Integración de las metodologías Building Information Modeling 5D y Earned Value Management a través de una herramienta computacional

Building Information Modeling 5D and Earned Value Management methodologies integration through a computational tool

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Abstract

Many construction projects present uncertainty in their budgets and schedules. Also, the management of time and costs is inconsistent. There are methodologies and techniques that improve the management of construction projects: Techniques such as Earned Value Management (EVM), ideal for planning, monitoring and controlling the management of time and costs during the execution of projects, and methodologies such as Building Information Modeling (BIM) recognized for improving the planning and design of construction projects. This paper proposes the integration of BIM and EVM through an OpenBIM software called COST-BIM, designed in JAVA programming language and NetBeans 8.0.1 development environment. It manages construction projects time and costs under a single interface, consisting of four modules and fifteen processes. The software is validated through a real project of social interest housing (Vivienda de Interés Social VIS), comparing the budget, schedule, EVM original indicators and EVM projections of the project versus those generated by the tool. COST-BIM manages construction projects from its planning, during its execution and until its monitoring and control turning it into a useful software for construction managers that strive to increase the performance of their projects.

Keywords: Building Information Modeling, Earned value management, Schedule control, Costs control, Progress curves

Resumen

Muchos proyectos de construcción presentan incertidumbre en sus presupuestos y cronogramas. Asimismo, el manejo de tiempo y costos es inconsistente. Existen metodologías y técnicas que mejoran la gestión de proyectos constructivos: Técnicas como Gestión del Valor Ganado (EVM), ideal para planear, monitorear y controlar la gestión de tiempo y costos durante la ejecución de proyectos, y metodologías como Building Information Modeling (BIM) reconocida por mejorar la planeación y diseño de proyectos de construcción. Esta investigación propone la integración de BIM y EVM mediante un software OpenBIM llamado COST-BIM, diseñado en lenguaje de programación JAVA y entorno de desarrollo NetBeans 8.0.1. Gestiona tiempo y costos de proyectos constructivos bajo una única interfaz, conformada por cuatro módulos y quince procesos. La herramienta se valida a través de un proyecto real de Vivienda de Interés Social (VIS), comparando el presupuesto, cronograma, indicadores EVM y proyecciones EVM originales del proyecto frente a los generados por el software.

COST-BIM gestiona proyectos de construcción desde su planeación, durante su ejecución y hasta su seguimiento y control convirtiéndolo en un software útil para gestores de construcción que se esfuerzan por aumentar el rendimiento de sus proyectos.

Palabras clave: Building Information Modeling, Gestión del Valor Ganado, Control de presupuesto, Control de Costos, Curvas de Progreso

1. Introduction

Construction companies who have managed building projects know that they usually take more time and money than initially planned (Abadie et al., 2013). Therefore, construction managers are interested in managing and controlling their schedules and budgets in order to reduce costs and maximize profits (Hitt et al., 2006). However, preparing them requires collecting large amounts of data from different professionals, who generally do not interact nor communicate efficiently among them during the design phase of project deliverables, thereby entailing incompatibilities and data leaks and reprocessing during their integration process. This produces uncertainties in the quantification of resources (materials, labor and equipment) associated to the deliverables that will define the schedule and planned budget, which subsequently causes variations between the schedule,

and the planned and executed budget of the project.

But uncertainty in the schedule and planned budget is not the only cause of variations between the schedule and the planned and executed budget in construction projects. According to (Abadie et al., 2013), this is only one of several causes, and add that the most common ones are: bad planning, inappropriate definition of the project's objectives and scope, poor communication among the professionals involved, ineffective project management and supervision, unsuitable identification of the project risks and deficient systems for estimating and controlling the project time and costs.

Furthermore, they add that the issue of budget and schedule variations is present at global level. They analyzed 975 building projects and found that only 5.4% of the projects were within budget, and 36.4% incurred in cost overruns above 50% of the planned budget. These data demonstrate the impact of the variations between the schedule and the planned and executed budget on the

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project's final cost. However, this phenomenon is not inherent to the planning phase. During the execution phase, there are often delays which cause cost overruns, because there is no system controlling the performance of the work actually completed (Abadie et al., 2013).

