



AUTOMATED PRESSURE TUBE EXTRACTION FOR THE NUCLEAR REACTOR OF THE BRENNILIS POWER PLANT

PROJECT ACHIEVEMENTS

- Setting up a simulator to identify feasible extraction trajectories
- Identification of extraction paths compatible with environmental constraints
- Implementation of a robotic architecture to perform extraction
- Installation of the visual servoing system to extract the pressure tubes automatically
- Validation thanks to a scale-down mock-up

FETCH PROJECT | 2021 - 2022

The aim of the FETCH project was to initiate the design of an automatic robot architecture for use in nuclear decommissioning.
The methodology developed will be applied to the development of a mobile robot for cutting and transporting pressure tubes.



3 YRS



€500k



TECHNICAL AND ECONOMIC IMPACTS

Automation of tasks currently performed by remote operation
Increased pressure tube extraction rate

APPLICATIONS & INDUSTRIAL PERSPECTIVES

The technological and methodological building blocks developed in this project open up interesting prospects for the nuclear sector, for the automation of additional tasks, and for reuse of dismantling resources for future worksites. Through this project, IRT Jules Verne was able to provide a solution to an industrial problem in a sector of activity in which it was a newcomer, and the methodology put in place for this project may be used again in the future for other industrial applications.

