

4TH ASEAN BIM COMPETITION (ABCOM) 2025

“All contractors and consultants who have construction projects with categories, Building, Infrastructure or Industry are invited to participate”

All winners from each categories will be invited to CAFE0'43 in Clark, Philippines

Milestone

Registration & Portfolio Submission
5 July - 30 September 2025

Portfolio Assessment
1 - 15 October 2025

Winners Announcement & Inauguration
CAFE0 43, Clark, Philippines - 30 October 2025

Participants will be evaluated based on:

1. Better communication and collaboration
2. Improved task, network, and scheduling management
3. Efficient cost and budget control
4. Rapid scenario analysis & agile approach
5. Lean organization and effective people management
6. Sustainable development principles
7. Green and eco-friendly solutions

Scan here for registration :



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<https://cafeo43.com/>



**Clark, Philippines
28-30 October 2025**

ABCOM-04.25 4th ASEAN BIM Competition 2025

Term of References (TOR)

CONCEPT NOTE

*BEACONS OF PROSPERITY, INCLUSIVITY,
EQUITY, RESILIENCE, AND SUSTAINABILITY.*

In Collaboration With:



beyond construction

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Pertubuhan Ukur
Jurutera & Arkitek
(PUJA)



Board of Engineers
Cambodia (BEC)



Persatuan Insinyur
Indonesia (PII)



Lao Union of
Science and
Engineering
Associations
(LUSEA)



The Institution of
Engineers, Malaysia
(IEM)



Federation of
Myanmar
Engineering
Societies (Fed.MES)



The Philippine
Technological
Council (PTC)



The Institution of
Engineers
Singapore (IES)



The Engineering
Institute of
Thailand (EIT)



Vietnam Union of
Science and
Technology
Associations
(VUSTA)





BACKGROUND

CAFEO 43 is the place to be for engineers. be part of this annual engineering summit that promises to redefine the landscape of innovation and collaboration in the ASEAN region.

The Conference of the ASEAN Federation of Engineering Organizations (CAFEO) is a dynamic convergence of intellect, industry, and opportunity, encompassing an engineering exhibition, a thought-provoking conference, and a plethora of engaging programs. This year, it will be held in the mesmerizing landscapes of Clark, Philippines.

As a continuation of last year's competition, this year's competition is expected to be even bigger, with participation from all ASEAN countries.





I. TERM OF REFFERENCES

T H E M E

In line with the theme of the competition “BEYOND BIM,” the competition will focus on the use and role of BIM in project management success, particularly in improving cost and time efficiency as well as attaining sustainability.

In this competition, the participants have to show how the adoption of BIM in their project/company as a project management tool accomplishes any or all of the potential benefits as identified as mentioned in the judgement criteria as follows:

1. Better communication and collaboration
2. Better project tasks, networking, and scheduling
3. Better in cost and budget control.
4. Rapid analysis of different scenarios and an agile approach.
5. Lean organization and better people management.
6. Sustainable development.
7. Green solutions.

A I M & O B J E C T I V E S

The main purpose and objective of the competition is to exhibit the state-of-the-art BIM Implementation in project management, by ASEAN companies holistically adopting BIM in all aspects of their respective project management and deliveries. The other purpose is to promote the use of and enhance the professional capacity of the engineering profession in mastering BIM technology. The objective is to showcase state of the art implementation of BIM technology with AEC professionals.

The competition will be held in Regional ASEAN level, which hopefully will cover and provide real project examples from the infrastructure, industrial, and built-environment sectors, with indications on how BIM helped the companies improve their cost and time efficiency. Furthermore, every participant must show off their insight on the journey/requirements of their company to develop their bespoke BIM technologies and capabilities, and how the companies themselves evolve with the adoption of BIM as part of their project management tools.

Finally, every participant will have the opportunity to demonstrate how they interact and discuss issues or problems hindering BIM Implementation for project management within their organization. As a follow-up to the competition, the winner will have the opportunity to present their projects to the jury. Winners will also have the chance to present at the BIM webinar on 29th October 2025, during CAFEO 43 in Clark, Philippines.

II. PARTICIPANTS & JURIES

Participants are teams from all ASEAN countries presenting design/ construction/ operated projects.

Juries are professionals in the construction industry.