Based on the above, the variation between the schedule and the planned and executed budget of the construction industry projects, lies in the absence of a system that integrates the necessary tools to manage this kind of projects, from its planning and design stage to its execution, tracking and control in a single interface. Nevertheless, technology is radically changing the building management practices. Nowadays, there are methodologies like the Building Information Modeling (BIM) and techniques like the Earned Value Management (EVM), which are capable of managing construction projects from the planning and design stages to their execution, tracking and control, respectively.

The aforesaid clearly implies the need to reduce the variations between the planned and executed schedule and budget of construction projects. Consequently, using techniques like EVM, perfect for monitoring and controlling time and cost management during the projects' execution (Project Management Institute, 2005), and BIM methodology, recognized for improving the planning and development of construction projects, this research developed the BIM-EVM integration by creating a software called COST-BIM. This software aims at improving the management of construction projects' schedule and budget, within an interoperable virtual environment for planning, design, execution, tracking and control of building projects. This tool allows integrating the BIM methodology and the EVM technique on a single interface, thanks to its interoperability with OpenBIM tools, with the purpose of getting the best of the benefits of each one in the construction project management, and offering building managers a tool that helps them control the schedule and budget of their projects.

2. Background

(Stevens, 1986) proposed a project management tool based on the performance curve, integrating the project cost and time. (Miyagawa, 1997) set forth a construction manageability planning system (CMY Planner). (Eastman et al., 2008) introduced BIM as a more integrated design and construction process, whose goal is to produce better quality buildings at a lower cost. (Enshassi and Abuhumra, 2016) perceive the BIM benefits in the design phase, because collaborative tasks are performed among all stakeholders from the very beginning of the project; therefore, each aspect of the design can be coordinated. Other authors add that any change made in the design is reflected on the entire model, thus eliminating errors and saving time when changing the design drawings and models. (Staub-French and Khanzode, 2007) set out that the adoption of the 4D model allows linking a programming to 3D elements, thereby producing a constructive simulation. They state that the benefits are multiple: identification of conflicts in the design phase, productivity, less change orders, better cost control, and detection of building interferences. (Chou, Chen, Hou and Lin, 2010) established the need to display the project information visually and automatically for an efficient control process of the project. (Isaza et al., 2015) indicate that BIM reduces the risks by 66%, improves the collaborative work

among professionals by 63%, reduces data reprocessing by 60%, reduces the design time by 48%, increases productivity by 67%, and integrates the processes inside the organization by 75%.

The mentioned authors deduce that BIM on its own is not enough to manage constructive projects during their entire life-cycles, especially because its greatest potential is reflected during the design stage for preparing building models and not during the execution, tracking and control stages.

On the other hand, (Czarnigow, 2008) analyzes the implementation problems of the EVM technique. He recommends the use of technologies or programming to achieve its successful implementation and make the most of its overall potential. Considering this, many researchers developed methods to get the benefits of the EVM technique. (Kim, 2009) evaluated the EVM in residential projects and analyzed the importance of the Cost Performance Index (CPI) and the Schedule Performance Index (SPI), and introduced a framework for assessing these indicators and how to use them to improve the project performance.

Based on the above, authors like (Jrade and Lessard, 2015) propose an integrated time and cost management system, called (ITCMS). It is composed by an EVM platform developed in Microsoft Excel and MS Project, which synchronizes the construction model with the project's time and cost parameters. The project's 3D BIM model was developed in Autodesk Revit 2013 and Autodesk Quantify Takeoff. The time for the activities is allocated in the MS Project to establish cost estimates and integrate these data into a Microsoft Excel datasheet to generate EVM curves in MS Project.

(Su et al., 2015) developed a model aimed at objects prepared in MS Virtual #, called (CSIS), which links BIM elements to their respective costs and programming times, automatically calculates total project costs and time and exports this information to a MS Project or Primavera Project Planner.

Consequently, it has been demonstrated that BIM improves project management in the design and planning stages. Moreover, it was found that EVM is a useful tool, which allows a proper time and cost supervision and control, in accordance with the scope of the project, so that building managers can compare the progress of the planned baseline and then evaluate if their construction will meet the budget and schedule objectives. Therefore, a BIM-EVM integration through COST-BIM is proposed.

