

TRANSFORMATION

AT FRENCH NUCLEAR SAFETY AUTHORITY

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HOW TO BECOME MORE MODERN, MORE EFFICIENT AND MORE EFFECTIVE

- **Reinforce the implementation of a graded and efficient approach to ASN's oversight**
 - Value of an objective-based, non-prescriptive regulation (most WENRA SRLs are "SMR-ready")
 - Value of an in-depth technical dialogue with the licensees (engineer's approach vs lawyer's approach)
- **Too many rules bring complexity**
 - "Ruled" safety vs "Managed" safety
- **Europe brings the opportunity of benchmarks**
 - Joint safety approach (WENRA). Peer reviews under EU umbrella.
- **Consequence for the regulator : the need for high-level technical skills**

MODERNIZING INFRASTRUCTURE: SIANCE, AI SYSTEM FOR NUCLEAR OVERSIGHT AND ASSESSMENT



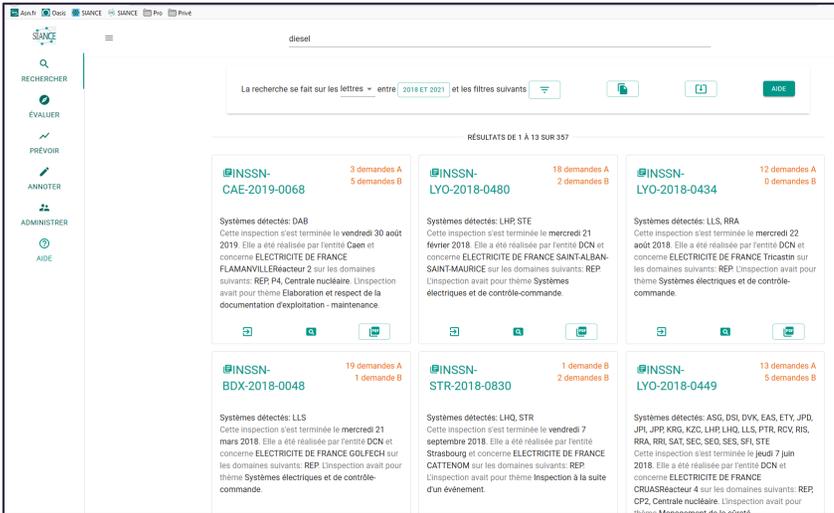
- **Take advantage of the data from ASN inspections on nuclear sites, contained in 22,000 inspection letters**
 - To identify early tendencies, hence improve ASN's inspection policy
 - To prepare for a specific inspection
 - To obtain information in an emergency situation



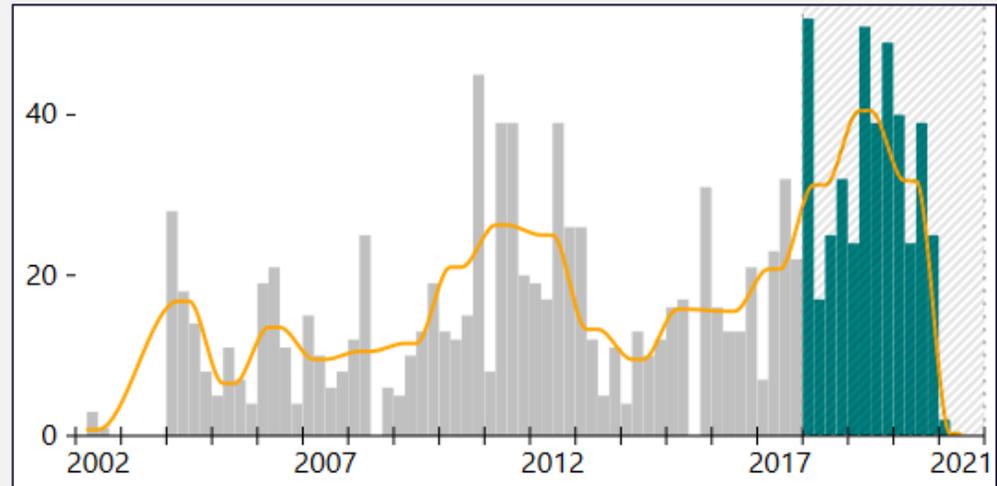
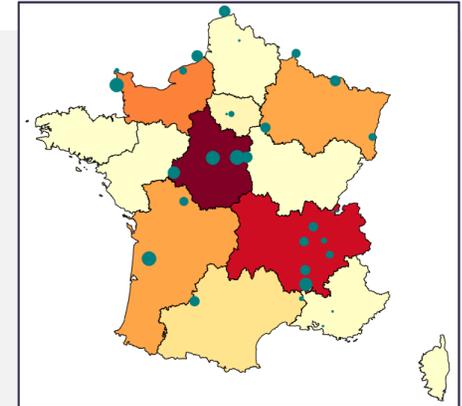


MODERNIZING INFRASTRUCTURE: SIANCE, AI SYSTEM FOR NUCLEAR OVERSIGHT AND ASSESSMENT

NRC - RIC 2021 - T10 - NUCLEAR REGULATION IN THE TIME OF TRANSFORMATION - MARCH 9, 2021



Example of inspections on backup diesel-generator set



- Can be refined (time-period, site, equipment, operator...)
- Provides the relevant inspections reports
- Can display the number of findings, their geographical distribution

COVID-19 PANDEMIC: AN ACCELERATOR OF ASN TRANSFORMATION

- **Deep changes in the ASN's operation:**
 - Teleworking
 - remote inspections
 - re-allocate means within technical departments or domains
- **Reinforced vigilance on maintenance and operation during lockdown**
- **Need for in-depth analysis and reflection:**
 - How to improve preventive measures and investments in public policies?
 - How to take into account experts recommendations when expertise is not stabilized?
 - How to develop and maintain a culture of precaution within the population?



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