Acronimo – GAMHer

Titolo – Geomatics Data Acquisition and management for landscape and built heritage in a European Perspective

Responsabile scientifico – Balletti Caterina

Dipartimento – Dipartimento di Progettazione e Pianificazione in Ambienti Complessi

Settore ERC/SSD – PE8_3

Ruolo Iuav – Unità di ricerca

Capofila – Università di Bologna (Principal Investigator: Bitelli Gabriele)

Durata – 36 mesi

Inizio – 05/02/2017

Termine previsto – 05/02/2020

Budget totale – € 560.229,00

Budget Iuav – € 62.000,00

Finanziamento Iuav – € 62.000,00

Tipologia – Call nazionale

Fonte di Finanziamento – Progetti di Rilevante Interesse Nazionale (PRIN) 2015 del MIUR

Descrizione – The project GAMHer aims at exploding and validating Geomatics algorithms, methodologies and procedures in the framework of new European regulations, which are going to require a more extensive and productive use of digital information, as requested by the Digital Agenda for Europe as one of the seven pillars of the Europe 2020 Strategy, which defines the objectives for the growth of the European Union by 2020. This has a strong connection with the Geomatics world, that has been always considered a multi-purpose discipline for a variety of applications requiring
reliable and accurate digital metric information used by different specialists for scientific/industrial research and productive work.
To this aim GAMher will focus on the need of a certified accuracy for surveying and monitoring projects with photogrammetry and laser scanning technologies, when used in a multi-scale and multi-level of detail approach for landscape and built heritage documentation, conservation, and management. Indeed, the basic need of a certified metric accuracy is sometimes neglected for the availability of the new strategies for data collection and processing, that have surely improved the 3D reconstruction pipeline in terms of time and manual efforts required. However, automation comes at a cost, i.e. a lack of certified accuracy, that can result in useless and crude reconstructions without metric integrity.