

Correction

Correction: Al-Ashmori et al. “Values, Challenges, and Critical Success Factors” of Building Information Modelling (BIM) in Malaysia: Experts Perspective. *Sustainability* 2022, 14, 3192

Yasser Yahya Al-Ashmori *, Idris Othman  and Al-Hussein M. H. Al-Aidrous 

Department of Civil & Environmental Engineering, Universiti Teknologi PETRONAS,
Seri Iskandar 32610, Perak Darul Ridzuan, Malaysia

* Correspondence: yasser.alashmori@gmail.com

The authors would like to make the following corrections to the published paper [1]. Authors would like to change all the Support References of the table content, and remove the table footer, so we need to replace the original Tables 5 and 6. The changes are as follows:

(1) Replacing Table 5:

Table 5. Validity Analysis of BIM Challenges in Building Projects.

	Item	Agree		Disagree		Maybe		CVR	Support Reference
		F	%	F	%	F	%		
CHF1	Creating demand for BIM projects or prioritizing BIM projects as a marketing brand.	19	73%	1	4%	6	23%	0.462	[23,57,59,60]
CHF2	Utilization of current contracts to fulfill BIM project requirements.	18	69%	1	4%	7	27%	0.385	[9,55,57,60,61]
CHF3	Development of protocols for BIM standard modeling.	19	73%	0	0%	7	27%	0.538	[59]
CHF4	Developing a securing property assurance of BIM project information.	20	77%	1	4%	5	19%	0.538	[9,55,56,58]
CHF5	Convincing organizations and individuals to openly share information.	17	65%	2	8%	7	27%	0.462	[55,58]
CHF6	Build trust towards BIM technologies and overcome resistance factors.	21	81%	1	4%	4	15%	0.615	[23,55,57]
CHF7	Development of execution procedure and legal frameworks for BIM implementation.	18	69%	0	0%	8	31%	0.462	[55,57,60]
CHF8	Creating affordable training programs.	21	81%	0	0%	5	19%	0.615	[9,23,55,58–61,63,64]



Citation: Al-Ashmori, Y.Y.; Othman, I.; Al-Aidrous, A.-H.M.H. Correction: Al-Ashmori et al. “Values, Challenges, and Critical Success Factors” of Building Information Modelling (BIM) in Malaysia: Experts Perspective. *Sustainability* 2022, 14, 3192. *Sustainability* 2023, 15, 5935. <https://doi.org/10.3390/su15075935>

Received: 13 December 2022

Accepted: 27 February 2023

Published: 29 March 2023



Copyright: © 2023 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

Table 5. Cont.

	Item	Agree		Disagree		Maybe		CVR	Support Reference
		F	%	F	%	F	%		
CHF9	Minimizing the initial cost associated with BIM implementation.	19	73%	1	4%	6	23%	0.538	[9,23,58,59]
CHF10	Enhancing level of understanding of BIM technology and process implementation.	20	77%	0	0%	6	23%	0.538	[23,55,58,60,61]
CHF11	Standardizing BIM process and defining guidelines for its implementation.	21	81%	1	4%	4	15%	0.615	[58–60]
CHF12	Provision of comparative analysis between traditional and BIM-based projects as evidence.	18	69%	0	0%	8	31%	0.462	[59]
CHF13	Overcoming the constraints of limited BIM software tools and compatibility issues.	20	77%	1	4%	5	19%	0.538	[55,58,59]
CHF14	Produce a BIM system guideline for technology implementation.	5	19%	18	69%	3	5	−0.583	[58,59,63,64]
CHF15	Building trust among BIM project teams and bridging the gap of work fragmentally.	21	81%	1	4%	4	15%	0.538	[55,58,59,63]
CF16	Enhancing the Individual and group motivation to use BIM.	19	73%	1	4%	6	23%	0.692	[23,55, 57–59,64,65]
CF17	Understand BIM model interoperability mechanism among different BIM software.	18	69%	3	12%	5	19%	0.538	[23,55,58–60]
CF18	Creating a platform for a collaborative working environment.	18	69%	2	8%	6	23%	0.385	[55,58]
CHF19	Setting up an interoperability mechanism for notification and sharing information.	8	31%	12	46%	6	23%	−0.333	[55]
CF20	Setting out an efficient mechanism for coordinating BIM models.	20	77%	2	8%	4	15%	0.385	[9,55,58,60,62]
CF21	Enhancing communication process among different parties.	19	73%	1	4%	6	23%	0.462	[23,55]
CF22	Boosting the decision-making process among stakeholders.	18	69%	1	4%	7	27%	0.538	[55,58,62,63]
CVR (Critical) for a panel size (N) of 26 is 0.385.						CVI		0.423	

