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Understanding the efficiency of completing construction management tasks in the digital age: What research evidences say

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**Abstract**---Implementing construction projects in the modern era will undoubtedly differ from the conventional methods used in the past with manuals. This study explores several data to support this discussion where we believe the project is implemented in the global era of all technologies, so several conveniences have proven to be. We perform data thinking electronically on books, scientific documents, and other documents. Meanwhile, we have sharply done the data coding, evaluation, and data impotence to draw quantitative conclusions. Based on the understanding of the discussion, we can say that this article has received an understanding that project implementation in the global era of technology, among others, has provided convenience such that projects can be carried out quickly because of the flow of document preparation communication and can minimize delays. With this digital application, project processors can improve efficiency, giving birth to more productivity compared to conventional ways. We hope this finding is helpful for the parties.

**Keywords**---Understanding, Construction Management, Digital Age, Research Evidence.
Introduction

In the present computerized time, a Construction Project Management application is fundamental to work on the project on the board. While in the field, there is a ton of essential data required. If a mechanic cannot get to it rapidly, it is expected that it can create setbacks (Vacanas et al., 2015). From the postponement, this will require some investment and cash. Man as an application designer in venture executives, action checking, and work coordination gives robust arrangements in helping development entertainers. Development laborers perform better by lessening correspondence boundaries and expanding project permeability through the application. The development project, the board application itself, is cloud-based programming that can be used to make enhancements during the time spent arranging, planning, and controlling undertaking execution to develop further work process and proficiency (Al-Gahtani et al., 2016).

Improvement advancement in Indonesia is getting quicker and more perplexing. The partition as per the business area ended up being excessively isolated, mainly due to the strain of time and the surge of improvement needs, where actual advancement needed to start before the total arranging was finished (Fachrizal et al., 2020). This detachment from each other outcomes in vagueness concerning cost control of execution arrangement. This present circumstance raises the longing to have something that contains the capacity to facilitate and control advancement even though the arranging has not been finished. How is the improvement development of the board practice in Indonesia? Before 1970, what was known was just the Main Contractor with Subcontractors and the Eigen Beheer design. Essentially the principal design included a triangle of proprietors, chiefs, and fundamental workers for hire, helped by subcontractors, etc., until, at last, the actual work was completed by the bosses or supervisors with their laborers (Lewis-Faupel et al., 2016).

This strategy is known to be a costly technique for the proprietor on account of the cost of the agreement with the primary project worker; many parts are completed as benefit sharing, rehashed charge installments, project worker stamp obligation, expenses of methodology, and others (Sears et al., 2015). The Eigen Beheer design appears to be like the development of the board design; then again, the proprietor is generally not a specialist or expert supervisor. They are typically a beginner, so there is not a lot they can accomplish in chasing after the objectives of the board's development. It was exclusively toward the finish of the 1970s that development the board experts gave off an impression of being utilized by development the executive's experts, so it is as yet a recently evolved practice design in Indonesia, so there are as yet a couple of individuals who are genuine specialists and experienced in developing the executives. Taking into account the colossal time and cost reserve funds that can be gotten from the execution of development of the executive's framework and working on the nature of work, it is proper that the development of the board framework be applied in the development of business improvement process (Willar et al., 2020).

A review of many publications related to the construction literature, such as a peer survey, is a laid-out process that puts the commentator at the core of logical distributions (Forcael et al., 2020). The course of friendly audit empowers
mainstream researchers to work on the nature of its logical investigations and disposes of trashy, futile, and misleading exploration. The Philosophical Transactions of the Royal Society was the primary logical diary to formalize the course of companion audit in 1665. From that point forward, this cycle has been refined, formalized, and adjusted for use in practically all logical distributions. Peer audit is presently solidly joined to the focal point of logical distributions because with peer survey in the diary distribution process, whether open access or conventional distribution, crafted by analysts can not exclusively be improved and approved, yet enlisted, spread, and kept up with (Lima et al., 2021).

