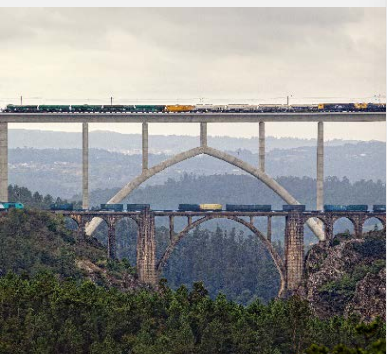


# Company Profile

2016



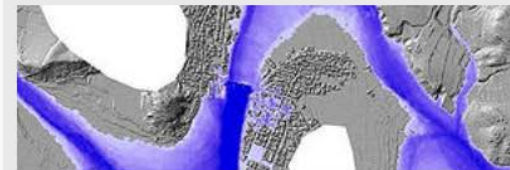
# Business Areas



Dams and Reservoirs



Hydro-meteorological Networks



Flood Risk Management



Water Supply and Treatment



Hydropower



River Restoration



Irrigation



Roads and Highways

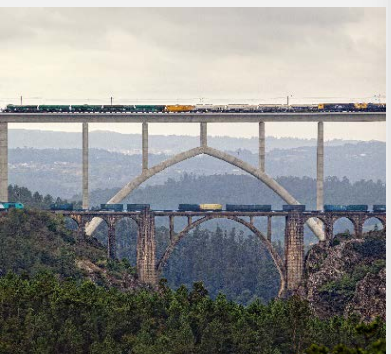


Railways and Metro





# Services



Studies and Designs



Works Supervision



Quality Control



Inspections



Load Tests



Monitoring



Automation



Remote Data Management



Training

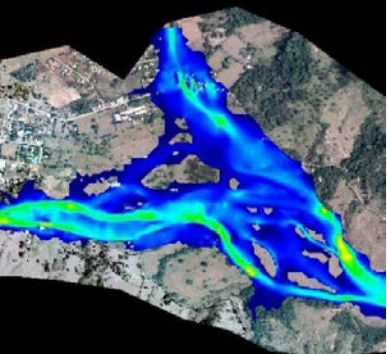


# Dams and reservoirs

A wide-angle photograph of a large concrete dam. The dam is a long, low wall with a series of vertical buttresses. Water is flowing over the top of the dam, creating a white, frothy cascade. The dam is situated in a valley with steep, forested mountains in the background. The sky is overcast. In the foreground, there are some green structures and a dirt path on the left side of the dam.

- Dam Safety Management
- Dam Surveillance (Monitoring)
- Operation and Maintenance
- Risk Assessment & Analysis
- Feasibility Study
- Detailed Design
- Project Management
- Quality Control (Laboratory)
- Seismic Management

## Dams and Reservoirs – Dam Safety Review



**CONTRACT:** Safety reports, visual inspections, dam monitoring, hydro-mechanical equipment and electrical systems control, and management of operating procedures for 54 state-owned dams, including training.

**CLIENT:** Ebro River Basin Authority

**LOCATION:** Ebro River Basin (Spain)

**PERIOD:** 2007 - 2016



## Dams and Reservoirs – Dam Safety Review

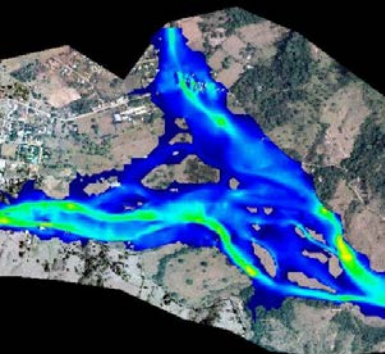


**CONTRACT: Meffrouch Dam**  
**Dam safety review + upgrade design,**  
**including training**

**CLIENT: National Agency for Dams and**  
**Transfers – Ministry of Water Resources**

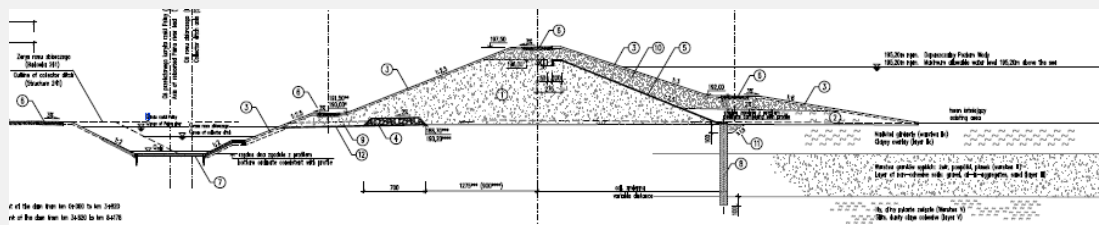
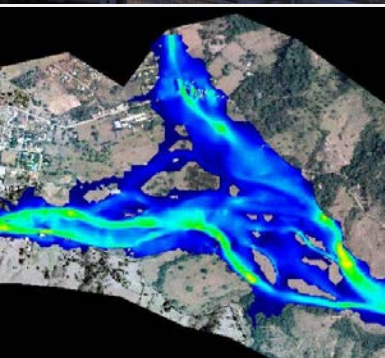
**LOCATION: Tlemcen (Algeria)**

**PERIOD: 2015-2016**



## Dams and Reservoirs – Monitoring and Surveillance

CONTRACT: Review of Technical Design, Long-term Monitoring System Design for the Raciborz Polder, On-site Technical Assistance, and Monitoring Data Analysis during Construction

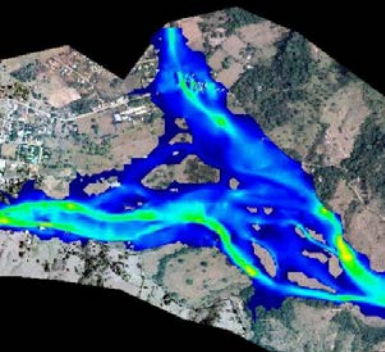




# Dams and Reservoirs – Monitoring and Surveillance

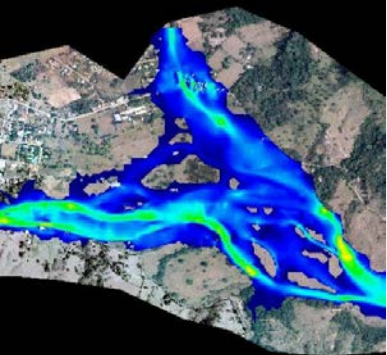
CONTRACT: Vardnili dam monitoring system  
LOCATION: Abjasia, Georgia

CLIENT: Engurhesi  
PERIOD: 2012 - 2014





## Dams and Reservoirs – Monitoring and On-site Support



**CONTRACT:** Supply and Supervision of works related to the monitoring system and control of geotechnical and structural behavior of the Reventazón Dam during construction, including technical training.

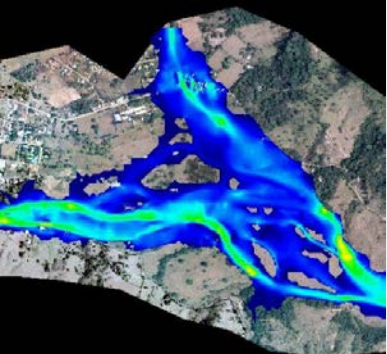
**CLIENT:** ICE - Costa Rican Electricity Institute

**LOCATION:** Costa Rica

**PERIOD:** 2012 - 2015



## Dams and Reservoirs – Monitoring and Surveillance



**CONTRACT:** Updating and upgrading of Tablachaca's dam instrumentation and monitoring equipment

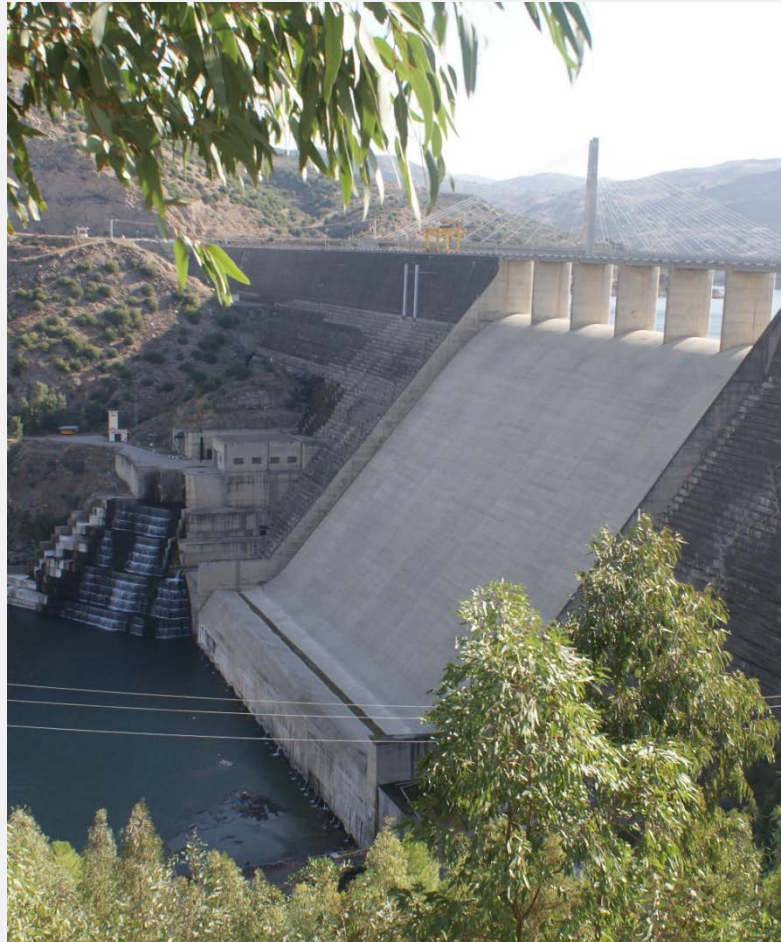
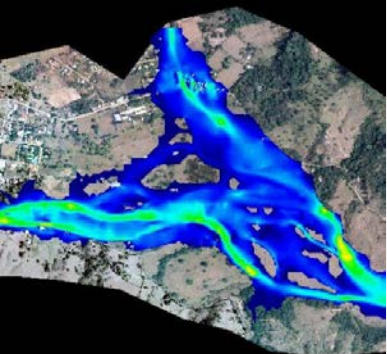
**CLIENT:** Electro Perú