(2) Replacing the Table 6:

Table 6. Validity Analysis of BIM Enablers in Building Projects.

	Item	Agree		Disagree		Maybe		CVR	Support Reference
		F	%	F	%	F	%		
SF1	Existence of procedures, frameworks, and guidelines.	22	85%	1	4%	3	12%	0.692	[23,55,58,61,64,74,76]
SF2	Develop research to identify changes with BIM implementation.	21	81%	1	4%	4	15%	0.692	[58,74]
SF3	Linking current policy with the BIM implementation requirement.	21	81%	1	4%	4	15%	0.615	[9,58,60,72,73,77]
SF4	Define team roles and responsibilities.	23	88%	1	4%	2	8%	0.769	[72,76]
SF5	Create BIM business opportunities and market support.	22	85%	2	8%	2	8%	0.692	[55,59]
SF6	Readiness of government and organization to reward self-development skills in BIM technology implementation.	19	73%	4	15%	3	12%	0.462	[23,55,57–59, 64,72,73,76]
SF7	Ability to allocate sufficient financial resources to invest in BIM development.	20	77%	2	8%	4	15%	0.538	[9,23,55,58,59,64, 72–74,76]
SF8	Top management support to implement BIM.	22	85%	1	4%	3	12%	0.692	[55,57,59,64, 72–74,76,77]
SF9	Ability to accommodate changes and upgrade to a BIM-based system.	21	81%	2	8%	3	12%	0.615	[73,75,76]
SF10	Compatibility of BIM systems to support interoperability and collaboration.	21	81%	1	4%	4	15%	0.615	[55,58,59,73,74]
SF11	Availability of BIM systems/ tools/extensions to support BIM implementation.	21	81%	1	4%	4	15%	0.615	[75]
SF12	Availability of Securing intellectual property and cyber security of BIM outcomes.	19	73%	2	8%	5	19%	0.538	[9,55,56,58]
SF13	Insure continuous development to fulfill technology participant expectations.	20	77%	1	4%	5	19%	0.615	[73]
SF14	Knowledge and experience level of “players” in the BIM process and what are their drivers.	19	73%	1	4%	6	23%	0.462	[58,59,63,64,72,73,75]
SF15	Collaboration and readiness to share knowledge, risks, and reward.	17	65%	1	4%	8	31%	0.462	[9,23,55,56,58, 60–63,73,74,76]
SF16	Clear understanding of client requirements when using BIM in the project.	19	73%	1	4%	6	23%	0.385	[58,72,73,76,77]

Table 6. Cont.