The social audit process in the construction paper relies upon the specialist effectively setting aside some margin to survey the article. The commentators-likewise perusers and journalists-permit the survey cycle to manage to look at and fundamentally remark on the original copy fairly and impartially to work on the examination before distribution eventually. The overall understanding of established researchers is that logical speculations or proclamations introduced to the world without going through a companion survey process are often disregarded by established researchers. Without a peer survey, there is valid justification to express that there is practically no quality control in logical correspondences, prompting a deficiency of trust in the exploration results introduced. The commentator is the foundation of the companion study (Chan & Owusu, 2017).

Project management is one of the most critical segments in the construction industry (Sears et al., 2015). This segment involves many processes such as planning, budgeting, scheduling, material preparation, etc., making construction project management exceptionally challenging. Easy construction project management is undoubtedly a dream for every contractor. Contractors can use the construction system to facilitate project management. The construction system has features to easily calculate RAB, manage finances, and manage human resources. This obligates contractors to have construction software in their project management (Urbański et al., 2019). Based on the explanation of the problems above regarding several essential things to do when completing tasks in construction projects in the technology era which are expected to help the parties, primarily to simplify their project management operations and make them more efficient and productive.

**Method**

Furthermore, the article in this method section will describe the steps and procedures for carrying out the study to try to understand the efficiency of construction governance in the digital era by utilizing several scientific pieces of evidence in the form of publications, the majority of which are journals (Gibbs, 2018). The author believes that the tasks and obligations in construction projects, especially management, have become more accessible to carry out along with the presence of technology applications which, according to experts, have proven capable of innovating to give birth to productivity in every project activity. For this reason, this study has reviewed several pieces of information and literature related to the efficiency of construction work from various scientific communication models (Flick, 2013).
Concretely, we visited several journals and then collected several 50 journals, which we analyzed relevantly to answer the problem. As for our model, taking the essence involves several steps, namely evaluating data synchronization data, coding data, and evaluating so that we can draw conclusions that we believe are valid to answer questions. Search data electronically using keywords on Google Scholar (Miles et al., 2018). We designed this study in a descriptive qualitative way, where we worked under the design of a qualitative and phenomenological approach, namely trying to get valid data to answer problems from some data in the form of scientific publications in the field of construction and management working in the digital era. After careful discussion and review, we finally report this study under a qualitative design approach following other review reporting models. Thus the description of the review of the steps of this study begins with the formulation of the problem of searching for data, analyzing data, and final reporting (Guest et al., 2013).

Then, what points need to be studied in the literature review process on scientific findings. Among other things, we are researching to get a theoretical basis to support solving the problem. The scientific facts obtained are the first step so that researchers can better understand the problems we are currently researching correctly, following the framework of thinking in the realm of technology and the ease of work of construction projects. Through a Literature Review, we can show that the author understands the research area and the main research issues and that the researcher has the appropriate competencies, abilities, and backgrounds with the theme of construction and convenience in the technology era.

**Discussion**

In this section, the article will describe the results of a review of several publications that we use as data findings from various publications to answer the problems of this study. Then in this section, we also complete with a discussion of the importance of these findings, and we connect them with other friends who will later create new understandings of the essential and up-to-date aspects of these findings so that these results can be helpful as new knowledge and understanding in the field of construction, especially governance in an era that is now all based on digital technology applications.