3. Development of COST-BIM Software

The COST-BIM software was developed in a model aimed at objects and programmed in NetBeans, a powerful integrated development environment for generating applications in the Java platform. Its development required the creation of IDE Project, a group of Java source code files, in addition to the associated metadata, the files with specific project characteristics and the compiling script that controls the compilation and execution configuration to run the tool. Figure 1 details the software components and its graphic interface.



Figure 1. COST-BIM interface

COST-BIM was created with the idea of integrating BIM and EVM technologies; therefore, its interface was developed according to project management processes: planning, execution, tracking and control, and in turn, in accordance with a BIM Execution Plan framework (BEP). The development of this plan enables data management during the project and is based on the recommendations of the BIM Project Execution Planning Guide (Messner, 2010).

COST-BIM is an OpenBIM software that manages construction projects in a BIM-EVM system, prevents data leaks and reprocessing, automatically generates and updates the budget imported from a 5D BIM model (with unit quantities and values). Additionally, it exports the schedule data to other BIM tools for the simulation (4D), and makes EVM analysis by generating project indicators and estimates by activity, based on trends.

3.1 BIM-EVM System

The BIM-EVM System is achieved through the COST-BIM interoperability with other OpenBIM software. Figure 2 lists the inputs, analyses, criteria and outputs required for integrating BIM and EVM during the planning and execution stages. Each phase has its own group of inputs and outputs. The main inputs in the planning phase are the Work Breakdown Structure (WBS) (related to the 3D BIM model through a Keynote structure), the 3D BIM model, and the duration and cost of the activities. In the execution phase, it is the progress of the work effectively executed and the approved change requirements.

Inputs

Planning Phase 1. Project data

2. Work Breakdown Structure (WBS)

3. BIM Execution Plan, BEP

4. Modeling of the BIM model

5.Keynotes-WBS

6. Cost of modelable activities

Execution Phase Progress of executed work Changes in the project

Analysis Planning Phase

1. BIM model overall visualization

2. Time and cost estimates for each model component

Collision detection
 evaluation of the

3D model

Execution Phase

1. Evaluation of the project progress

2. Overall model visualization

3. How changes affect the project

Criteria

Planning Phase

1. Reliable historical records for allocating time and costs

2. The model's WBS is identical to that used in COST-BIM for estimates and programming

3. Modeling of architecture, structure and MEP

Execution Phase

1. Precision of the executed work %

2. Methods for measuring progress

	<u> </u>		
	Outputs		
Planning Phase		Monitoring and Control Phase	
1. Model quantities		1. Updated schedule and budget	
schedule		2.EVM indicators of budget and schedule	
3. Earned Value Management module (EVM)		3. curves 4. Updated 4D model	
4. 5D model 5. Constructability evaluation		5. Updated 5D model	

Figure 2. BIM-EVM arquitecture

COST-BIM proposes an efficient system that facilitates the project and management coordination, and improves the communication among stakeholders, thereby ensuring the storage, integration and synchronization of the project data, such as the scope, schedule and budget, in a single BIM-EVM interface.

3.2 Methodology of the BIM-EVM System

The BIM-EVM system addresses the planning, execution, tracking and control of a construction project, through its interface, by creating the budget and schedule, EVM indicators and performance curves of any kind of building project, centralized in the project's 3D BIM model and WBS (see Figure 3).



Figure 3. Methodology of the BIM-EVM System

The integration of the BIM-EVM interface with COST-BIM, requires using the BIM modeling software and a software for the control and management of BIM construction models. In this case, the following was used: BIM modeling software, Autodesk Revit, and Autodesk Navisworks. However, COST-BIM allows using any BIM software, maintaining certain operability parameters.

Figure 4 describes the integration of BIM and EVM and how it includes the planning, execution, monitoring and control of the project, through the integration of the scope, time and cost management of the project.



