FIND

NEWSLETTER #1 - DECEMBER 2025

A word from the Coordinator

Since our Kick-Off Meeting in November 2024 at the ASNR premises in France, the FIND project has made a very positive start. Over the past year, the team has already launched a significant amount of scientific work, some of which you can read about in this newsletter.

We were also pleased to welcome two new members to the consortium, Centrale Lille Institut and CNRS, who are co-leading one of the FIND PhD theses together with ASNR. Another doctoral student is hosted by VÚEZ and the Slovak University of Technology in Bratislava, as you can learn more about them in the dedicated article below.

Following this progress, the consortium came together again in October at the VÚEZ premises in Slovakia. This meeting proved invaluable for sharing the progress made across the different work packages, discussing emerging results, and aligning on next steps. The first main technical deliverable of the project has been validated and released. The collaborative discussions and exchanges during the meeting highlighted the energy and commitment of the team, setting the stage for an exciting next phase of the project. Several large-scale experimental campaigns are planned in 2026, requiring a strong coordination among partners. They will support the test of hardware and software of the acquisition chains developed in FIND, paving the way for tests in industrial conditions.

We look forward to another year of fruitful collaborations, and continued progress across the FIND project.

Bastien Poubeau
FIND Coordinator

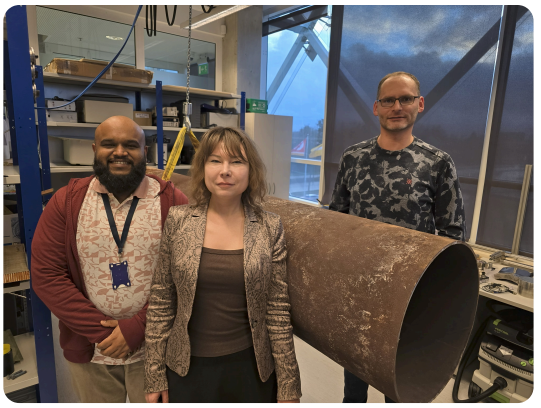
Overview of Scientific and Technical Progress

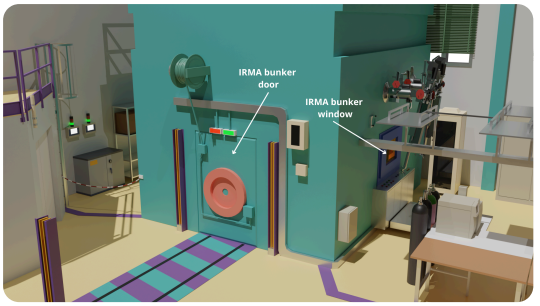
Project Activities and Key Achievements

The Siphon Replacement in Tricastin: An Opportunity to Test New Monitoring Technologies on Real Components

Thanks to a major component replacement at Tricastin, the FIND team has a rare opportunity to test advanced inspection methods on a critical nuclear power plant component. Learn more about how ultrasonic guided-wave technology could help inspect hard-to-reach areas.

Read our article >>





Testing Nuclear Instrumentation for Safety: FIND 2026 Irradiation Campaign

The FIND team will carry out an irradiation campaign in 2026. This is essential for testing and validating new nuclear-grade instrumentation, ensuring their resistance to both operational and accidental conditions.

More about our 2026 irradiation campaign >>

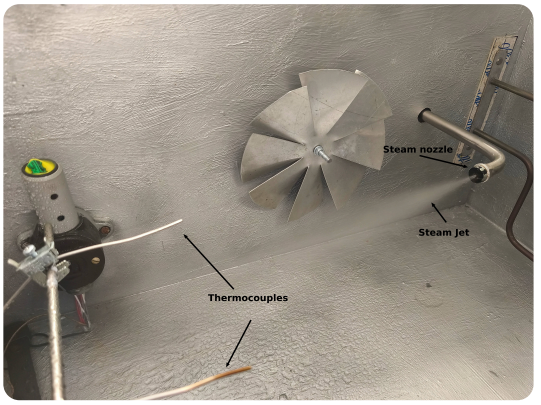
Ongoing PhD Thesis

With the addition of Centrale Lille Institut and CNRS to the consortium, FIND has strengthened its research capacity and collaboration. See below the two PhD theses carried out under FIND:

Automating Leak Detection in Nuclear Facilities using Artificial Intelligence

PhD researcher Juraj Kováč, at the Institute of Robotics and Cybernetics at the Slovak University of Technology in Bratislava and the Center for Artificial Intelligence, Robotics and Automation at VÚEZ, is developing an AI-based system to automatically detect and locate leaks in nuclear power plants, including during accidents.

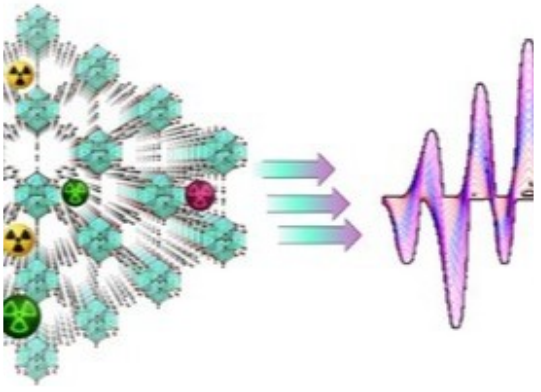
About the thesis >>



Developing Advanced Sensors for Nuclear Accident Monitoring Using Metal-Organic Frameworks

PhD researcher Ana Maria Trofin at ASNR is developing advanced sensors based on Metal–Organic Frameworks (MOFs) to detect radioactive gases like iodine during nuclear accidents, giving additional information about the accident progression.

About the thesis >>



Scientific Publications & Deliverables

Reactor performance, system reliability: instrumentation and control.

Our FIND project has published its very first scientific paper. The article explores innovative approaches to improve the safety and reliability of nuclear power plants. It reviews three projects, including FIND, that rethink traditional inspection methods by introducing advanced monitoring solutions.

Access the article >>

Deliverable D2.1 - Specifications for the online damage monitoring systems.

FIND's first major technical output is now available in Deliverable D2.1, detailing the specifications for monitoring systems working under normal operating conditions. The associated technologies are intended to strengthen the first level of defense-in-depth, related to the prevention of incidents and accidents. The specifications define objectives in terms of performance (like detection limit) and robustness.

Access the deliverable >>

Events

FIND consortium at Events in 2025

SNETP Webinar on safety and efficiency of nuclear reactors

Our partners CEA, ASNR, and TRACTEBEL participated in the webinar, presenting the FIND project and highlighting its objectives to enhance the safety and efficiency of nuclear reactors.

Access the Presentation >>

Quality Assurance and Safety Requirements for Deliveries to Nuclear Energy

Our VÚEZ partner shared their expertise at a conference in Brno, Czech Republic, contributing to discussions on quality assurance and safety in nuclear facilities.

SNETP Forum

The ASNR team participated in the SNETP Forum, presenting the official FIND poster and showcasing the project's latest developments to the nuclear research community.

Access Poster >>

As FIND uncovers more scientific insights, we look forward to participating more actively in key events, contributing our findings to the broader discussions..

Join the FIND End User Group

Interested in joining the FIND End User Group?

Joining the project's end-user group (EUG) will allow you to:

- Attend the project's annual meetings, either on-site (at your own expense) or via videoconference,
- Be consulted on the project's direction,
- Provide feedback on certain deliverables,
- Access specific project documents that are not made public.

Read more >>

FIND is on social media!
Follow us on LinkedIn to share our news with your network.

Get in touch:
contact@find-project.eu

Visit the FIND website >>

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