

iPresas is a technology-based spin-off company of the Universitat Politècnica de València (UPV) with expertise centered on **flood risk management** and integrated safety management of **dams and other critical infrastructures**. The technical support provided by iPresas is based on its development of methodologies and tools for the application of **risk analysis techniques to critical infrastructure management and natural hazards**, as well as **software development**. Moreover, since 2023 iPresas is promoting the implementation of risk procedures for the mining industry in compliance with the Global Industry Standard on Tailings Management (GISTM).

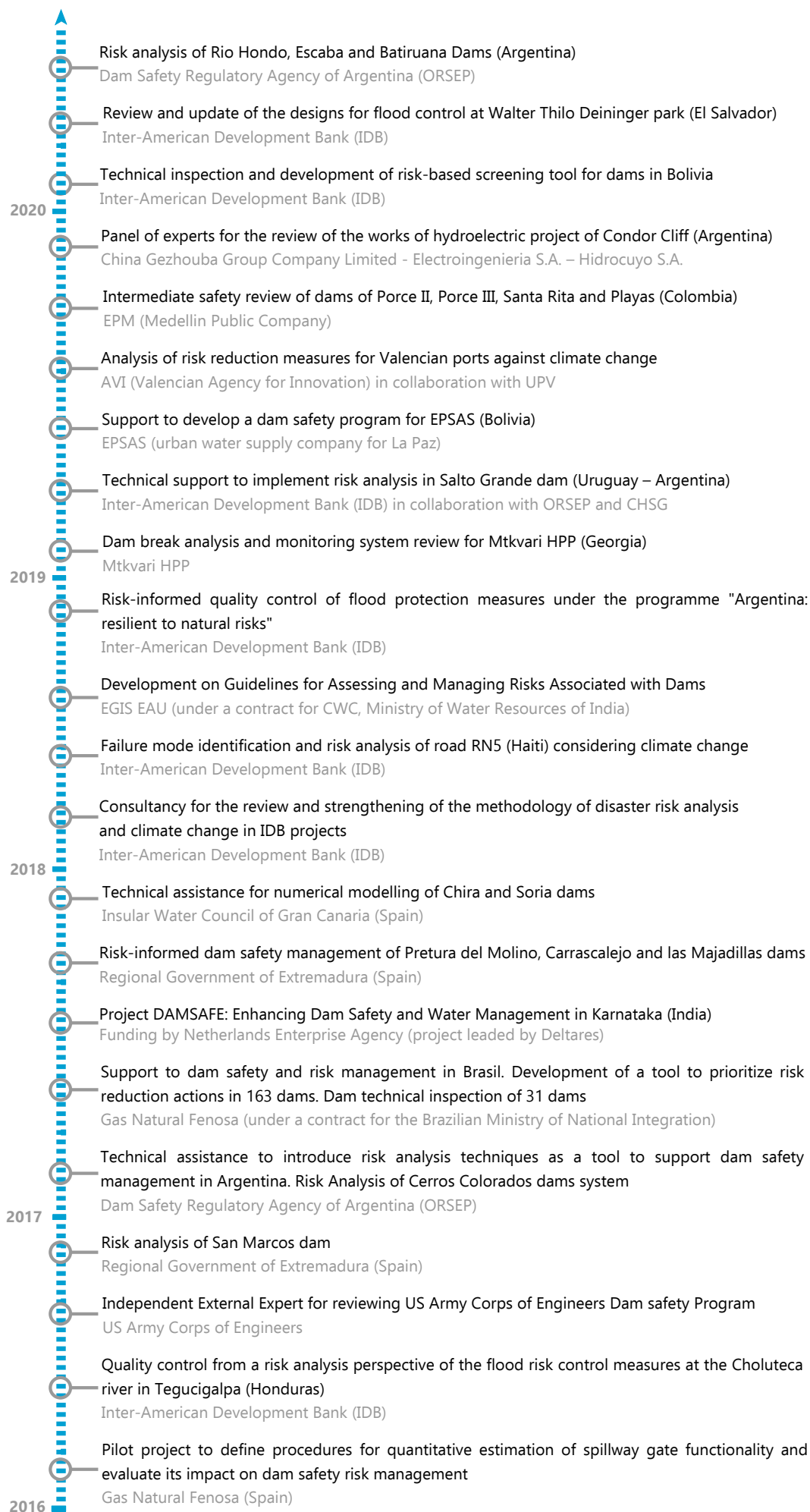
iPresas' team, with more than **25 years** of experience in **dam safety**, has developed an innovative methodology for calculating and modelling risks in dam-reservoir systems and **flood risks**. Use of this methodology offers great added value for **decision making** in risk reduction measures. In addition to this innovative tool, iPresas offers an **extensive know-how** in the field of dam safety and natural hazards risk analysis. This know-how has been acquired, used and extended through a large number of professional applications all around the world.