Figure 4. BIM-EVM System during the project's life-cycle

4. Results

COST-BIM was validated to test the viability and potential BIM-EVM integration. The results were corroborated by testing them in two scenarios: during the planning stage and the construction phase. The data analysis and systematization was corroborated according to the system's functionality tests, with data of a real project. As for the validation of the results generated by the software, the COST-BIM budget and schedule was compared against those provided by the partner building company. In order to corroborate the EVM module, it was necessary to develop a Microsoft Excel datasheet, because the building company does not control the schedule nor the budget through EVM.

4.1 COST-BIM Operation

The BIM-EVM system is launched by creating the project's WBS in a .txt file. Afterwards, the BEP form is issued, which records the persons in charge and the responsibilities associated to the BIM model (see Figure 5).

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nbre del Proyecto	DISENO ARQUITECTONICO	ALTO	PAOLA ZAPATA ROZO	ALTO	1	
	DISENO ESTRUCTURAL	ALTO	CHRISTIAN CARDENAS JI	ALTO	1	
DYECTO PILOTO	DISEÑO HIDRAULICO	ALTO	PAOLA ZAPATA ROZO	ALTO	2	
crinción	DISEÑO ELECTRICO	ALTO	CHRISTIAN CARDENAS	ALTO	1	_
	COSTOS MODELO 3D	MEDIO	PAOLA ZAPATA ROZO	ALTO	1	
ICACION:	MODELO 4D	ALIO	CHRISTIAN CARDENAS	TALIO	2	-41
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Figure 5. BIM Execution Plan, BEP

The project's WBS is linked through Keynotes. Based on 2D data of the pilot project, the BIM model is run in the modeling software and all the project's relevant data are entered; for example, the cost of each BIM element. The quantities and costs generated in the BIM modeling software are exported from the 3D BIM model to an .xlsx file. This file allows generating the link between COST-BIM and any BIM modeling software. This table contains the following data: 1. Keynote, which classifies the ID of each activity subject to modeling within a project WBS; 2. Level where the element is (this information is important for the configuration of the budget, schedule, EVM and 4D analysis); 3. Physical characteristics of the element (length, height, width, area, volume), which provide the element quantities for the budget; 4. Characteristic of the element to be analyzed. This option is highly relevant, because the unit cost of the element is inserted here, which allows calculating the budget automatically later on.

After the BIM model is completed, the quantities are exported to an .xlsx file, and then they are imported to COST-BIM. The schedule is automatically generated based on the project WBS; the duration is allocated to each activity, based on a Gantt chart, envisaging the logic precedence of the project activities (see Figure 6).

ENGLISH VERSION

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► 📺 GRIFERIA	832	23/08/2017	2/10/2017								
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MOVIMIENTO DE TIERRAS	960	8/11/2016	14/12/2016								
ExcavaciAªn MecAjnica	961	8/11/2016	10/11/2016	Con	Torre	0203001					
Relleno en Recebo	962	11/11/2016	12/12/2016	Con	Torre	0203002					
CompactaciAm Subrasante	963	13/12/2016	14/12/2016	Con	Torre	0203003					
ADMINISTRACIA"N DE OBRA	964	3/11/2016	2/10/2017				_				
GASTOS GENERALES	967	3/11/2016	2/10/2017								
PUSVENTAS	976	3/11/2016	2/10/2017								
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Figure 6. Schedule Module

Finally, a .cvs file is created with the schedule data, in order to import it to the software for control and management of BIM construction models, with the aim of making the 4D simulation.

It is important to mention that, when you import the project quantity .xlsx file to the COST-BIM software, the budget is automatically created according to the project WBS, and simultaneously with the schedule. The budget (see Figure 7) is presented in a 3-level tree structure (chapters, subsubsections, items), with their respective control accounts.

Non-modelable activities are created with their respective costs and the corresponding overhead, profit and contingency (OPC). It should be mentioned that non-modelable activities are automatically created in the schedule; therefore, you have to go back to the schedule and allocate the corresponding precedence and duration. It should also be highlighted that the COST-BIM budget module allows updating the budget automatically, based on the changes made directly on the 3D BIM model, without losing the previously added data.

