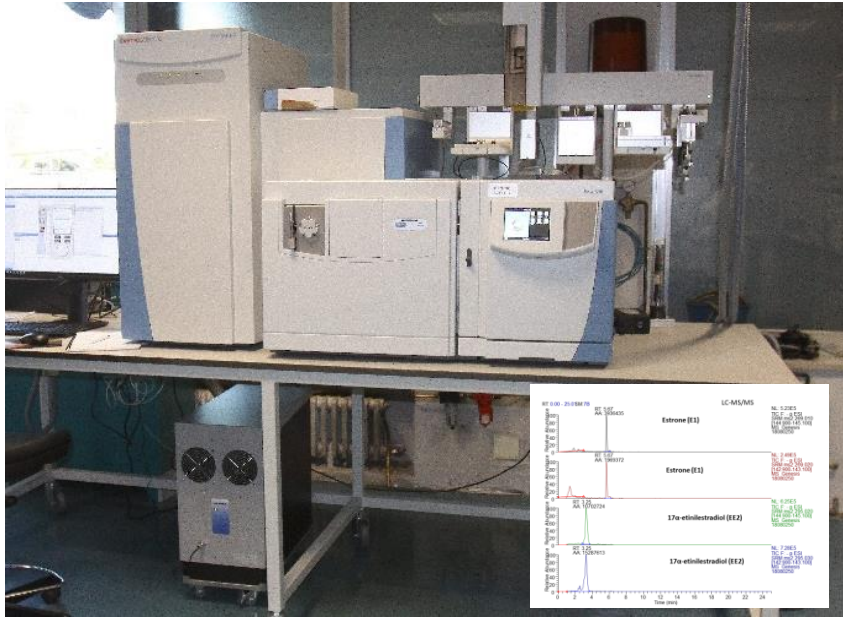
Sampling campaigns for biological indicators (zoobenthos, phytobenthos, phytoplankton, macrophytes and fish) and physical-chemistry in rivers, reservoirs and border estuaries, Spanish-Portuguese campaigns.



WATER QUALITY LABORATORY

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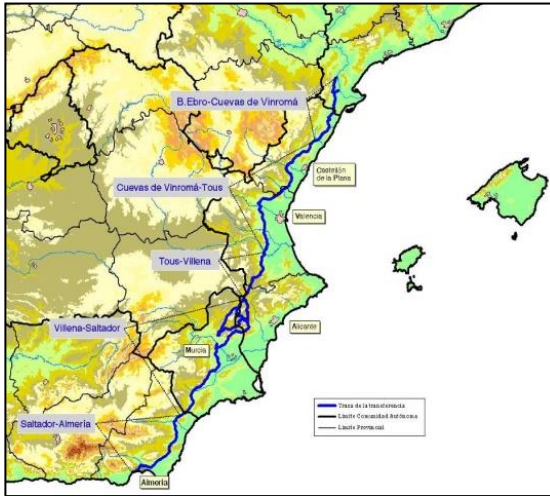
WATER TECHNOLOGY

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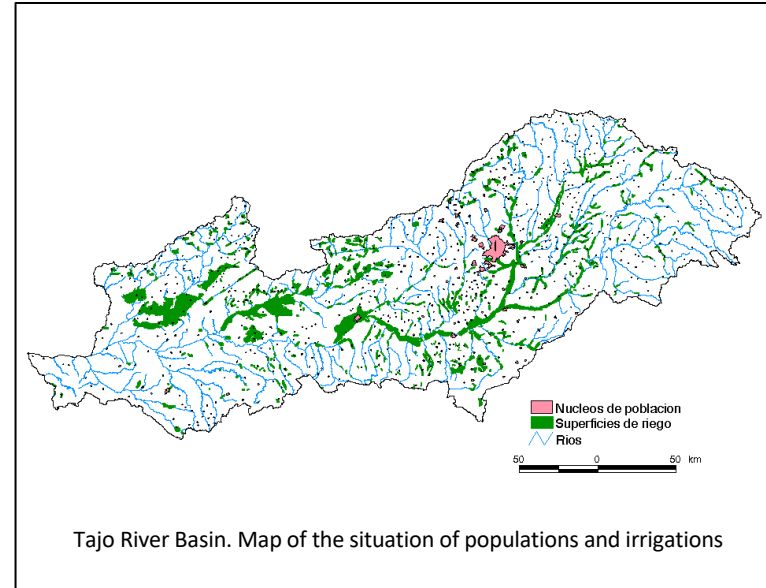
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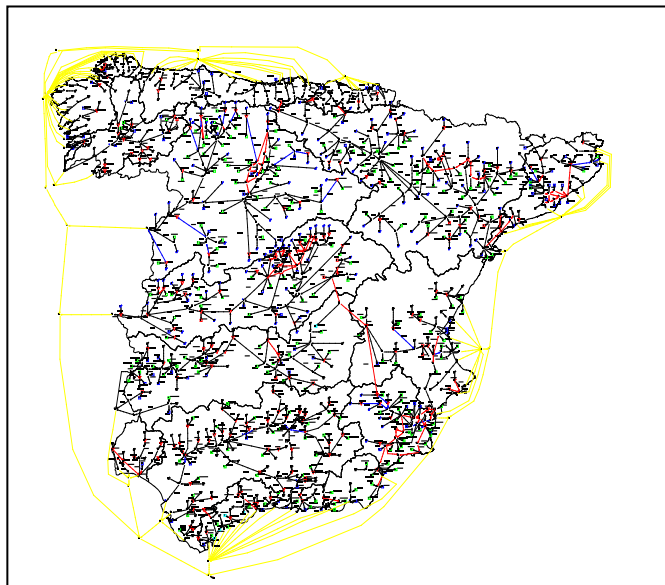
WATER RESOURCES PLANNING