**LOCATION:** Huancavelica, Peru

**PERIOD:** 2013-2014



## Dams and Reservoirs – Monitoring and Surveillance

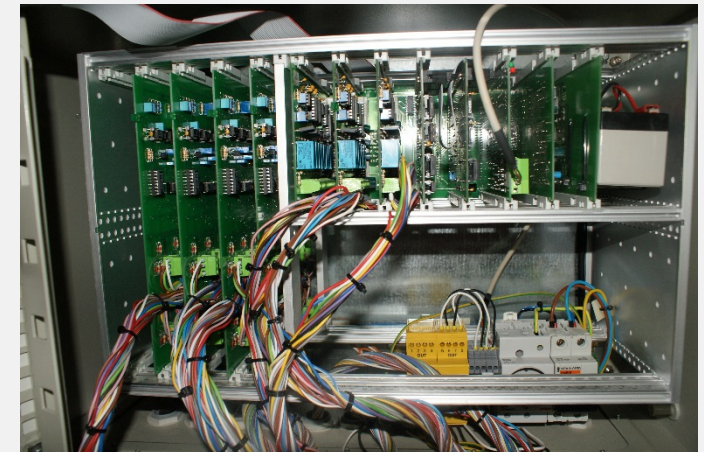


**CONTRACT:** Upgrade, rehabilitation, and maintenance works on the monitoring system at Beni Haroun dam, including technical training

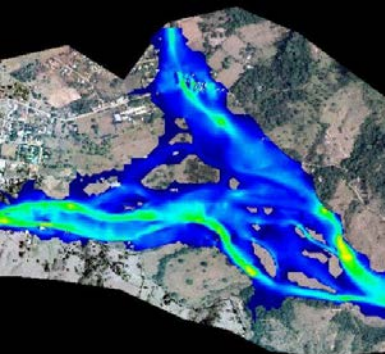
**CLIENT:** National Agency for Dams and Transfers – Ministry of Water Resources

**LOCATION:** Wilaya de Mila (Algeria)

**PERIOD:** 2011-2012



## Dams and Reservoirs – Risk Assessment and RIDM



**CONTRACT:** Development of a Supplementary Portfolio Risk-Informed Dam Safety Program for the the Duero River Basin Authority, Including the Definition, Evaluation and Prioritization of Safety-Related Measures.

**CLIENT:** Duero River Basin Authority

**LOCATION:** Duero River Basin (Spain)

**PERIOD:** 2009-2011



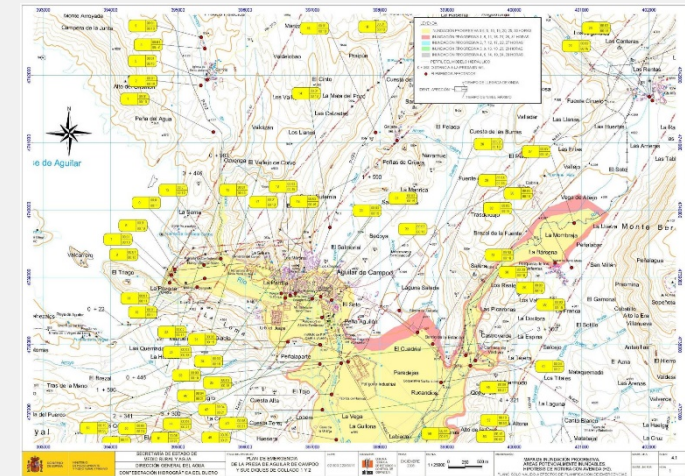
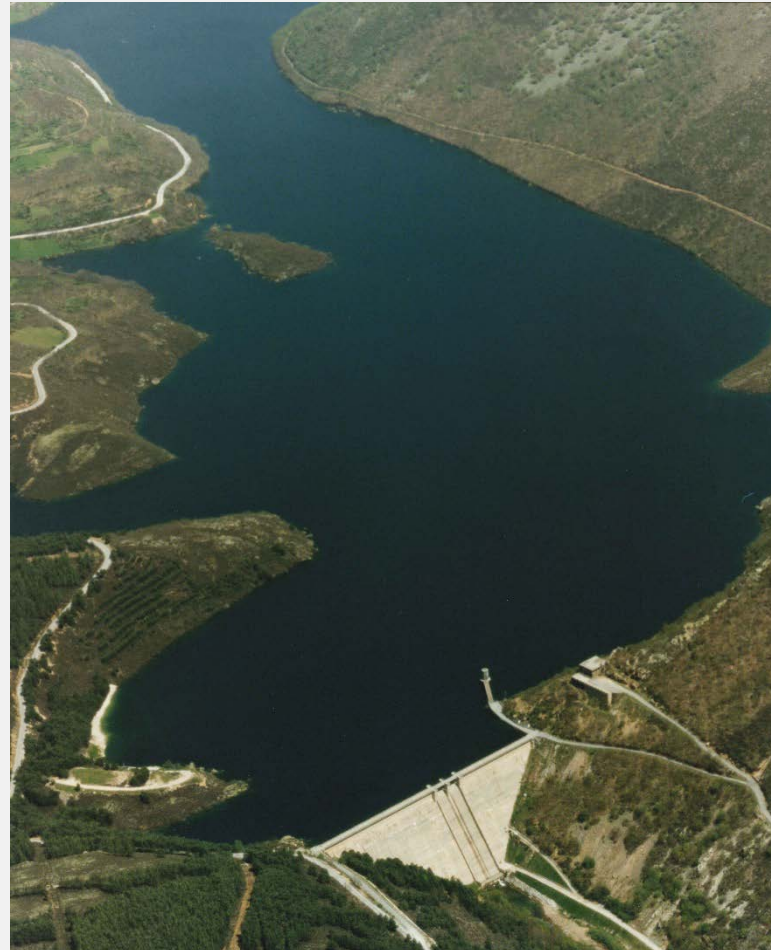
## Dams and Reservoirs – Emergency Action Plans

**CONTRACT:** Design of Emergency Action Plans (EAP) for the following dams:  
**Camporredondo, Compuerto, Requejada, Cervera and Aguilar de Campoo.**

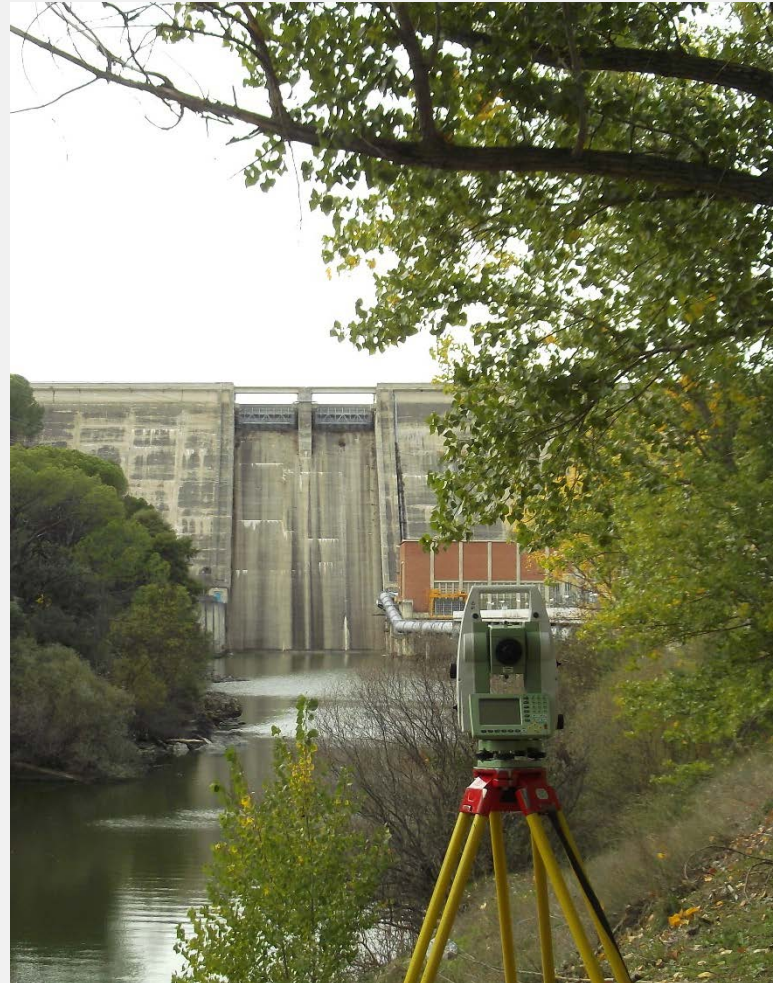
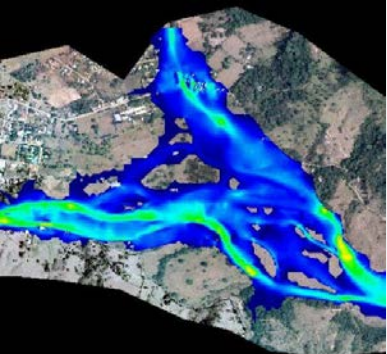
**CLIENT:** Duero River Basin Authority

**LOCATION:** Duero River Basin (Spain)

**PERIOD:** 2006 - 2008



## Dams and Reservoirs – Operation & Maintenance



**CONTRACT:** Operation and maintenance at Rosarito, Navalcán, Finisterre, El Castro, Burguillo, San Juan, Charco del Cura, Picadas, Cazalegas and Alcolea Dams.

