aerariumchain™

New Tools for Museums:
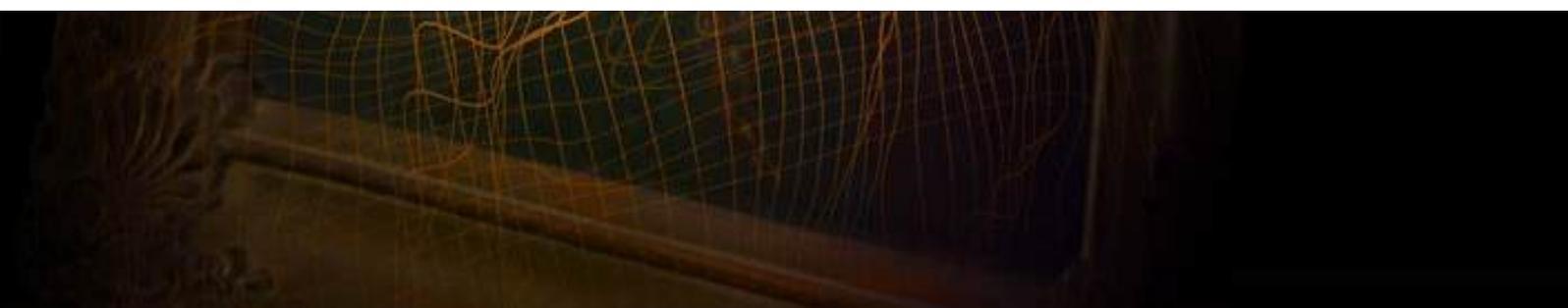## From Preservation to Participation

WE PROTECT ART, WE PRESERVE CULTURE.

AerariumChain is a cloud service for museums, institutions and private customers. Through the most state-of-the-art technologies, we monitor the artworks' state of conservation.
By firstly using 3D scanning we create the digital fingerprint of the artwork, the **3Digital Twin**.

Each step of the process is notarized in blockchain and guarantees the production of NFTMicro art through which museums can create a new value. The most cutting-edge technology at art's service.

THE PROCESS

High-Resolution, fast 3D Scanning of **the Artwork.**

Uploading to **the cloud** and post-processing

Creation of **unique keys**

Notarization in blockchain

The **3Digital Twin** is created !

WHAT DO WE DO ?

3Digital Twin

aerariumchain™

Based on our 3Digital Twins we
offer 3 pillar services

CARE

- Preservation
- Collection Management
- Insurance

FUND

- Tokenization
- Rising funds

SHOW

- Phygital experience
- Exhibition solutions

SCANNING KIT

Easy to transport, easy to use

AerariumChain also offers the possibility to purchase a complete Scanning Kit, designed to give institutions full autonomy in creating high-quality 3D scans of their collections.
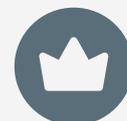
The kit includes:

A portable structured-light scanner	A dedicated laptop and battery	A subscription to our processing software

This all-in-one solution is ideal for museums or institutions that need to scan large volumes of artworks efficiently.

The scanner is extremely fast and easy to use, requiring no technical background.
 Scans are automatically uploaded and processed through our secure platform, ensuring seamless integration with monitoring and archival services.
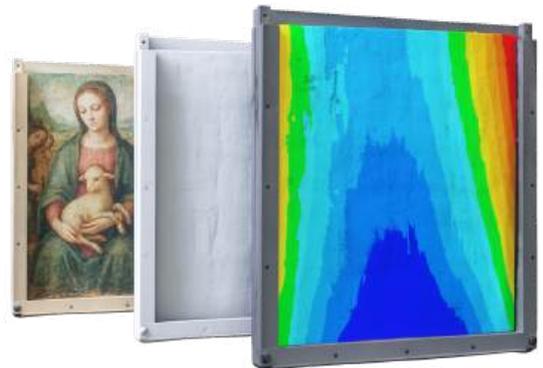
CARE

MONITORING SERVICE
analysis of the state of conservation.

AEC offers its clients a high-definition 3D scanning service t**o monitor the condition of their artworks.** Scans are performed using **structured light scanners,** delivering **high-resolution images** through a fast and efficient process. Scanning can be carried out independently using our kit, or with the support of a certified operator.

In both cases, the resulting images remain the exclusive property of the client. All parties involved, including the client, are securely identified and verified throughout the process.

Through the use of proprietary algorithms, AerariumChain enables the comparison of sequential scans of the same artwork, highlighting any changes that may have occurred over time.

The system allows clients to **identify and measure these differences**, which are then **reviewed and verified by a qualified conservator.**

Thanks to this service, each time a new scanning campaign is carried out on a collection (or part of it), **the system can automatically flag anomalies for all artworks** already stored in the AerariumChain database, streamlining monitoring activities.

Automatically generate **condition reports**

Provide reliable, visual documentation for **insurance and loan process**

Imagine a Living, Smart Archive for Your Collection.

The **3Digital Twins** we create don't just capture the shape of an artwork — **they record its finest details**, including textures, brushstrokes, craquelure, and surface conditions.

This ultra-precise visual documentation builds a **permanent and searchable archive** that's invaluable for curators, conservators, and researchers.

But more than that — it's a **game changer** for **collection care**. Unlike static images, this archive evolves:

➡ When artworks are scanned again (e.g. after a loan or exhibition), the system compares versions and automatically flags changes or issues.

