PSPN WEBINAR FOR TECHNOLOGY ADOPTION SERIES 09

Session:	# 09
Date	25th November 2020, Wednesday
Topic	TOPIC 1: New Norm through Digitalisation of Processes and Services. TOPIC 2: Embarking on Digitalisation – Issues, challenges & step by step model mapping & quantities extraction process.
Panelist	**Ir. Dr. Tan Yean Chin** Ir. Dr. Tan Yean Chin is Founder and Senior Director of G&P Professionals group of multi disciplines engineering consulting firms. He was President of The Institution of Engineers, Malaysia (IEM)(2016-2018) and served 10 years as Board Member of the Board of Engineers, Malaysia (BEM). He is currently the Secretary General of Federation of Engineering Institutions of Asia and the Pacific (FEIAP), an international engineering organisation. He is an Honorary Fellow of the ASEAN Federation of Engineering Organisations (AFEO), Fellow of IEM, Institution of Civil Engineers (ICE, UK), ASEAN Academy of Engineering & Technology (AAET) and Academy of Engineering and Technology of the Developing World (AETDEW). **Sr Sharifah Noraini Noreen Syed Ibrahim Al-Jamalullail** Sr Sharifah Noraini Noreen Syed Ibrahim Al-Jamalullail is currently the BIM Director for Integrated Project Information Management Sdn Bhd (IPIM) and the Senior Project Manager for Perunding DMA Sdn. Bhd. She is a registered CQS member of the Board of Quantity Surveyors Malaysia (BQSM), Fellow member of the Royal Institute of Surveyors Malaysia (FRISM), Member of Malaysian Asset Project Management Association (MAPMA) and Member of the Institution of Value Management Malaysia (MIVMM). For Construction Industry Development Board (CIDB), she is the Technical Committee member for the Development of the Strategic Planning for 4.0 Digital Revolution (years 2020-2025), Technical member for BIM Module Trainings for Construction Industry Development Board (CIDB) year 2020/2021 as well as Committee member for implementation of LAB Engagement Value management (VM) Rumah mampu milik (RMM) CIDB standard Design year 2020/2021. She is the Focus Group Leader for the Technology Group member, member of the Professional & Engineering Group for Professional Services Productivity Nexus (PSPN) 2020. Saya mengesahkan bahawa kerja-kerja telah dilaksanakan dgn sempurna Nor Hafiza Mohamad Hafil Manager Delivery Management Office (DMO) Malaysia Productivity Corporation (MPC)

PSPN WEBINAR FOR TECHNOLOGY ADOPTION SERIES 09

Synopsis	Topic 1: With the damages caused by COVID19 pandemic, the world has changed, and old norms are no more applicable in our way of life and work. For Engineering Consultancy Service, the adoption of the new norm and digitalisation of processes and services is a must for our business to cope with these major changes and to survive. A cost effective yet practical approaches will be shared and discussed. Topic 2: While it is important for Quantity Surveyors (QS) to embark on digitalisation (5D BIM) to keep up with the adoption of Digital Construction Revolution, there are issues that needs to be addressed before QS could excel in the BIM world. One of the important factors is to ensure that the 3D model used from the Architects & Engineers are not solely for visualisation but also able to provide accurate information for quantities extraction and cost of projects. Some examples of the 3D models which prevents information to be extracted and costed accurately would be illustrated. The Royal Institution of Surveyors Malaysia (RISM) has successfully launched the MySMM2020 on 24th July 2020 at Hotel Istana by RISM QS Division which would supersede the Standard Method of Measurement2 (SMM2) used in Malaysia. Case studies on the examples of Bills of Quantities using MySMM2020.The step by step digitalisation of the model mapping & quantities extraction of 5D BIM process will be shared This talk will give an overview of how 5D BIM digitization will equip Quantity Surveyors to embark on Integrated Digital Delivery in the Digital Industrial Revolution world.
Webinar Team Management	Program Coordinator : Nicole Ong MPC Rep : Azhani / Halisa Speaker : Ir. Dr. Tan Yean Chin Sr Sharifah Noraini Noreen Syed Ibrahim Al-Jamalullail Moderator : En. Mohd Khairul Idzham Poster Design & Blasting : Nicole Ong Report Writing : Nicole Ong
Participation	Various participation from local ranging from private and government sector Registered : 124 Nos Attended : 82 Nos

User Name (Original Name)	Email	Registration Time	Approval St	Join Time	Leave Time	Time in Ses	Country/Re
LAY YEN TAN	alicely5438@gmail.com	Nov 25, 2020 11:48:51	approved	Nov 25, 2020 14:20:18	Nov 25, 2020 14:44:23	25	Malaysia
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Chin Shirley Ai Ling	shirleychin621@gmail.com			Nov 25, 2020 15:54:34	Nov 25, 2020 16:02:04	8	Malaysia
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Chin Shirley Ai Ling	shirleychin621@gmail.com			Nov 25, 2020 15:34:16	Nov 25, 2020 15:35:14	1	Malaysia
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Lam Tatt Soon	lamtatt.soon@taylors.edu.my			Nov 25, 2020 14:02:50	Nov 25, 2020 14:41:35	39	Malaysia
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Bor Iuan Leong	ivanleong0912@gmail.com			Nov 25, 2020 15:31:09	Nov 25, 2020 16:02:06	31	Malaysia
Phui Kay Lai	laiphuikay@hotmail.com	Nov 25, 2020 14:09:44	approved	Nov 25, 2020 14:09:52	Nov 25, 2020 16:02:06	113	Malaysia

Questions

Interaction with Participant

There were 7 questions ask by participants during the session. However due to the time limitation, panelists able to answer 5 questions live in webinar.