**CLIENT:** Tagus River Basin Authority

**LOCATION:** Tagus River Basin (Spain)

**PERIOD:** 2013 – 2015 (+ 2015 – 2017)





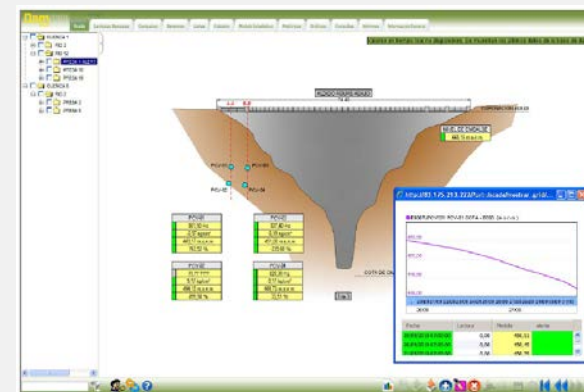
## Dams and Reservoirs – Monitoring Data Management

REMOTE DATA MANAGEMENT FOR DAM MONITORING

# Real-Time Web Service

SOLUTION: Remote Monitoring Data Management

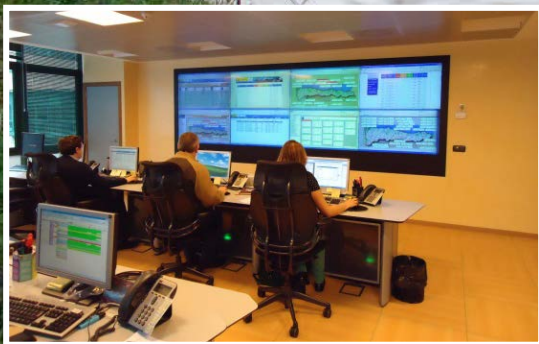
DEVELOPPER: OFITECO



# Flood Risk Management

PROHIBIDO BANARSE

- Preliminary Flood Risk Assessments
- Flood Hazard and Risk mapping
- Emergency action plans
- Decision Support Systems
- Flood Early Warning Systems
- Flood Structural and Non-structural Measures Design





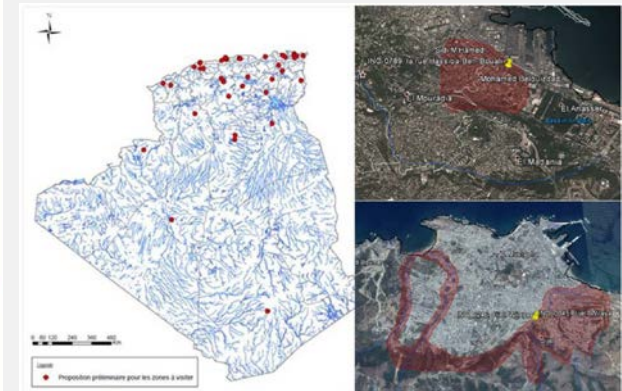
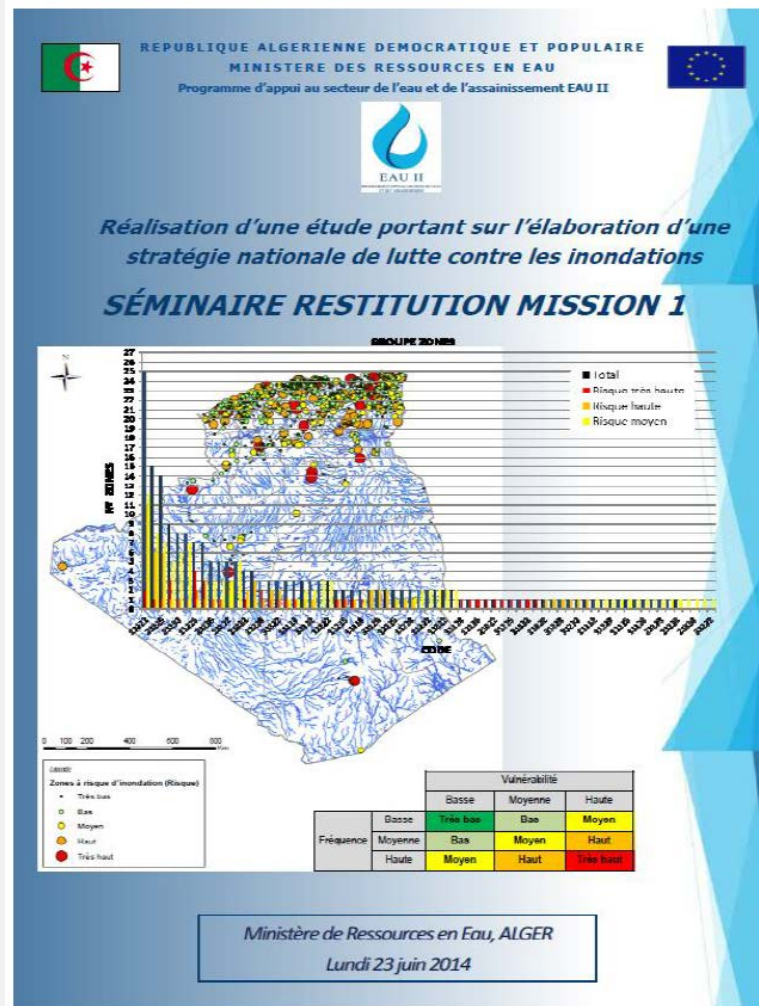
## Flood Risk Management – National Strategy in Algeria

CONTRACT: Development of the Algerian national strategy for combating floods, including training

CLIENT: Ministry of Water Resources

LOCATION: Algeria

PERIOD: 2013 - 2015



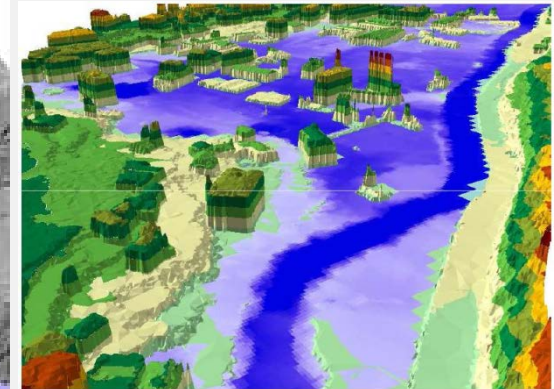
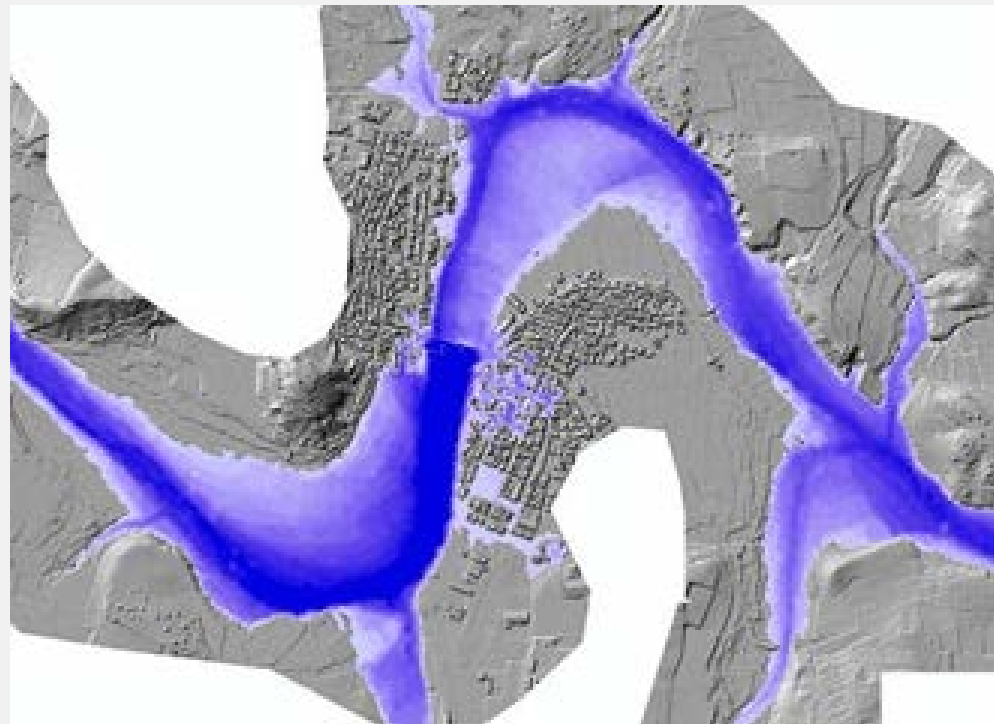
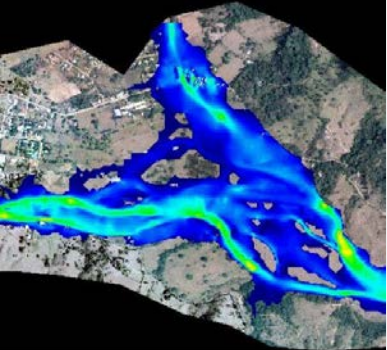
## Flood Risk Management – Flood Hazard and Risk Mapping