**Monitor Reports in Real-Time**

Ease of managing construction activities in the modern era where technological convenience has entered all sectors of convenience, including the presence of technology to facilitate construction work and tasks such as the real-time evaluation and monitoring report system. With so much movement on a construction project, monitoring every report is very important. This is so that the project runs smoothly according to the schedule and budget that has been determined. However, unfortunately, monitoring reports that are done manually can be a tedious task. Therefore, the existence of a construction project management application can help users more easily monitor each report and find out what progress is being carried out in real-time and accurately. In addition, the digital application offers online approval and e-signing features that allow them to approve wherever users are.
Our most special review was led in the investigation of Golparvar-Fard et al. (2009), who concentrated on expanded model-D4AR innovation with a 4-layered reality for computerization endlessly errands like gathering, conveying, and cleaning monitoring and evaluation information, observing action progress. Early recognition of genuine or potential timetable postpones in field development exercises is vital for projecting the executives. This requires project chiefs to configure, execute and keep a methodical way of observing development progress to recognize process rapidly and impart inconsistencies among actual and arranged execution. This study centers around investigating the use of unsorted everyday advancement photograph logs accessible at every building site as an information assortment method to accomplish this objective. Our methodology depends on processing - from the actual picture the area and direction of the photographic artist, alongside an inadequate 3D mathematical portrayal of the site developed utilizing everyday advancement photographs and superimposition of the reproduced scene on top of the arranged 4D model (Matthews et al., 2015).

In such a climate, progress photographs are enrolled in the virtual climate as expected, and this permits an enormous assortment of unstructured day-to-day development drawings to be arranged, endlessly perused intelligently. Likewise, the remade scene is seldom superimposed on top of the 4D model permitting site pictures to be geologically enlisted with the arranged parts, and consequently, area-based picture handling methods are applied and progress information separated naturally (Kim et al., 2018). The consequences of examining progress between as-expected and as-fabricated appearances are pictured in a D4 AR (4D Augmented Reality) climate utilizing the traffic signal similitude. We present our primer outcomes on three ongoing development projects and examine the execution, saw advantages, and possibly future upgrades of this innovation in development across all lines of computerized information assortment, handling, and correspondence (Zaher et al., 2018).

Cheng and Teizer’s (2013) discoveries on continuous asset area data and information assortment exploration and representation applications for developing strength and action control applications were another reason to accept technology in construction projects. The information for field activities of development assets (staff, gear, materials) is ample. However, endeavors to gather, break down, and envision are rarely made. One of the primary reasons restricting more excellent project site the board dynamic, particularly in asset concentrated and complex tasks, is admittance to ongoing data and resulting advances that empower simple assortment, handling, and representation of information (Arpteg et al., 2018). While improvements in distant information detecting and canny information handling supplement manual information recording and examination rehearses, a few information perception devices in development exist that gather information from dynamic assets and stream it into a field-reasonable computer-generated simulation climate progressively. The most trendsetting innovations in ongoing information assortment and representation are checked. Another structure that portrays the strategy for streaming information from a continuous situating sensor to an ongoing information perception stage is introduced. Three contextual analyses are introduced featuring his strategies for keeping information and imagining development action data in (1) virtual building site reproductions, (2) outside development settings, and (3) laborer preparing
conditions. The outcomes show that primary development data connected with security and exercises in field tasks can be progressively observed and envisioned progressively, offering advantages, for example, expanded situational attention to laborers, gear administrators, or chiefs anywhere on a development project or from distant areas (Aksamija, 2017).

We made another finding in the study of Anwar et al. (2018), where they examined how easy it is for construction projects to monitor and report on the smooth state of construction using drone technology and uncrewed aerial vehicles. This is an effort to streamline construction works where with these very minimal facilities, they can get extraordinary work results in a way that is more weighty and more autonomous in operating. So, in addition to streamlining the scheduling and pricing that have been carried out at the beginning, involving drone technology and this unmanned capacity machine will facilitate the implementation of construction projects because it uses drone data which is very effective so that innovative work can continue to help construction which, if done efficiently. This traditional way is unlikely to be effective. So we can conclude that the effectiveness of the work carried out by the construction workers will get the authenticity of the real-time monitoring system compared to conventional methods.

**Improve Work Efficiency**

With online connected applications, users can increase the efficiency and transparency of all construction projects, from authorization and accountability to scheduling and monitoring. In addition to project progress that can be adequately managed, they can also immediately find out if there are complications in the field, so any problems can be resolved immediately without hindering other tasks.

