REMOTE DATA MANAGEMENT FOR DAM MONITORING

Damdata is a **web application for integrated monitoring data management**.

This tool integrates all safety relevant data allowing a user-friendly follow-up and dam behavior analysis.

Damdata is a **technical support for the whole process of monitoring data management:** acquisition, evaluation and interpretation. Moreover, it is a useful tool for decision makers because it summarizes and includes all the relevant information, survey readings into information.
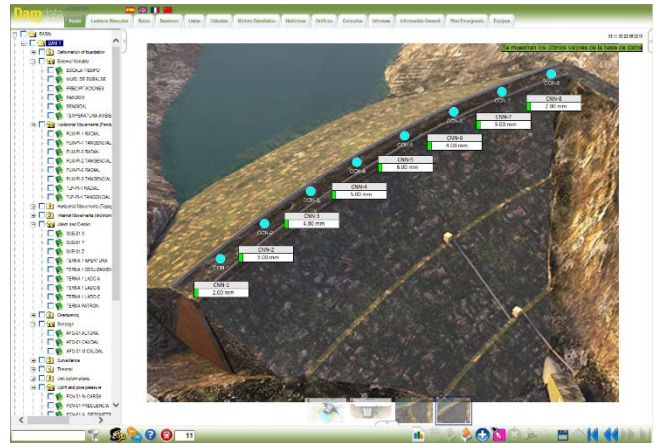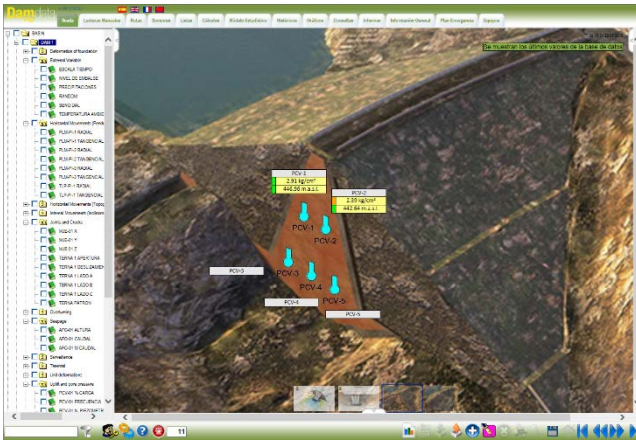
It is being used in **more than 150 dams** survey construction, first filling and operation for public and private dam owners.

Its flexibility and versatility allow:

- Running with any internet browser without software downloading or installation.
- Individual access by user and password using any device with internet connection.

- Users can configure all functions.
- Users can administrate reading and writing permits.
- Database (SQL or My SQL) server can be chosen between these options:
  - **Cloud:** virtual server provided by OFITECO, who will make updates, backups and IT support.
  - **In-house**: OFITECO will install a server in client's desired location (generally, dam's IT room or client's offices). Damdata can be also integrated on its computing environment.

Moreover, Damdata is complementary with several engineering services also provided by OFITECO, such as safety inspections, monitoring reports, dam reviews, manual readings and equipment maintenance.

OUTPUTS:

- ✓ **Acquisition and real-time processing** of geotechnical, structural and environmental data from all type of sensors and dataloggers as well as survey data from total stations and levels.
- ✓ **Incorporation of manual readings** collected by portable devices or files importation.
- ✓ **Planning and tracking** of manual readings and maintenance. Assignment of personnel and resources.
- ✓ **SCADA display**: sensor's view and readings, superimposed on the dam drawing.
- ✓ Flexible configuration of graphs, tables, images and reports.
- ✓ **Alert and warning** manager. Several thresholds can be defined.
- ✓ Analysis and behavior package – statistical analysis module.
- ✓ **Programmable calculation engine** suitable for all sensors and equipment brands and manufactures.