**CONTRACT:** Development of the National Mapping System and implementation of the European Union Directive for flood-prone areas in the Jucar River Basin

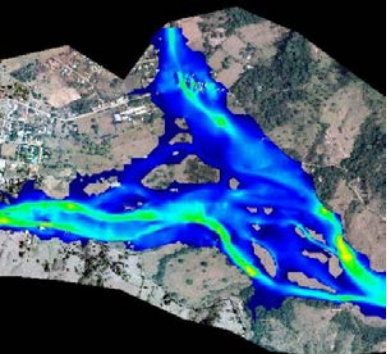
**CLIENT:** Jucar River Basin Authority

**LOCATION:** Jucar River Basin (Spain)

**PERIOD:** 2008-2015



## Flood Risk Management – Structural Measures Design

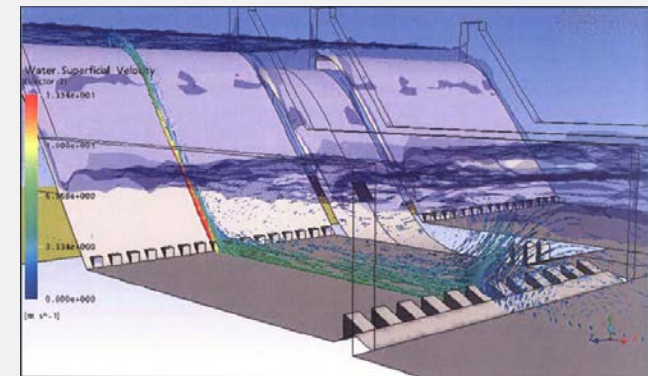


CONTRACT: Design of a flood control dam  
in the Serpis River Basin.

CLIENT: ACUAMED – Aguas de las Cuencas  
Mediterráneas, S.A.

LOCATION: Valencia (Spain)

PERIOD: 2005 - 2007



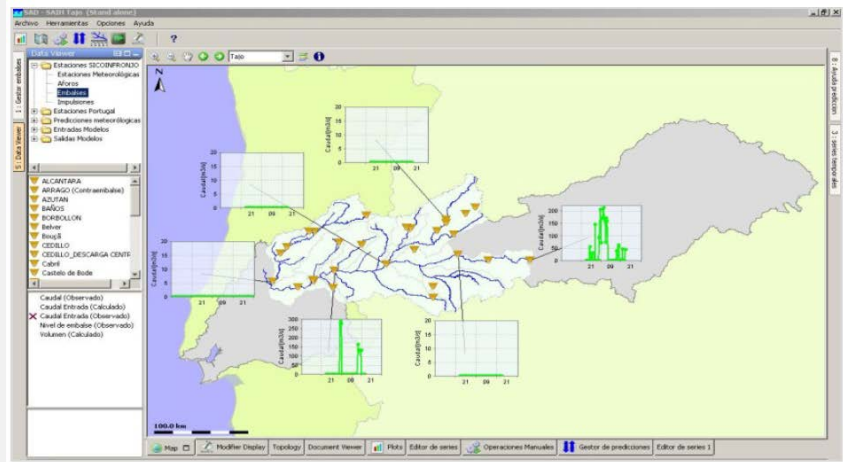
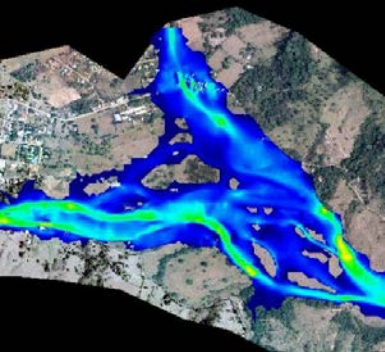
# Hydro-meteorological networks



- Detailed Design & Implementation
- Works Supervision
- Hydro-meteorological forecasting
- Feasibility Studies
- Decision Support Systems
- Flood Early Warning Systems
- Operation and maintenance



# Hydro-meteorological Networks – Detailed design

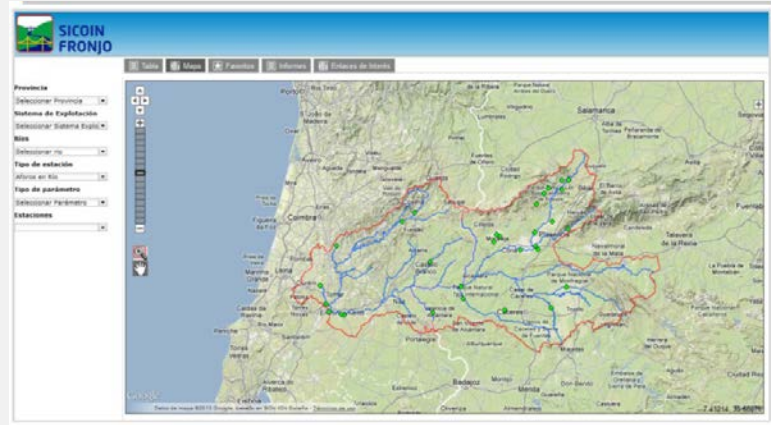


CONTRACT: Detailed design for the joint Automatic Hydrological Information System in the cross-border section of the Tagus river basin – SICOINFRONJO.

CLIENT: Tagus River Basin Authority

LOCATION: Tagus River Basin (Spain)

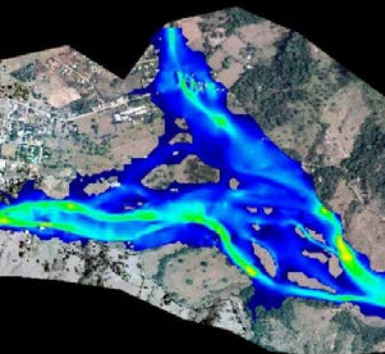
PERIOD: 2012 - 2013



## Hydro-meteorological Networks – Works supervision

CONTRAT: Works supervision for the implementation of the Automatic Hydrological Information System (AHIS) at the Northern River Basin.

CLIENT: Northern River Basin Authority  
LOCATION: Northern Basin (Spain)  
PERIOD: 2004 - 2008



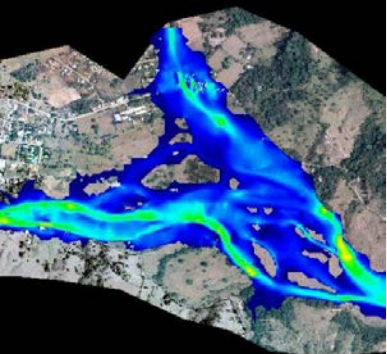
## Hydro-meteorological Networks – Operation & Maintenance

**CONTRACT:** Maintenance and operation of the Tagus river basin Automatic Hydrological Information System (AHIS).

**CLIENT:** Tagus River Basin Authority

**LOCATION:** Tagus River Basin (Spain)

**PERIOD:** 2007 - 2016



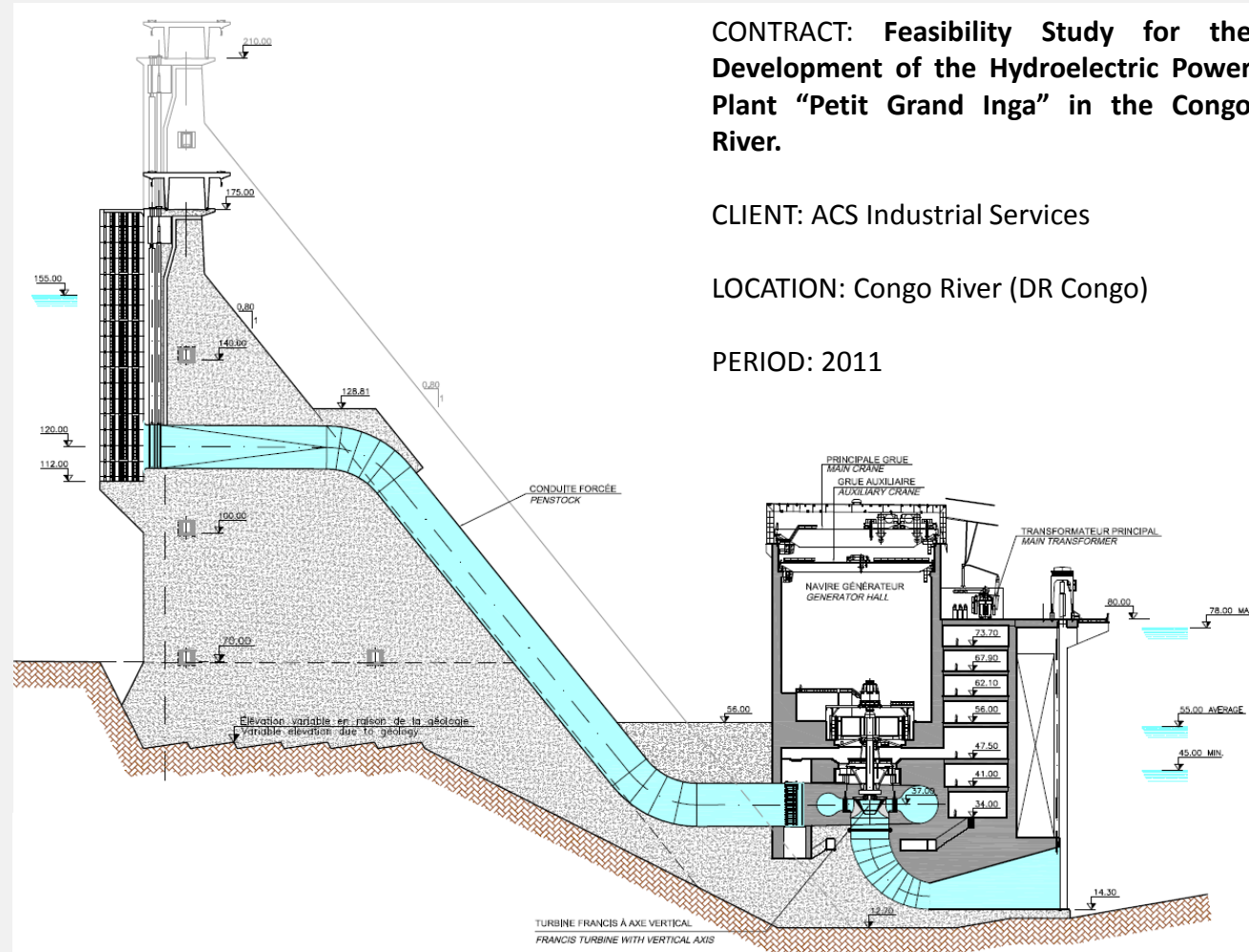
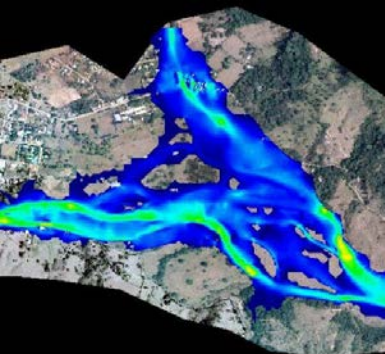
# Hydropower



