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Since the year 2009, the National Institute of Anthropology and History through the Historic Monuments National Coordination has used tridimensional technology of laser scanning in order to strengthen scientific and technological knowledge in terms of cultural assets with the basic purpose of creating a database of tridimensional digital models of the most emblematic historical and archaeological monuments of this country. So far we have carried out 78 architectonical scans across the nation, among which those that stand out in Mexico City because of their architectonic relevance include the National Palace, the Metropolitan Cathedral and the Archaeological sites of Templo Mayor and Tlatelolco, while throughout the rest of the territory we can point out the fortress of San Juan de Ulúa, all of them with different advances in the construction of the tridimensional models that are formed by dotted clouds in unique coordinates with a minute separation between them. With the use of this technology of superficial laser scanning it's possible to define with certainty a building's dimensions, to identify in detail the damages produced by different agents and to learn about the structure's behavior.

The digital data can be migrated to different editing platforms, among which we find programs that are supported by CAD in order to create an architectonic drawing, build triangular nettings in great detail preserving their measurability, and create animations and virtual tours, among other products. All of them have been created with the purpose of socializing the information among different academic areas.

Within the lines of research carried out by the employees of the Dimensional Analysis and Image Laboratory of the CNMH together with CUDI-Mexico and in collaboration with other academic institutions such as Anilla Cultural Latinoamérica-Europa in Uruguay and the National Autonomous University of Mexico, we have analyzed the possibility of developing augmented reality as a tool that can be useful for research, education and cultural promotion.