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ID Nombre Actividad	Objeto de Control	Unidad	Cantidad	Precio	Valor Total
▶ 💼 MUROS					\$ 314,922,149.48
► COLUMNAS					\$ 63,334,035.71
ACEROS Y MALLAS					\$ 159,040,703.71
▶ 💼 VIGAS					\$ 31,692,485.60
▶ 💼 INSTA.ELĉCTRICAS					\$ 121,289,990.40
▶ 💼 INSTA.HIDROSANITARIAS					\$ 125,783,721.60
PISOS Y PLACAS					\$ 220,468,311.08
▶ 💼 PINTURA					\$1,180,049.10
G.E Y DILATACIONES					\$ 5,209,158.32
VENTANERIA					\$ 16,089,292.80
▶ 💼 PAÃ'ETE					\$ 8,267,769.62
CARPINTERIA MADERA					\$ 10,513,536.00
CARPINTERIA METALIC					\$ 3,297,463.65
APARATOS DE BAÃ'O					\$ 11,126,544.00
APARATOS DE COCINA					\$ 14,415,456.00
► 💼 GRIFERIA					\$ 6,140,072.00
ASEO E IMPERMEABILIZ					\$ 7,743,790.80
EQUIPO Y FORMALETA					\$ 65,926,750.51
MOVIMIENTO DE TIERR					\$ 7,956,943.50
ADMINISTRACIÁ"N DE 0					\$ 28,739,628.00
GASTOS GENERALES					\$ 54,520,876.00
POSVENTAS					\$ 9,413,733.00
► mprevistos					\$ 27.834.437.00

Figure 7. Budget Module

To conclude, the project's performance is measured through the earned value. The planned and executed data are compiled and processed. Then, you enter the data such as the actual cost AC, and the % completed to date for each activity (based on the 4D simulation), with the aim of obtaining the performance indicators for the budget and schedule (see Figure 8), together with the EVM charts (see Figure 9).