Concerning the work productivity of the constructors, the discoveries of Xu et al. (2021) proved that technology is a valuable tool. With the slow advancement of the data age, the data application innovation in colleges has likewise been extraordinarily gotten to the next level. The improvement of the organization gives new open doors to philosophical instruction and causes it to have a more extensive stage. The change of philosophy training given data innovation can successfully work on the productivity of philosophy schooling and the board and develop the association with understudies (Brynjolfsson & McAfee, 2014). During the time spent planning the data stage, we should not just guarantee the flawlessness of capabilities, yet in addition consider the presentation level of downloading velocity of showing assets and page reaction speed of playing showing assets, which should be controlled inside the limits that educators and understudies can persevere, in order to try not to possess an excessive amount of homeroom time and let clients quit any pretense of utilizing it. According to the point of view of data innovation and philosophy training, this paper breaks down the practical importance and significant job of the development of philosophy schooling data stage in the computerized age and reviews how to advance the development of philosophy training data stage in light of the Web (Kymnell, 2008).
Ryzhkova and Ginzburg (2020, February) said that the improvement of current innovation permits the legislatures of these nations to make new ways to deal with carrying on with work. Modern digitization makes it conceivable to dispose of fake items, limiting the expense of assets: time, materials, work, and funds. The digitization of the development business could be one of the critical snapshots of the whole country’s financial progress to the computerized age while guaranteeing the manageable improvement of urban communities (Fonseca, 2021). Development has a high multiplier impact: one work environment in development gives up to 15 positions in one more area of the economy. Maintainable advancement can be guaranteed by diminishing asset costs and further developing item quality.

Koscheyev and Hakimov (2019, March) said that the article talks about the importance of the public acquisition of the board framework in the development business under states of an advanced economy. The principal ways to deal with the arrangement of a viable component of state the board of the acquirement framework in the development industry considering the eccentricities of the advanced economy is uncovered. The case of global experience shows that changing the public obtainment framework to computerized innovations gives various upper hands to members in the speculation and development market. The public acquisition arranges the principal acquirement capabilities that the board apparatuses utilize advanced innovations. The elements and down-to-earth parts of public acquisition of the board in the development business utilizing computerized advances are considered. The best projects in obtaining the board for state needs are introduced. The creator plans the primary headings for working on executing current public obtainment devices in development in states of the advanced economy (Bhaumik et al., 2019).

Moreover, the investigation by Zhou et al. (2013) expressed the use of 4D perception innovation for security the executives in metro development. Security mishaps are every day in underground metro development because of their intricacy. These mishaps cause colossal misfortunes because most metro development is situated in the highly blocked downtown area. Consequently, the wellbeing of the board is paramount in the metro development industry. This paper proposes the security of the executive’s approach utilizing representation innovation. Wellbeing is incorporated with developing the executive’s processes throughout the task life cycle (Pan & Zhang, 2021). Data from the planning stage about development and booking parts have been gathered to figure out a 4-layered (4D) model. Before development starts, rules-based apparatuses break down this joined data, naturally recognize possibly dangerous exercises and conditions, and give guidelines for rectification. All the more critically, the genuine site checking information is ceaselessly contrasted with the 4D model throughout the development cycle.

Consequently, the security status of related parts can be consistently imagined in the framework as conditions change and potential dangers create. This paper presents a model created and confirmed with contextual investigations of simple tasks (Rane et al., 2019). The outcomes demonstrate that the proposed approach can be a device of coordinated effort, virtual examination, and expectation for creators, site project chiefs, wellbeing engineers, and different members. With
pictured ongoing security status, it can recognize dangers previously and during the development interaction and afterward give preventive measures. In this way, convenient choices can be made to stay away from mishaps.

