

# Total Efficiency in practice: Grand Egyptian Museum, Egypt

**Client:** Egyptian Ministry of Culture | **Project Client:** Heneghan Peng, Arup and Buro Happold | **Project:** Grand Egyptian Museum, Giza, Egypt | **Sector:** Culture | **Services:** Cost Management, Design Project Management, Specification Consulting and Value Engineering | **Start Date:** 2003 | **Completion Date:** Ongoing

## CHALLENGES

Creating an iconic, world-class museum to budget.  
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Working in a UNESCO world heritage site adjacent to the Great Pyramids of Giza.  
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Meeting specific requirements of the diverse stakeholders, including archaeologists, museum curators, government bodies, UNESCO and the client marketing team.  
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Ensuring collaboration across the design team.  
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Identifying vast quantities of materials locally to meet the scale of the museum without increasing costs, including sufficient translucent stone to build a 1 km illuminated façade wall.

## SOLUTIONS

Developed detailed understanding of cultural, environmental, historical and political sensitivities.  
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Lead value engineering workshops to achieve client budget, incorporate stakeholder requirements and maintain the architect's iconic vision.  
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Managed the design team and design process.  
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Participated in conferences to coordinate a large international client team.  
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Recommended procurement strategies for identifying local materials.  
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Worked closely with the façade engineer to locally source translucent stone suitable for the façade design.

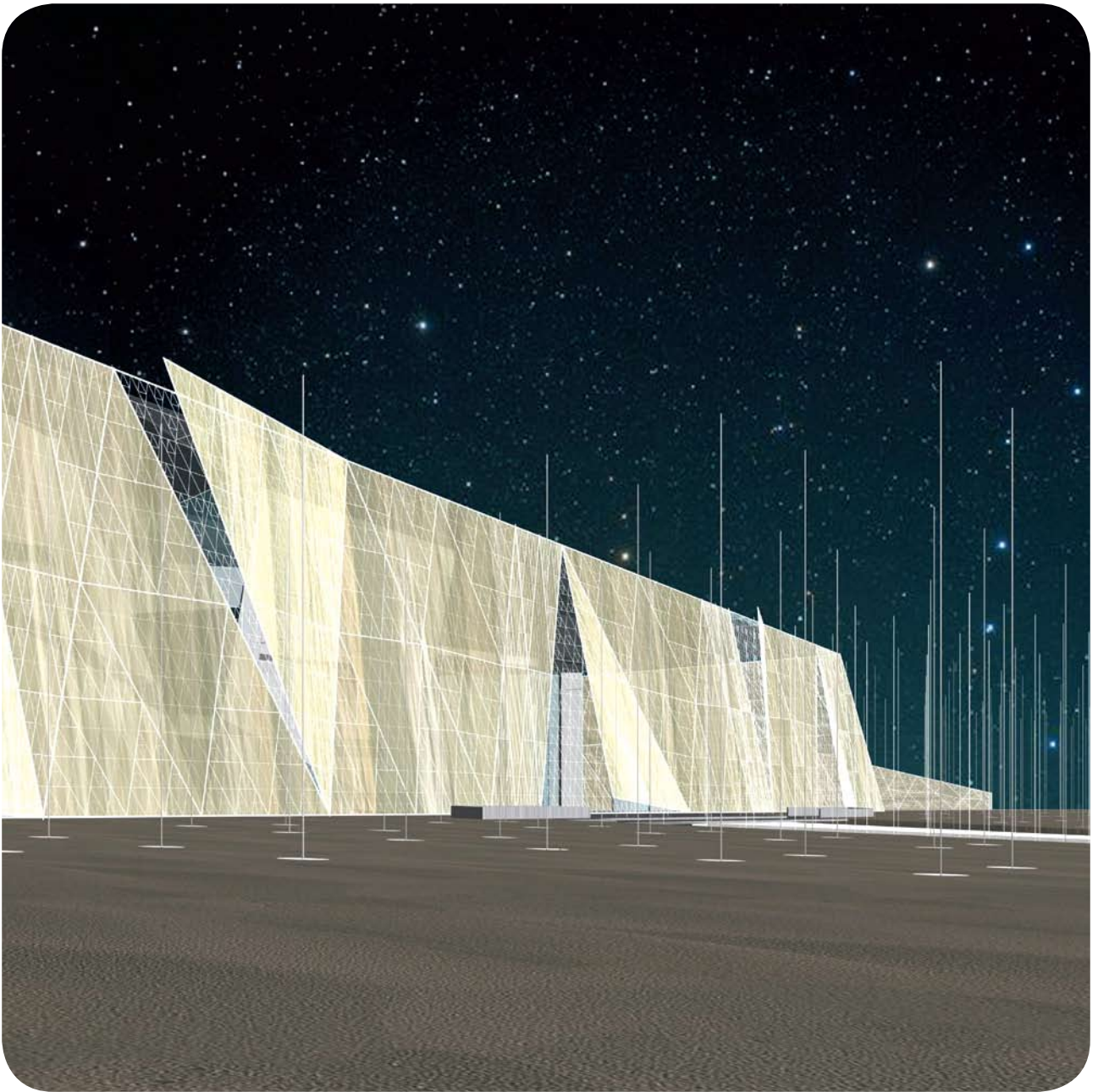
## RESULTS

Museum design has experienced few changes and remains aligned to budget and true to the architect's vision.  
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Excellent collaboration across design team who addressed design challenges through a true understanding of client needs.  
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Detailed local market understanding lead to accurate tender returns for the first project phase (conservation centre and enabling works).

## REFLECTIONS

An in depth understanding of cultural and environmental sensitivities is vital to achieve project vision.  
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Local market knowledge is essential for the procurement of materials.  
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It is possible to deliver an iconic and detailed design on time and within budget if the project team works together.





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