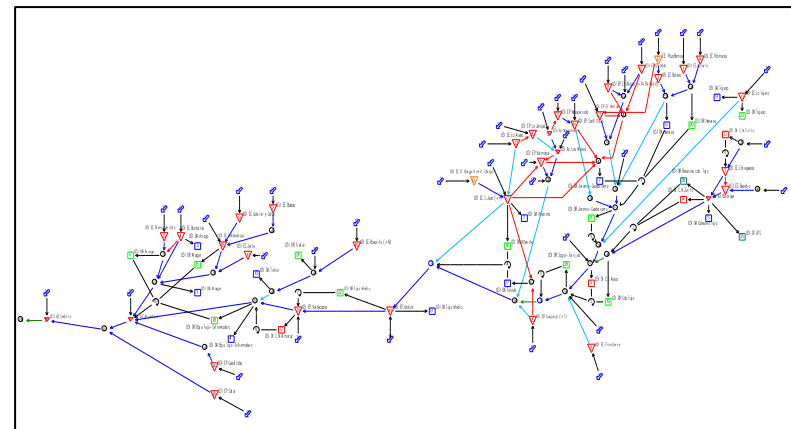
Works for the National Hydrological Plan



Tajo River Basin. Map of the situation of populations and irrigations



Water Resource Systems Modelling



HYDRAULICS LABORATORY

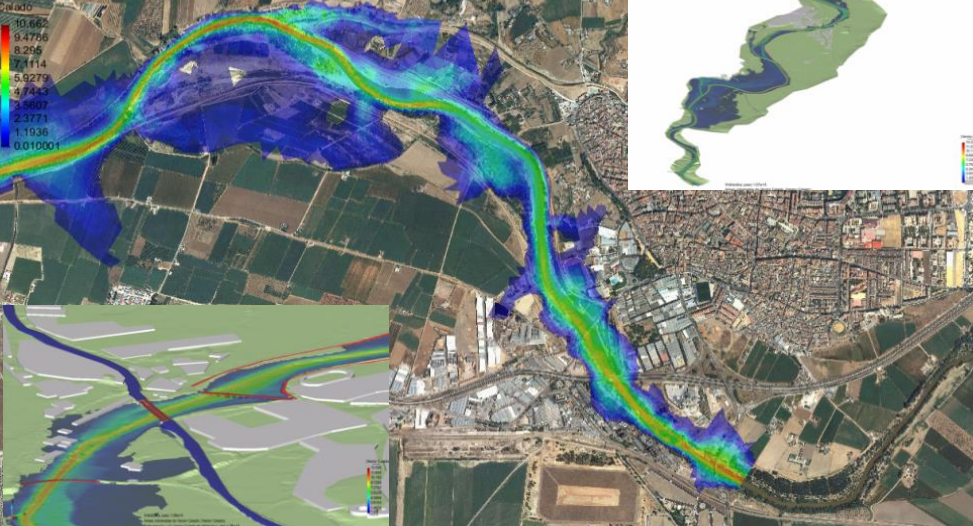
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HYDRAULIC STRUCTURES





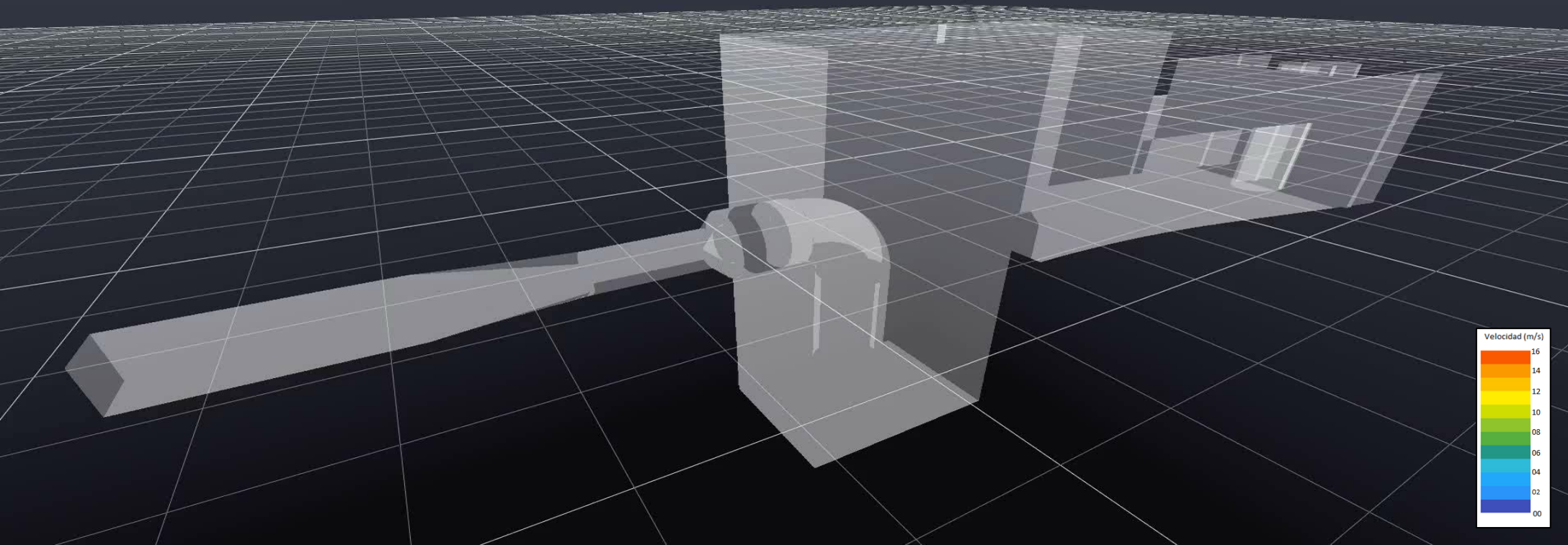
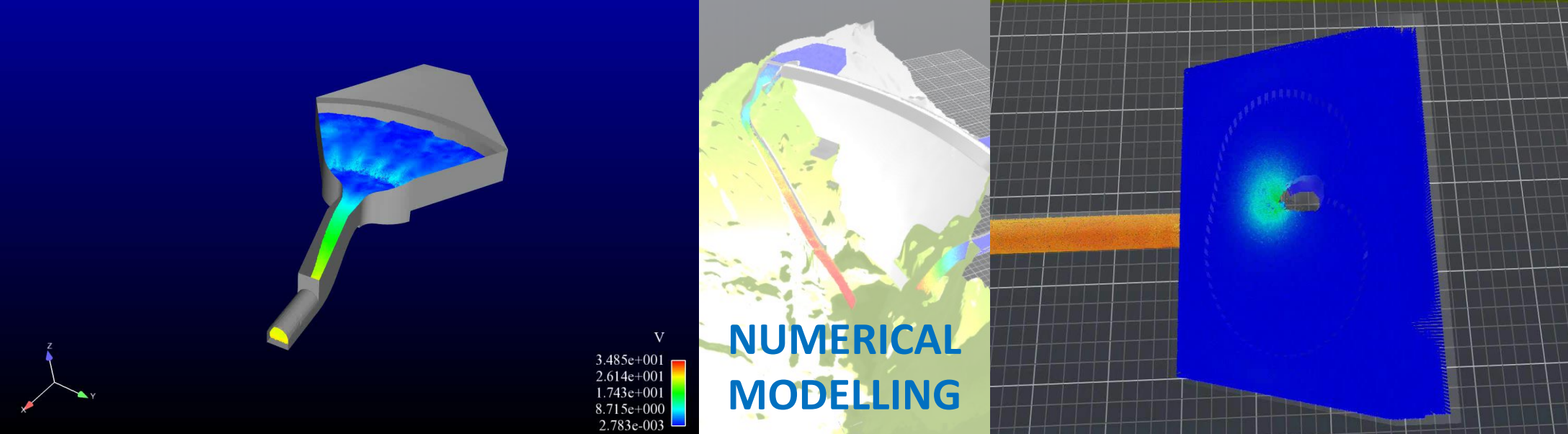
RIVER MODELLING