**Minimize Project Delay**

Undeniably, construction project delays can cause huge losses and give rise to a bad reputation for construction companies. Although problems often occur and we cannot always plan things accurately, at least with a construction management app, we can manage and synchronize operations using a mobile device to optimize schedules and help reduce delays on ongoing projects.

The investigation of Al-Kharashi and Skitmore’s (2009) issues connected with limiting task delays proves the reasons for postpones in Saudi Arabia’s public area development projects. Numerous public development projects have been executed throughout the Kingdom of Saudi Arabia as a feature of the public authority’s public improvement plans over the most recent thirty years, including substantial public consumption (Albogamy et al., 2012). One of the fundamental issues with these undertakings is the recurrence and length of deferrals. It is first necessary to distinguish the primary drivers to cure what is happening. A few examinations have been accounted for that did this yet utilized various factors.

Another overview is accounted for to involve all factors from past work and measures for the degree of the ongoing impact on lingering and the degree to which each could be essentially gotten to the next level. It contains seven groupings: client, a worker for hire, specialist, material, work, agreement, and relationship-related causes (Elawi et al., 2016). The overview incorporates an example of 86 clients, workers for hire, and specialists working in the Saudi development industry. The examination uncovered some significant heterogeneity between cause pooling and respondent grouping concerning means and connections, primarily because of the respondents’ absence of information and the inclination of experts to fault workers for hire for deferrals as well as the other way around. Hence, the primary outcomes are disaggregated to mirror the perspectives on each gathering of respondents regarding each gathering of causes. As a rule, in any case, it was found that the most influencing reason for postpones today is the absence of qualified and experienced faculty — brought about by the massive number of enormous, imaginative development projects and the ongoing deficiency of related labor in the business (Alsuliman, 2019).

Then, Park and Kim (2013) then raised the issue of structures for the development wellbeing of the board and representation frameworks. As per them, with the new fast headway of representation innovation, indicated research work to develop development security further the executives rehearses has been completed for distinguishing dangers and preparing laborers on location. Be that as it may, the vast majority of the past examinations were restricted to mirroring the site security and the executive’s interaction, which as a rule, comprised of an arranging training investigation stage. This study proposes a structure for another security, the executives and representation framework that coordinates building data demonstrating, area following, increased Reality (AR), and gaming innovations. A model framework has been created and tried given the ideal
accident situation. Site security specialists have assessed the potential and specialized limits of the SMVS model. Additionally, contextual investigations were done, which showed that SMVS could further develop field danger ID, increment laborer of risk acknowledgment limit, and work on continuous correspondence between development directors and laborers (Auchter et al., 2018).

Furthermore, Andiyan et al. (2021) conducted a study on construction companies in Indonesia, where the company faced several problems that ended up experiencing delays. Among other things, the problems experienced were arrears in payments and also delays in accounting, making the company continue to experience problems and collisions here and there, so the critical page method solution was proven to be able to accelerate project implementation by increasing the human resource budget so that this construction company no longer needed to delay the payment of employee rights and other payments. Here we see that with the critical page method, companies have made various anticipations to project delays and everything related to project implementation; where by applying this method, the company can make savings and also add credibility from the company by providing a new schedule with In other words this method is a very modern method supported by prevention technology that can help companies save up to 50%.

**Streamlining Communication and Coordination**

The Manor app allows business owners to stay connected with supervisors, contractors, and other stakeholders anytime and anywhere. This allows each project management branch to communicate and coordinate well so that cooperation from various parties can be carried out more effectively and efficiently for the smooth running of construction projects.

Kandro et al. (2012) in the modernization of public area associations: Improving coordination and correspondence with the utilization of e-government innovation. They say that the Government of Pakistan, understanding the expected advantages of IT for the nation's turn of events, has made IT the way to modernizing public associations. Data Technology has been taken on with the point of extensively including critical partners in completing government undertakings. This exploration paper researches the significance of e-Government innovation in modernizing public area associations. This paper dissect the use of E-Government innovation in further developing coordination and correspondence between open area associations. The exploration has been directed based on three speculations. The speculations have been dissected in light of information gathered from public associations where e-Government Technology is utilized to modernize public area associations (Haque & Pathrannarakul, 2013).