ID	Objeto o	de Control	Nombre Actividad	Días	Valor Planeado	Valor Actual	Valor Gana	ido BAC	
MUROS									
501002.0	CimentaciA Rico 1	A³n	Concreto 0.12M	6	\$4,302,148.48	\$4.431.213	\$4,302,148.48	\$4,302,14	48.48
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01002.0	Piso 2		Concreto 0.12M	4	\$6,300,669.44	\$6.489.689	\$6,300,669.44	\$6,300,6	69.44
01002.0	Piso 2Â'		Concreto 0.12M	4	\$4,989,733.12	\$5.139.425	\$4,989,733.12	\$4,989,73	33.12
01002.0	Piso 3		Concreto 0.12M	4	\$4,334,264.96	\$4.464.293	\$4,334,264.96	\$4,334,2	64.96
01002.0	Piso 3A'		Concreto 0.12M	4	\$4,334,264.96	\$4.464.293	\$4,334,264.96	\$4,334,21	64.96 64.06
01002.0	Piso 4 Piso 4â'		Concreto U.12M Concreto 0.12M	5	\$4,334,204.90	\$1,404.293	\$4,334,204.90	\$4,334,21	04.90
01002.0	Piso 5		Concreto 0.12M	6	\$507.294.40	\$522.513	\$507,294,40	\$507.294	40
01002.0	Piso 5Â'		Concreto 0.12M	6	\$507,294.40	\$522.513	\$507,294.40	\$507,294	.40
501002.0	Piso 6		Concreto 0.12M	7	\$507,294.40	\$522.513	\$507,294.40	\$507,294	.40
01002.0	Piso 6Å'		Concreto 0.12M	7	\$253,282.24	\$260.881	\$253,282.24	\$253,282	.24
03004.0	Piso 6A'		Cuchillas Fachada	10	\$352,071.53	\$362.634	\$352,071.53	\$352,071	.53
503004.0	Cubierta 2 Cubierta 14	Â	Cuchillas Fachada	10	\$350,145,01	\$360.649	\$350 145 01	\$702,216	.04 101
02001.0	Piso 6Å'		Cuchillas Interior	10	\$2,391,061.75	\$2.462.794	\$2.391.061.75	\$2,391.0	61.75
502001.0	Cubierta 2		Cuchillas Interior	10	\$4,958,516.50	\$5.107.272	\$4,958,516.50	\$4,958,5	16.50
502001.0	Cubierta 1Å	´	Cuchillas Interior	10	\$2,570,576.75	\$2.647.694	\$2,570,576.75	\$2,570,5	76.75
703004.0	Piso 6A'		Cuchillas Fachada	10	\$285,124.96	\$293.679	\$285,124.96	\$285,124	.96
703004.0	Cubierta 2	Â′	Cuchillas Fachada	10	\$570,249.92	\$587.357	\$570,249.92	\$570,249	1.92
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702001.0 702001.0	Piso 6Â' Cubierta 2		Cuchillas Interior Cuchillas Interior	10	\$1,155,530.25 \$2,222,083.50	\$1.190.196 \$2.288.746	\$1,155,530.25 \$2,222,083.50	\$1,155,53	30.25 83.50
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102001 0 102001 0 102000	Piso 6Å Cubierta 2 Cubierta 1 Cubierta 1 ortar Análisis Gráfic militaria (Cronogram p) EVM (PROYECTO D COSTOS D	Cas Ayuda	Cuchilas Interior Cuchillas Interior Cuchillas Interior Cuchillas Interior a EVM Indicadores EVM 0 03-111-2016	10 10 10 Gráficas de Desempeño 04-11-2016	\$1.155.530.25 \$2.222.083.50 \$1.066.163.00 05-11-2016	\$1.190.196 \$2.289.746 \$1.098.148 06-11-2016	\$1.156.501.25 \$2.222.083.50 \$1.066.163.00 \$1.066.163.00	\$1.155.5 \$2.222.0 \$1.066.11 08-11-2016	00.25 83.50 83.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.00 93.000
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Correction of the second of th	Piso 6Å Cubierta 2, Cubierta 1, Cubierta 1, Cubierta 1, Cubierta 1, Piso 6Å Cubierta 2, Cubierta 2,	A'	Ouchilas Interior Cuchillas Interior Cuchillas Interior Cuchillas Interior a EVM Indicadores EVM 03-11-2016 \$1,167,895.15 \$1,167,895.15 \$1,07,433.98 \$1,07,433.98	10 10 10 Cráficas de Desempeño 04-11-2016 \$1,167,885.16 \$2,355,770.32 \$0.00 \$1,071,433.98 \$2,142,867.97	\$1,155,530,25 \$2,222,083,50 \$1,066,163,00 \$1,066,163,00 \$1,167,885,16 \$1,167,885,16 \$3,503,055,48 \$0,00 \$1,071,433,98 \$3,214,301,95	\$1.190.196 \$2.288.746 \$1.098.148 \$1.098.148 06-11-2016 \$1,167,885.16 \$4,671,540.64 \$0.00 \$1,071,433.98 \$4,285,735.93	\$1.155.50.25 \$2.222,083.50 \$1.066,163.00 \$1.066,163.00 \$1.065,163.00 \$1.167,085.16 \$5.339,425.81 \$0.00 \$1.071,432.98 \$5.357,169.91	\$1,155,5 \$2,222,0 \$1,066,11 \$1,066,11 \$2,178,730,49 \$2,178,730,49 \$2,082,279,32 \$7,439,449,23	09-11- 09-11- \$2,178,7 \$10,196 \$0.00 \$2,082,2 \$9,521,7 \$0,208,2 \$9,521,7 \$0,208,2 \$9,521,7 \$0,208,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,008,2 \$0,0
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Figure 8. EVM module



Figure 9. EVM charts module

4.2 Pilot Project

The BIM-EVM interface of COST-BIM was validated by a real, social-interest housing project (SIH) located in Usme, Bogota D.C., Colombia. The project consists in 18 towers of 6 floors, 4 apartments per floor, for a total of 432 housing units, whose construction will be completed in 2018. This type of project is composed of iterative modular spaces, which make the modeling process easier, and that is why it was chosen for the validation. The total built area is 23,456 m, which has saleable areas from 47 m to 61 m. Figure 10 describes the model characteristics. It should be noted that the validation process analyzed the budget and schedule of a double module (2 towers) of 24 apartments from the foundation to the roof, with the aim of simplifying the validation. The budget of this double module is 1,446,108,083.00 and the timeline is 349 days.