The judging panel will consist of several juries, ideally representing the following areas of competencies or categories:

- The Government and BIM Institutions that establish and publish the rules for BIM application in their respective country.
- The university or academic background who has experience in teaching of related subjects to BIM.
- The practitioners (Contractor or consultant) who have experience in practicing BIM in his/her project/company.
- from the AFEO Countries as follows:
 - PII, Indonesia.
 - EIT, Thailand.
 - VUSTA, Vietnam.
 - PUJA, Brunei Darussalam.
 - IES, Singapore.
 - LUSEA, Laos.
 - BEC, Cambodia.
 - PTC, Philippines.
 - IEM, Malaysia.
 - Fed. MES, Myanmar.



III. CATEGORIES & AREAS

REGIONAL ASEAN COUNTRIES

In this category, the participant is coming from all ASEAN countries, covering **3 Areas**:

1. Building

Building projects refer to the construction of vertical structures intended for human use and occupancy. These can range from residential and commercial buildings to institutional and mixed-use developments. Key considerations in building projects include functionality, design, safety, and sustainability.

Example: Apartment towers, schools, office buildings, hospitals, malls, etc.

2. Infrastructure

Infrastructure projects focus on the development of essential systems that enable public mobility, service delivery, and economic activity. These include transportation networks, utility systems, water management facilities, and public works. Infrastructure projects serve as the backbone of regional and national development.

Example: Roads, toll gates, railway stations, bridges, water treatment plants, etc.

3. Industry

Industrial projects involve the construction of facilities that support manufacturing, processing, energy production, and other industrial operations. These projects typically require specialized engineering, high structural capacity, and integration with mechanical and electrical systems. They often include factories, warehouses, power plants, and oil & gas facilities.

Example: Geothermal power plant, steel factory, LNG terminal, industrial warehouse.

IV. STAGES & SCHEDULE

A. STAGES OF COMPETITION

1st Stage (June-September 2025)



2nd Stage (October 2025)



Explanation of the picture above is as below:

1. Participants who have registered can proceed to the Confirmation stage, where the committee will confirm the validity of the participant's registration.
2. Participants can send their Portfolio, Presentation, and Video after going through the confirmation stage.
3. Portfolio, presentation material, and video selection are carried out by the jury during the time range that has been determined by the committee. (Number of Slides max 15 pages, Time Given for Presentation max 10 Minutes + Video max 2 Minutes)
4. The jury conducts an assessment and settles the winners for each area. (Jury Q&A to Validate Authenticity 10 max Minutes)
5. The 3 winners (from each Area and Overall) will make 3 presentations during the webinar at CAFEO 43 in Clark, Philippines.
6. The award for all the winners will be presented during CAFEO 43 in Clark, Philippines.

B. SCHEDULE OF COMPETITION

The following is the timeline for the implementation of the BIM competition activities:



LAUNCHING/WEBINAR I
Makassar, Indonesia - 3 Jun 25



PORTFOLIO SUBMISSION
5 Jul 25 - 30 Sep 25



MID-TERM CAFEO 43
Da Nang, Vietnam 6 - 8 Aug 25



WEBINAR II
KLCC, Malaysia - 12 Sep 25



PORTFOLIO ASSESMENT
1 – 15 Oct 25



WEBINAR III in CAFEO 43
Clark, Philippines - 29 Oct 25



INAUGURATION in CAFEO 43
Clark, Philippines - 30 Oct 25

MILESTONES

	Jun	Jul	Aug	Sep	Oct
Launching & Webinar I	03				
Start of Portfolio Submission		05			
Mid-Term CAFEO 43			06-08		
Webinar II				12	
Last of Portfolio Submission				30	
Portfolio Assessment					01-15
Q&A Session					01-15
Winner Announcement					22
Webinar III/Winner Presentation					29
Winner Inauguration					30



V. REGISTRATION MECHANISM

Participants Criteria

Participants are welcome from all AFEO member countries presenting design/construction/finished projects.

Registration Terms

1. The registration fee is **USD 150** per participant by transferring to the Committee Account
Account Name : Persatuan Insinyur Indonesia-Cab Jaksel
Bank Name : Bank Mandiri
Account Number: 070-00-09902714
2. Participants fill out the registration form, which can be downloaded from **the registration link**, by including proof of payment (Mentioned in the Flyer)
3. After the data has been sent, participants are required to confirm with the committee.

Contact & inquiries : Agung Maulana Al-Hasby

+62 812-9102-9091

_Sekretariat PII Jaksel

Registration Link : <https://bit.ly/abcom43cafeo>

Participant Facilities

1. Every participant who is registered in the competition will get an e-certificate.
2. Every participant who occupies a finalist position is entitled to win prizes.
3. The 1st winner of each Area will get the following prizes, such as 1 ticket to Clark, Philippines, including hotel for 2 nights (28-30 October 2025) at CAFEO43 for 3 winning participants.



