



MICADO

*Measurement and Instrumentation for
Cleaning And Decommissioning Operations*

847641, H2020 NFPR 10 -2018

Report Deliverable D3.1:

Project Website

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Project Coordinator:	COSTRUZIONI APPARECCHIATURE ELETTRONICHE NUCLEARI (CAEN), IT
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Executive Summary

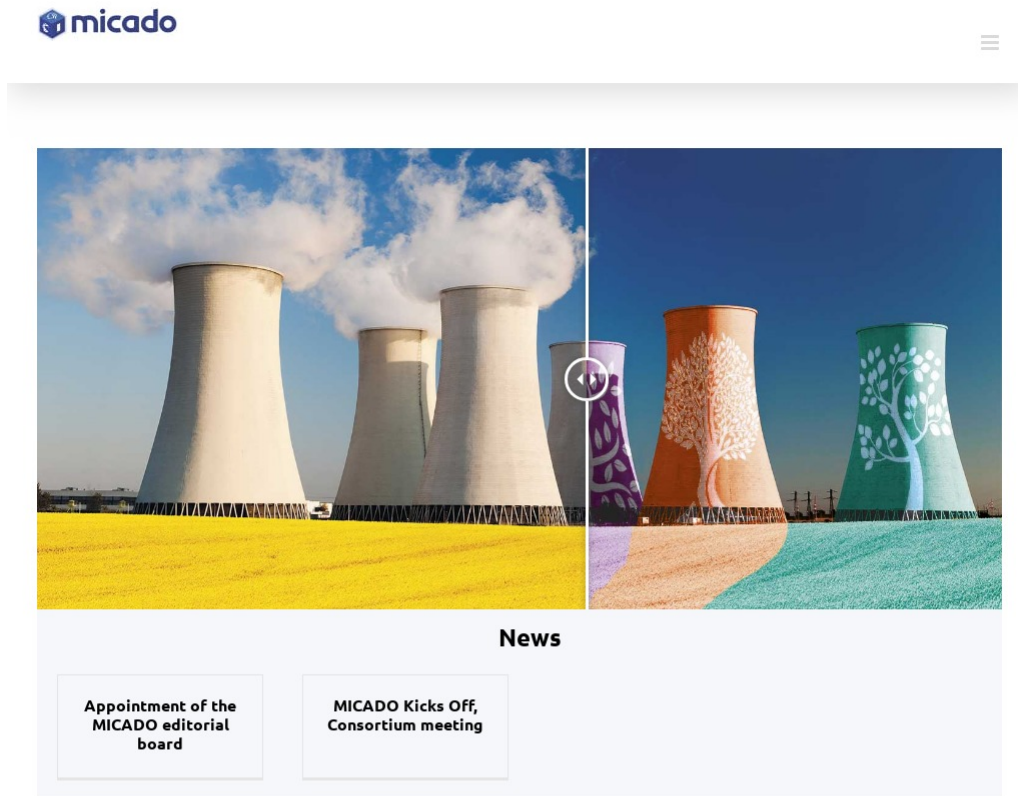
The MICADO project website has been developed by CAEN using Wordpress.

The graphical layout and identity have been designed by CAEN.

The website can be accessed at <http://www.micado-project.eu>



1 The MICADO Website (mainpage)



HORIZON 2020 RESEARCH PROGRAMME

MICADO Summary

The goal of the MICADO project is to propose a cost-effective solution for non-destructing characterization of nuclear waste, implementing a digitization process that could become a referenced standard facilitating and harmonizing the methodology used for the in-field Waste Management and Dismantling & Decommissioning operations.

The D&D process of nuclear infrastructures demands methods for a full traceability of waste material to improve quality management and operational safety. Precise procedures provide twofold benefits: the optimization of costs, associated with D&D, and the minimization of the dose exposure to operators and personnel. The absence of a consistent and straightforward solution to characterize all types of materials, along with the lack of an integrated solution for digitizing the enormous amount of data produced, is a critical issue. Now the systems rely on the operator's ability to maintain high operational skills and quality assurance with precision measurements that unfortunately today very often are associating high uncertainties not allowing therefore a real optimization of the waste.

