

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 and security 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** derived from these needs.

iPresas' team, with its experience of **more than 20 years** 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, a main asset of iPresas is its **extensive know-how** in the field of dam safety and natural hazards risk analysis. This know-how has been acquired, used and extended through several research projects and professional applications all around the world.

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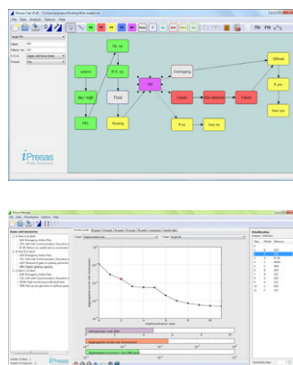
MAIN PROJECTS

- 2017
 - Project DAMSAFE: Enhancing Dam Safety and Water Management in Karnataka (India)
Funding entity: Netherlands Enterprise Agency (project led by Deltares)
 - Support to dam safety and risk management in Brasil
Entity: Gas Natural Fenosa (under a contract for the World Bank)
 - Technical assistance to introduce risk analysis techniques as a tool to support dam safety management in Argentina
Entity: Dam Safety Regulatory Agency of Argentina (ORSEP)
 - Risk analysis of San Marcos dam
Entity: Regional Government of Extremadura (Spain)
 - Independent External Expert for reviewing US Army Corps of Engineers Dam safety Program
Entity: US Army Corps of Engineers
 - Quality control from a risk analysis perspective of the flood risk control measures at the Choluteca river in Tegucigalpa (Honduras)
Entity: Inter-American Development Bank (IDB)
- 2016
 - Pilot project to define procedures for quantitative estimation of spillway gate functionality and evaluate its impact on dam safety risk management
Entity: Gas Natural Fenosa (Spain)
 - Risk analysis of Jaime Ozores dam
Entity: Regional Government of Extremadura (Spain)
 - Risk analysis consultancy services for the portfolio of dams owned by Grupo Gas Natural Fenosa
Entity: Gas Natural Fenosa (Spain)
- 2015
 - Risk analysis study for supporting safety management in "El Vado" dam
Entity: Canal de Isabel II (Spain)
 - Risk analysis of Membrío dam
Entity: Regional Government of Extremadura (Spain)
- 2014
 - Risk analysis for Fierze, Komani and Vau I Dejes dams (owned by KESH, Albania), including quantitative risk modelling and prioritization of risk reduction actions
Entity: Gas Natural Fenosa (under a contract for the World Bank)
- 2013
 - Risk analysis of "El Horcajo" dam
Entity: Regional Government of Extremadura (Spain)
 - Comprehensive and quantitative risk analysis for Hällby dam: A case study in Sweden
Entity: ELFORSK (Sweden)
 - Numerical modelling of La Aceña dam behaviour
Entity: Canal de Isabel II (Spain)
- 2012
 - Protection plan for a water treatment plant in Spain
Entity: Aguas de Valencia (Spain)
 - Risk analysis of a portfolio of 27 dams owned by the Duero River Authority in Spain, including evaluation and prioritization of investments for risk reduction
Entity: Ofiteco (under a contract for the Duero River Authority in Spain)
- 2011



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 software tools has been developed: **iPresas Calc** (for risk calculation) and **iPresas Manager** (for risk informed management of a portfolio of critical infrastructures based on outcomes from quantitative risk models.)



TRAINING

iPresas provides training services on risk 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.

These courses are available at: www.spancold.es