Figure 10. Architectural, Structural and MEP Model

4.3 Data Validation

The budget module presents a difference of 0.85% (see Figure 11) in relation to the original project, as a result of the reinforcing steel quantification of the project. The building company quantifies this activity based on the amounts provided by the structural engineer, as opposed to the

amount quantification of the BIM-EVM system, which is based on the 3D BIM model. This difference is not significant, because it represents less than 1% of the original budget. Likewise, the budget generated by COST-BIM fits the project planning.



Figure 11. Original Budget vs COST-BIM

Regarding the schedule module, there is a difference of 4.3% (see Figure 12) in relation to the original schedule. The schedule difference lies in the impossibility of programming the holidays of the Colombian calendar in COST-BIM, an inconvenient that will be solved in the software's future versions.



Figure 12. Original Schedule vs COST-BIM

Concerning the EVM module, the indicators and estimates generated by COST-BIM were identical

to those generated by the Microsoft Excel datasheet (see Figure 13).

Cost consolidation		EVM Proyect
-	10/09/2017	10/09/2017
Planned Value (PV)	\$1,241,979.74	\$1,241,979.74
Accumulated Planned Value (PV)	\$1,428,342,939.65	\$1,428,342,939.65
Actual Cost (AC))	\$1,434,630.12	\$1,434,630.12
Accumulated Actual Cost (AC)	\$1,399,029,279.51	\$1,399,028,473.25
Earned Value (EV)	\$1,078,979.48	\$1,078,979.48
Accumulated Earned Value (EV)	\$1,396,076,094.99	\$1,396,076,094.99
EVM Indicators		
BAC		
TOTAL DAYS		
CPI	0.75	0.75
TCPI	1.00	1
EAC	\$1,939,200,658.74	\$1,939,200,658.74
VAC	\$-480,735,724.86	\$-480,735,724.86
ETC	\$1,937,766,028.62	\$1,937,766,028.62
SV	-\$163,000.26	\$-163,000.26
SPI	0.87	0.87
EACt	385	385
EAC Date	23/11/2017	23/11/2017
		Presents Overrun
		Delay

Figure 13. Original EVM vs COST-BIM

Until the cutoff date of 09/10/2017, the pilot project presents a progress of 75%, a planned value of PV =

\$1,428,342,939, an actual cost of AC = \$1,399,028,473 and an earned value of EV = \$1,396,076,094 (see Figure 14).



VAC, Variance at completion	-\$480,735,724.86		
ETC, Estimate to Complete	\$1,937,766,028.62		
Schedule Indicators and Estimate	28		
SPI, Schedule performance index	0,87		
SV, Schedule variance	-\$163,000.26		
EAC Estimate at completion (time)	385 days		
Date (EAC)	23/11/2017		

Figure 14. COST-BIM-generated Indicators, Estimates and Curves

Based on the information in Figure 14, the budget has a negative performance with a CPI = 0.75 lower than 1, which indicates an inefficient budget investment during the project execution. Thus, the final cost of the project is estimated at EAC = \$1,939,200,658, showing a variation between the planned budget and the executed budget of VAC = -\$480,735,724. Regarding the project schedule, it presents delays resulting from the failure to meet the dates predetermined in the planned schedule. The project did not start as planned on 11/03/2016, but on 11/10/2016, thereby causing a one-week delay, due to non-compliance of the earthworks contractor. Subsequently, a two-week delay was produced by a non-compliance of the masonry contractors. Given this scenario, the project schedule presents a negative situation with a SPI = 0.90 lower than 1, which indicates a poor performance. Therefore, a duration is estimated of EAC = 385 days instead of 334 days, as established in the planned schedule. Thus, the project will be completed on 11/23/2017 and not on 10/02/2017, as envisaged in the planning.

According to the generated indicators and estimates, COST-BIM forecasts a negative scenario for the pilot project until the cutoff date. Therefore, systems like the one proposed in COST-BIM could mitigate this kind of negative scenario by identifying the project activities causing the variations between the planned and executed schedule and budget.

Consequently, these systems can be a useful tool for construction managers, during the planning and design phase, and gain more relevance during the execution, tracking and control for the decision-making process aimed at changing the course of the project, on the condition that it is implemented since the beginning of the project.

