



FIG WORKING WEEK 2023

28 May - 1 June 2023 Orlando Florida USA

Protecting
Our World,
Conquering
New Frontiers

Presented at the FIG Working Week 2023,
28 May - 1 June 2023 in Orlando, Florida, USA

Digital Twins examined, with the roles of Construction Economics and Management in Construction/Cost Effectiveness.

- Digital twins
- Construction economics in Cost effectiveness
- BIM as a tool in Efficient Construction
- Modular Construction in Cost Management
- Conclusion(Enviromental view/Overview)

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B.Tech QS/MNIQS/RQS/MRICS(In view)

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DIGITAL TWIN

- Digital twin is a digital representation of an intended or actual real-world physical product, system or process.
- How well can its simulation, integration, testing and other speculations of it serve some practical purposes?

Digital Twin Continued...

- Digital twin have its roles and engagements in Construction management, cost effectiveness and a very targetful and effective Construction.
- Digital models can help in physically large projects, mechanically complex projects, among others.

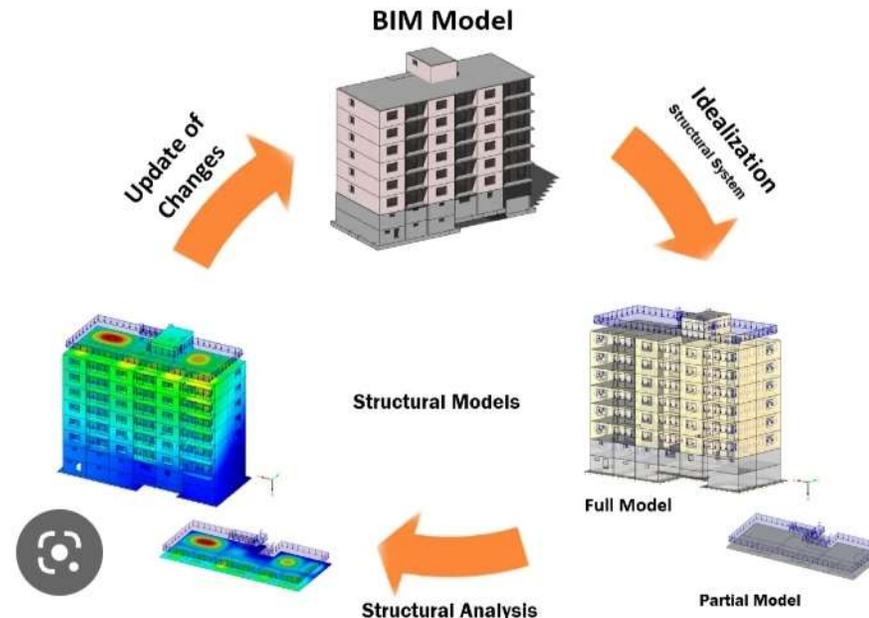


CONSTRUCTION ECONOMICS IN COST EFFECTIVENESS

- Do you know that inefficiently or ineffectively construction works/project delivery can be one of the root cause of cost overrun?
- Improving planning, making use of good construction management software; basically working with a well strategised program of works are germane when adopted, among other means.

Building Information Modelling (BIM) as a tool in Efficient Construction

- BIM is a tool that can curtail inefficient construction project delivery and also avert cost overrun. See analysis below:



Modular Construction in Cost Management

- Practically, modular construction is another means in the area of cost management and also saves time. Such prefabricated materials for shelter is hereby shown:



CONCLUSION (Environmental view/Overview)

- Knowing our environment and creating better ways to ensure it is conserved, resultant benefits; Preventing Reworks(Among others) by perfectly managing construction projects will curb demolition, that can deter the environment.
- In a world faced by frontiers to the changes emanating, Human development in turn has blessed us with professionals to control the frontiers and affirm ways to ensure Cost and Construction management with the aid of specialised tools to deliver Effective Construction Projects.