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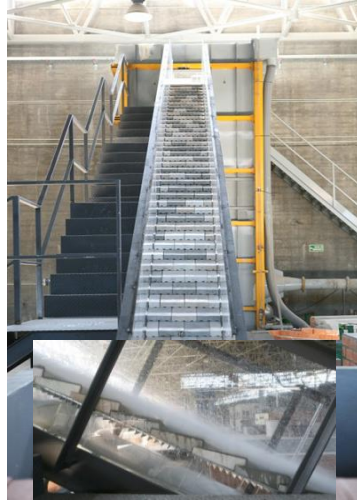
Hydraulics
Laboratory



R & D AND INNOVATION



E DAMS



ACUNA



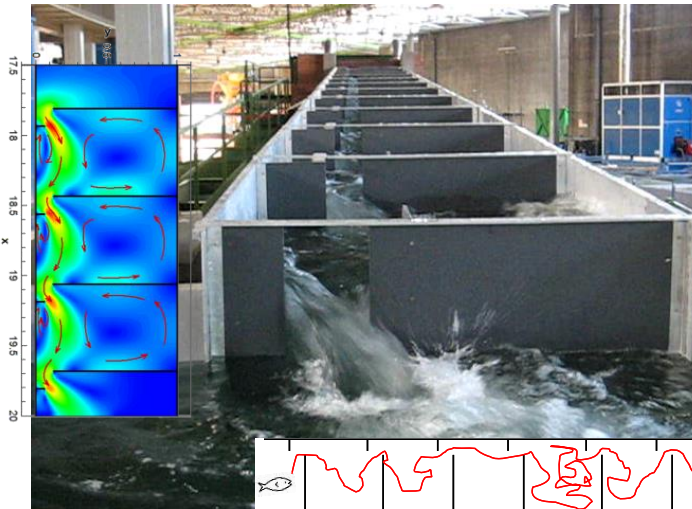
EMULSIONA



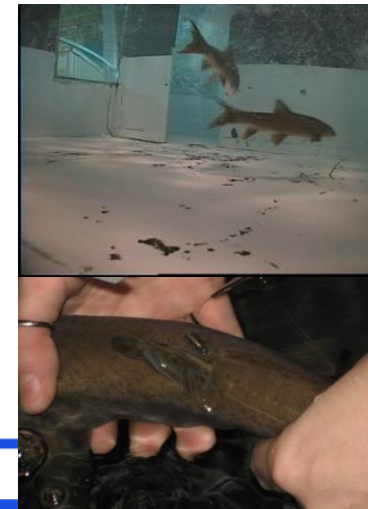
**Labyrinth and
piano key weirs
POLILAB**