VI. SCORE POINT OF THE COMPETITION

As mentioned above, the participants are expected to be able to show how the adoption of BIM in their project/company as a project management tool accomplishes any or all of the potential benefits as identified as follows:

1. **Better communication and collaboration:** In complex inter-organisational environments, BIM could lead to an integrated database as opposed to the sharing of documents.
2. **Better project tasks, networking, and scheduling:** BIM allows the updating of the schedule and budget when any project design change occurs.
3. **Better in cost and budget controlling:** 5D offers the project manager more tools to monitor and keep tight reins on costs.
4. **Rapid analysis of different scenarios and agile approach:** BIM allows the project manager to show how design decisions impact cost and schedule.
5. **Lean organization and better people management:** BIM has been linked to the development of lean approaches, as the enhanced collaboration and information sharing can contribute to reducing non-value-adding waste.
6. **Sustainable development:** By application of BIM in the project has shown certain support for the sustainability of the result of the project.
7. **Green solutions:** BIM has surely shown its clear green solutions to the project.

The assessment uses the 7 aspects above for portraits and video presentations by the jury.



VII. COMPETITION REQUIREMENT & RULES

- **SUBMISSION REQUIREMENTS:**

- Participant's submission required:
- Portfolio
- Presentation Material
- Video presentation
- All documents are submitted through email abcom.cafeo43@gmail.com by **30th September 2025**.
- Participants are only allowed to submit all the documents 1 (one) time.
- Participants are required to submit their documents in .zip or .rar format, with a **maximum file size of 150 MB**.

The following are the technical provisions for compiling submissions for all 3 competition areas:

- **PORTFOLIO**

The following is a systematic Portfolio preparation:

- **Chapter 1 Introduction:**

Participant and project description (project type, including due date of the project done, current stage and contract fee)

- **Chapter 2 BIM Implementation:**

Description of BIM goals, challenges, and solutions on implementing BIM & digital construction technology in the project, description of workflow and software used, identification of collaborative works and innovations in BIM Implementation (including 7 aspects potential benefits)

- **Chapter 3 Conclusion:**

Value & Benefit of BIM & Digital Construction Implementation

- **Appendix:**

(1) Team personnel short CV

(2) Detail BIM deliverables to support BIM Goals in Chapter 2

Portfolio submission format:

- Font Segoe UI, size 10.
- Page space 1,15, before and after 0.
- Paper size A4.
- Default Margin
- Maximum 30 pages.
- Portfolio is written in English in a written narrative document and/or slide presentation.
- Submitted in PDF format.

- **PRESENTATION MATERIAL**

Participants must present the results of the BIM implementation following the submitted Portfolio, with presentation content:

- Introduction: Participant and project description
- BIM & digital construction implementation: BIM goals, challenges, solutions, collaborative works, and Innovations on Projects
- Conclusion: Value & Benefit of BIM & digital construction Implementation

Presentation material submission format:

- Presentation is in English.
- Maximum 30 slides.
- Format in slides, widescreen 16:9.
- Submitted in PDF format.

• **VIDEO PRESENTATION**

Video presentation content mainly records the team presenting the Presentation Material created for the submission.

Presentation video format:

- HD quality video with 720p minimum, size 1280 x 720
- Presentation is in English.
- Maximum video duration is 5 minutes.
- Submitted in MP4 format.

• **COMPETITION RULES**

The following are the competition rules:

1. Participants are required to follow the flow of race activities that have been provided by the committee within a predetermined time.
2. Participants are required to collect all files in accordance with the terms and formats provided by the committee.
3. The results of the selection of proposals and the assessment of the presentation of the jury are absolute and cannot be contested.
4. All files that have been submitted become the property of the committee and PII, will be used limited to the competition and publication needs.
5. Inquiries and additional information will be notified through email and the contact person.