Details of Question:

1. Ir Dr Tan,can you give Mr your frank opinion of the future success implementation of Malaysia's high speed broadband infrastructure judging from the many initiatives failure in the past ; also at local authorities levels,do you think capacity upgrading in term of human resources in handling digitisation are always lagging behind hardware implementation as we Malaysia are very complacent to upgrade ourselves.

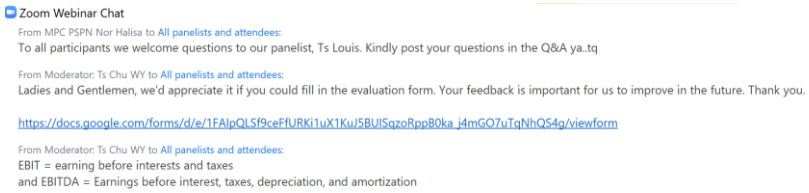
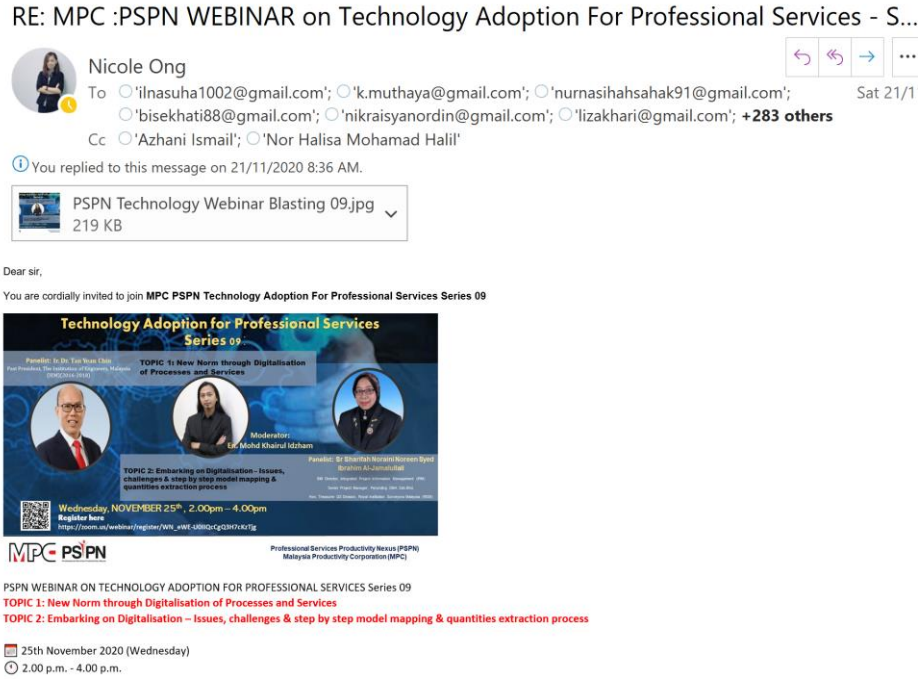
2. What software for quantity surveyor required for apply 5D BIM concept?

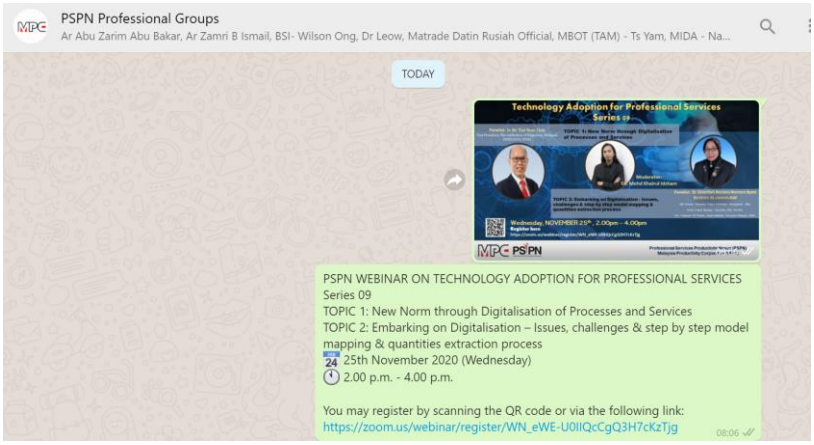
3. Disruptive digital technology is reshaping almost our daily work. We all know security and privacy cannot leave behind. Any comments from panel(s) on how to manage this issue.

