Heritage Building Information Modelling and Smart Heritage Building Performance Measurement for Sustainability

Intuitional Links  Accepted on process

Funded By

British Council & STDF

Duration : 2 Years

Fund : £225,454
Main Partners

• University of the West of England Bristol
• British University In Egypt BUE

Associate Partners

• Cairo University
• Salford University
Research Team

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What Is BIM
WHY HBIM?

Building Information Modeling for heritage Buildings
Egyptian Science Institute in downtown Cairo
Restoration and preservation
Year One: On track to 38% reduction in annual energy use

Partner with us to create energy savings within your building

1-866-392-6487
Efficiency of heritage buildings
Improving Historic Soho's Environmental Performance

Practical Retrofitting Guidance

For:
City of Westminster, English Heritage and the Soho Community Environment Fund

By:
Sturgis Carbon Profiling LLP, Ramboll, Sampson Associates and Donald Insall Associates

Energy Efficiency and Historic Buildings
Application of Part L of the Building Regulations to historic and traditionally constructed buildings

www.english-heritage.org.uk/jc/p1001
Why HBIM?

- Climate and Environment
- Energy & CO₂ reduction
- Education and e-learning
- Civil Infrastructure
- Employment
- Build capacity
Building scanning and documentation
Main aims of the project

1- Digital Documentation.
   • Digital library
   • Digital Memory of Egypt.
     (constructing digital library through technologies of laser scanning and BIM).

2- Reuse of colonial heritage Buildings for energy efficiency.
Further collaboration aspects

• Development of HBIM tool, for market, for quick survey, assess, design, automatically model, and perform energy and structural analysis (Innovate UK);

• Generation of an Online platform
  • to inform future planned GPRS for Heritage, refurbishment and Post Occupancy Evaluation, for which there are few if any exemplars (Horizon 2020).

• Generation of joint training or master program
  • regarding HBIM and its application for sustainability.

• Generating an online platform
  for cultural heritage that could be used in tourism branding.
partners have successfully collaborated in developing the British Council and STDF funded Researcher Links workshop titled

“Trends in Heritage focused Building Information Modelling and Collaboration for Sustainability”
March 2015 Luxor.

• launch an online "observatory."

for Heritage BIM developments and projects, building a wider network participants. The "observatory" would deploy many of the collaborative digital tools identified as needed for fully collaborative HBIM.

• joint conference and refereed journal publications, Joint projects.
  • Staff visits and exchanges.
  • A mutual training program
    • that could be developed to a Shared to Degree programme.
We hope to add Light of culture Knowledge and Technology For Future Egypt

• Thank You