Regarding the pilot project, the implementation of BIM-EVM in the COST-BIM tool demonstrates that it operates as expected and meets the requirements and specifications previously determined, because it generates the necessary alerts to make assertive decisions during the project execution.

5. Discussion

Currently, there are different OpenBIM project management software, from 2D BIM to 5D BIM. Researcherslike (Su, Chen and Chien, 2015) developed interoperable CSIS with Autodesk Revit that are able to integrate budget and schedule into a single interface. This tool includes just the planning phase of building projects, because its interface did not develop a cost and time control module. (Jrade and Lessard, 2015) developed ITCMS, which is able to integrate both budget and schedule, adding a time and cost control through the EVM technique. However, the use of different tools for construction project management causes data reprocessing and leaks.

Likewise, the software market aimed at construction project management offers different alternatives. Table 1 lists some of them, and also indicates the weaknesses with regard to COST-BIM and the BIM-EVM system.

Table 1. COST-BIM vs Other Tools

Software	Disadvantage in relation to COST-BIM
Edificar	Its interface does not integrate the schedule, thereby generating data reprocessing. It does not export schedule data automatically from its interface for 4D simulations. The EVM is very broad, it does not calculate the generated indicators by activity.
Opus-2015	It is not OpenBIM, it does not integrate the schedule in its interface, which prevents the schedule data export for 4D simulations.
SAP	Its interface does not integrate the schedule. It does not control schedule nor budget through EVM.
Microsoft-Project	It generates data leaks and reprocessing. It does not control schedule nor budget through EVM.
Microsoft -Excel	Its interface does not integrate the schedule. It generates data leaks and reprocessing.
Presto	Its interface does not integrate the schedule. It does not control schedule nor budget through EVM.
Sinco-ERP	It is not OpenBIM. It does not integrate the schedule in its interface. It does not control schedule nor budget through EVM.
Primavera-P6	It does not generate the budget based on the BIM model; therefore, the budget updating presents data leaks and reprocessing.
Tilos-Software	It is not OpenBIM. It does not control schedule nor budget through EVM.
Vico-Software	It does not control schedule nor budget through EVM.
Synchro-Software	It does not control schedule nor budget through EVM.

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Therefore, it is inferred that COST-BIM reduces the gap found in applications such as ITCMS, CSIS and other software on the market. The advantage of COST-BIM is that it integrates time and cost into a single interface, in the same way as the BIM methodology and the EVM technique, thereby managing projects since their planning and design until their execution, tracking and control in a OpenBIM environment, and controlling the performance of schedules and budgets of construction projects.

6. Conclusions

COST-BIM adapts itself to the BIM methodology and gets the best of the benefits of the modeling and control software available in the BIM construction model management, because it allows coordinating and visualizing construction projects, with the aim of associating time and cost to each component of a 5D construction model. Likewise, it adjusts itself and promotes the good practices of the Project Management Institute (PMI), by developing schedules and budgets according to PMI recommendations. Change control within the 3D BIM model and the project performance control in their baselines were also considered, based on the project WBS.

It has the potential to improve the workflow in construction project management and, additionally, the following benefits were identified in its implementation in the project: the capacity to associate detailed values of time and cost of each component of the building model during the planning phase; the automatization of the cost estimate and budget preparation process; the creation of a time and cost baseline, which serves as a reference for an EVM performance analysis in any cutoff date of the project; and the estimate of the possible course of the project, using performance trends to offer the project manager a tentative scenario of the project's future.

The COST-BIM software, together with BIM tools, are bound to improve good construction practices and foster the implementation of the EVM technique and the BIM methodology in the building industry. Moreover, it will help construction managers to make key decisions at the right time during the project planning and execution stage, since this tool offers the possibility to analyze indicators in a overall way (analysis by project) or specifically (analysis by control object, work packs and deliverables), because it analyzes them independently.

In the future, COST-BIM modules could include risk management and quality, since they could be directly related to 5D BIM models; this could help construction managers to efficiently manage their projects.

Furthermore, we recommended that future versions of this management tool are associated to other accounting or cost control tools, in order to process the Actual Costs generated by each deliverable in a more automatized and accurate way, because currently, the user has to insert these costs manually.

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