4. What is BIM tsunami?

5. One issue sometimes raised by those looking at web or cloud storage is the speed of upload or download especially with large number of drawings – even with fast broadband. Is this currently a major issue? Will it improve in the new future eg with developments with 5G etc?

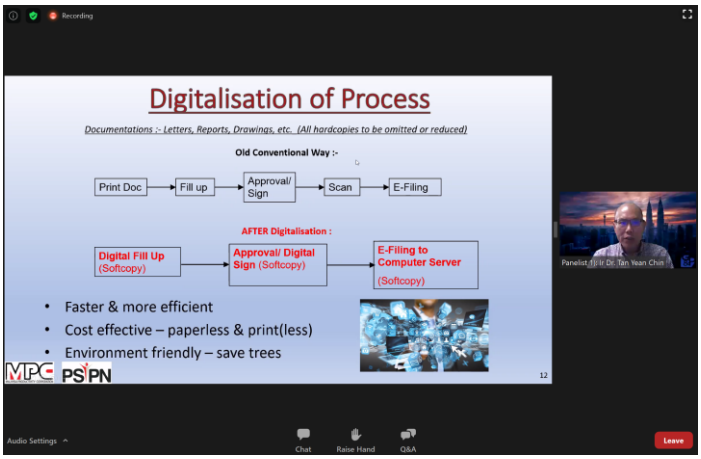
6. The fraternity can consider a trusted, time stamped, traceable, and certification/persimmioned based Documents Exchange cloud (DLT) based on top of the BIM, to be shared for all the

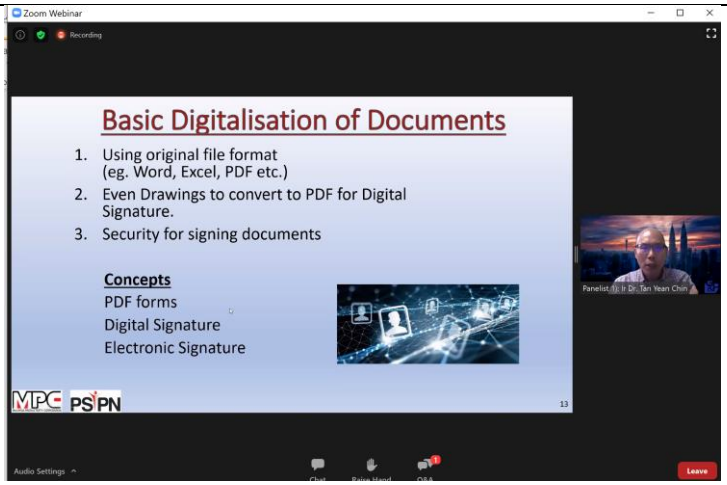
	professionals to shared. Perhaps , there are certain functionality and processes can be handled by cloud based collaborative Work-from-Anywhere, for the generals SMEs & Clients ? 7. Who is the one that draw the models?
Area of Improvement	***Good practices of this webinar:*** 1. Webinar evaluation via google form link, with sharing presenter slide by email after participants complete the evaluation.  ***Area of improvement of this webinar:*** 1. To prepare a backdrop to promote MPC PSPN before the session. 2. Play a background music while waiting to START. 3. Start the webinar session with MPC introduction video.
Blasting	Blasting through email 

	Blasting through whatsapp  Blasting through Facebook
Event on the Board	Webinar start at 2.00 p.m. and ended 4.16 p.m. with 105 min presentation and 30 min Q&A.

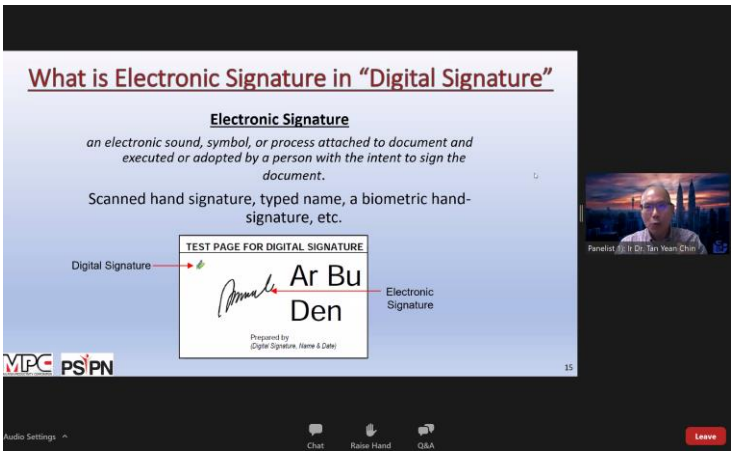
Technology Adoption for Professional Services
Series 09
TOPIC 1: New Norm through Digitalisation of Processes and Services
Moderator:
Ir. Mohd Khairul Idzham
TOPIC 2: Embarking on 5D BIM Digitalisation – Issues, challenges & step by step model mapping & quantities extraction process
Wednesday, NOVEMBER 25th , 2.00pm – 4.00pm
Register here
https://zoom.us/webinar/register/WN_eWE-U0IIQcCeQ3H7cKzTjg
Professional Services Productivity Nexus (PSPN)
Malaysia Productivity Corporation (MPC)