VIII. AWARDS

The AWARD will be given to each winner as follow:

	AREAS	RANK	AWARDS
	ASEAN OVERALL	1	Grand Winner Trophy
01-BLD	BUILDING	1	Trophy Cash Prize Ticket & Accommodation to CAFE043 (1 person, economy class)
		2	Trophy Cash Prize
		3	Trophy Cash Prize
02-INF	INFRASTRUCTURE	1	Trophy Cash Prize Ticket & Accommodation to CAFE043 (1 person, economy class)
		2	Trophy Cash Prize
		3	Trophy Cash Prize
03-IND	INDUSTRY	1	Trophy Cash Prize Ticket & Accommodation to CAFE043 (1 person, economy class)
		2	Trophy Cash Prize
		3	Trophy Cash Prize



IX. EVALUATION MECHANISM AND CRITERIA

The submission will be judged by a team of independent jury on two stages:

1. Stage-1: Desk Evaluation

- Each participant will submit a Project Portfolio highlighting the significance of the BIM & digital construction technology implementation in a design/construction/operated project, as well as its claimed benefits.
- The Project submission shall address the key characteristics of the BIM & digital construction technology implementation project, such as those defined under the evaluation criteria.
- The participant shall record a short live presentation in a maximum of 5 minutes, which covers the key characteristics of the project portfolio as well as demonstrates how BIM & digital construction technology support project management in the project, as mentioned in Section VI.
- The documents evaluated from each participant are as mentioned in Section VII.

2. Stage-2: Assessment & Q&A Session

- The portfolio and the presentation will be assessed by the jury within a few days on **1-15 October 2025**.
- Question and Answer by the Juries session will be arranged for each of the categories on **1-15 October 2025**, a 20-minute session of question and answer for each participant.
- The announcement of the winner will be on **22 October 2025**.

The evaluation is composed of two parts. This first part covers the technical aspects of BIM & digital construction implementation, where the second part will focus on its implementation in Project Management.

The technical aspects of BIM technology shall highlight the level of advancement in BIM application at project level, which shall include:

- 1) Type of project, e.g., building, infrastructure, and/or industrial plant.
- 2) Project scope and complexity, which can be demonstrated in the phase of BIM & digital construction implementation: planning, design, procurement, construction, fabrication, operation & maintenance, or others.
- 3) BIM deliverables can be described in BIM dimension, e.g., 3D, 4D, 5D, 5D, 7D, 8D, according to project scope.
- 4) BIM level of detail; LOD 300 to 500 according to project phase.
- 5) Collaboration, interoperability, and integration between project stakeholders.

The Project Management aspect of BIM technology will be judged against the following criteria:

1. Better communication and collaboration
2. Better project tasks, networking, and scheduling
3. Better in cost and budget control.
4. Rapid analysis of different scenarios and an agile approach.
5. Lean organization and better people management.
6. Sustainable development.
7. Green solutions.



THE COMMITTEES & JURIES

STEERING COMMITTEE

The following is the contact person for the competition committee.

- ADVISORY BOARD : AFEO Governing Board
- CHAIRMAN : Ir. Simon Yeong (IEM Malaysia VP & AER Head Commissioner)
- VICE CHAIRMAN : One Representative for Each AFEO Country
- MEMBERS :
 - PII, Indonesia :
 - Ir. Habibie Razak, MM., IPU., ASEAN Eng., APEC Eng., IntPE Eng., (Aus).
 - Ir. Ngadianto SE., ST., IPM, ASEAN Eng.
 - Prof. Ir. Biemo Woerjanto Soemardi, MSE., PhD., IPU.
 - Ir. Andi Taufan Marimba, MM., MBA., ACPE, Apec Eng., IntPE Eng (Aus).
 - Ir. Firman Parmudyanto IPM
 - EIT, Thailand.
 - VUSTA, Vietnam.
 - PUJA, Brunei Darussalam.
 - IES, Singapore.
 - LUSEA, Laos.
 - BEC, Cambodia.
 - PTC, Philippines.
 - IEM, Malaysia.
 - Fed. MES, Myanmar.

- **ORGANIZING COMMITTEE**

- CHAIRMAN : Ir. Inonu Ferryanto ST. MT.
- Vice CHAIRMAN : Dr. Ir. Idi Namara ST., MT., IPU
- Vice CHAIRMAN 2 : Ir. Erwin Dwi Hermawan, ST, MT.
- SECRETARY : Ir. Dwi Listiawati, ST, MT, IPM
- Vice Secretary : Desi Nur Aini S.Ars
- TREASURER : Brian, ST, MM, PMP, IPM, ASEAN Eng.
- Vice TRESURER : Windy Puspita Destiani, ST, MT.
- Coord. JUDGING : Ir. Kharis Alfy
- Vice Coord. JUDGING : Windy Puspita Destiani, ST, MT.
- Coord. WEBINAR : Ir. Andy Rahmadi Herlambang, MT, IPM, ACPE, ASEAN Eng.
- Vice Coord. WEBINAR : Windy Puspita Destiani, ST, MT.
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