MAS _consulting_
Modelli Avanzati di Simulazione per il business

THESEUS

HYDRAULIC SIMULATION SYSTEM

> **THESEUS**
> is currently being developed to assist in simulating and planning operations on a hydraulic system. Its goal is to achieve high speed and precision, thus ensuring the safety of the operations being planned.

THESEUS Worldwide

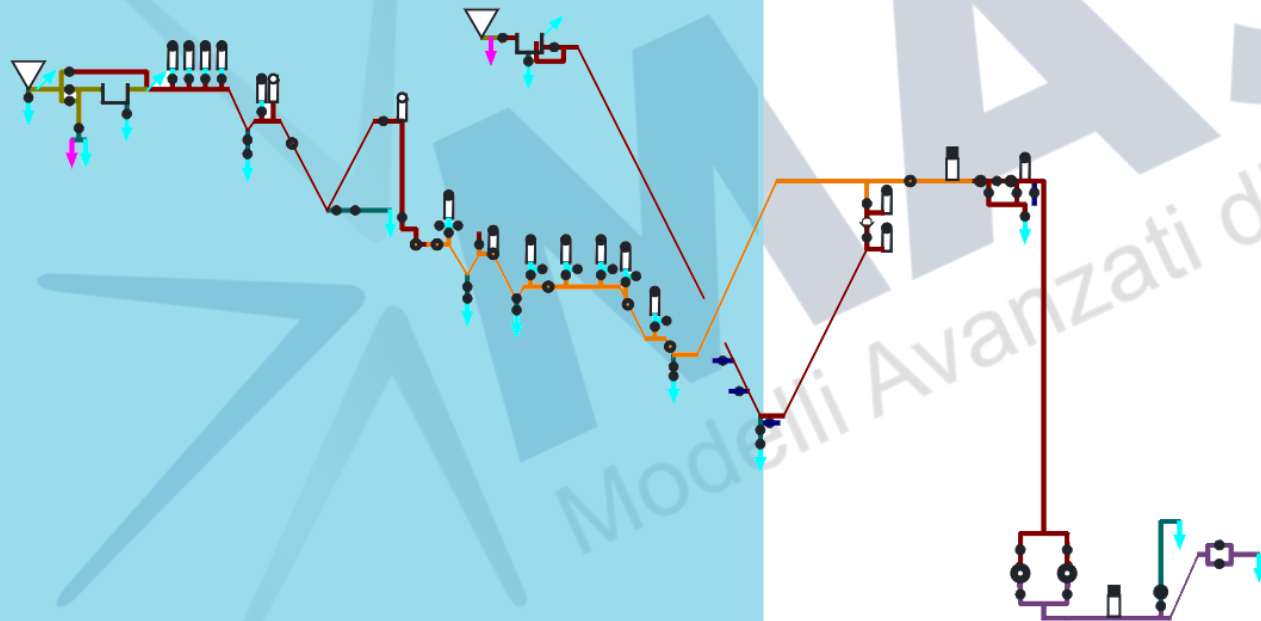**5** MAPPED PLANTS (2023)

3125 SYSTEM COMPONENTS (2023)

36 MAPPED SCHEMES (expected 2024)

www.mas-co.it

Features and Functionalities

THESEUS provides an advanced software for the **simulation of flows** within **hydraulic systems**, with a focus on **hydropower.**

Its goal is to achieve high speed and precision, thus ensuring the **safety** of the **operations** being planned. **THESEUS** will make it possible to:

- Simulate the operations of the different plant sections, ensuring **reliable** and **efficient management of hydraulic procedures**

- Upload the **documentation** for each individual component (manuals, instructions, images, etc...)

- **Geolocate** each individual component to support field operations

- Generate exhaustive **reports** of the operations to be carried out to perform safety manoeuvres

Competitive Advantages

A distinctive feature of this tool is its sophisticated **simulation algorithm**. This algorithm, being based on **universal principles**, can easily be customised to the requirements of each system.

DIGITAL REPOSITORY

The hydraulic simulation software application, THESEUS, is intended as a digital **repository** of all necessary **documentation** regarding the hydraulic system in a single platform.

INTEGRATIONS

THESEUS will be able to integrate with **other platforms of the Client**, for real-time monitoring of the status of each component of the system and the measurements acquired.

EFFICIENT MANAGEMENT

The hydraulic systems mapped into the software are visualised by means of custom schemes, and the **geolocated** components of such schemes are shown on the map. Through a dedicated page, it is possible to **simulate safety operations** using the custom schemes.

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