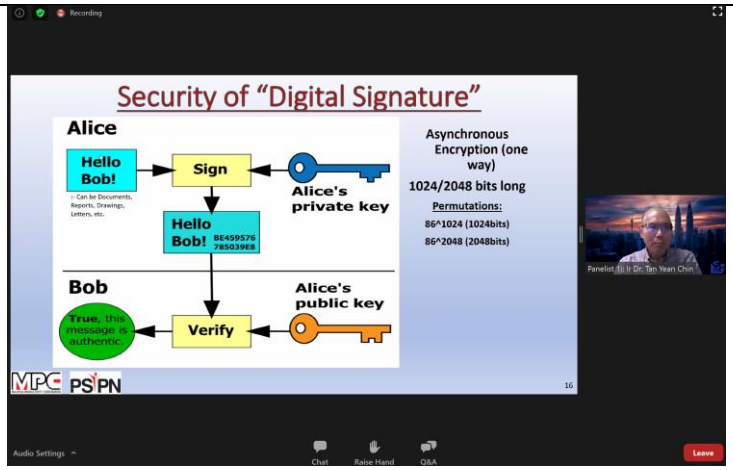
A New Norm through Digitalisation of Processes and Services
Presented by :
Ir. Dr. TAN Yean Chin
Date : 25 Nov 2020

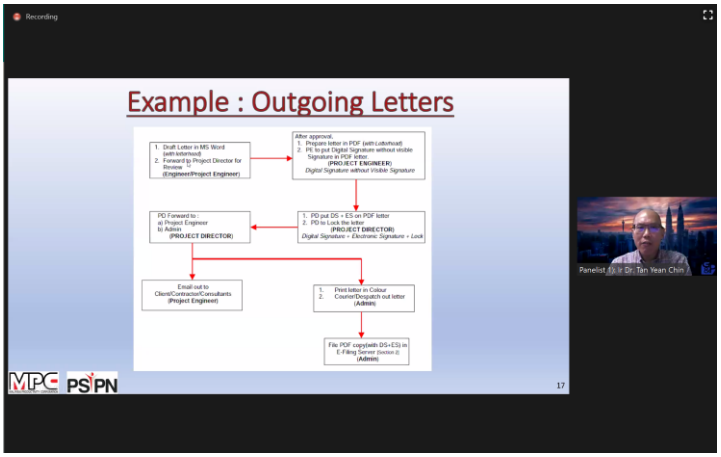

Digitalisation of Process
Documentations :- Letters, Reports, Drawings, etc. (All hardcopies to be omitted or reduced)
Old Conventional Way :-
Print Doc
Fill up
Approval/ Sign
Scan
E-Filing
AFTER Digitalisation :
Digital Fill Up (Softcopy)
Approval/ Digital Sign (Softcopy)
E-Filing to Computer Server (Softcopy)
Faster & more efficient
Cost effective – paperless & print(less)
Environment friendly – save trees

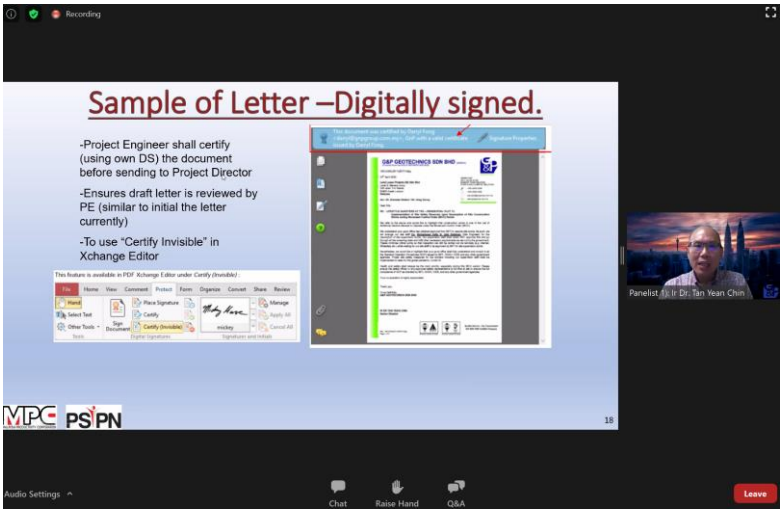

Zoom Webinar
Recording
Basic Digitalisation of Documents
1. Using original file format (eg. Word, Excel, PDF etc.)
2. Even Drawings to convert to PDF for Digital Signature.
3. Security for signing documents
Concepts
PDF forms
Digital Signature
Electronic Signature
Panelist : Ir Dr. Tan Yean Chin
Audio Settings
Leave