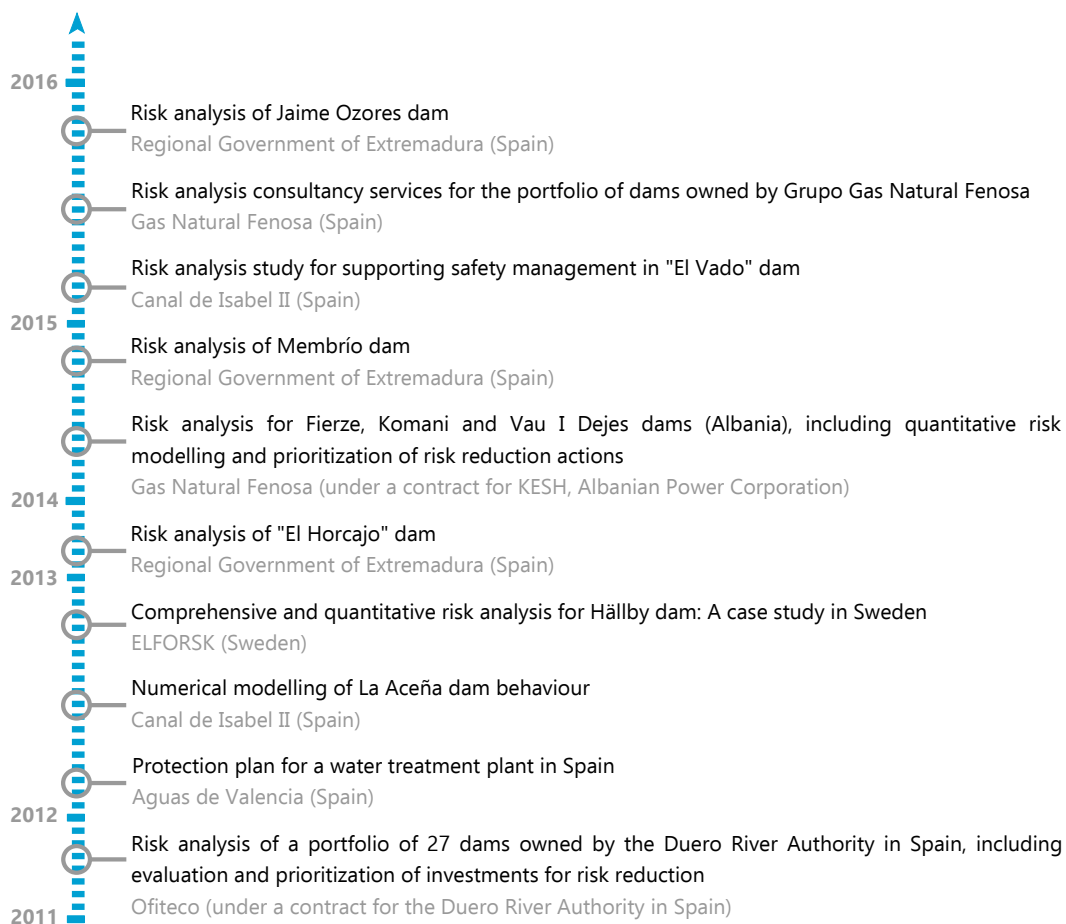
MAIN PROJECTS



- 2022
- Comprehensive safety review and quantitative risk analysis of Playas dam (Colombia)
Empresas Públicas de Medellín (EPM)
 - Qualitative risk analysis of 5 MiRiego dams (Bolivia)
Inter-American Development Bank (IDB)
 - Update of Porce II and Porce III hydrological-hydraulic studies (Colombia)
EPM (Empresas Públicas de Medellín)
 - Potential risk classification of Soria and Lumbreras dams (Spain)
Consejo Insular de Aguas de Gran Canarias
 - Study of the hydraulic capacity of the Playas, Riogrande II and Quebradona spillways using CFD models (Colombia).
EPM (Empresas Públicas de Medellín)
 - Safety Review of Pedrezuela, La Aceña and Manzanares Dams (Spain)
Canal de Isabel II
 - Qualitative risk analysis of Khotia Khota and Taypichaca dams (Bolivia)
Inter-American Development Bank (IDB)
 - Guidelines for Dam Monitoring of Corani dam (Bolivia)
ENDE Corani
 - Hydrological and hydraulic assessment of the spillway of Río grande II and Playas dams (Colombia)
Empresas Públicas de Medellín (EPM)
 - Dam Safety Review of Calima dam (Colombia)
Celsia
 - Dam Safety Review of La Fe dam and update of flood maps (Colombia)
Empresas Públicas de Medellín (EPM)
 - Qualitative Disaster and Climate Change Risk Analysis for roads (Peru)
Inter-American Development Bank (IDB)
 - Risk-informed Dam Safety Program (Malaysia)
Tenaga Nasional Berhad (TNB) in a contract to Universiti Tenaga Nasional (UNITEN)
 - Update of the Operation Rules of Salvajina dam (Colombia)
Celsia
 - Numerical Modelling of Béznar and Rules dams (Spain)
Agencia Andaluza del Agua (in a contract to SANDO y HCC)
 - Qualitative Disaster and Climate Change Risk Analysis of a bridge (Argentina)
Inter-American Development Bank (IDB)
 - Independent External Expert for reviewing US Army Corps of Engineers Dam Safety Program
US Army Corps of Engineers (USACE)
 - Study to enhance the resilience of the energy system in The Bahamas after Hurrican Dorian
Inter-American Development Bank (IDB)
- 2021
- Numerical modelling of six dams of the Insular Water
Council of Gran Canaria Insular Water Council of Gran Canaria (Spain)
 - Review and definition of flood control works at Uluá and Chamelecón rivers (Honduras) after Hurrican IOTA
Inter-American Development Bank (IDB)
 - Comprehensive safety review and Risk Analysis of dams of Salvajina, Alto Anchicayá and Prado (Colombia)
Celsia Colombia
 - Technical report on recommendations to integrate Disaster Risk Management and Climate Change Adaptation into the Public Investment
Inter-American Development Bank (IDB)
 - Intermediate safety review of dams of Quebradona and El Buey (Colombia)
EPM (Empresas Públicas de Medellín)