Siphon weirs



Eco-hydraulic studies. Fish ladder

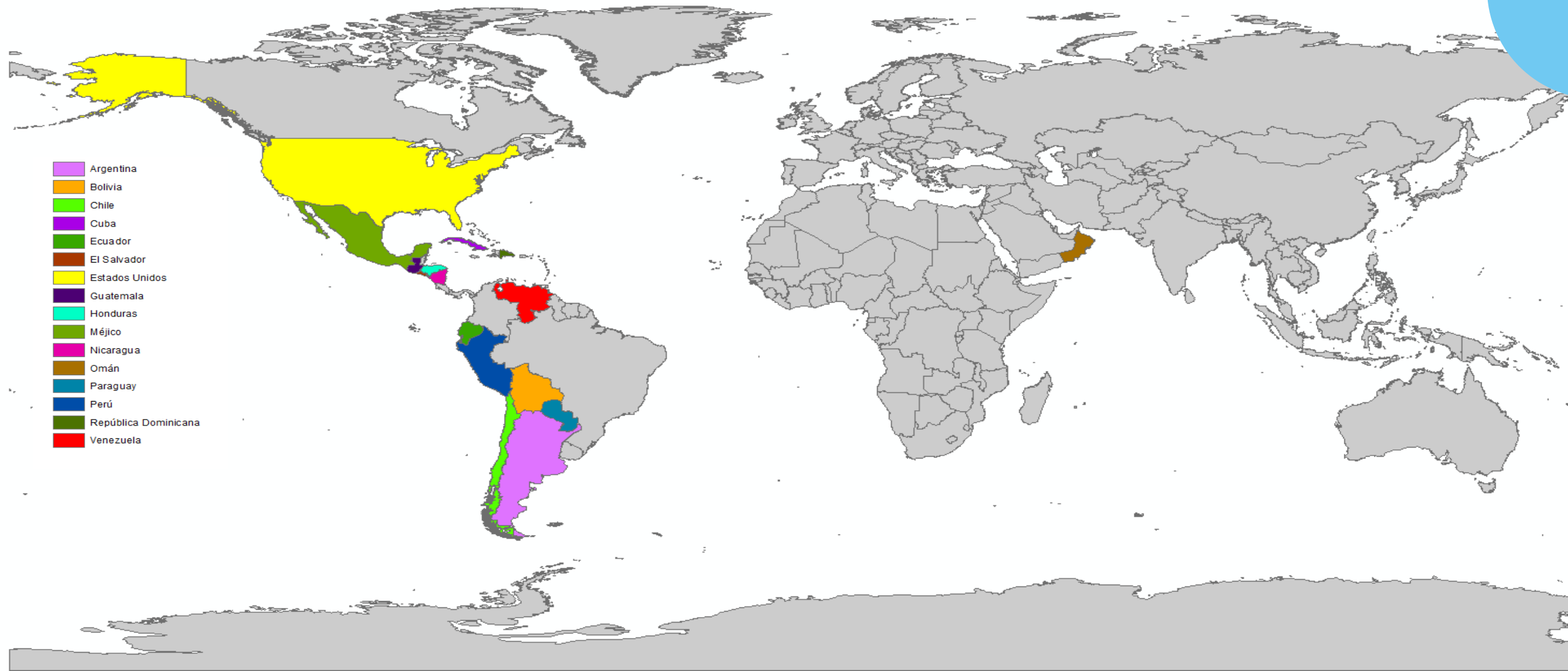


03.

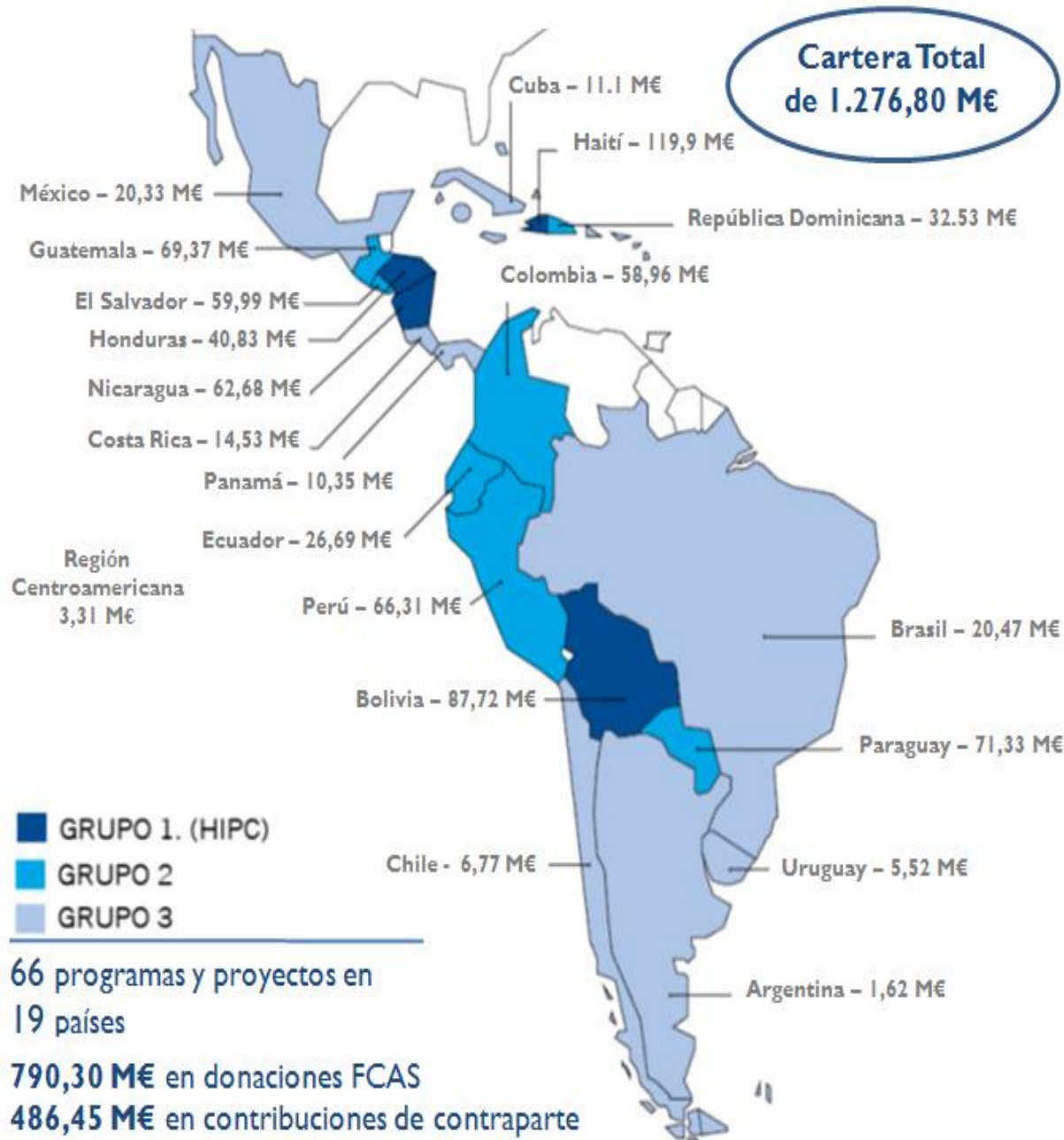
International activities



- Argentina
- Bolivia
- Chile
- Cuba
- Ecuador
- El Salvador
- Estados Unidos
- Guatemala
- Honduras
- Méjico
- Nicaragua
- Omán
- Paraguay
- Perú
- República Dominicana
- Venezuela