- Prefeasibility and feasibility design
- Detailed design
- Works supervision



## Hydropower



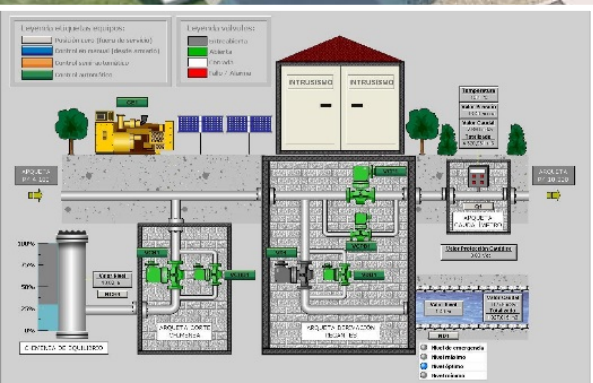
CONTRACT: Feasibility Study for the Development of the Hydroelectric Power Plant "Petit Grand Inga" in the Congo River.

CLIENT: ACS Industrial Services

LOCATION: Congo River (DR Congo)

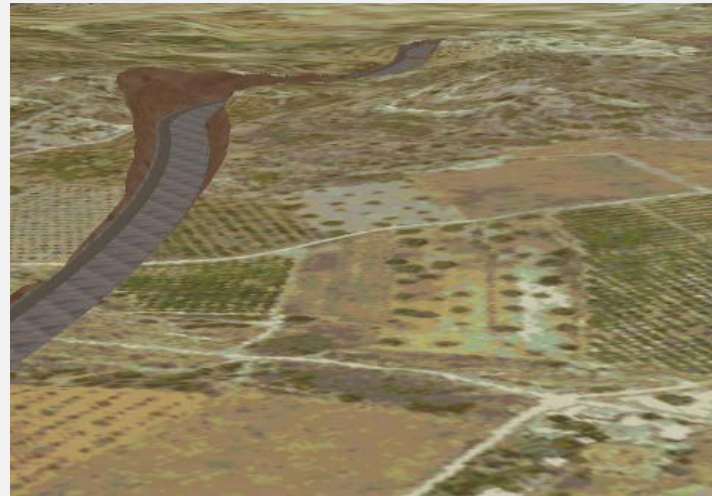
PERIOD: 2011

# Water supply, water treatment and water sanitation



- Feasibility studies
- Detailed design
- Works supervision
- Tendering documents
- Operation & Maintenance

**Water supply – Detailed design (Channel + underground pipe)**

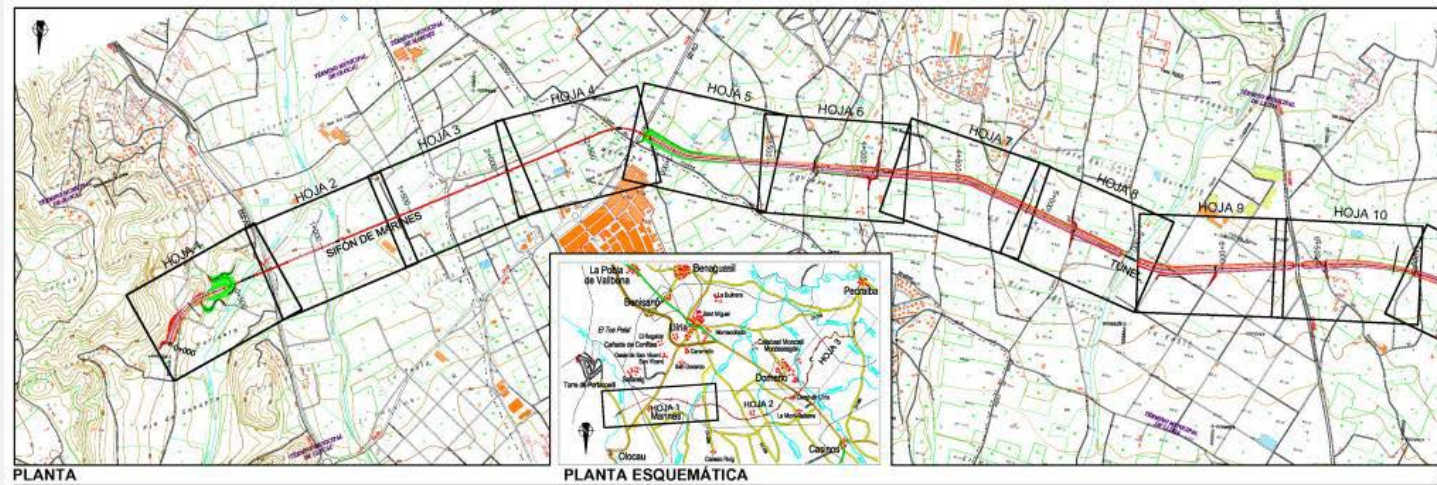
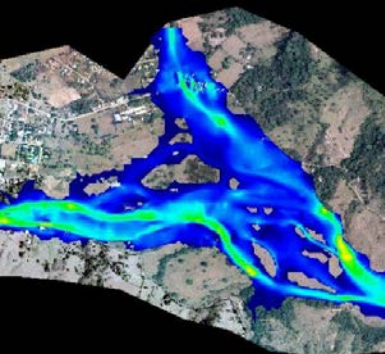


**CONTRACT:** Detailed design of the Hydraulic Infrastructure for the Ebro River Water Transfer. Southern Branch: Southern Mouth of La Calderona Tunnel at the start of Turia Siphon.

**CLIENT:** Ministry of the Environment

**LOCATION:** Valencia (Spain)

**PERIOD:** 2003 - 2004



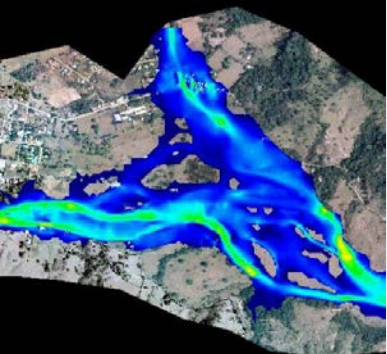
## Water supply – Works Supervision (Pipeline)

**CONTRACT:** Supervision of works in the Cáceres water supply from Portaje reservoir.

**CLIENT:** Tagus River Basin Authority

**LOCATION:** Caceres (Spain)

**PERIOD:** 2011 - 2013



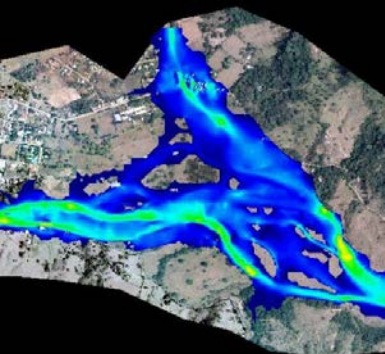
## Water treatment – Works

**CONTRACT:** Design and execution of civil works, equipment and pipe supply, operation and maintenance of the Abi-Gharap Water Project.

