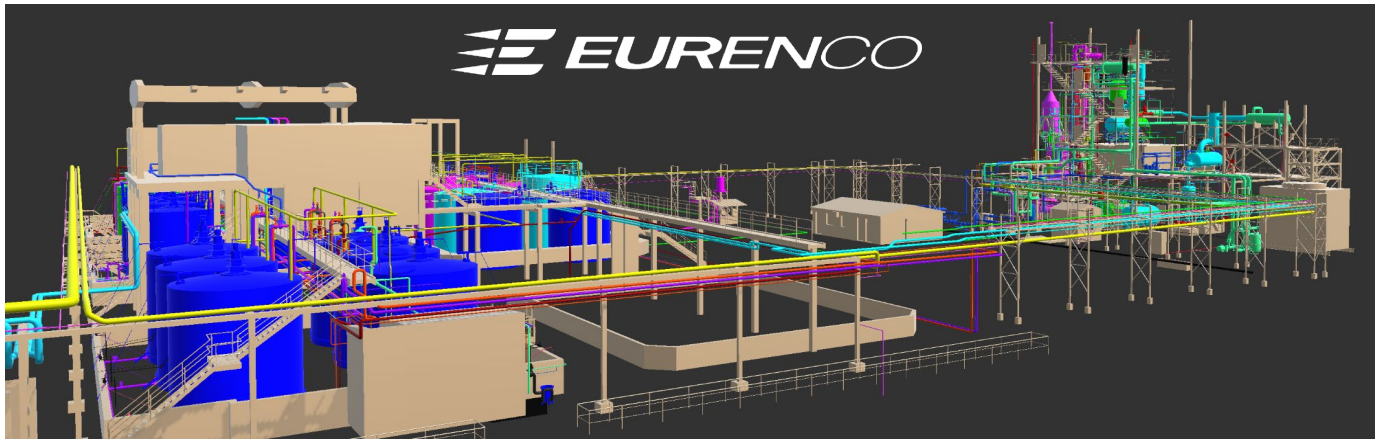
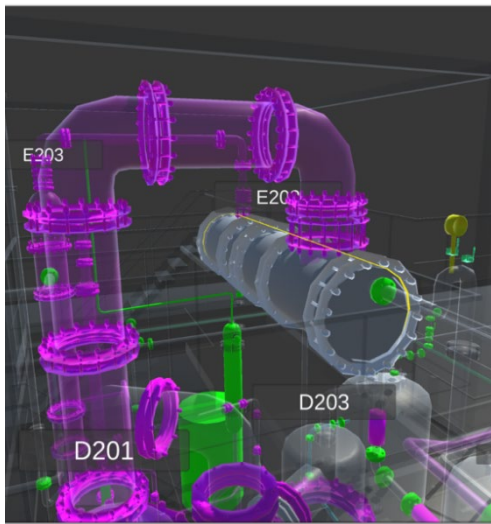




3D Modelling at the service for training EURENCO operators

EURENCO is the European leader in military explosives, propellants and fuels. The company also supplies explosives for the civil sector, particularly in the oil and mining sectors. EURENCO's technical installations are complex and extensive. They require special intervention procedures, and the training of operators is a critical issue for a number of reasons:

- It takes a minimum of 3 to 6 months,
- It involves a trainer for the duration of the course,
- The facilities are not always accessible during operation,
- It is not possible to train for emergency situations.



Issues

In the coming years, EURENCO will have to increase its production significantly, and the company is faced with the challenge of effectively training its operators while optimising resources and guaranteeing safety.

How can EURENCO teams train their operators efficiently, without monopolising trainers and facilities, while covering all situations, including emergencies?

Solution

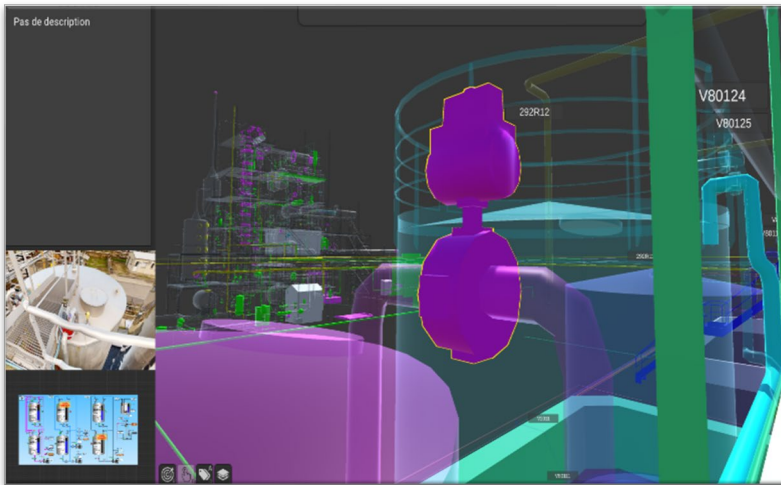
YZAR stepped in and proposed the creation of a true digital twin of the acid storage and processing line, combining three representations:

1. Block diagram
2. The real vision of the installations
3. 3D modelling

This innovative visualisation solution will enable EURENCO's training teams to project a precise, animated and interactive representation of the installations, making it easier to understand procedures and equipment.

Thanks to the application developed by YZAR, trainers and learners now have access to :

- An interactive copy of the synoptic,
- A complete virtual tour of the facilities,
- An animated 3D digital model,
- Information displayed in Augmented Reality,
- Training scenarios.



Learners can interact with these representations as if they were in front of the real installations, moving around, zooming in and out to better understand the mechanisms and procedures.

In addition, they have access to detailed information on each piece of equipment and will soon be able to follow specific training scenarios, including emergency situations.

Benefits

Thanks to this 3D visualisation solution, EURENCO anticipates a significant improvement in its training courses. The technology makes it possible to present installations in a more immersive and detailed way, while offering several advantages:

- Reduction in training time (a 50% saving is expected),
- Optimising resources by reducing the number of trainers required,
- Training can be provided at facilities that are not accessible, under construction or in operation,
- Ability to train in emergency situations in complete safety,
- Greater take-up by new generations of learners thanks to more modern and immersive learning solutions,
- Homogenisation of training levels for all learners.



"This solution will revolutionise our approach to training. We will be able to train our operators more effectively, more safely and more comprehensively, while optimising our resources," says a EURENCO manager.

With this digital twin available in several viewing modes, EURENCO is transforming the way it trains its operators on its complex installations. The use of 3D modelling and different viewing modes is breaking down barriers to access to installations and making training more effective and comprehensive than ever.