



HERitage Resilience Against CLimate Events on Site

Acronimo: **HERACLES**

Call: **H2020-DRS-2015**

Responsabile: **Prof. Filippo UBERTINI**

Abstract: HERACLES main objective is to design, validate and promote responsive systems/solutions for effective resilience of CH against climate change effects, considering as a mandatory premise an holistic, multidisciplinary approach through the involvement of different expertise (end-users, industry/SMEs, scientists, conservators/restorators and social experts, decision, and policy makers). This will be operationally pursued with the development of a system exploiting an ICT platform able to collect and integrate multisource information in order to effectively provide complete and updated situational awareness and support decision for innovative measurements improving CH resilience, including new solutions for maintenance and conservation. The HERACLES effectiveness will be ensured by the design and validation of manageable methodologies also for the definition of operational procedures and guidelines for risk mitigation and management. It will be validated in two challenging test beds, key study cases for the climate change impact on European CH assets. The strength of HERACLES solutions is their flexibility in evaluating a big quantity of different information that can be changed and tailored to the specific CH assets needs, guaranteeing in that way a general applicability. In this context, a fundamental role will be played by end-users, which will be active part in the project activities. HERACLES system will be designed and developed by accounting for the economic sustainability and future acceptance by the market and for the social and economic impact for public and local communities while respecting the integrity of CH and the value it hold for communities. Effective technological transfer of HERACLES outcomes to large companies, SMEs and end users, suitable dissemination, communication, education and training activities are also organized to disseminate vision and progresses obtained to different communities, in a vision of wide audiences awareness.