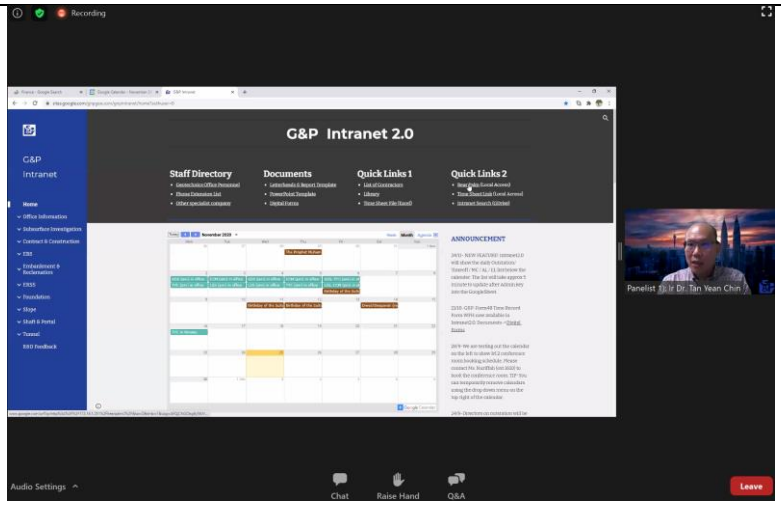
Recording
What is "Digital Signature"
Digital Signature
is a process that guarantees that the contents of a document have not been altered in transit.
Use certificate with encryption to ensure authenticity
TEST PAGE FOR DIGITAL SIGNATURE + PUBL
Panelist : Ir Dr. Tan Yean Chin


What is Electronic Signature in "Digital Signature"
Electronic Signature
an electronic sound, symbol, or process attached to document and executed or adopted by a person with the intent to sign the document.
Scanned hand signature, typed name, a biometric hand-signature, etc.
TEST PAGE FOR DIGITAL SIGNATURE
Digital Signature
Ar Bu
Den
Electronic Signature
Prepared by
(Digital Signature, Name & Date)
Panelist : Ir Dr. Tan Yean Chin
Audio Settings
Chat
Raise Hand
Q&A
Leave


Security of "Digital Signature"
Alice
Hello Bob!
Sign
Alice's private key
Hello Bob! BE459576 785039E8
Asynchronous Encryption (one way)
1024/2048 bits long
Permutations:
86^1024 (1024bits)
86^2048 (2048bits)
Bob
Alice's public key
True, this message is authentic.
Verify
16

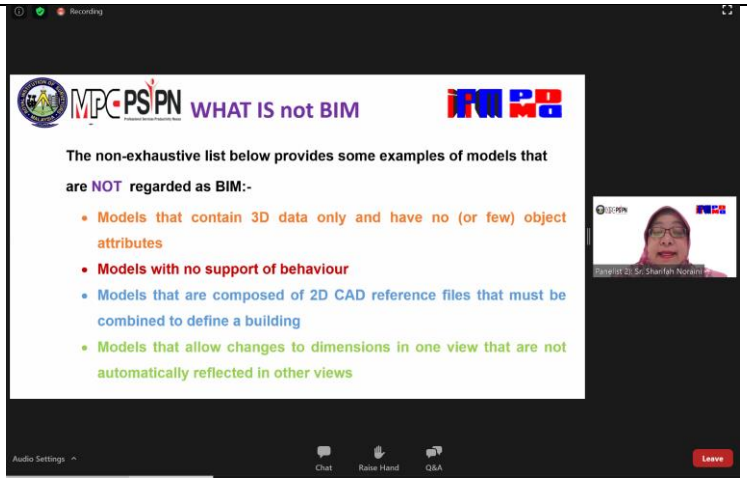

Example : Outgoing Letters
17

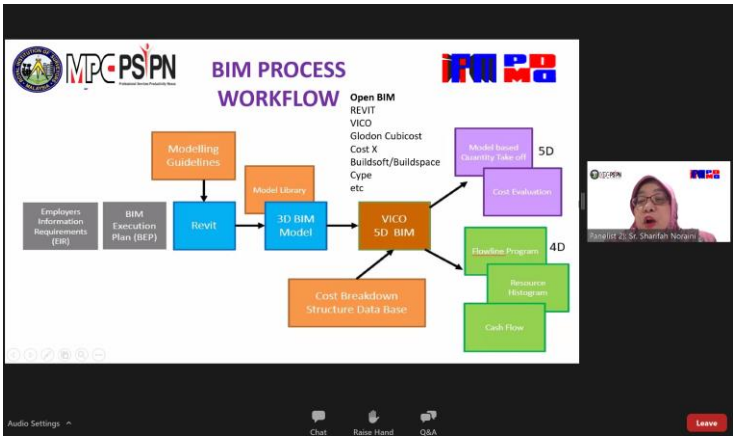

Sample of Letter –Digitally signed.
-Project Engineer shall certify (using own DS) the document before sending to Project Director
-Ensures draft letter is reviewed by PE (similar to initial the letter currently)
-To use "Certify Invisible" in Xchange Editor
18

