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Benefits and Challenges of 5D BIM adoption: Perception of Quantity Surveyors.

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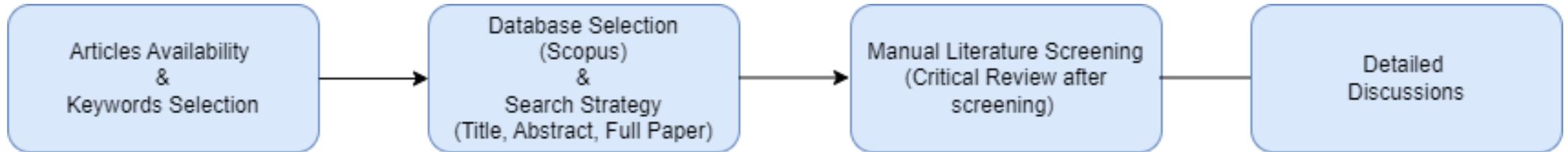


BACKGROUND TO THE STUDY

- Building Information Modelling (BIM) has revolutionized the construction industry, changing the way buildings are designed, constructed, and managed (Malagnino et al., 2021).
- One of the most significant advancements in BIM technology is 5D BIM, which adds cost estimation and management capabilities to the traditional 3D model, and time scheduling to the 4D model (Abdullahi B Saka et al., 2019).
- Despite its potential benefits, there are still many challenges associated with the adoption and implementation of 5D BIM (Le, 2021).

METHODOLOGY

- Content Analysis was utilized in the study based on the Scopus database
- Inclusion & Exclusion Criteria was adopted in selecting final documents for the review.



CHALLENGES IN 5D BIM ADOPTION AND IMPLEMENTATION

- Lack of Standardization
- - Skills Gap among construction professionals.
- - Integration with Existing Construction Processes
- - Cost
- - Legal and Contractual Issues
- - Resistance to Change
- - Lack of Industry Awareness

BENEFITS OF 5D BIM ADOPTION AS PERCEIVED BY QUANTITY SURVEYORS

- - Improved Cost Control
- - Enhanced Collaboration
- - Accurate Cost Estimation:
- - Improved Planning and Scheduling
- - Reduced Rework
- - Improved Decision Making
- - Enhanced Risk Management

CONCLUSION

- - The benefits of 5D BIM Adoption are enormous for Quantity Surveyors
- - Strategies needs be developed to address the challenges of its adoption to ensure successful implementation
- - In this era of technology advancements, construction firms who embrace this technology will sure have a competitive advantage in the industry.