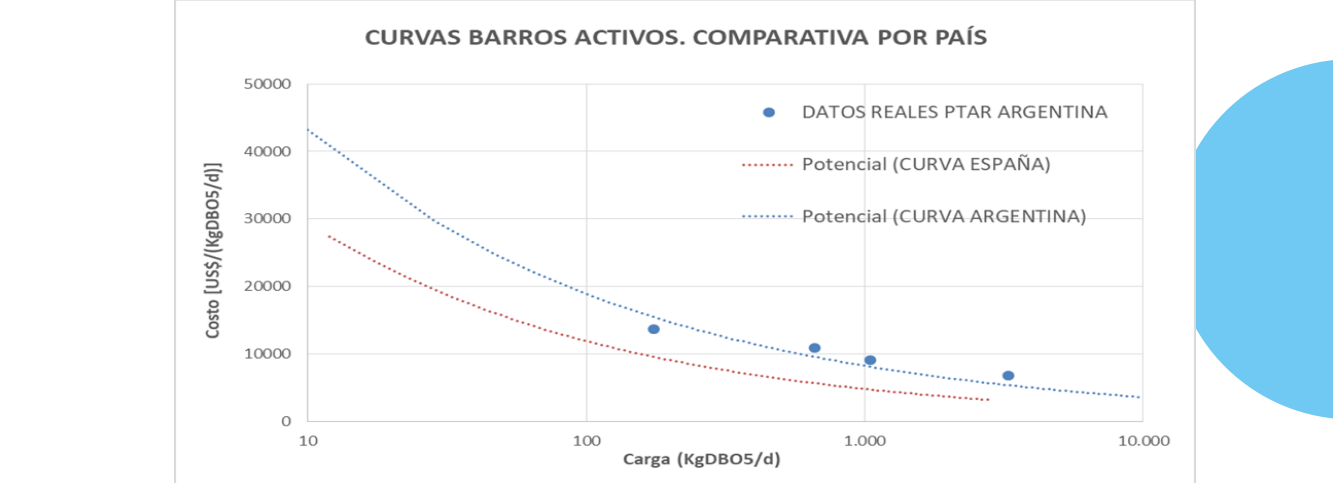


WATER AND SANITATION FUND FOR LATIN AMERICA (FCAS)

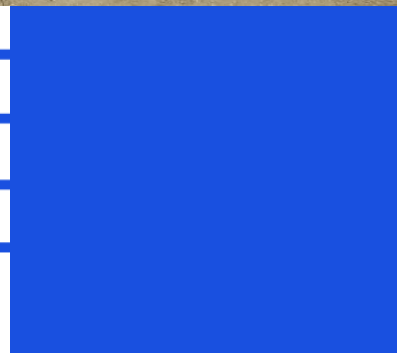




**Physical modelling
Angostura Dam (Perú)**



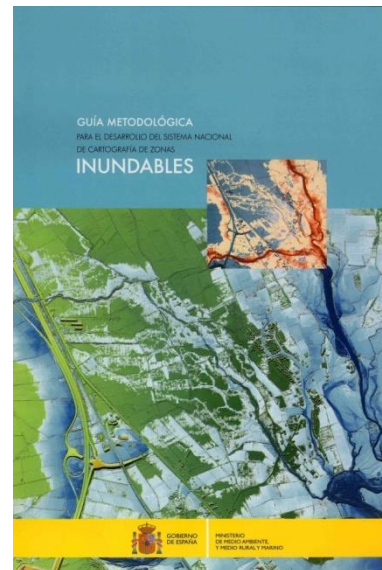
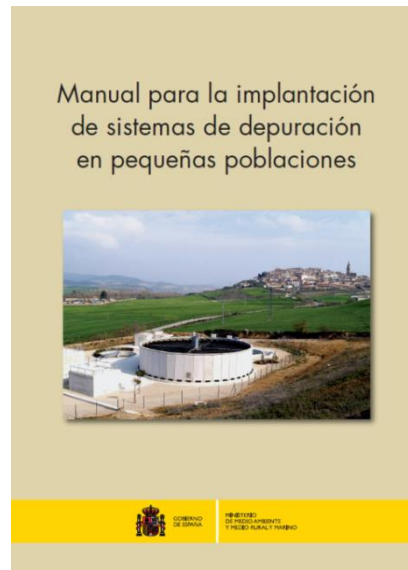
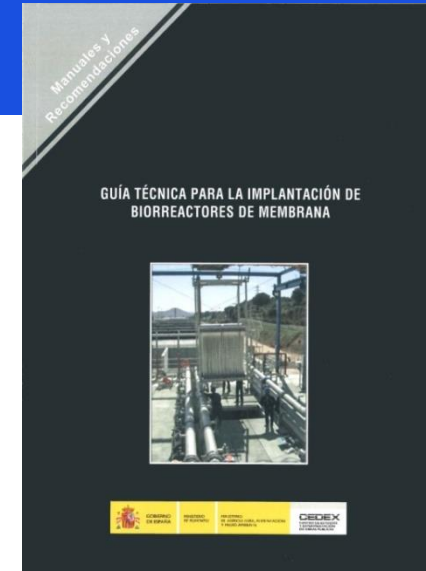
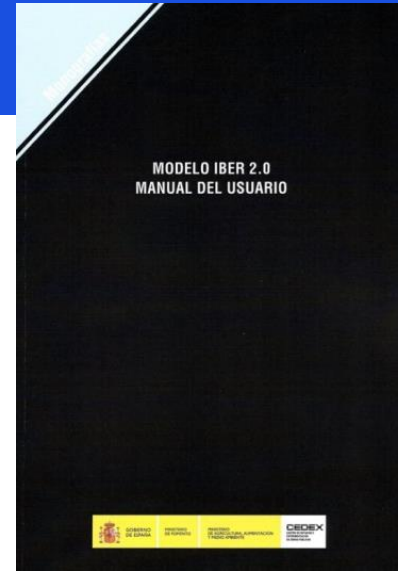
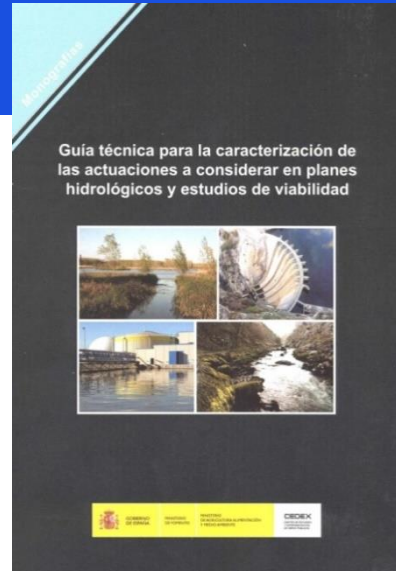
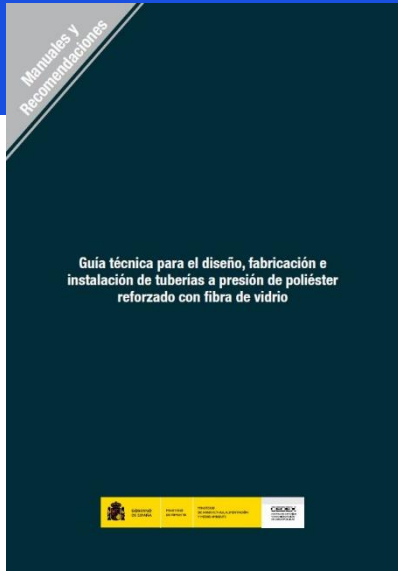
**Comparison - Cost curve for Spain and estimated curve for Argentina
Activated sludge processes (active sludge, Argentine terminology)**

