

# Project: Radiological Characterization during Decommissioning

## Introduction

This project was made possible by funding of the Energy Transition Funds (ETF). This fund aims to encourage and support research and development linked with innovation.

During the project we gained knowledge to assist in the in-situ characterisation of potential radioactive waste and the automatic radiological characterization of large quantities of waste resulting from the decommissioning of nuclear sites.

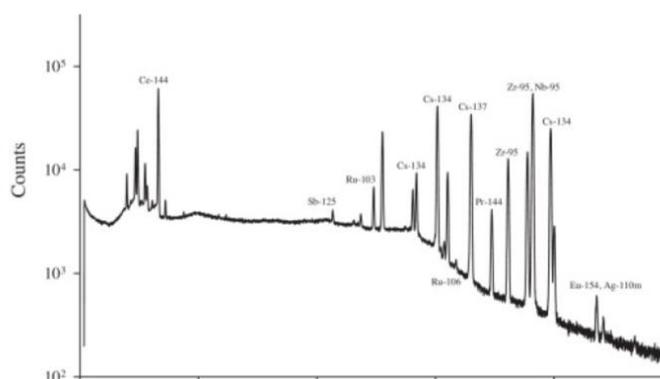
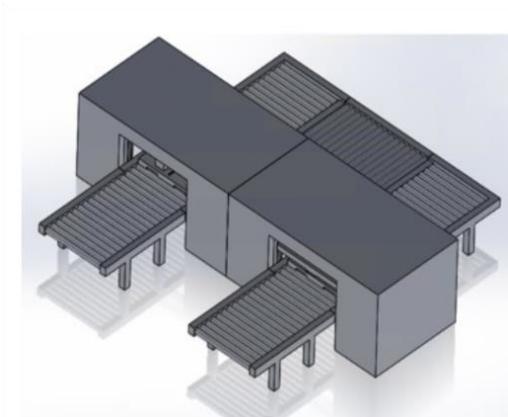
## Project scope

During the project we developed an expertise and know-how about the different techniques that could be implemented for in-situ characterisation. This information can be used to do a preliminary characterisation. This data can then be used for future categorisation of the waste.

Another expertise we gained during the project is regarding the implementation of automatic measurement techniques that can be used for the characterisation of large quantities of waste coming from the decommissioning of nuclear sites. We developed a concept that allows us to do an automatic characterisation of 400l-drums or concrete packages.

## Services we can offer

- Selection of measuring devices and detectors;
- Selection and implementation of associated software;
- Development of site-specific, versatile and automated measurement solutions;
- Measurements on site;
- Processing of measurement results and subsequent interpretation.



# Project: Automatization of free release measurements

## Introduction

This project was made possible by funding of the Energy Transition Funds (ETF). This fund aims to encourage and support research and development linked with innovation.

Currently today it's a manual task to do the free release of building and concrete structures during dismantling of a nuclear facility. During this project we developed systems that can facilitate and speed up the process of data processing and free release of walls and ceilings.

## Project scope

During the project we designed two systems that can be used for the data acquisition for the free release of concrete walls and structures.

The first system makes use of standard measuring devices connected to a ultrasound system. By doing this the system will automatically link measurements results with a location. This data will be saved in an easy to use format and the traceability of the results will be assured.

The second systems makes use of 5-6 measuring devices that can be operated by one single person and can be used simultaneously for data acquisition. By using 5-6 measuring devices simultaneously we can speed up the process of free release of buildings and structures. The data will be processed by a PLC and saved in a easy to use format.

## Services we can offer

- Performing the free release of buildings and structures
- Training of operators
- Data processing and traceability of measurement results