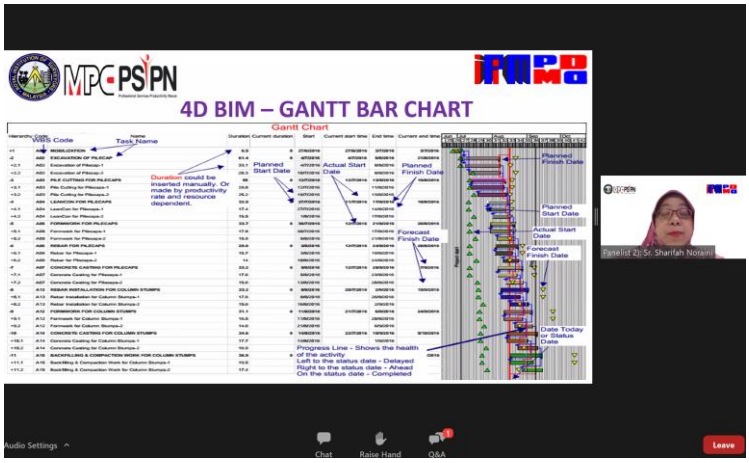

Recording
G&P Intranet 2.0
Staff Directory
Documents
Quick Links 1
Quick Links 2
ANNOUNCEMENT
Panelist 1: Ir Dr. Tan Yean Chin
Audio Settings
Chat
Raise Hand
Q&A
Leave

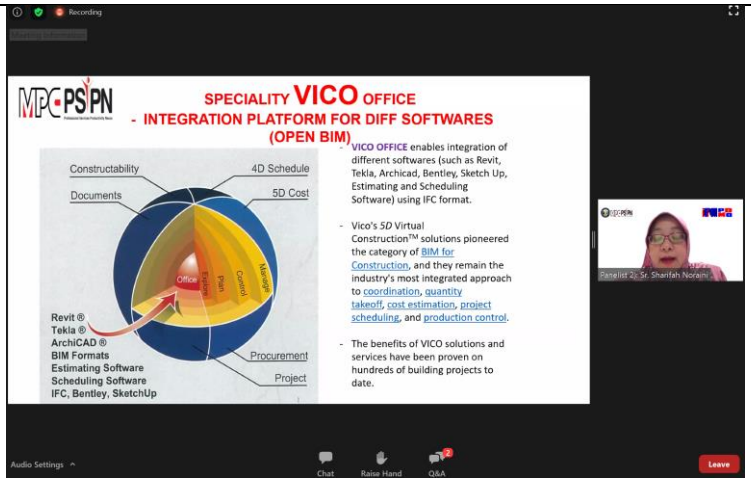
Recording
5D Digitalisation
(BIM) for Professionals
- The issues, challenges & model mapping
Sr SHARIFAH NORAINI NOREEN SYED IBRAHIM AL – JAMALULLAIL CQS FRISM IVMM MAPMA,
BIM DIRECTOR IPIM, SENIOR PROJECT MANAGER PDMA,
TREASURER RISM QS DIV, CHAIR MYSMM 2020 SESSION 20/21,
CHAIR RISM BIM TECHNICAL COMMITTEE
Panelist 2: Sr. Sharifah Noraini
Audio Settings
Chat
Raise Hand
Q&A
Leave

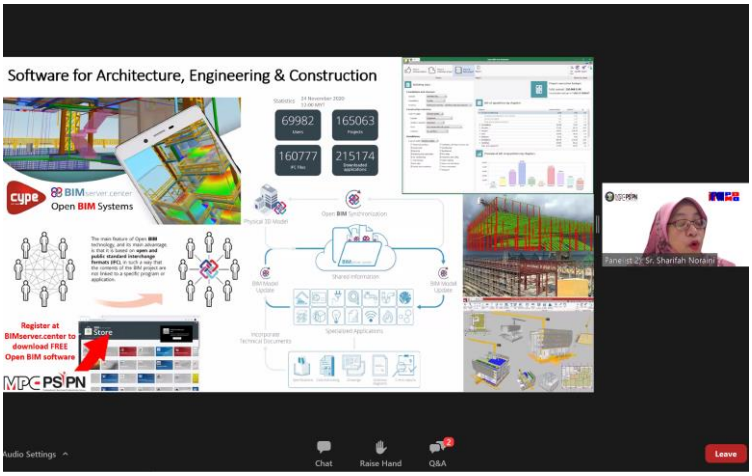
Recording
ALL PROFESSIONALS
BIM in Building Project Lifecycle
Property Manager
Facility Management
Fabricator
Manufacturing
Time
Productivity
Contractor (Builder)
Safety
Owner
Communication & collaboration
Architect
Design planning
Structural Engineer
Buildability
MEP/BS Engineer
Quality
Quantity Surveyor
Cost
Productivity
Sustainability
Project Management
Panelist 2: Sr. Sharifah Noraini
Audio Settings
Chat
Raise Hand
Q&A
Leave