**CLIENT:** Ministry of Municipalities and Public Works – General Directorate of Water

**LOCATION:** Babylon (Iraq)

**PERIOD:** 2013 - 2016

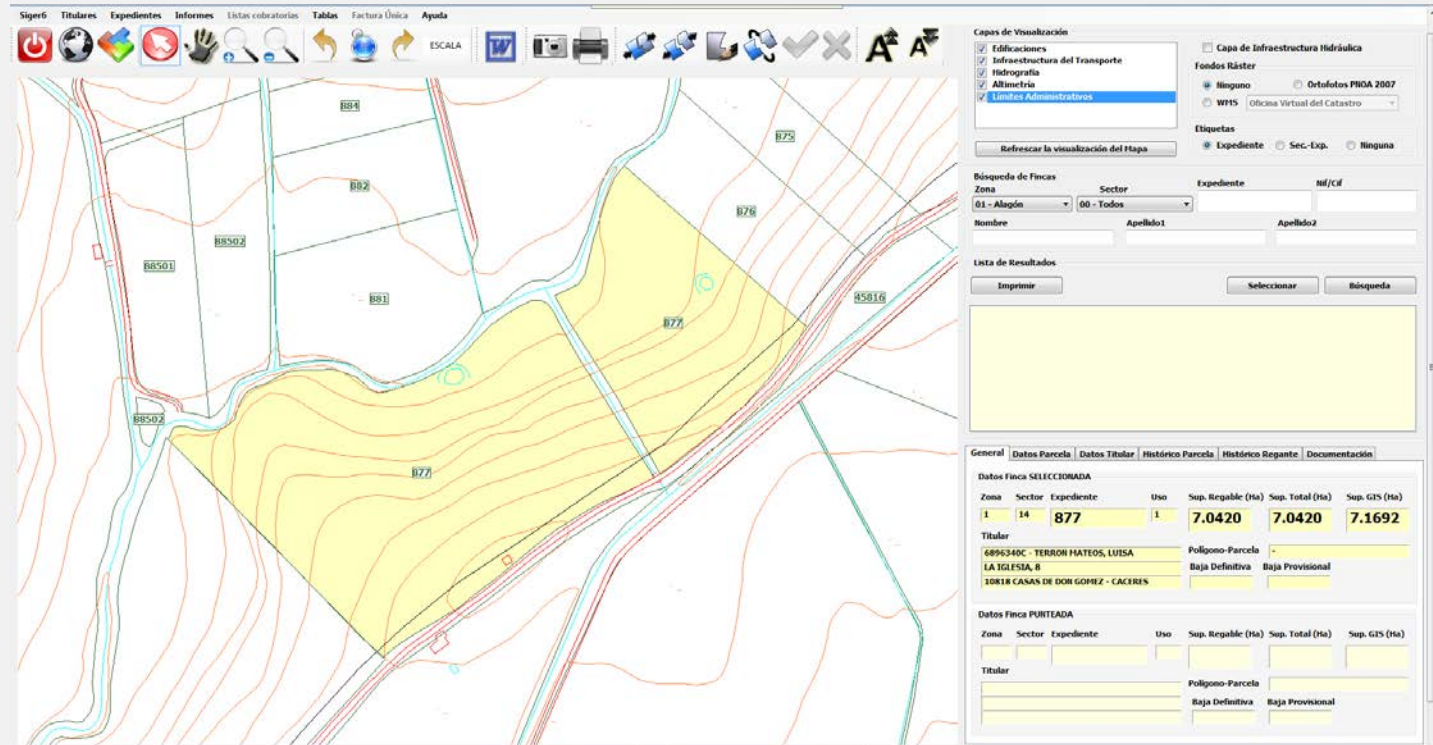


# Irrigation



- Feasibility studies
- Detailed design
- Works supervision
- Management systems

## Irrigation – Integrated Management System



**CONTRACT: Operation and maintenance of the integrated management system of irrigation inventory and regulation system for the Tagus River Basin (charges and taxes).**

CLIENT: Tagus River Basin Authority

LOCATION: Tagus River Basin (Spain)

PERIOD: 2012 - 2018

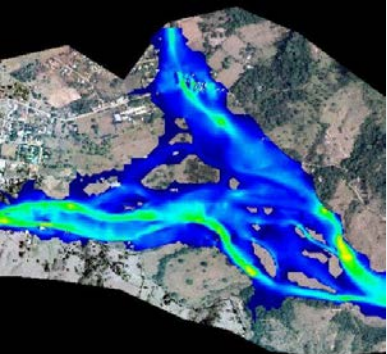


## River restoration

- Analysis of pressures and impacts
- Detailed design
- Works supervision



## River Restoration – Detailed design



**CONTRACT:** Development of the national river restoration strategy in the Guadiana River Basin.

**CLIENT:** Guadiana River Basin Authority

**LOCATION:** Guadiana River Basin (Spain)

**PERIOD:** 2008 - 2011



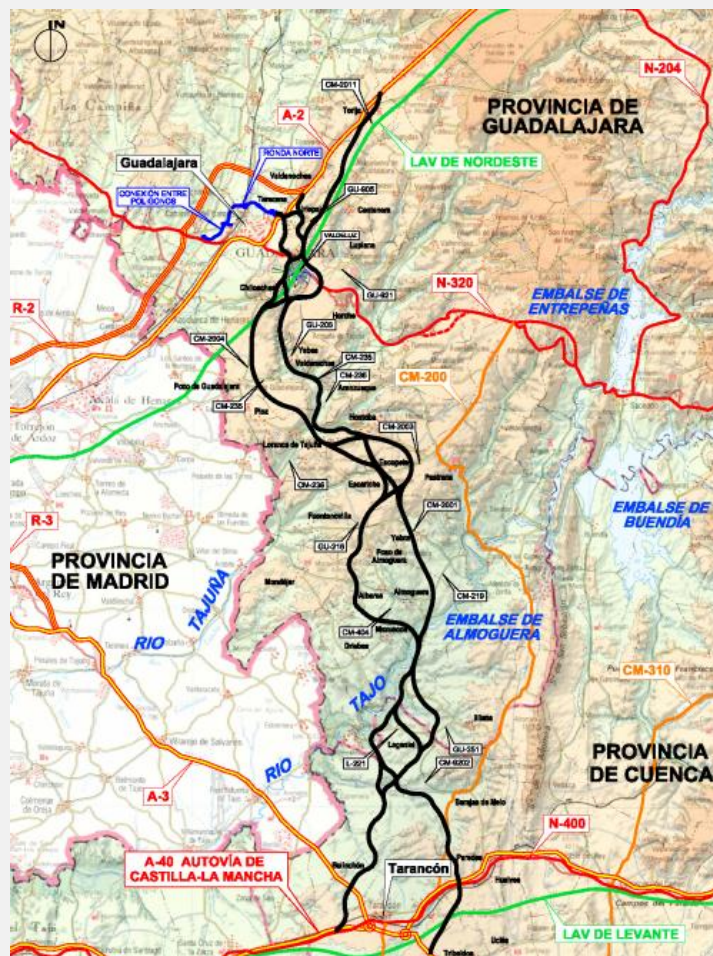
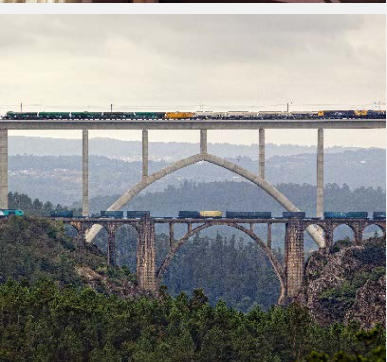
# Roads and Highways

- Feasibility studies
- Detailed design
- Works supervision



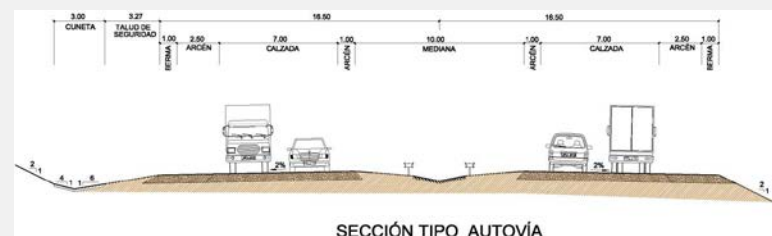


## Roads and Highways – Feasibility studies



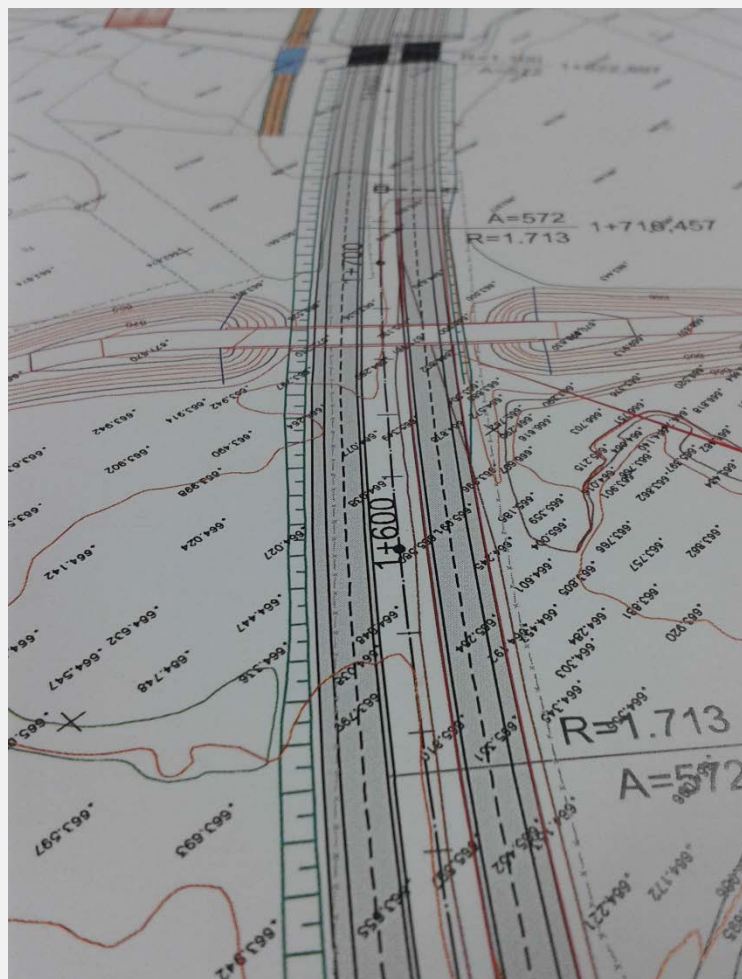
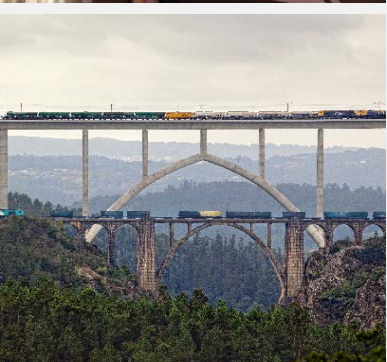
CONTRAT: Feasibility study for La Alcarria Highway, connecting A-2 and A-40 Highways.