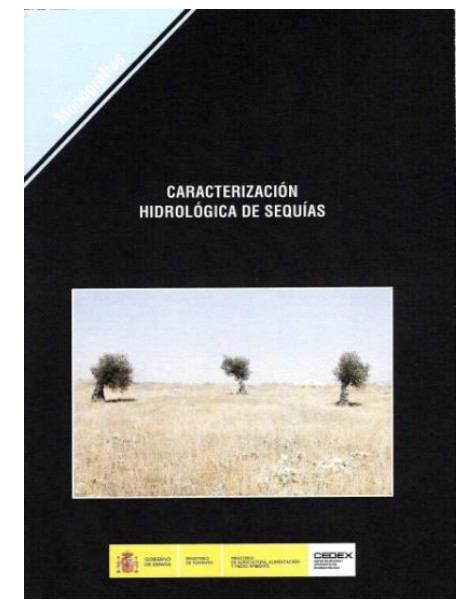
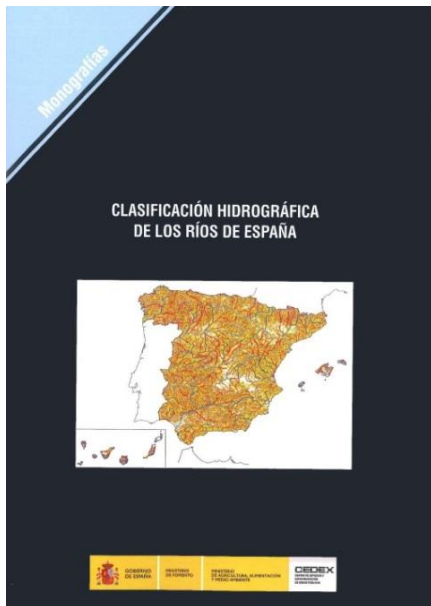
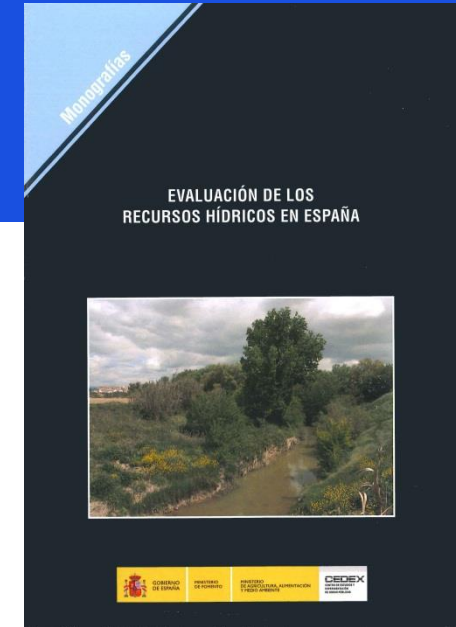
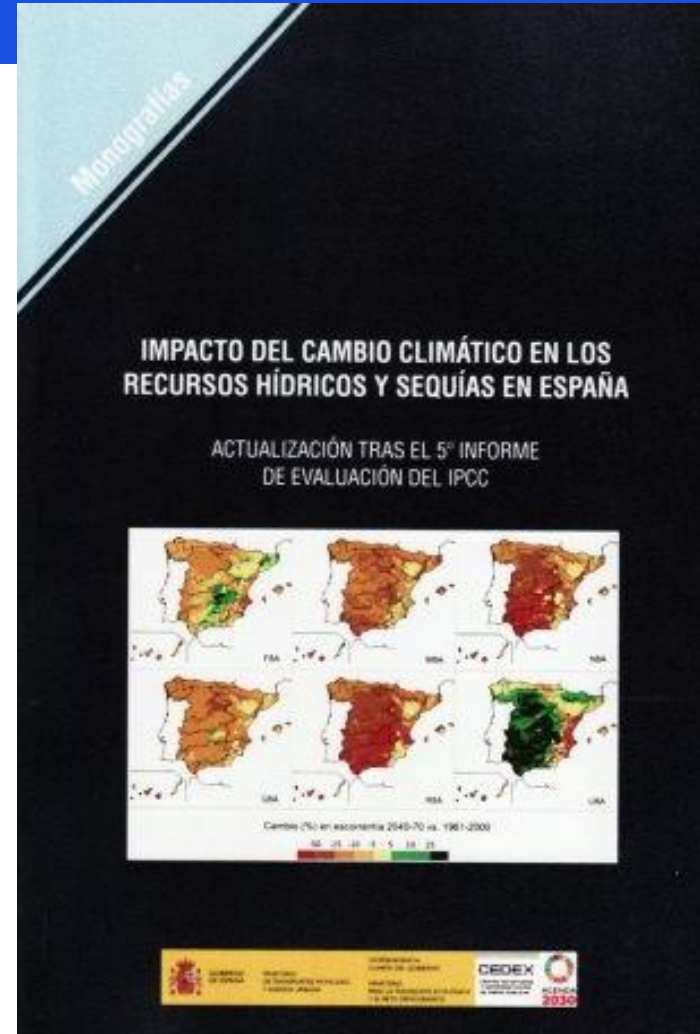
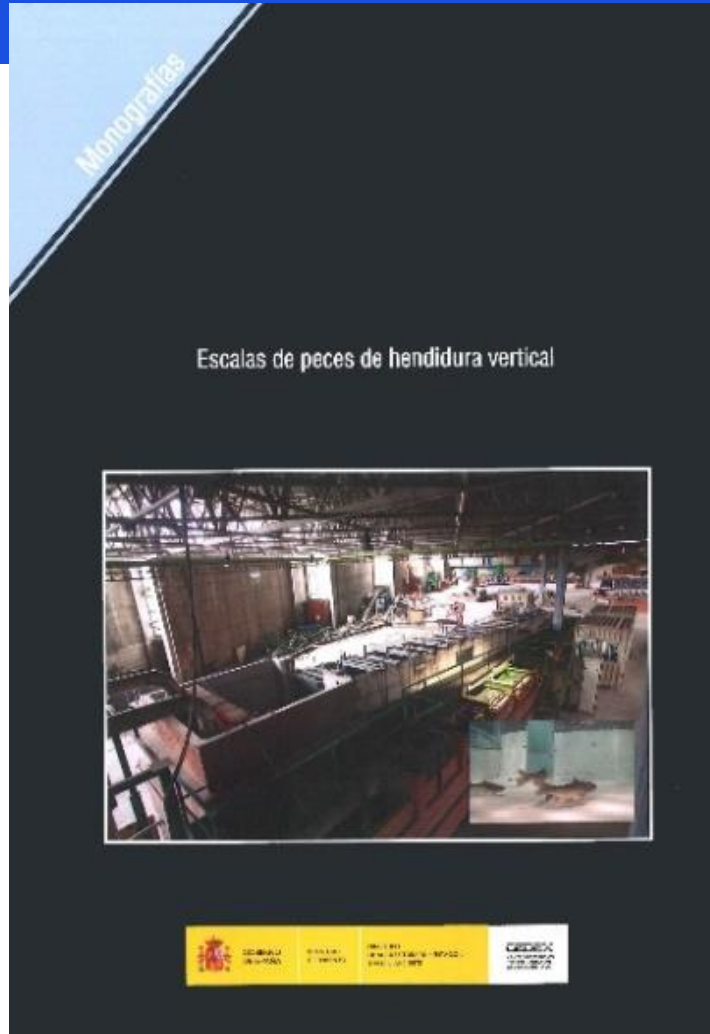
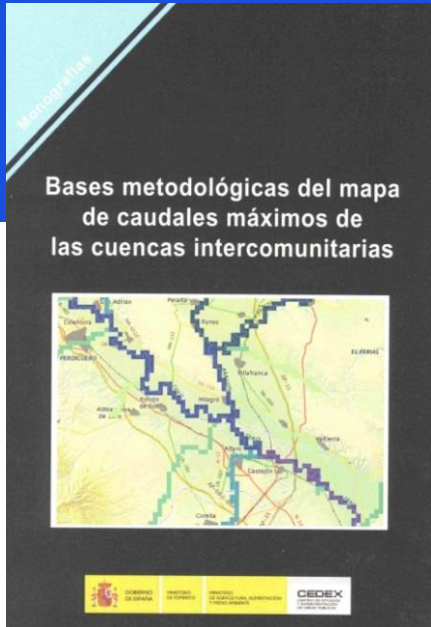