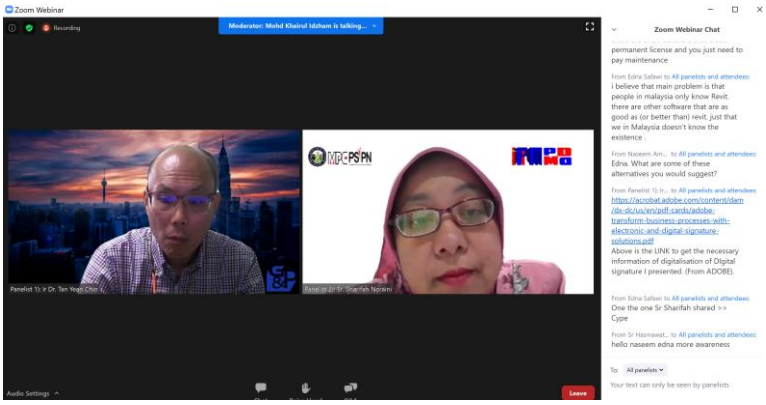

WHAT IS not BIM
The non-exhaustive list below provides some examples of models that are NOT regarded as BIM:-
Models that contain 3D data only and have no (or few) object attributes
Models with no support of behaviour
Models that are composed of 2D CAD reference files that must be combined to define a building
Models that allow changes to dimensions in one view that are not automatically reflected in other views
Panelist 2: Sr. Sharifah Norain
Audio Settings
Chat
Raise Hand
Q&A
Leave


BIM PROCESS WORKFLOW
Open BIM
REVIT
VICO
Glodon Cubicost
Cost X
Buildsoft/Buildspace
Cype
etc
Modelling Guidelines
Model Library
Employers Information Requirements (EIR)
BIM Execution Plan (BEP)
Revit
3D BIM Model
VICO 5D BIM
Model based Quantity Take off
5D
Cost Evaluation
Flowline Program
4D
Resource Histogram
Cash Flow
Cost Breakdown Structure Data Base
Panelist 2: Sr. Sharifah Norain
Audio Settings
Chat
Raise Hand
Q&A
Leave


4D BIM – GANTT BAR CHART
Gantt Chart
WBS Code
Task Name
Duration could be inserted manually. Or made by productivity rate and resource dependent.
Planned Start Date
Actual Start Date
Planned Finish Date
Forecast Finish Date
Progress Line - Shows the health of the activity
Left to the status date - Delayed
Right to the status date - Ahead
On the status date - Completed
Date Today or Status Date
Panelist 2: Sr. Sharifah Norain
Audio Settings
Chat
Raise Hand
Q&A
Leave



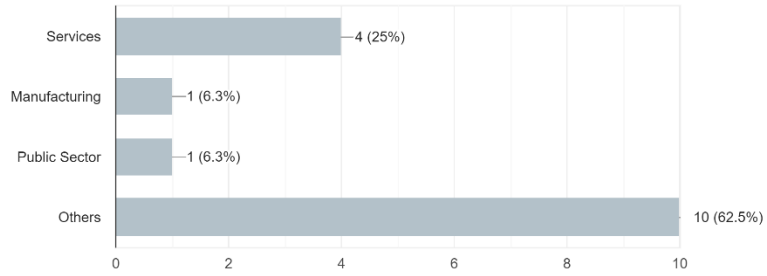




Evaluation Report	Background

Sector

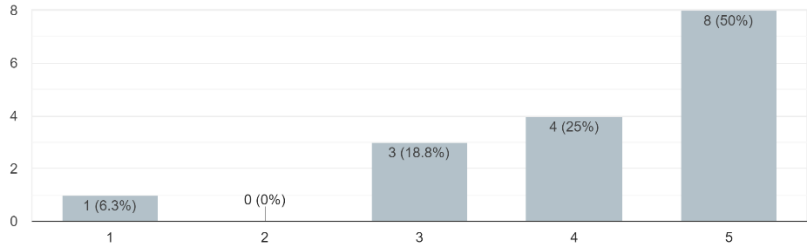
16 responses



MPC Services

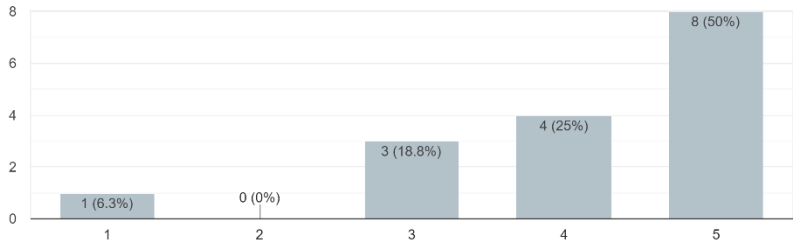
1. Registration process.

16 responses



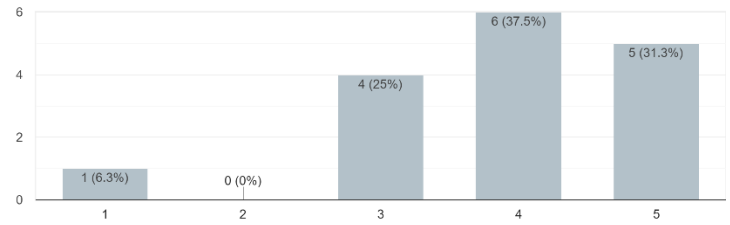
1. Registration process.