Koseoglu et al., (2019) said that difficulties and contributing elements in BIM-upheld computerized change in super tasks: a contextual analysis of the new Istanbul air terminal undertaking. The Architecture Engineering and Construction (AEC) area has been chipping away at a developing number of super undertakings with huge scope ventures all over the planet. Most of these super undertakings are framework projects that are generally more challenging to oversee as far as creating the expected profit from speculation while working on
quality and efficiency. The ongoing development innovation scene offers many imaginative computerized answers for enhancing project imperatives in scope, time, cost, quality, and assets. Notwithstanding being perhaps the minor digitized area, the AEC area is presently ready to embrace advanced creative arrangements. It tends to be seen that Building Information Modeling (BIM) has been embraced quickly to address the difficulties of steadily developing uber framework projects (Bryde et al., 2013). This study examines the difficulties and supporting elements in using a start-to-finish BIM methodology for computerized change of the super task conveyance process through air terminal uber project contextual analyses to add to a robust and vital comprehension of BIM execution for uber framework projects. A two-stage semi-organized interview trailed the contextual investigation. In light of the discoveries, the fundamental difficulties are keeping up with consistent observation and control in project execution, designing intricacy, and adjusting partner BIM expectations to learn and adapt. In contrast, the primary advocates are key control components, boosting virtual cooperative climate and ceaseless advanced conveyance (Latiffi et al., 2014).

**Make Document Sharing Easy**

Each team member and project stakeholder can easily access documents containing important information regarding construction activities in the field. This is because construction project management applications can provide direct access to sources of information, be it wireframes, blueprints, specifications, or digital plans. Implementing a centralized control document system, of course, will help construction project actors make it easier to manage and make decisions needed at every step. Those are some benefits of using the Construction Project Management application from Manor. We can create applications that can be tailored to the project needs with a variety of flexible menu options to achieve maximum results. If you have any questions or want to know more information, you can contact us directly.

Perera et al. (2020) disclosures get some information about blockchain advancement: Is it advancement or certified in the improvement business? The beginning of the 21st century has seen the ascent of various headways zeroing in on the business and financial regions. This integrates Big Data, the Internet of Things, and FinTechs like Blockchain. Blockchain is a coursed database used to recreate, share and synchronize data spread across different geographic regions, objections, countries, or affiliations. The essential property of Blockchain is that there is no central administrator or bound together data limit part. The understanding of computation regulates a shared, decentralized network. The many benefits and use of Blockchain have spread the word about it well among numerous associations; in any case, is what is happening in the advancement business? Given the retrogressive thought of the improvement business in digitization and its security from change, it becomes essential to separate the likely impact of Blockchain as a potentially tricky development (Liu and Zou, 2019).

Despite tremendous investigation openings and expected open doors for testing blockchain in the improvement region, the advancement business has been represented as the second most negligible region to take on information
development. This prompts the issue of whether Blockchain is pure mechanical exposure or authentic potential applications are being developed (Chandra et al., 2017). This paper takes apart Blockchain’s possible usage being developed through use case assessment and an exhaustive composing study to decide if it is pure exposure or certifiable. The examination revealed that due to the emotional usage of Blockchain, the endeavor being referred to, and the number of new associations that are additional to Industry 4.0, Blockchain has a reliable potential in the improvement business.

