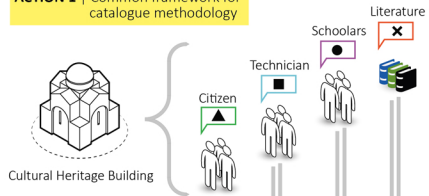
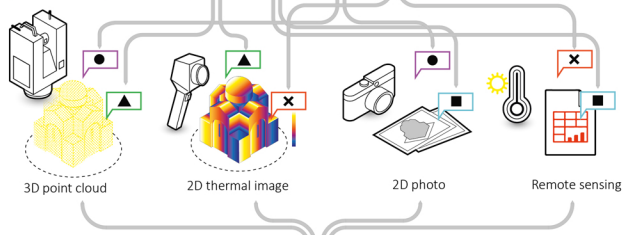


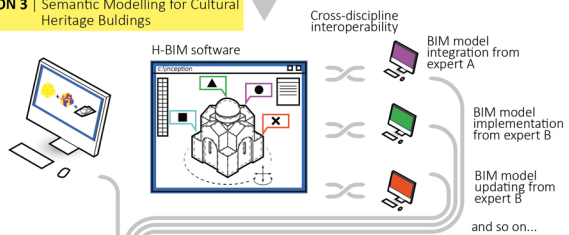
ACTION 1 | Common framework for catalogue methodology



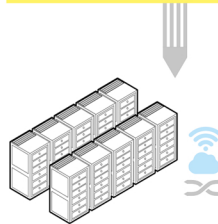
ACTION 2 | Integrated data capturing



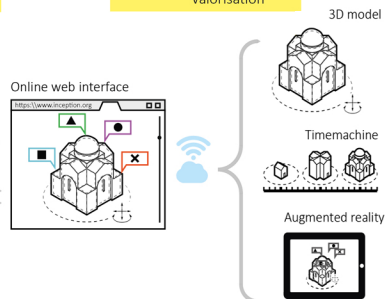
ACTION 3 | Semantic Modelling for Cultural Heritage Buildings



ACTION 4 | Development of the INCEPTION Platform



ACTION 5 | Deployment and Valorisation



INCEPTION concept

PARTNERS

- University of Ferrara / TekneHub (Italy) Project coordinator
- University of Ljubljana (Slovenia)
- National Technical University of Athens (Greece)
- Cyprus University of Technology (Cyprus)
- University of Zagreb (Croatia)
- Consorzio Futuro in Ricerca (Italy)
- CARTIF (Spain)
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- 3L Architects (Germany)
- Nemoris (Italy)
- RDF (Bulgaria)
- 13bis Consulting (France)
- Zoller + Fröhlich (Germany)
- Vision Business Consultants (Greece)



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inception
 Inclusive Cultural Heritage in Europe
 through 3D semantic modelling

INCEPTION research project has received funding from the EU's H2020 Reflective framework programme for research and innovation under grant agreement no. 665220

Scientific coordinator: Prof. Roberto Di Giulio
 Technical coordinators: Federica Maietti and Emanuele Piaia
 University of Ferrara (Italy)



INCEPTION realises innovation in 3D modelling of cultural heritage through an inclusive approach for time-dynamic 3D reconstruction of artefacts, built and social environments. It enriches the European identity through understanding of how European Cultural Heritage continuously evolves over long periods of time.

INCEPTION's inclusive approach introduces novel solutions of 3D digital modelling:

- forever: INCEPTION "Time Machine" that represents an innovative use of timescale for dynamic 3D reconstruction
- for everybody: portable, user-friendly and cost-effective hardware and software instruments for 3D capturing, modelling and analysis
- from everywhere: INCEPTION's proposed standard procedures for data acquisition and open-standard format for Cultural Heritage Building Information Modelling

INCEPTION solves the shortcomings of state-of-the-art 3D reconstruction by significantly enhancing the functionalities, capabilities and cost-effectiveness of instruments and deployment procedures for 3D laser survey, data acquisition and processing.

INCEPTION methods and tools will result in 3D models that are easily accessible for all user groups and interoperable for use by different hardware and software. It develops an open-standard Semantic Web platform for H-BIM to be implemented in user-friendly Augmented Reality operable on mobile devices.

The combination of innovative methodologies and protocols, processes, methods and devices to enhance the understanding of European Cultural Heritage by means of 3D models will bring: new knowledge, collaboration across disciplines, time and cost saving in development and use of 3D digital models, increase of market share, and social benefits.

The INCEPTION research project covers a total duration of 4 years. The project will be developed through the following topics: mapping users demands, technology development/capturing and acquisition protocol, research and technology development/data processing, deployment/user-oriented applications.



The INCEPTION project is geared towards fulfilling the priorities of the work programme, especially: accessing, understanding and strengthening European identity through its rich cultural heritage.

INCEPTION has 3 major scientific and technological objectives:

- To create an inclusive understanding of European cultural identity and diversity by stimulating and facilitating collaborations across disciplines, technologies and sectors.
- To develop cost-effective procedures and enhancements for on-site 3D survey and reconstruction of cultural heritage artefacts, buildings, sites and social environments.
- To develop an open-standard Semantic Web platform for accessing, processing and sharing interoperable digital models resulting from 3D survey and data capturing.

The Consortium is fully supported by a Stakeholder Panel that represents international organisations, EU public institutions and NGOs.

- Associazione Beni Italiani Patrimonio Mondiale Unesco, Italy
- ICCD Central Institute for Cataloguing and Documentation, Italy
- ISCR Istituto Superiore per la Conservazione ed il Restauro, Italy
- Anmli (National Association of Local and Institutional Museums), Italy
- Istituto Degli Innocenti, Italy
- Technical Museum "Nikola Tesla", Croatia
- E²ARCHitects Energy Efficient Architecture Renovation Conservation, Belgium
- Junta De Castilla Y León (Consejería De Cultura Y Turismo), Spain
- Vereniging Van Beheerders Van Monumentale Kerkgebouwen, Netherlands
- International Institute for Baroque Studies, University Of Malta, Malta
- Municipality Of Unesic, Croatia
- Athens Development and Destination Management Agency, Greece
- The Ephorate of Antiquities of The Dodecanese - Greece