16 responses



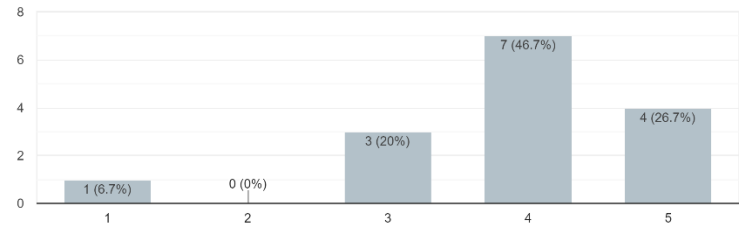
3. Duration of webinar

16 responses



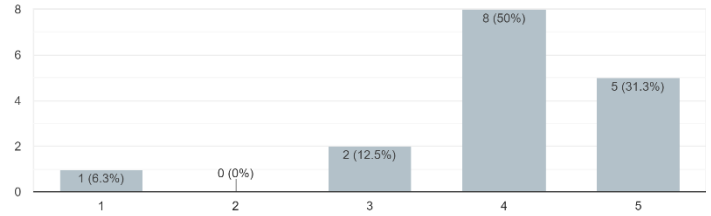
4. Virtual platform

15 responses



5. Overall, how satisfied are you with the program?

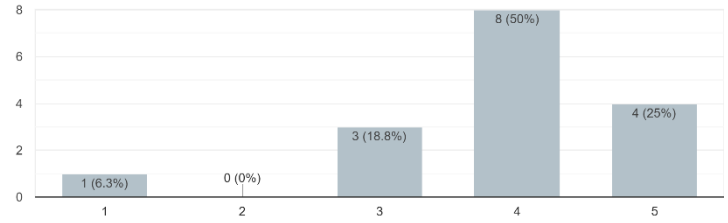
16 responses



PROGRAM CONTENT

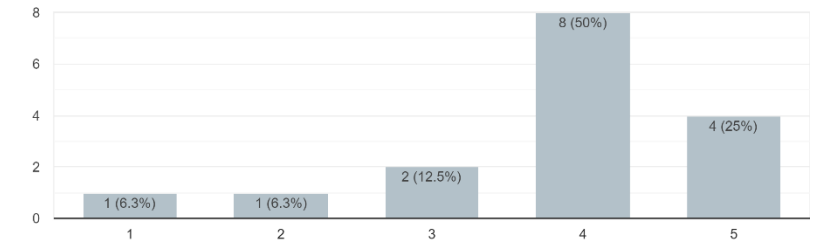
1. To what extent the objective(s) of attending the program has/ have been met?

16 responses



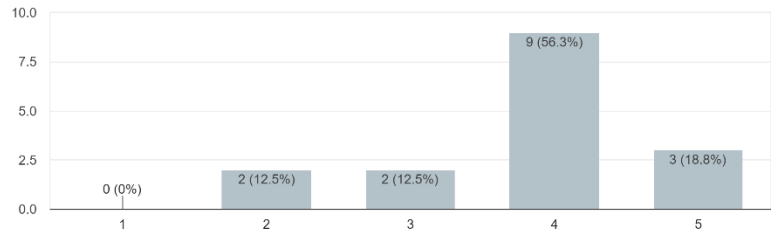
2. Has the program enriched your knowledge in the subject matter?

16 responses



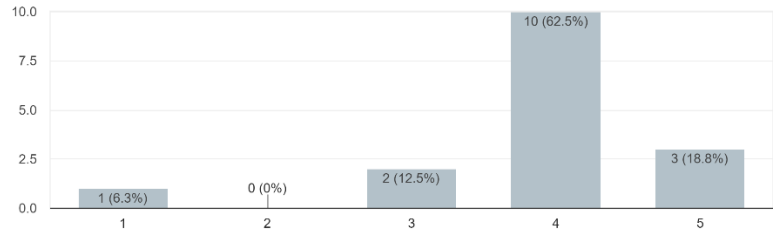
3. Is the program contents useful and relevant to your business/work?

16 responses



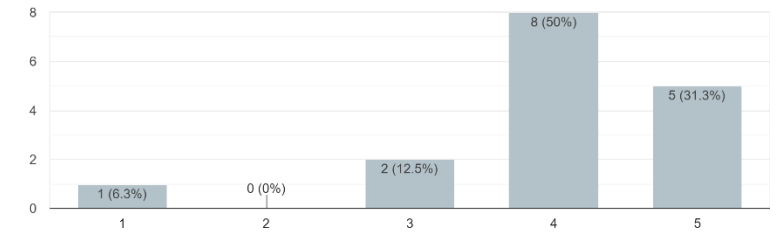
4. Will it help you to be more effective in your work?

16 responses



5. This program is suitable to be recommended to others.

16 responses



PSPN WEBINAR FOR TECHNOLOGY ADOPTION SERIES 09

Event Link	1. Registration Link **https://zoom.us/webinar/register/WN_eWE-U0IIQcCgQ3H7cKzTjg** 2. Evaluation Form Link https://docs.google.com/forms/d/e/1FAIpQLSd0Zy1jPxhK0gC-lxajXRjPTdD2_DUxA9O4yXwJlP4qEEVLKw/viewform

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