CLIENT: Castile-La Mancha Regional Government  
 LOCATION: Guadalajara y Cuenca (Spain)  
 PERIOD: 2003 - 2006





## Roads and Highways – Detailed design



CONTRACT: Detailed design of the A-43 Highway. Extremadura –Comunidad Valenciana. Section: Puertollano by-pass.

CLIENT: CLIENT: Directorate-General for Roads. Ministry of Public Works

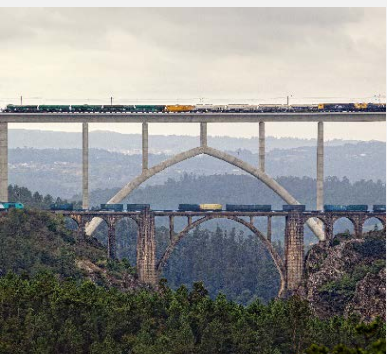
LOCATION: Ciudad Real (Spain)

PERIOD: 2010 - 2016





## Roads and Highways – Works supervision



**CONTRACT:** Works supervision for the A-7 Mediterranean motorway. Stretch: Almuñécar (Taramay) – Salobreña (Lobres) and connection with the A-44 motorway.

**CLIENT:** Directorate-General for Roads. Ministry of Public Works

**LOCATION:** Granada (Spain)

**PERIOD:** 2005 - 2015



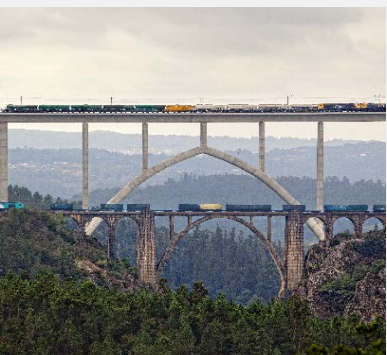
# Railways and Metro



- Feasibility studies
- Detailed design
- Works supervision



## Railways and Metro – Detailed design (High Speed Rail)



**CONTRACT:** Detailed design for the high speed railway deck Madrid-Extremadura route.

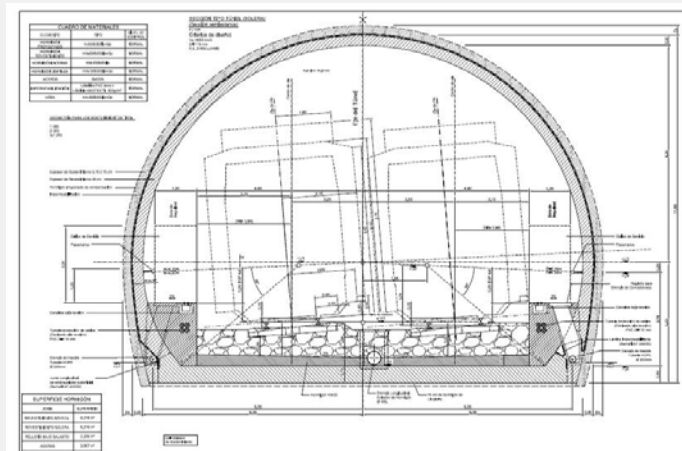
**Section:** Caceres-Talayuela.

**Subsection:** Grimaldo-Casas de Millán.

**CLIENT:** ADIF - Administrator of Railway Infrastructures

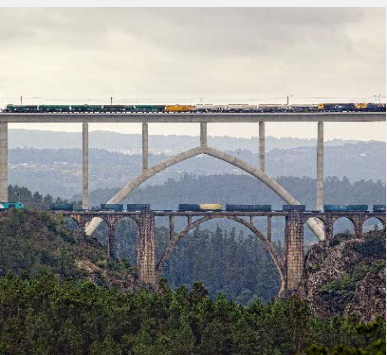
**LOCATION:** Caceres (Spain)

**PERIOD:** 2009 - 2010





## Railways and Metro – Detailed design (Light Rail)



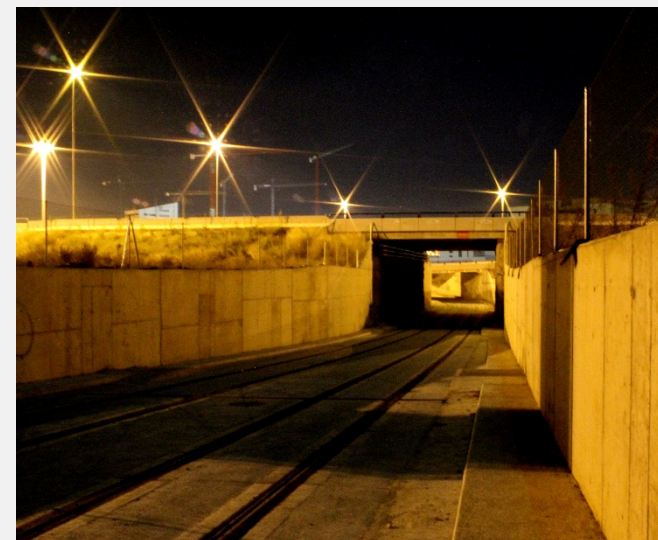
**CONTRACT:** Detailed design of the track infrastructure and superstructure of Metropolitan Line 1 of the Light Rail of Granada.

**Section:** Campus de la Salud – Armilla.

**CLIENT:** Andalusia State Organization for Railway Management

**LOCATION:** Granada (Spain)

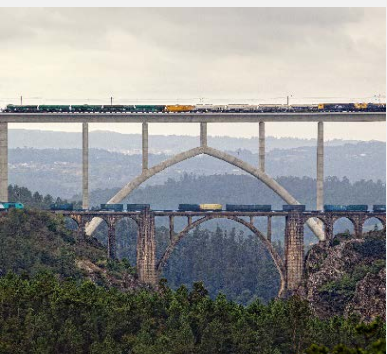
**PERIOD:** 2005 - 2006







## Railways and Metro – Works Supervision (High Speed Rail)



**CONTRACT:** Works Supervision at the “North-northeast corridor of the Madrid-Galicia HST route. Section: Zamora-Lubián. Subsection: Cernadilla-Pedralba de la Pradería. Deck”.

**CLIENT:** ADIF - Administrator of Railway Infrastructures

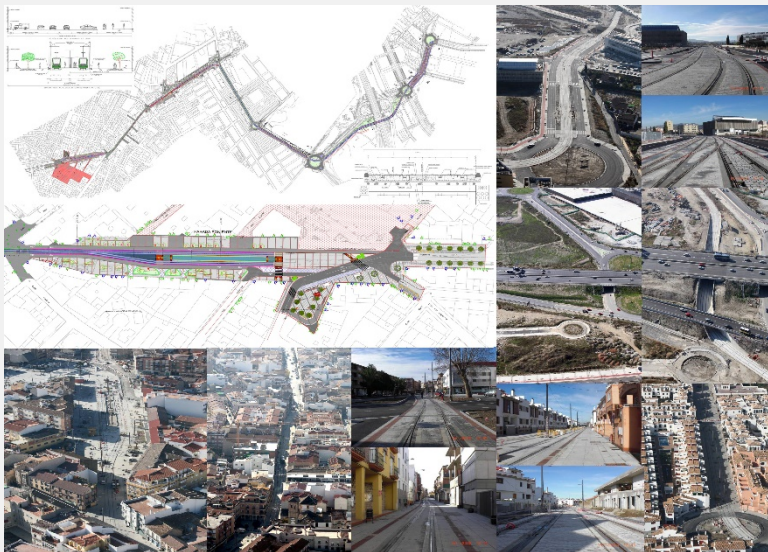
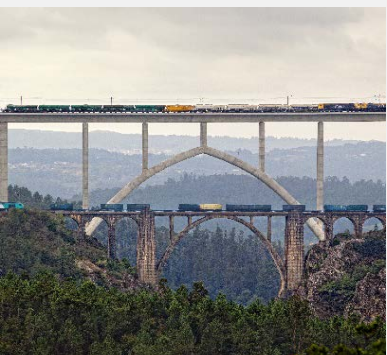
**LOCATION:** Zamora (Spain)

**PERIOD:** 2010 - 2016





## Railways and Metro – Works Supervision (Light Rail)



**CONTRACT:** Construction supervision  
Metropolitan Line 1 Granada Light Rail,  
Section III: Campus de la Salud – Armilla,  
and Section I.2: Villarejo – Méndez Núñez

**CLIENT:** Ferrocarriles de la Junta de Andalucía

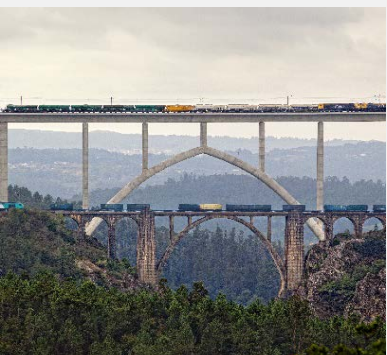
**LOCATION:** Granada (Spain)

**PERIOD:** 2007- 2016





## Railways and Metro – Level Crossing (Design)



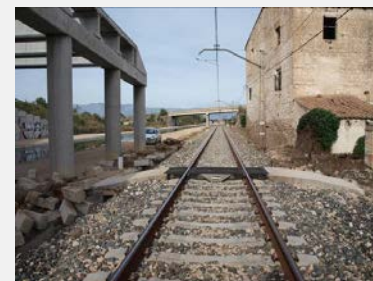
**CONTRACT:** Detailed design for the deconstruction of three level crossings on the Ripoll-Puigcerdá line, three level crossings on the Silla-Cullera-Gandía line, three level crossings of the Torralba-Soria line, three level crossings on the Tortosa L'Aldea line and one level crossing on the Valencia-Tarragona line.