Partners



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OK



2 The MICADO Website (project tab)



Objectives

The goal of the MICADO project is to propose a cost-effective solution for non-destructing characterization of nuclear waste, implementing a digitization process that could become a referenced standard facilitating and harmonizing the methodology used for the in-field Waste Management and Dismantling & Decommissioning operations. The D&D process of nuclear infrastructures demands methods for a full traceability of waste material to improve quality management and operational safety. Precise procedures provide twofold benefits: the optimization of costs, associated with D&D, and the minimization of the dose exposure to operators and personnel.



The absence of a consistent and straightforward solution to characterize all types of materials, along with the lack of an integrated solution for digitizing the enormous amount of data produced, is a critical issue. Now the systems rely on the operator's ability to maintain high operational skills and quality assurance with precision measurements that unfortunately today very often are associating high uncertainties not allowing therefore a real optimization of the waste.

The utilization of several un-automatized instruments implies taking many notes and inserting them into specific ad-hoc format and on a database manually, without the possibility to combine data including previously available legacy data's If present. The RCMS Digi-Waste solution proposed in the MICADO project will result in a proven modular solution offering an opportunity to proactively develop a unified and standardized Waste NDA Characterization Procedure and Method that could become an international reference allowing all Nuclear Operators – Research Laboratories & Safety Authorities to facilitate their exchanges. The MICADO project involves some key EU players with major knowledge in nuclear waste having all in common the interest to converge in technologies, methods and implementing a full digitization process applied to nuclear waste management.

Project Technologies



Waste monitoring grid



Combination of measurements and uncertainty assessment



Digital waste platform



Gamma spectrometry techniques and hot spot characterization



Active and passive measurements



Linac based technique



Partners



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3 The MICADO Website (publications tab)



Publications










Deliverables

Scientific publications

Other downloads

No content at this time

Partners





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4 The MICADO Website (partners tab)


Partners



CAEN SpA

CAEN – Costruzioni
Apparecchiature Elettroniche
Nucleari S.p.A. is acknowledged
as the only company in the
world providing a complete
range of High/Low Voltage
Power Supply systems and


[Show more about CAEN SpA](#)



CEA

The French Alternative
Energies and Atomic Energy
Commission (CEA) is a key
player in research,
development and innovation in
four main areas:


[Show more about CEA](#)



**CESKE VYSOKE
UCENI TECHNICKE
V PRAZE**

The Czech Technical University
in Prague (CTU) is one of the
biggest and oldest technical
universities in Europe.


[Show more about CTU](#)



ENEA

ENEA is the National Agency
for New Technologies, Energy
and Sustainable Economic
Development


[Show more about ENEA](#)



INFN

The National Institute for
Nuclear Physics (INFN) is the
Italian research agency


[Show more about INFN](#)



Orano

ORANO is an international
industrial group offering high
value-added products and
services for the entire nuclear
fuel cycle


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SCK – CEN

SCK-CEN is one of the largest
research institutions in Belgium










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**X-RAY IMAGING
EUROPE**

X-ray Imaging Europe GmbH is
a German company producing
and selling semiconductor
detectors and electronics for X-
and Gamma-rays

Partners

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agreement No 847641



5 The MICADO Website (news tab)



News



Appointment of the MICADO editorial board

August 1st, 2019

A three members editorial board has been appointed to monitor and keep all partners informed about the progresses on outreach activities and scientific articles produced by members of the



MICADO Kicks Off, Consortium meeting

June 18th, 2018

Standardize the management of radioactive waste, starting from their non-destructive characterization to transport, storage and real-time monitoring. This is the objective of the MICADO Project (Measurement and Instrumentation for



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6 The MICADO Website (contacts tab)



Contact

In order to get in touch with the **MICADO** project please use the contact form below.

Full Name	Email*	Organization
<input type="text" value="Name and surname"/>	<input type="text"/>	<input type="text" value="e.g. Stark Industries"/>










Message

☐ I hereby declare that I agree that my contact details can be used to receive additional information on the project MICADO

☐ I have read the information about the Privacy Policy and i agree the use of my personal data.

SEND

Partners



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7 The MICADO Private Area

A “Private Area” button on the webpage links to the collaborative workspace which has been implemented to support the information exchange between partners. The workspace is based on Microsoft SharePoint and it is managed by CAEN.