



HERITAGE SCIENCE *on Air*

BILATERAL PROJECT | 2020-2022

Italy - Georgia: Technology-Enhanced Strategies for Heritage valorization

June 23, 2022

11.00-15.30 CET

Organized on

ISPC Zoom Platform

OVERVIEW & PURPOSE

Digital technologies provide huge opportunities for improving public access to different forms of cultural assets. They boost the development of creative learning and educational tools as well as tourism applications, research activities and formative and entertaining occasions. In addition, digital tools play a major role in the preservation, study and (virtual and physical) restoration of physical cultural goods.

Cultural Heritage is indeed unique and non-renewable while digital cultural information has the advantages of being permanently stored, and conveniently copied and shared. Hence digital technologies can provide new methods for scientific conservation, research, interactive exhibition, as well as utilization of cultural data.

Thanks to the **Bilateral Project 2021-2023**, Cultural Heritage and digital technologies are not more separated domains, but one depending on the other; both of them concur to the establishment of a new cross-disciplinary field of experimentation, requiring knowledge of science and engineering, as well as arts and humanities and social sciences. All these scientific expertise allow a wide variety of research to be conducted, from smaller object-focussed case studies, to large-scale and longer-term collaborative projects. The **Bilateral Project 2021-2023** indeed supports research on heritage interpretation, preservation, documentation and management, while granting access to data and technologies through a standardized approach within the global heritage science community.

The **Italian Institute of Heritage Science of the CNR**, and the **Georgian National Museum** present the preliminary work done for the future **Virtual Museum of Vani** in order to:

- a) Strengthen the interest toward a **multidisciplinary approach** which bend together Culture, Technology and Communication;
- b) Highlight the importance of using a **precise pipeline of work** to standardize procedures, methodologies and evaluative tools;
- c) Improving the understanding of Cultural Heritage objects and sites by means of **new instruments, new protocols and new techniques**;
- d) Focus the attention on **communication strategies** to disseminate and foster the knowledge and value of heritage to people, empowering their sense of belonging to territories and stimulate affection into young generations.

The interdisciplinarity of Heritage Science reflects indeed the diversity of heritage itself, and especially for future Italian-Georgian projects, knowledge and skills are necessary from many different fields of expertise; it is only through such collaboration that a broader societal impact can be ensured.





PROGRAMME

June 23, 2022

INTRODUCTION & WELCOME

11.00-11.10

GNM - Dir. **David Lordkipanidze** & CNR ISPC - Dir. **Costanza Miliani**

HERITAGE(S) AT THE MIRROR

11.10-11.30

Georgian Cultural Heritage. Landscapes, objects and communities | GNM - Dir. **D. Lordkipanidze**

11.30-11.50

Heritage Science in Transnational projects | CNR ISPC - Dir. **C.Miliani**

LANDSCAPE RECOGNITION & ANALYSIS

11.50-12.10

Use of Parametric 3D Modeling in Cultural Heritage Presentation | GNM - **G. Partskaladze**

12.10-12.30

Digitizing Cultural Heritage: the role of 3D into Cultural Heritage study and interpretation | CNR ISPC - **D.Ferdani**

LANDSCAPE INTERPRETATION

12.30-12.50

Research -based interpretive reconstruction of the Archaeological monument | GNM - **N. Lordkipanidze, N. Kalandadze**

12.50-13.10

Virtual reconstruction in Cultural Heritage as a prominent part of the scientific research | CNR ISPC - **E.Demetrescu**

LANDSCAPE VALORIZATION

13.10-13.30

Exhibition as a link between real and digital | GNM - **S. Guruli**

13.30 -13.50

Representation and communication of cultural landscape | CNR ISPC - **E.Pietroni**

FROM REAL TO DIGITAL

13.50-14.10

The Vani Virtual Museum: a possible integrated solution for Heritage dissemination | CNR ISPC - **A. Pagano**

14.10-14.30

Presenting and interacting with online 3D for Cultural Heritage: the ATON framework | CNR ISPC - **B. Fanini**

EXPECTATIONS

14.30-14.40

CNR - **Virginia Coda Nunziante**, European and International Relations

14.40-14.50

Shota Rustaveli National Science Foundation - **Irakli Iashvili***

CONCLUSIONS

14.50-15.00

GNM - Dir. **D. Lordkipanidze** & CNR ISPC Dir. **C. Miliani**

