



**ANCHISE aims at offering to European societies efficient methods, knowledge and toolkit to enhance the protection of cultural heritage against looting and illicit trafficking.**

Here you can find a simple explanation of the tools developed in the framework of the project.

## THE PROJECT

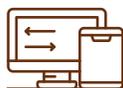
This Horizon Europe project aims to build a global and comprehensive answer to meet the challenges of an effective protection of cultural heritage in Europe, for both antiquities and modern cultural goods, in order to provide sustainable and replicable solutions.



7 countries



15 partners



1 platform



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**ANCHISE toolkit**  
SIMPLY EXPLAINED

## MONITORING TOOLBOX

ICONEM



This tool enhances the efficacy of **archaeological site monitoring and heritage preservation efforts**. This includes global solutions for 3D photogrammetric **scanning and satellite imagery analysis** for detection, characterization and dating of possible traces of illicit excavation and other looting activities.

### TO BE USED BY

Archaeological sites

### STUDY CASE

Those confronted with illicit traffic will be able to measure its progress and slow it down or stop it, verify hypothesis and date the illicit activities detected for correlation purposes.

## Arte-Fact

PARCS



This tool uses **image recognition** and object database in order to **identify cultural looted and stolen objects** via pictures. It allows to link these objects to potential endangered cultural object list. It is a **mobile application** and can be used on the field or/and central services.

### TO BE USED BY

Law Enforcement Community, Museums

### STUDY CASE

In Custom Hub (airport). Series of queries and match over selection of object

## CYI DATABASE

CYI



The database will be used for data organisation, acquisition and exploitation. It relies on a **metadata structure** for the description of various archaeological categories. The shared database will provide online access, segmented by users categories, and will allow for **better data and information sharing among stakeholders**. In addition, the shared database will provide **access to selected tools** to combat illicit trafficking of the selected archaeological categories.

### TO BE USED BY

Museums, Cultural Heritage professionals, Law enforcement agencies, art market professionals, researchers

### STUDY CASE

In case of need, a granted user accesses data on selected categories of archaeological artefacts that are highly vulnerable. Then, they use crawling tools developed by the Anchise consortium to automatically retrieve data and information from illicit trafficking websites.



## SFS SPECTROSCOPY

INOV



The tool will measure the amount of light of different colors that is reflected from the paper, with a technology called Spectral fluorescence signature (SFS). The light emission profile will afterward be analyzed by a neural network to provide a production date for the paper.

### TO BE USED BY

Museums and Law Enforcement

### STUDY CASE

The tool is used at borders or airports to identify old books being smuggled as recent reproductions.

## ART-CH

ICCS



ART-CH will serve as the **bridge between raw data and actionable insights**, since it's a cutting-edge solution designed to revolutionize the way we combat the trafficking of cultural heritage. The primary objectives of the tool are to provide **Advanced Data Analysis, Predictive Capabilities, Cross-Referencing and Verification, Interconnected Network**.

### TO BE USED BY

Law Enforcement Community, Museums

### STUDY CASE

Stakeholders will be empowered to measure the evolution of the trafficking phenomenon, which will contribute to the mitigation of illicit activities, while also providing valuable insights for correlating and validating hypotheses related to the trafficking network.

## KIKu

Fraunhofer SIT



A tool for **monitoring the online trade** of stolen or looted cultural artifacts. Targeted sales platforms are monitored and searched by **internet crawlers** using keywords and photos provided by original owners. Similar objects are identified by **image matching technology**.

### TO BE USED BY

Museums, collectors, law enforcement

### STUDY CASE

In case of theft, the original owner can upload a description and photos of his stolen objects, start monitoring and get alerted when his objects appear on the online sales platforms.