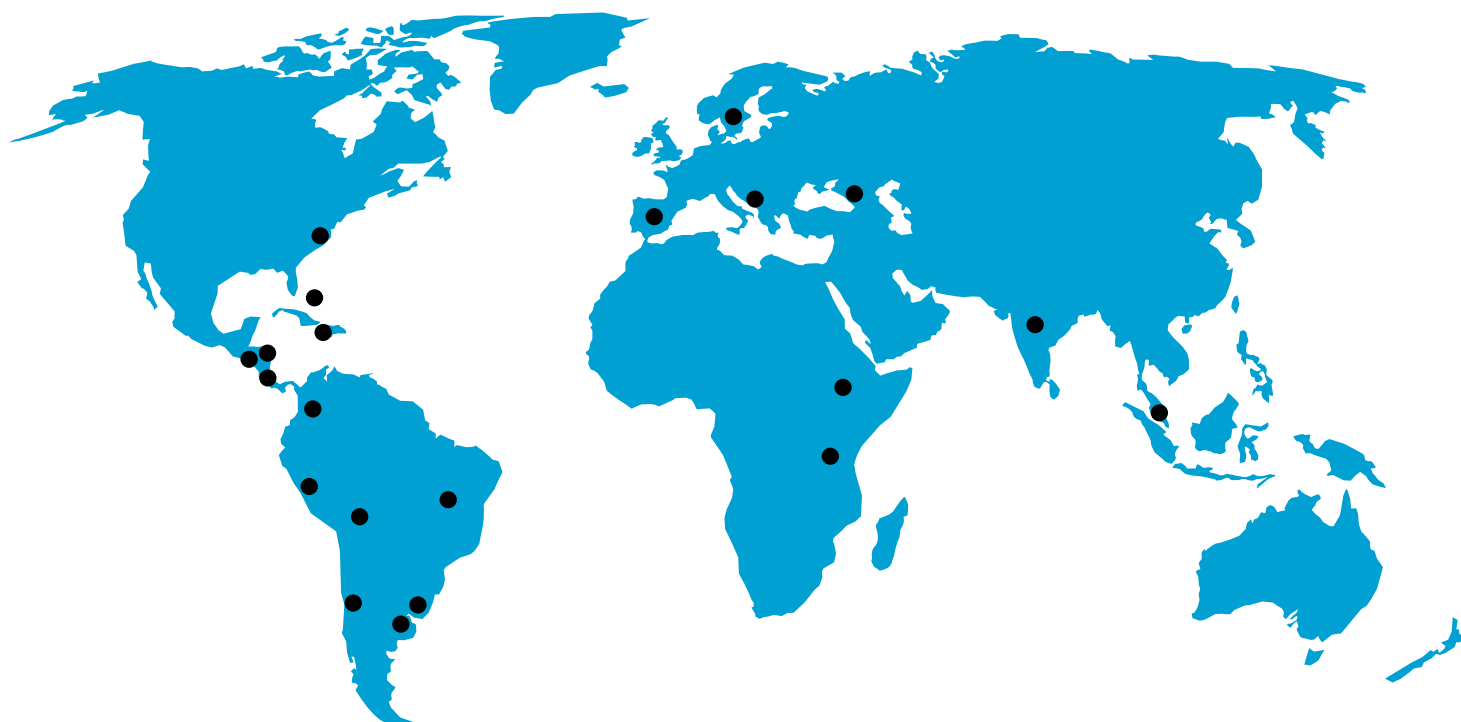






INTERNATIONAL EXPERIENCE

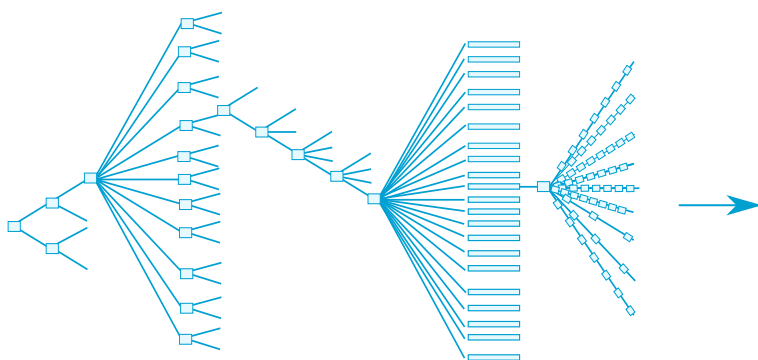
iPresas has a wide international experience leading projects in **more than 15 countries**.



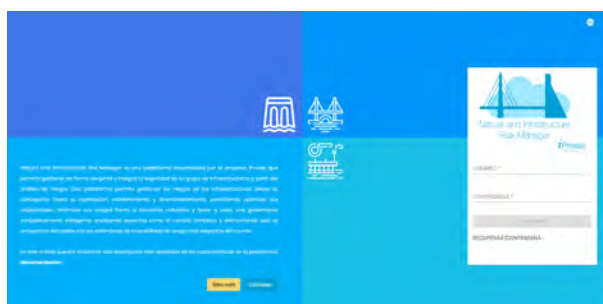
SOFTWARE

iPresas develops software for **risk informed management of critical infrastructure portfolios**. iPresas software includes detailed documentation and examples (in English and Spanish). Specifically, two main software tools have been developed:

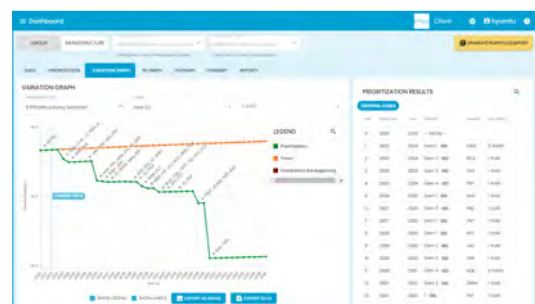
- **iPresas Calc:** For risk calculation using event trees and influence diagrams.
- **iPresas NIRMAN:** Natural and Infrastructure Risk Manager which is an online software to support safety management of a portfolio of infrastructures based on the results of their risk models, which considers the effect of climate change along time.



Free demo software can be found at:
www.ipresas.com



www.riskmanager.cloud



TRAINING

iPresas provides training services on **analysis and safety management** through **practical examples, real cases** and examples using software iPresas. iPresas has conducted several education and training courses related with Risk Analysis applied to Dam Safety Management and organized by the Spanish National Committee on Large Dams (**SPANCOLD**), with more than 100 participants from different countries. iPresas team has also organized courses for public and private entites like the Inter-American Development Bank (IABD) and in countries like **Argentina and Colombia**.

ISO CERTIFICATES

- **ISO 9001:** Quality Management System.
- **ISO 14001:** Environmental Management System.