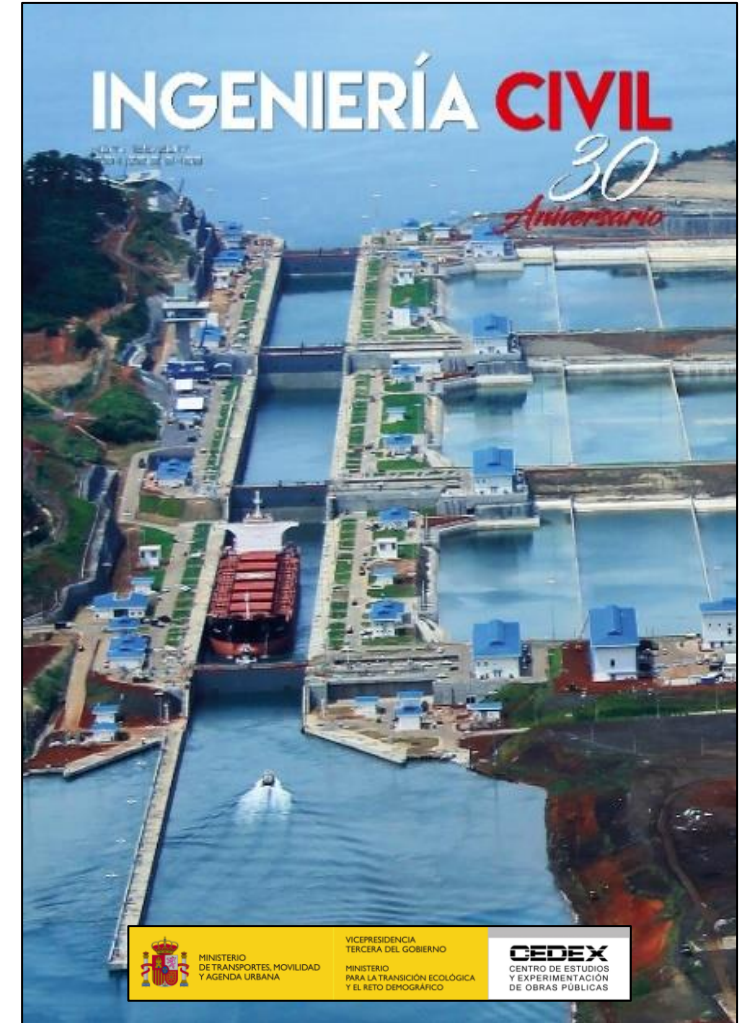
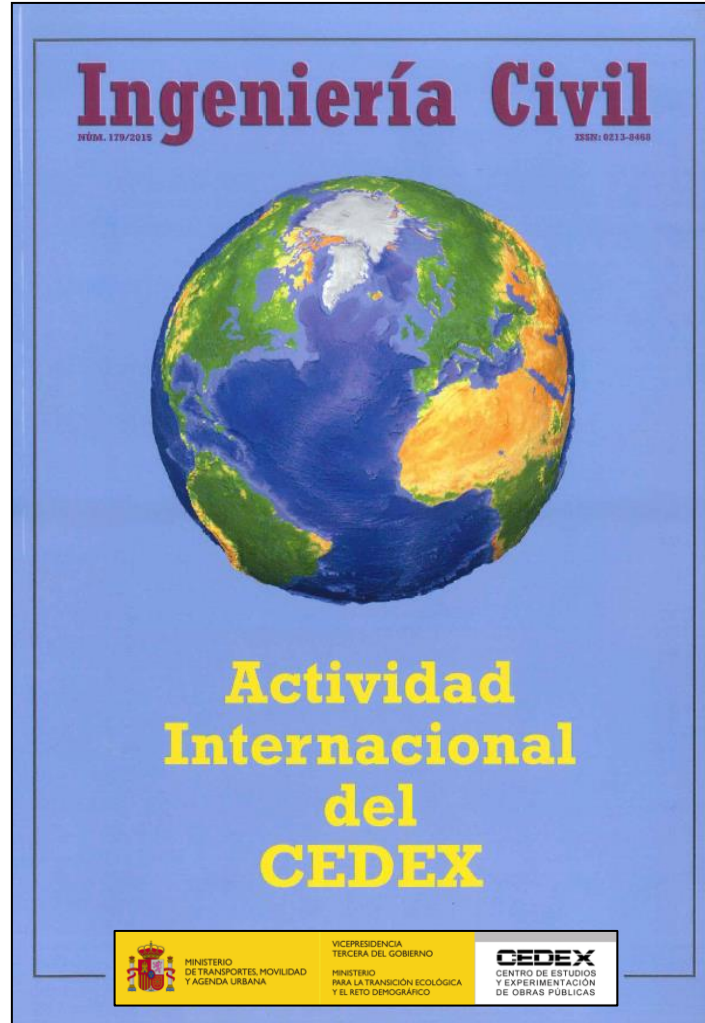
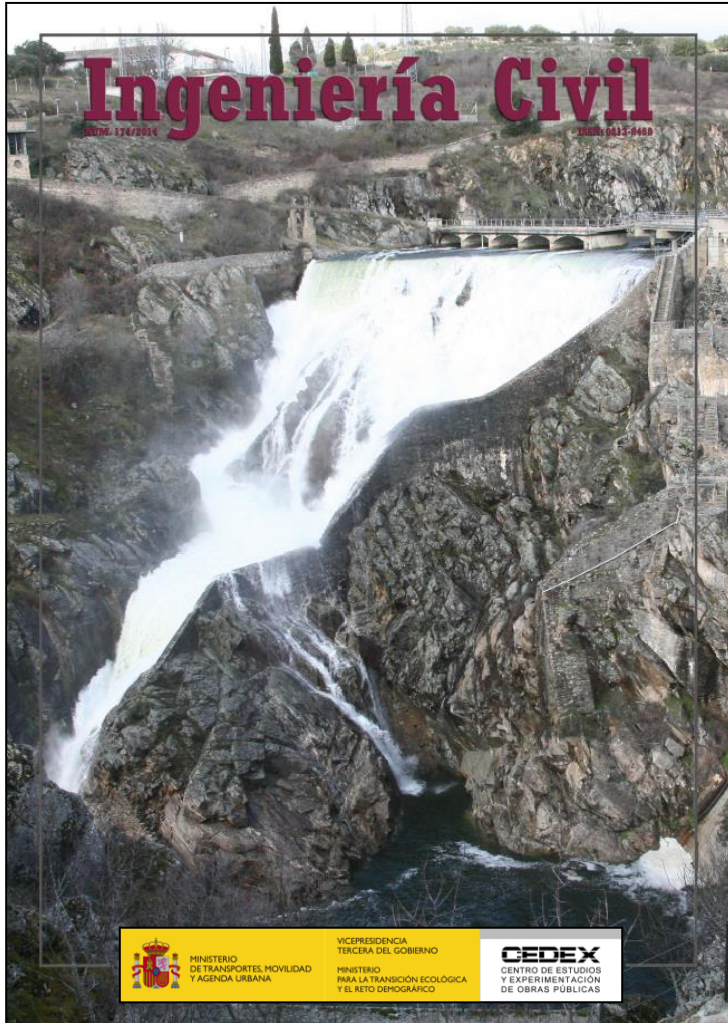
04.

