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Digital Divide in
Facility
Management and
Closing the Gap

Find your Next
Steps as a BIM
Professional

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Digital Divide in Facility Management and Closing the Gap

Amila Gamage , Sihela
Consultants

Digital transformation in facility management is rapid. IoT, Big Data, data mining, analytics, digital twins, and there are many other topics in conversation including, building automation systems (BAS) and Building Information Modeling (BIM).

It is true that like every other sector related to the construction industry, the operation and maintenance phase of the infrastructure too in a digital transformation by adopting new technology. New processes, new trends and technological advancements make this digital transformation rapid with numerous benefits.



Is there any Digital Divide in Facilities Management?

While we experience the digital transformation trends in facilities management, not every facility adopts the new technologies for various reasons. Every month when I conduct facility management training courses, I ask participants about the facility they manage and the way they work.

Although I haven't conducted any scientific research on this topic, these class participants who are from the industry revealed their experiences that made me think about the digital divide in the FM industry. Is there any digital divide? While there are smart buildings available, we cannot forget the existing facilities that are still in the digital transformation.



Digital divide and Nielsen's three stages

Although there are technological advancements, not everyone has equal access to the latest technology due to different reasons. This gap creates a digital divide. Without limiting the digital divide as a separation between different regions and people to their access to new technology, In November 2006, Jakob Nielsen mentioned that there are three stages of the digital divide exist. According to Nielsen, the economic divide, usability divide, and empowerment divide are the three stages of the digital divide. Considering facilities management, it is obvious that as Nielsen observed stage two and stage three of the digital divide still exists in this sector.

According to Nielson, although people have access to the latest technology, they don't have relevant literacy because for, most people, technology remains complicated. They do not utilize the full benefit of technology due to the lack of literacy and difficulties in understanding. Therefore stage two or usability divide exists.

Although some people close stage two with necessary technological knowledge, the empowerment divide or stage three of the digital divide still exists. People do not fully utilize technology and its benefits. This keeps them away from gaining the full advantage of technology, although they have opportunity and literacy.

The digital divide in facility management

Although new smart buildings utilize the many benefits of technology advancements, still some buildings don't utilize the full benefits of new technology. The reasons can be the lack of knowledge, the fear to adopt new technology and the lack of technical support.

How to address the digital divide in Facilities Management?

Considering facility management as a whole industry sector, it is important to educate building owners on the benefits of new technology in enhancing the overall management of their facilities. The way technology can bring value including, cost benefits will open their eyes to implement new digital solutions for facility operations. Among all, the fear for new technology can be minimized by improving knowledge and technical literacy.



Other than the facility organizations, there is a role for the facility professionals to keep updated with the latest trends and technology advancements. By upgrading themselves with industry changes and new knowledge, they can help close the gap that exists due to the digital divide.

Not every firm or facility can suddenly adapt to the latest digital transformation trend that creates a digital divide in the industry. However, FM professionals and the technology firms that support the digital transformation can help to close the gap through spreading awareness, benefits and digital literacy in suitable ways.

Smart buildings, Internet of Things and new technologies will keep evolving. Not only evolving but the impact and influence will also be higher on the industry. Therefore, FM professionals and facility organizations should prepare for a digital future as the transformation is inevitable. On the other hand, those who adapt will stay competitive while delivering value to the FM industry.

About the Author:

Amila Gamage is the founder and contracts manager of Sihela Consultants where she offers quantity surveying services, consultancy, and training solutions for her clients in Singapore and overseas. As an ACLP certified trainer and a lecturer for various educational institutes and organizations, she helps learners to gain industry knowledge on relevant topics including Facilities Management and Contract Management.



Accrediting Green Building Professionals

The SGBC Green Mark Professional Qualification Scheme succeeds the BCA Green Mark Specialist programme and aims to uplift, upskill and recognise green building competencies of professionals active in the built environment sector.

Certification Types

Green Mark AP

The Green Mark AP certification qualifies industry professionals with the knowledge and expertise needed for the implementation of Green Mark projects.

- Green Mark Accredited Professional (*Green Mark AP*)
- Green Mark Advanced Accredited Professional (*Green Mark AAP*)

Green Mark AP (FM)

The Green Mark AP (FM) certification qualifies industry professionals with the knowledge and expertise needed to maintain and operate green buildings.

- Green Mark Accredited Professional (Facilities Management) [*Green Mark AP(FM)*]
- Green Mark Advanced Accredited Professional (Facilities Management) [*Green Mark AAP(FM)*]

Continuing Professional Development

A key feature of the SGBC Green Mark Professional Qualification Scheme is the establishment of a Continuing Professional Development (CPD) framework for all Green Mark APs. Through a host of meaningful programmes and activities, Green Mark APs are able to remain abreast of industry trends and stay ahead of sectoral developments.

Green Mark AP certifications are renewed annually upon fulfillment of the renewal requirements.

Renewal requirements
for **Green Mark AP and
Green Mark AP (FM)**



12 SGBC-GMAP
CPD Points

Renewal requirements
for **Green Mark AAP and
Green Mark AAP (FM)**



18 SGBC-GMAP
CPD Points



About the
scheme



Upcoming
CPD activities



Renewal
Requirements



Frequently Asked
Questions

Singapore Green Building Council
Block H Level 2, BCA Braddell Campus
200 Braddell Road, Singapore 579700

Tel: (65) 6732-5518
Email: gmap@sgbc.sg

39th ANNUAL GENERAL MEETING

The 39th ANNUAL GENERAL MEETING of the Institute held on Wednesday, 30th September 2020, on the virtual platform, ZOHO. The meeting was called to order at 8.00 pm sharp by President; Dr. Victor Ong.

