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FIND



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FIND Project

The Project

FIND is a groundbreaking project that brings innovative monitoring technologies to improve nuclear safety, developing smart detection systems like structural health monitoring and digital twins for nuclear facilities.

Led by **ASNR**, France's nuclear safety regulator, **FIND's** technologies are designed to be cost-effective and minimally intrusive, helping power plants operate more safely while reducing maintenance costs and worker radiation exposure, in the context of their long-term operation.



Our Objectives

1. **Develop real-time remote monitoring systems for safety-critical defects** in aging NPP metallic pipes.
2. **Develop instrumentation** to support the management of incidents and accidents.
3. **Validate innovative NDE technologies' performance** in nuclear environments.
4. **Foster new technology adoption** across the nuclear sector.
5. **Bridge communication** between operators and technology providers to enhance nuclear safety.

Our Added Value

The project draws inspiration from other **high-reliability industries**, such as **aeronautics and oil & gas**, adapting their innovations for **nuclear applications**. FIND's innovative approach combines three key technologies:

- **Structural Health Monitoring (SHM)**, continuously monitoring facility components to detect defects at an early stage,
- **Digital Twin technology**, creating sophisticated virtual models that help predict and prevent potential faults
- **Hardened instrumentation** to monitor the progression of accidents

Partners



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