At last, we disapproved made by Yang et al. (2020) on how public and private blockchains are in the business example of progress and data split the difference. Blockchain as an arising decentralized modernized headway has been by and large inspected to fix the deficiencies of pleasing plans. It is seen that blockchain advancement can work with strategic policies covering the genuine illustration of a plan project in the improvement business, for example, better correspondence or understanding, record sharing, stage changes, and quality help. An expansive survey of the synthesis on the use of Blockchain in the headway space saw that there are very few evaluations and usage of Blockchain being created practice. By a long shot, the greater part of the volatile development research integrates basically close to home assessments. In this paper, we plan to look at the sound judgment of executing public and private blockchain progressions being created using two industry cases. Two business process cases (i.e., Case 1 and Case 2) were picked and used to drive the fundamental plan of blockchain-based programming frameworks (Xin et al., 2017). The proposed plan is each shown utilizing Hyperledger Fabric (private, allowed, and open source blockchain stage) and Ethereum (public blockchain stage) to mirror the various necessities of the two use cases. This pilot concentrate likewise shows the cycles, advantages, and inconveniences of embracing private and public blockchain progression in the improvement space. This evaluation outfits well-informed authorities and specialists with a perception of the social event of blockchain progression, especially in the improvement business (Appelbaum and Smith, 2018).

Trace and Karadkar (2017) concentrated on the humanities chiefs' information: Scientific cycles, gadgets, and advancement of private varieties. The responsibility and hardships of information the board in the humanities stand adequately to be seen and appealing. Research libraries and documents, as well as get-togethers from inside the humanities train itself, are dependent on solid areas for offering information the chiefs work on, incorporating helping with attracting humanities specialists with legitimate electronic advances in a culture-tricky and discipline-based practice (Cosgrove and Loucks, 2015). Regardless, fundamental obstacles disappoint this work, because the establishment (organizations, contraptions, and cooperative associations) to help intelligence information the leaders are still being chipped away at. Under the security of the Scholars Tracking Archival Resources (STAR) project, we focus on how humanities scientists accumulate and manage fundamentals not set in stone to encourage programming to help their information the board practices. This article reports disclosures from our gatherings with 26 humanities scientists, close by starter essentials for a compact application that will maintain specialists in getting records, replicating chronicled settings, and moving these documents to disseminated capacity for access and sharing from various devices (Bringezu et al., 2016).
The proof Fernando et al. (2019) where in his study he adopted an effective governance system in dealing with various information and document issues in electronic construction projects. This electronic document system and corporate governance are tools that can be used to evaluate documents and coordinate storing and sharing of information in various paper-based formats. With enough benefits from this system so that this electronic document has been widely used in activities, one of which is a construction project where the work system is very safe with very friendly data, very visualization and the most impressive is the meager cost, so this is what people are looking for implementation of construction projects. Thus we conclude that involving this software in the implementation of this construction project is a breakthrough in saving construction work where the challenges and benefits are more in terms of benefits than seen from efficiency and various other advantages, so this application is very suitable for being applied in the implementation of various projects which require much fast-paced handling of various information, so we realize that this is a solution for how the presence of all-round technology can help efficiency in project work productivity.

Conclusion

In conclusion, this study will describe the conclusions we have obtained from many scientific publications that have turned into white studies that back up our findings, both of which are to gain understanding from various sources of project construction governance literature in the global era of technology. We believe all of this is more valid because we get from some previous scientific meetings, which we believe can provide our findings qualitatively. The findings we have obtained in completing the study of various scientific evidence regarding understanding the implementation of construction projects are supported by digital applications, including using this digital application to monitor reports in real-time. Further, we find that an efficiency increase can be achieved by involving the application of technology. Likewise, we see that the involvement of digital applications can minimize project bottlenecks and delays because the application works very quickly compared to the manual way. Next, with the involvement of the digital application, the project coordinator can communicate and coordinate directly. Furthermore, we also see that project implementation documents can be communicated and shared easily because they use such application verbs, including the scientists that we describe by experts based on.

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References


Vacanas, Y., Themistocleous, K., Agapiou, A., & Hadjimitis, D. (2015). Building information modeling (BIM) and uncrewed aerial vehicle (UAV) technologies in


