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Project details

Grant Agreement Number: 101094245

Project Full Title: Artwork Unique RecognitiOn and tRacking through chemicAl encoded data, miniaturized devices and blockchain alliance

Project Acronym: AURORA

Topic: HORIZON-CL2-2022-HERITAGE-01-07

Type of action: HORIZON-RIA

Granting authority: European Research Executive Agency (REA)

Start date of the project: 01 January 2023

Duration: 36 months

EU Contribution: 3,466,354.00 Euro

Contacts

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AURORA

Artwork Unique RecognitiOn and tRacking through chemicAl encoded data, miniaturized devices and blockchain alliance



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Project

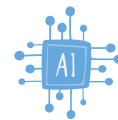
Artifacts are constantly threatened by anthropogenic actions. Looting, smuggling, and illicit trade of cultural goods pose major risks to our cultural goods and our cultural identity.

AURORA will create an effective artwork digital identity by analysing art piece deep layers chemical composition, permanently and unalterably stored, to improve cultural heritage management by means of a stable physical-to-digital identity connection.

AURORA mission aims to create a cultural heritage preservation and protection tool employing a robust cost-effective solution to track artworks position and transactions.



Objectives



Development of an anti-counterfeiting marker based on advanced chemical and spectroscopy technologies



Providing a device enabling the traceability of cultural goods artworks using wireless sensor



Validating the AURORA protection, identification, and traceability innovation package on real artifacts



To prevent artworks illicit trafficking, stealing and destruction



Impacts

All the **AURORA** technologies will be developed having as main priority the preservation of both structural and material original properties of the considered cultural objects.

AURORA results will be beneficial on the one hand, for the legal field of the art market, as digital identity could be a code that can be used in contracts for the identification of cultural goods. On the other hand, public administrations will make use of the AURORA tools to unequivocally census the assets of their cultural heritage and to verify their movement.