**CLIENT:** Administrador de Infraestructuras Ferroviarias (ADIF)

**LOCATION:** Gerona, Valencia, Soria and Tarragona (Spain)

**PERIOD:** 2010 - 2013



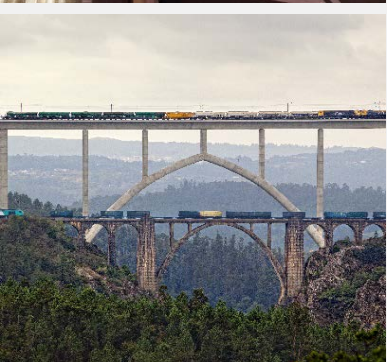
# Bridges and Viaducts



- Routine, main, special and watercourse inspections
- Instrumentation and load tests for acceptance, for assessment of the load-bearing capacity and investigation tests
- Structure repair, reinforcement and adaptation designs



## Bridges and Viaducts – Load testing and inspections



**CONTRACT:** Load testing and bridge inspections at the high-speed railway between Madrid and Galicia. Section: Silleda (Carboeiro) - Santiago de Compostela.

**CLIENT:** ADIF - Administrator of Railway Infrastructures

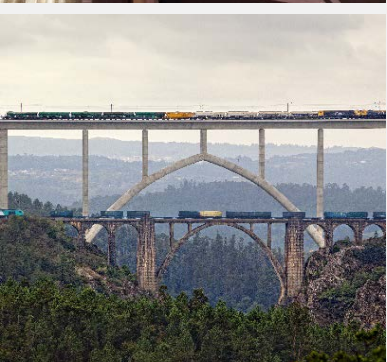
**LOCATION:** Galicia (Spain)

**PERIOD:** 2011 - 2012





## Bridges and Viaducts – Load testing and inspections

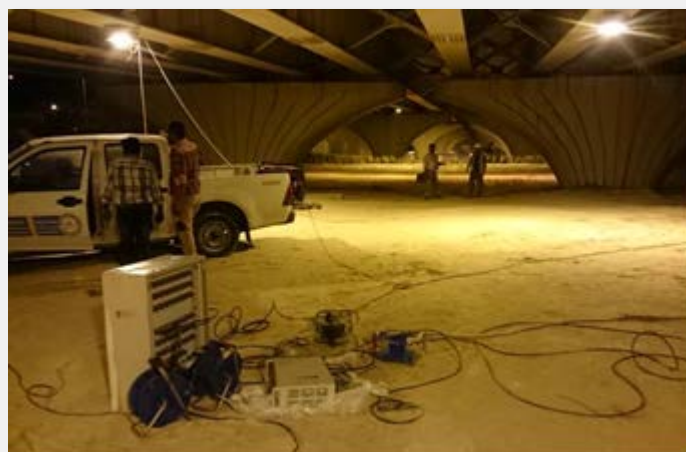
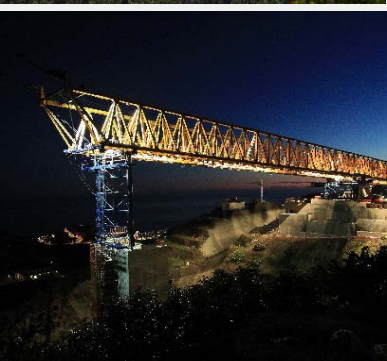


**CONTRACT:** Inspection, supervision of works and implementation of a dynamic load test at the K3 - Prince Salman - Single Point Interchange Bridge

**CLIENT:** Municipality of Dammam

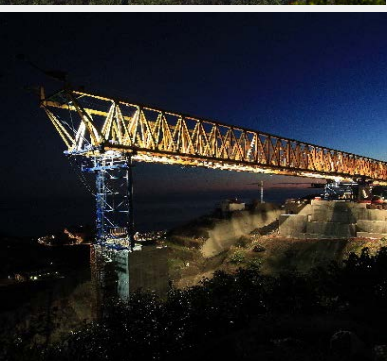
**LOCATION:** Dammam (Saudi Arabia)

**PERIOD:** 2015-2016





## Bridges and Viaducts – Monitoring and Surveillance

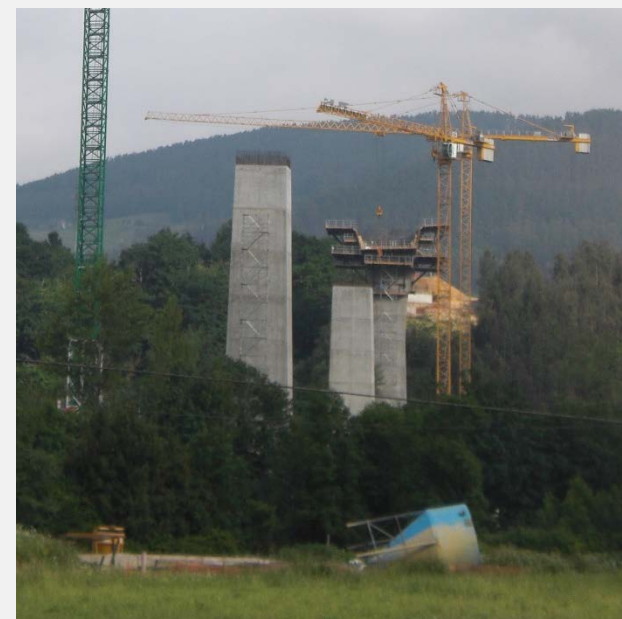


**CONTRACT:** Monitoring of the bridge over the Narcea River, at the A-63 Highway, Oviedo-La Espina

**CLIENT:** Acciona Infraestructuras

**LOCATION:** Asturias (Spain)

**PERIOD:** 2010-2016





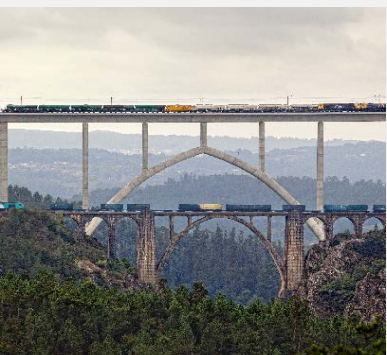
# Tunnels

- Monitoring plan design
- Implementation of the monitoring plan
- Information management





## Underground Works – Monitoring and Surveillance



CONTRACT:

**Implementation of the monitoring system at Line 5. The Riyadh Metro Project.**

CLIENT: FAST Consortium

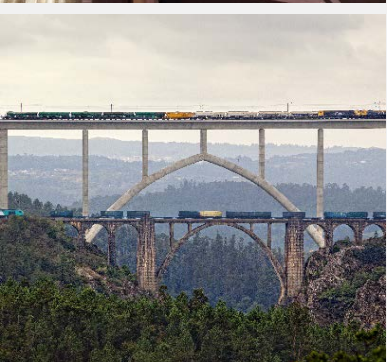
LOCATION: Riyadh (Saudi Arabia)

PERIOD: 2015 - 2017





## Underground Works – Monitoring and Surveillance

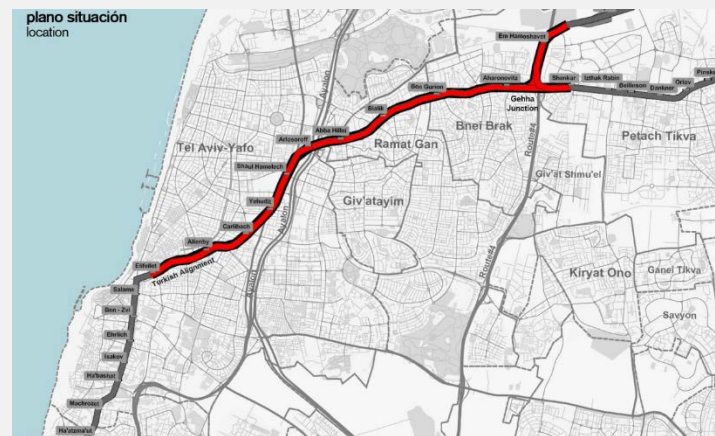


CONTRACT: Implementation of the monitoring system at several tunnels and two metro stations (Ben Gurion and Aharonovitch) of the Red Line (LTR Light Train Transit).

CLIENT: JV China Civil & Danya Cebus  
FINAL CLIENT: NTA

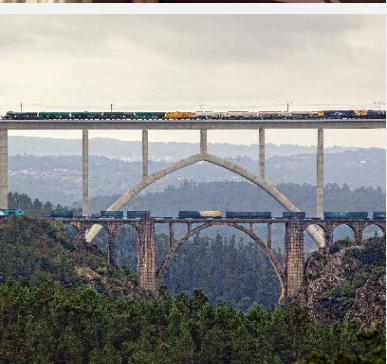
LOCATION: Tel Aviv (Israel)

PERIOD: 2016-2020





## Underground Works – Monitoring and Surveillance



CONTRACT: Extension to the Madrid Metro System  
• Line 7 and Metro-Este  
• Line 4: Mar de Cristal - Parque de Santa María y Parque de Santa María - Cocheras

CLIENT: Madrid Regional Government

LOCATION: Madrid (Spain)

PERIOD: 1995-1999 and 2003-2007





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