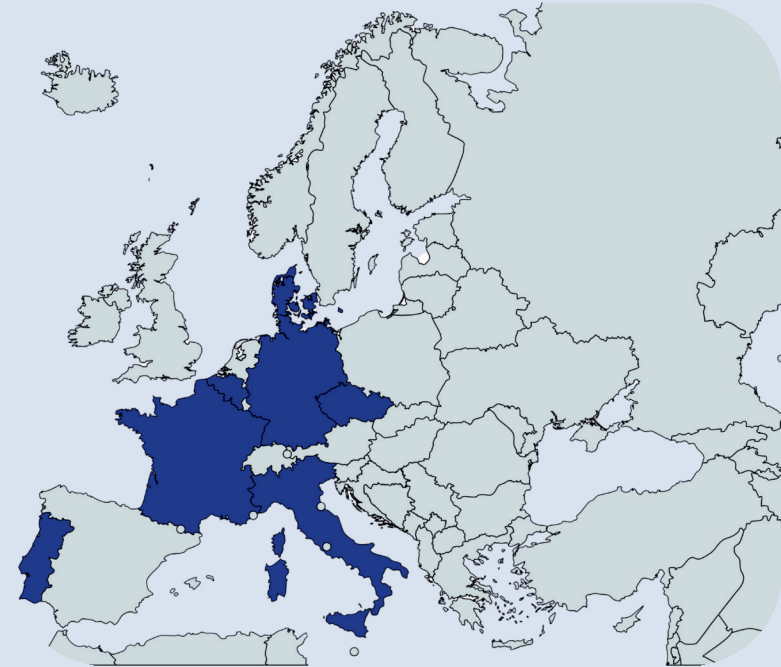


2025-2028
15 partners
7 countries
3.9M EU-funds



SIMIACCI

Sustainable Intelligent Management of Indoor Air Quality for the Culture and Creative Industries

CONTEXT

Cultural and Creative Industries (CCIs) use significant energy to control Volatile Organic Compounds (**VOCs**), Nitrogen Oxides (**NOx**), Hydrogen Sulfide (**H₂S**), and humidity levels, which is essential for the preservation of cultural heritage artefacts.

Traditional indoor air quality (**IAQ**) solutions often lack efficiency and environmental considerations.

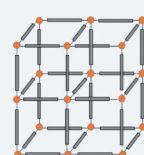
There is an urgent need for solutions that meet curators' and conservators' standards while being environmentally, socially, and economically viable in the current climate transition.

OBJECTIVE

SIMIACCI is an ambitious Innovation Action (IA) project funded under the Horizon Europe programme that aims to improve the efficiency of IAQ management in Galleries, Libraries, Archives, and Museums (**GLAMs**) across Europe, thereby enhancing the conservation of cultural heritage artefacts while reducing energy consumption. To achieve this goal, SIMIACCI will introduce a portfolio of tailored innovative technologies.



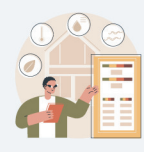
SOLUTIONS



Innovative, efficient, reusable, and stable Metal-Organic Frameworks (**MOFs**) to capture noxious VOCs, mitigating NOx, and capturing H₂S in real scenarios.



AI-based predictive models and sensors to track and manage contaminant levels in real-time.



Modular systems that meet both technical and environmental needs for IAQ control.



New business models that combine SIMIACCI solutions.

EXPECTED IMPACTS

- **20 prototypes** developed
 - Demonstrated in **6 GLAM partners**
 - **Energy demand** reduced by **30-50%**
 - **Extended conservation time** of cultural heritage artefacts
 - **30,000 visitors** reached by SIMIACCI exhibitions
 - **Leadership in climate transition** across **GLAMs** and beyond, in particular in **5 additional sectors**:
 - hotels and resorts
 - educational buildings
 - shopping centres, healthcare facilities
 - transport hubs
- consolidated by the **SIMIACCI label**.



SIMIACCI GLAMs



DEUTSCHES MUSEUM
MÜNCHEN



PRAGUE NATIONAL
TECHNICAL MUSEUM



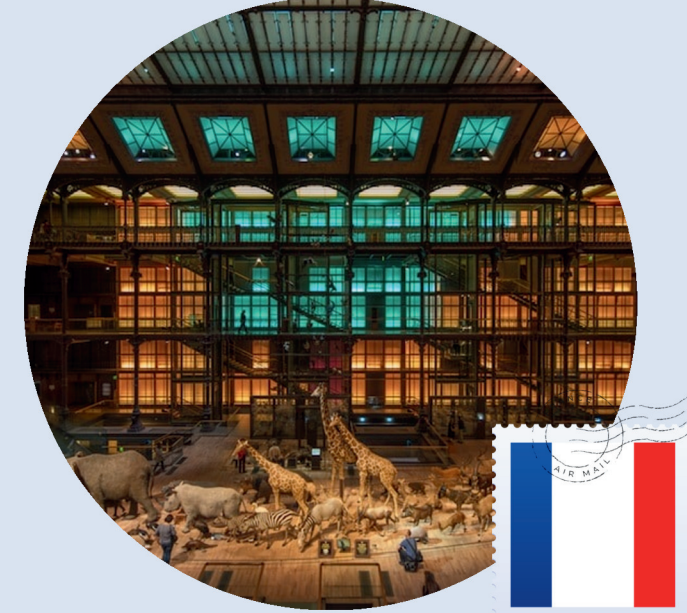
NATIONAL COACH
MUSEUM



STATE ACADEMY OF
FINE ARTS STUTTGART



ROYAL DANISH
LIBRARY



NATIONAL MUSEUM
OF NATURAL HISTORY

LEARN MORE & STAY UPDATED!



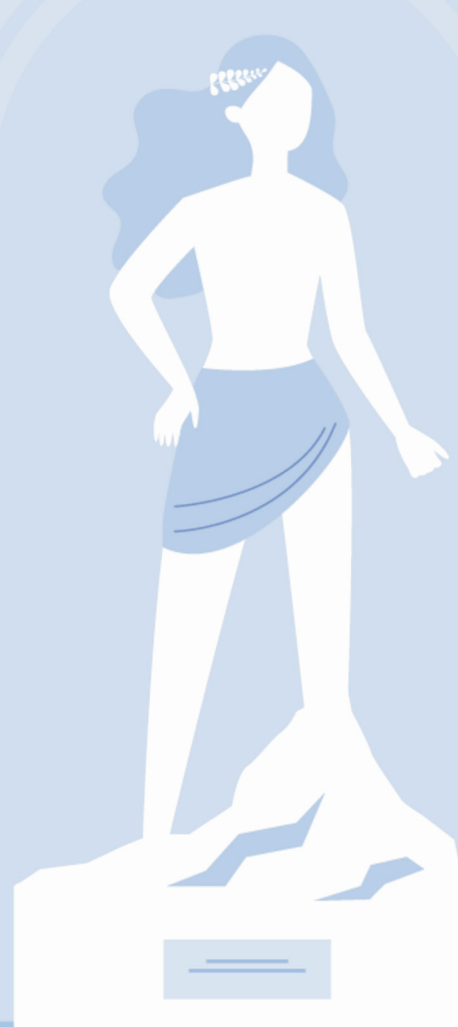
@SIMIACCI



simiacci.project@gmail.com



www.simiacci.eu



Funded by
the European Union

