At a glance

€900k budget

- **42** month-long duration
- 4 working objectives
- **3** French partners

A shared understanding

The issue of **identification** of antiquities is at the core of the fight against the illicit trafficking of cultural goods.

Nanotechnologies can bring an **operational and userfriendly solution** to this problem.

Any suggested solution must take into account the constraints which cultural heritage professionals and law enforcement agencies are facing.

Contact us

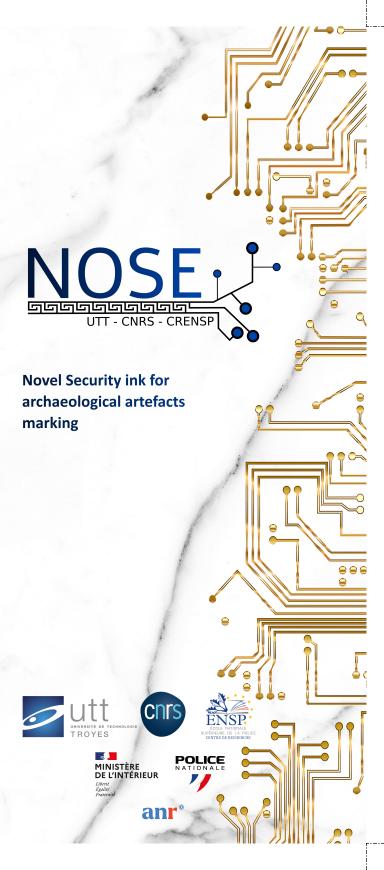
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Create an encompassing list of specifications relevant to archaelogists and the police forces.



To carry out the **technical development** of the ink using
nanotechnologies and following a
specifications.



To explore the various **physical properties** of the inks and the **reaction of objects** based on their materials.



Onsite testing of the ink produced (excavation sites, museums, police checks).



The definition of constraints



The ENSP Research Centre coordinates the realisation of a state-of-the-art assessment of existing tools as well as the definition of specifications for the final product. It involves specialists and endusers in these tasks, such as the French Central Office for the Fight against Trafficking in Cultural Goods (OCBC).

The technical realisation

The laboratory L2n (Light, Nanomaterials and Nanotechnologies) based at the University of Technology in Troyes develops the inks in accordance with the specifications. The added-value of nanotechnology and the creation of a direct link between marking and referencing in a database are key elements of its work.



Onsite testing



The laboratory HiSoMA from the House of Orient and the Mediterranean uses onsite the suggested solutions. Their testing on excavation sites in Kition, Amathous and Salamis in Cyprus will assess their efficiency and acceptability in field conditions.