Knowledge transfer











05.

Institutional collaboration



- ✓ **National Water Council**
- ✓ **Central Commission for Exploitation of the Tagus-Segura Water Transfer**
- ✓ **Standards Commission on Large Dams**
- ✓ **Advisory Council of the Water and Sanitation Fund for Latin America (FCAS)**
- ✓ **Conference of Ibero-American Water Directors (CODIA)**



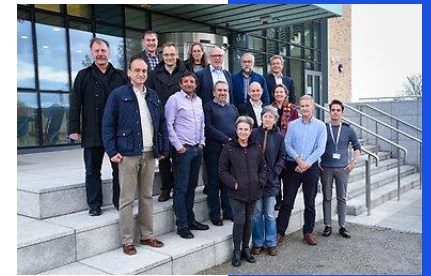


✓ **Secretariat of the International Association for Hydro-Environment Engineering and Research (IAHR)**

✓ **European Network of Freshwater Research Organizations (EurAqua)**

✓ **Network of Ibero-American National Institutes of Engineering and Hydraulic Research (RINIIH)**

✓ **China Institute of Water Resources and Hydropower Research (IWHR)**



✓ **Presidency of the Council of the Spanish Chapter of the IAHR**



✓ **Network of Spanish Hydraulics Laboratories (RLHE)**

✓ **Co-Chair of the Permanent Committee of the Conference on Water Engineering (JIA)**



✓ **“4° ESO + Corporation” Program - Madrid Community**







Centre for Hydrographic Studies

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https://ceh.cedex.es/web_ceh_2018/default.htm