➡ It can notify you when an artwork may need attention

➡ It tracks which pieces are traveling or on display elsewhere

Think about it, a dynamic, intelligent archive like this enhances internal workflows, improves risk management, and lays the groundwork for future conservation strategies.

CASE STUDY

The AI4Heritage project, developed in collaboration with the Centro Restauro della Reggia di Venaria, explores how advanced technologies can support the preservation of cultural heritage. Through the creation of high-resolution 3Digital Twins of artworks, the system enables detailed monitoring of their condition over time.

By comparing sequential scans, **AI algorithms** are able to **detect** and **classify anomalies**—such as cracks, deformations, or losses—according to established conservation criteria. This approach, which integrates tools already available on the market but not yet optimized in a unified workflow, allows **large-scale** and **cost-effective monitoring campaigns.**

While it does not replace expert evaluation, it **supports restorers** by highlighting which artworks require urgent attention, ultimately reducing long-term restoration and insurance costs and enhancing the sustainability and accessibility of cultural institutions.

In partnership with:

SHOW

3D Prints

Along with a network of professionals, we produce small-scale 3D prints to organise workshop for children and make the project more accessible to visually impaired people.

#ffb139

Media Production

AerariumChain 3Digital Twins allow you to create engaging and photorealistic content anytime, including **videos** and **images** for:
printed and online catalogues, social media posts, documentaries and exhibitions.

Bring your collection to life with **high-quality digital assets** tailored for any platform.

Busto di Cosmeta

Assets for VR-AR

Through our Digital Twins, you can create high-quality assets optimized for AR and VR applications, interactive touch experiences with haptic gloves, and holographic displays.

FUND

Our NFTMicros offer museums an innovative way **to raise funds** while **engaging a new digital audience**. Generated from high-resolution Digital Twins, these fractional NFTs allow institutions to share stunning 3D representations of their artworks without transferring ownership or rights.

1MLN

THE DYNAMICS

1€ NFTMicro are created starting with a 1MLN Euros asset

20%	5%	75%
NFTMicro are purchasable over time and will financially support the monitoring and conservation of an artwork.	are allocated and sold to the token reserve fund.	NFTs are not to be sell to secure the ownership of the asset and avoid generating fictitious value.

Each NFTMicro is linked to a **3Digital Twin**, and collectors can enhance their experience based on the number of tokens they own. Museums control the distribution, ensuring a **fair value** for each NFTMicro.

Revenue from primary sales goes **entirely to the institution**, while secondary sales continue to generate **support** for conservation and monitoring. NFTMicros provide a transparent, ethical, and **sustainable** way to experience and support art through blockchain —without speculation.

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NEW PRODUCT

Scratch & Collect

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The fundraising tool that turns engagement into support

To learn more about Scratch & Collect, you can check out the dedicated **brochure included in this email.**

50+ collections

We have worked with over 50 collections in Italy and abroad, demonstrating on several occasions the great potential of 3Digital Twins in the conservation, maintenance and enhancement of private and public cultural heritage.

Press Release

Some of our projects

3D scans and monitoring at the Museo Correr in partnership with the Italian Institute of Technology

3D scans and monitoring the exhibition *Utamaro, Hokusai, Hiroshige. Geishe, samurai e la civiltà del piacere* at Società Promotrice delle Belle Arti in Turin

3D scans and monitoring the exhibition *Frida Kahlo and Diego Rivera.* The Gelman collection

3D scanning of the Pietà (1498-1499), the Bandini Pietà, (1547 – 1555), and the Rondanini Pietà (1552-1564)

Main Partners

It is not easy to innovate in a sector such as Art or Cultural Heritage. That is why we work hand in hand with top-class partners, who enable us to develop cutting-edge solutions with competence and vision from a variety of perspectives.

tax&legal

pwc

orrick

Deloitte.

insurance

REVO

MAG
BROKER DI ASSICURAZIONE

tech

Algorand FOUNDATION

aws partner network

NVIDIA INCEPTION PROGRAM

R&D

CENTRO CONSERVAZIONE RESTAURO
LA VENARIA REALE

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POLITECNICO MILANO 1863

Awards & recognition

- Winner of **the Best Enterprise award** in the Boost Your Ideas program by LazioInnova in Rome (January 2025)
- Winner of **the Audience Award** at the Global MediaTech Pitch Day in Potsdam (September 2024)
- Winner of **the StartUp Competition** at WeMakeFuture 2022 in Rimini (June 2022)
- Selected by the **CyberXcelerator** call by CDP in collaboration with Startup Wise Guys (January 2021)
- Winner of **the InnovaMusei** call by Regione Lombardia, Fondazione Cariplo, and Unioncamere Lombardia, with the support of Cariplo Factory (July 2021)
- Selected by the **European B-Hub** call (May 2021) in the blockchain field
- Special guest at **TedX Reggio Emilia** 2020 (October 2020)
- Listed among the 5 most interesting startups in Art & Culture by Wired.it (September 2020)
- Incubated at **TechItaliaLab**, London in 2020
- Selected for the **Jumpstarter2020-London** award by Alibaba Fund (September 2019)
- **Artlab - FitzCarraldo** Award (June 2019)
- Special guest at the **SEAHA Conference 2019** at Oxford University (April 2019)
- **IdeeVincenti** Award by Lottomatica (October 2018)
- Recipient of **the Smart&Start** program by Invitalia (2017)

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in https://www.linkedin.com/company/aerariumchain

▶ https://www.youtube.com/@aerariumchain

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GIULIA GOTTA | Project Manager
giulia.gotta@aerariumchain.com
+39 3773228278