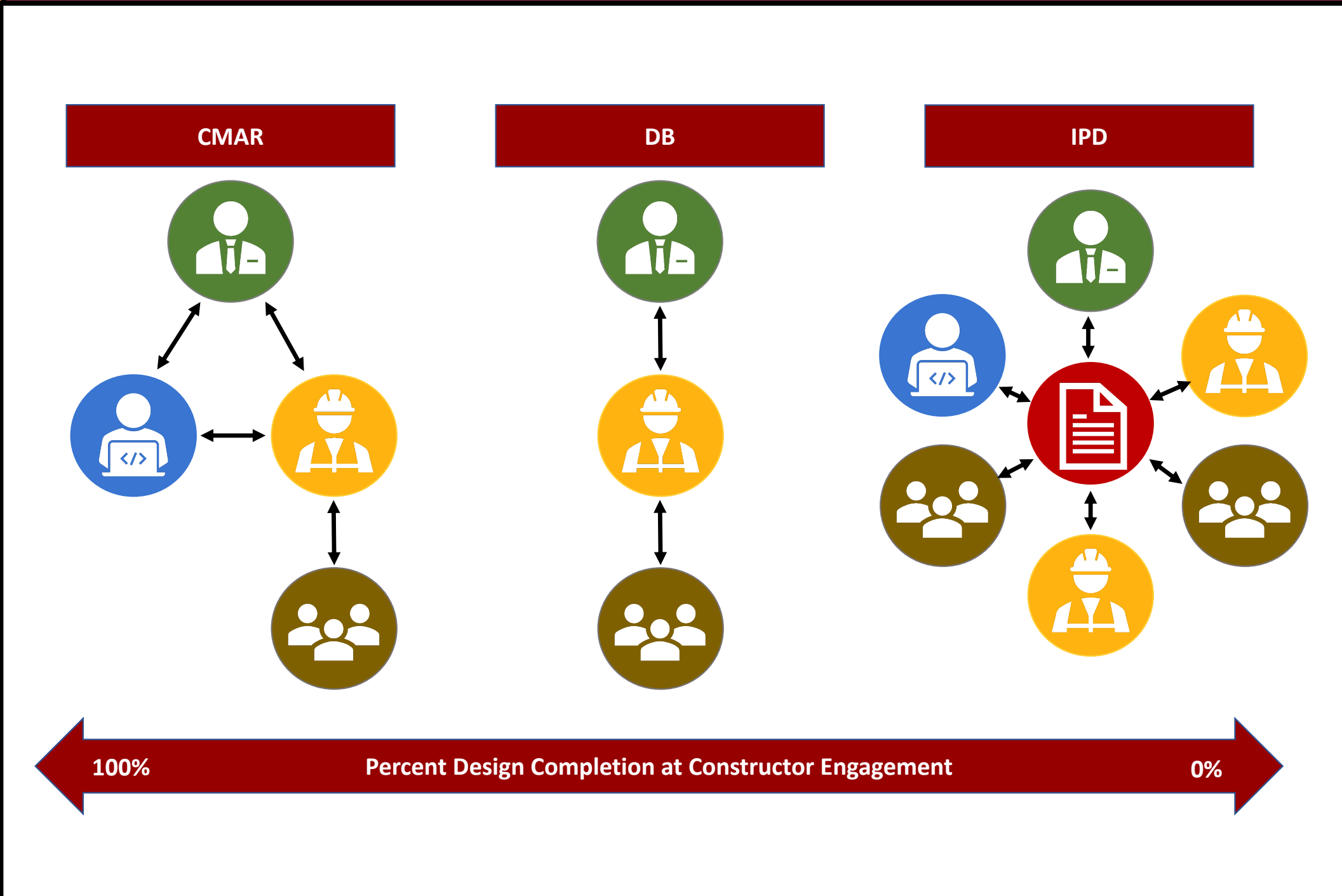


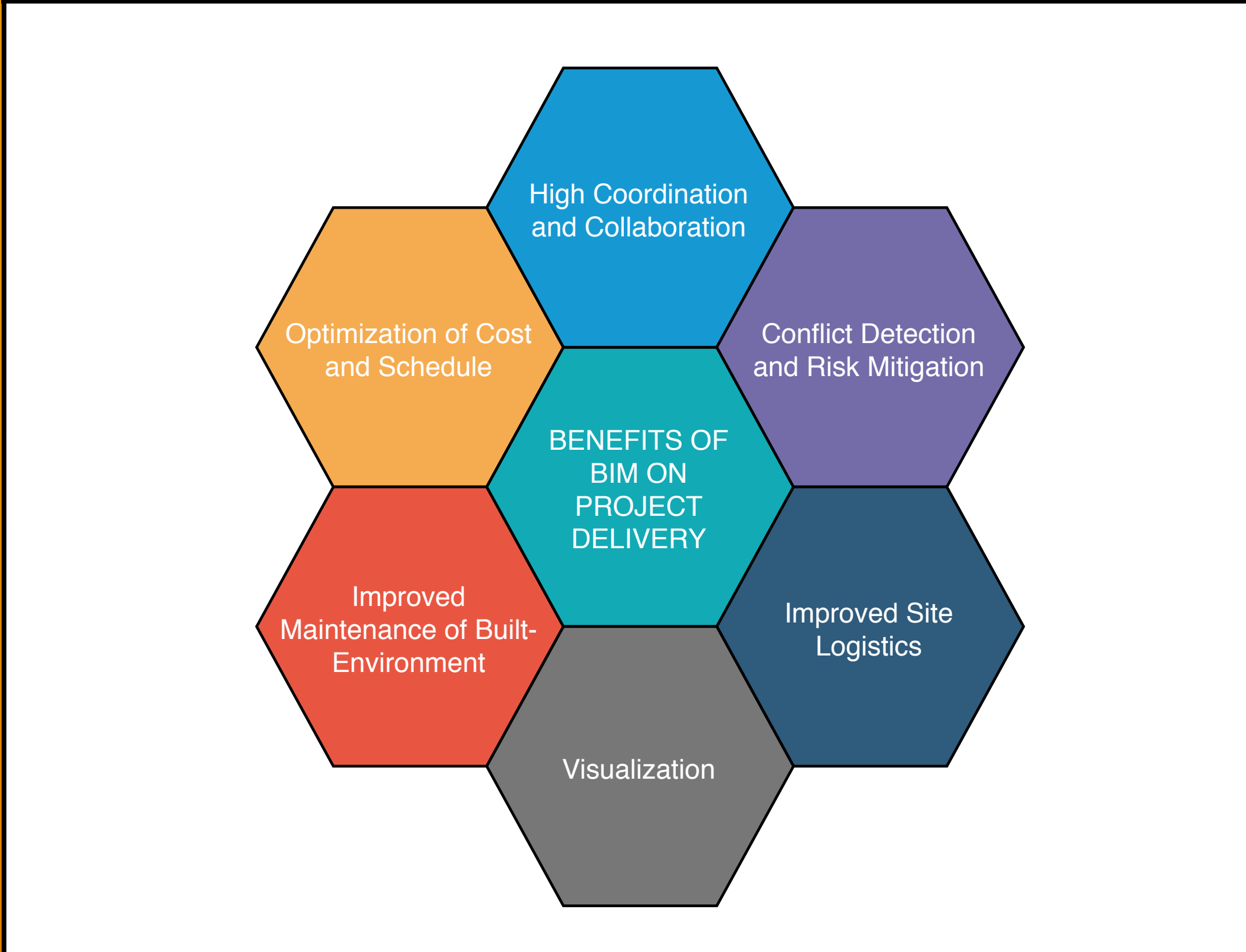
Assessing the Impact of Utilizing Building Information Modeling on Alternative Project Delivery Method Projects (#16)

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Background on APDM



Background on BIM



Research Phases

- ### 1 Previous Work

 - There is a need to explore the BIM implementational impacts on APDM projects
 - A systematic study should be conducted to identify benefits and drawbacks of BIM based on different APDM
- ### 2 Collection of Data

 - The researchers leveraged secondary-data to achieve the research objective
 - Information on 15 completed projects, representing five different countries and seven varying industries, was collected
- ### 3 Identification of Key Benefits and Drawbacks

 - In total, 20 key benefits and four drawbacks relating to the application of BIM on APDM projects were identified
 - The highest reported benefit was visualization and simulation
 - The highest reported drawback was software/technological issues
- ### 4 Discussion of Findings

 - Coordination and collaboration is improved on APDM projects that utilize BIM, as the constructor is engaged earlier in the project and can offer their input
 - Cultural barriers and project team staff refusing to learn BIM is a key drawback reported by a number of projects
- ### 5 Future Research

 - Future work may specifically target and assess these specific BIM attributes for various project delivery methods
 - The findings can serve as a foundation for future research work that may seek to quantify the impact of BIM on different APDM projects

Data Collection

Delivery Method	Location	Industry
CMAR	US	Water
	UK	Education
		Transportation
DB	Sweden	Hospitality
		Government
	New Zealand	Residential
IPD	China	Commercial

Selection of Results