	Item	Agree		Disagree		Maybe		CVR	Support Reference
		F	%	F	%	F	%		
SF17	Early involvement and participation of project teams.	18	69%	0	0%	8	31%	0.462	[58,59,63,73,76,77]
SF18	Mutual trust, respect, and personal commitments to cooperation.	20	77%	1	4%	5	19%	0.538	[23,55,57,73,76]
SF19	Ability to define external stakeholders' potential impact on projects.	19	73%	0	0%	7	27%	0.462	[9,55,75]
SF20	Ability to understand each stakeholder's interests.	17	65%	0	0%	9	35%	0.385	[9,55,61]
SF21	Ability to define a suitable way to manage stakeholder needs and wants.	17	65%	0	0%	9	35%	0.385	[60,64,73]
SF22	Active communication systems with appropriate stakeholders.	16	62%	1	4%	9	35%	0.462	[9,23,55,58,60,62,76,77]
SF23	People's knowledge and awareness of the BIM system and its application.	20	77%	0	0%	6	23%	0.538	[56,57,59,61,72,74,77]
SF24	Ability to differentiate between different BIM software systems.	18	69%	1	4%	7	27%	0.385	[23,55,59,64]
SF25	Capability to use a BIM software tool.	19	73%	1	4%	6	23%	0.462	[75]
SF26	Understanding the mechanism of BIM execution through the project life cycle.	20	77%	1	4%	5	19%	0.538	[58,59,63,64]
SF27	Ability to manage information in a structured manner in a 3D environment.	22	85%	0	0%	4	15%	0.692	[58,72–74,77]
SF28	Knowing the usage of the multidisciplinary models that promote collaborative processes.	19	73%	0	0%	7	27%	0.462	[55,72,73,77]
SF29	Availability of information and technology.	20	77%	2	8%	4	15%	0.538	[72,74]
SF30	Early selection of adequate project delivery method.	21	81%	0	0%	5	19%	0.615	[58,73,76]
SF31	Early selection of the appropriate BIM tools to perform the task.	21	81%	1	4%	4	15%	0.615	[58,72,73]
SF32	Understanding BIM project scope and contract agreement.	21	81%	0	0%	5	19%	0.692	[58,73]
SF33	Design BIM coordination strategy among project parties.	22	85%	0	0%	4	15%	0.692	[55,72,73,76,77]
SF34	Develop an intelligent 3D model that can be used by other disciplines.	21	81%	0	0%	5	19%	0.615	[73,76,77]

Table 6. Cont.

	Item	Agree		Disagree		Maybe		CVR	Support Reference
		F	%	F	%	F	%		
SF35	Produce models with different levels of development LOD100-LOD500.	21	81%	1	4%	4	15%	0.615	[73,76,77]
SF36	Produce models that can generate auto shop drawings for construction and fabrication.	19	73%	1	4%	6	23%	0.462	[73,76,77]
SF37	Visualize layout for site management, supervision, safety management, and quality management.	21	81%	0	0%	5	19%	0.615	[73,76]
SF38	Produce accurate model-based documentation through the project lifecycle.	22	85%	0	0%	4	15%	0.692	[75]
SF39	To be able to identify risks associated with bidding BIM projects (types, size, teams, and locations).	23	88%	0	0%	3	12%	0.769	[58,72,73,76]
SF40	Availability of effective communication methods.	22	85%	1	4%	3	12%	0.692	[9,23,55,58,60,62,76,77]
SF41	BIM process re-engineering and decentralized decision-making.	20	77%	1	4%	5	19%	0.615	[73]
SF42	An early formulation for collaborative method between stakeholders.	22	85%	0	0%	4	15%	0.692	[9,23,55,60–62,75]
SF43	Availability of effective project monitoring processes.	20	77%	0	0%	6	23%	0.538	[75,76]
SF44	Identify and produce BIM deliverables at each phase of the project's life cycle.	19	73%	0	0%	7	27%	0.462	[64,73,75]
SF45	Determine and employ innovative ideas for collaborative practices.	20	77%	0	0%	6	23%	0.538	[55,58]
CVR (Critical) for a panel size (N) of 26 is 0.385.						CVI		0.571	

The authors state that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

Reference

1. Al-Ashmori, Y.Y.; Othman, I.; Al-Aidrous, A.-H.M.H. “Values, Challenges, and Critical Success Factors” of Building Information Modelling (BIM) in Malaysia: Experts Perspective. *Sustainability* **2022**, *14*, 3192. [[CrossRef](#)]

Disclaimer/Publisher’s Note: The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of MDPI and/or the editor(s). MDPI and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.