With the due process of nomination paper and votes (unless uncontested), the following member was duly elected to serves on the Board of Committee for 2020/2022 :

BOARD OF DIRECTORS

2020-2022



President
Dr. Sussie Ketit
sussie@sibl.com.sg



1st Vice President
Shane D Ward
1vp@sibl.com.sg



2nd Vice President
Farizan
d'Avezac de Moran
2vp@sibl.com.sg



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hon.secretary@sibl.com.sg



Asst. Hon. Secretary
Dr. Parvathy
Subhadra
paru@greeninfuture.com



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khaichee.moong@gmail.com



Asst. Hon. Treasurer
Ng Pin Yuan
pinyuan_99@yahoo.com



Director
Dr. Keow Yeong Ming
keowym@gmail.com

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Ar. Tan Szue Hann
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Vanessa Tang
vanessa@aceplp.com.sg



Director
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vinshri2005@gmail.com



Associate Director
Siddhi Suresh Nevkar
siddhinevkar2891@gmail.com



Associate Director
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dubai.sumon@gmail.com

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2020-2022

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Hon. FSIB
Dr. Teo Ho Pin



Immediate Past
President
Dr. Victor Ong
Chee Wee

Independent Director



Lead Auditor
Thomas Loh Yong Hwee
thomas0688@gmail.com



In-House Auditor
Ivan Teo Leon Shen
ivanv_78@yahoo.com

Secretariat



SIBL Admin/
PA to President
Rohaidah
rohaidah@sibl.com.sg



SIBL - CIJC Admin
Marianne Ang
marianne@sibl.com.sg

Date : 25 Sept 2021

Time : 1.30pm

Venue: Hybrid Event



NOTICE

ANNUAL
GENERAL
MEETING

40th



Zoom invite will be sent to registered individuals via Glue Up 2 weeks prior to event. Register to obtain invite to join.

For assistance with registration, contact admin@sibl.com.sg

SIBL SUB COMMITTEE 2020 - 2022

1. Accreditation & Professional Development (APDC)

Chairman : Dr.Keow Yeong Ming

Members : Mr.Moong Khai Chee, Dr.Parvathy, Ms.Vanessa Tang,
Mr.Vineet Shrivastava ,Mr.Sonny Andalis, Mr. Darren Tang,
Ms.Valerie Tang

2. Commercialisation Strategy Committee (CSC)

Chairman : Mr.Moong Khai Chee

Members : Mr.Shane D Ward,
Mr.Ng Pin Yuan, Ms.Danna Er

3. Enterprise Membership Services Committee (EMSC)

Chairman : Mr.Ivan Teo

Members : Mr.Vineet Shrivastava, Mr.Shane D Ward,
Mr.Hossain, Mr. David Shanmugam

4. Media, Marketing & Industrial Relationship Committee (MM & IRC)

Chairman : Ms.Shirley Chan

Members : Mr.Shane D Ward ,Mr.Vineet Shrivastava,
Ms.Vanessa Tang, Ms.Amila

5. Membership Services Committee (MSC)

Chairman : Mr.Shane D Ward

Members : Mr.David Shanmugam, Mr.Ho Wee Leong
Mr.Ivan Teo

We welcome all members' involvement in our various internal and external Sub-committees. Contact SIBL Secretariat to indicate your interest at admin@sibl.com.sg.

SIBL SUB COMMITTEE 2020 - 2022

6. Memorandum & Association Committee (M & AC)
Chairman : Dr.Sussie Ketit
Members : Mr.Vineet Shrivastava, Mr.Ho Wee Leong
7. Environment and Sustainability Committee (E&S)
Chairman : Ms.Farizan
Members : Ar.Tan Szue Hann, Dr.Parvathy,
Ms.Vanessa Tang
8. Corporate Social & Event Committee (CS & EC)
Chairman : Dr.Sussie Ketit
Members : Mr.Vineet Shrivastava, Mr.Thomas Loh
9. Young Member Committee (YMC)
Chairman : Ms.Siddhi
Members : Mr.Ng Pin Yuan

SIBL EXTERNAL COMMITTEES REPRESENTATIVES 2020 - 2022

Construction Industry Joint Committee (CIJC)

BCA - CIJC Committee

- 1.Dr.Sussie Ketit
2. Mr.Shane D Ward
3. Ms.Farizan
- 4.Mr.Ho Wee Leong
- 5.Mr.Moong Khai Chee

Constructing Our World Conference and 40th Anniversary Celebration

1. Dr. Sussie Ketit
2. Mr Shane Ward
3. Ms. Farizan d'Avezac Moran
4. Mr. Ho Wee Leong
5. Mr. Moong Khai Chee
6. Dr. Parvathy
7. Dr. Keow Yeong Ming
8. Ms. Vanessa Tang
9. Ms. Siddhi Suresh Nevkar
10. Ms. Rohaidah

SIBL EXTERNAL COMMITTEES REPRESENTATIVES 2020 - 2022

Singapore Green Building Council SGBC-SIBL (2 Reps)

1. Mr.Vineet Shrivastava
2. Ms.Siddhi

SPRING Technical Committee (2 reps)

1. Dr.Victor Ong
2. Mr.Moong Khai Chee

BCA BuildSG Tripartite Committee (2 reps)

1. Mr.Vineet Shrivastava
2. Ms.Vanessa Tang

Smart FM Conference -yearly with BuildTech Asia (3 reps)

1. Mr. Vineet Shrivastava
2. Ms. Danna Er
3. Mr.David Shanmugam
4. Ms. Amila

BCA Manpower and Industry Development TaskForce (FM)

1. Dr. Sussie Ketit
2. Ms. Farizan d'Avezac de Moran
3. Mr. Darren Tang

Membership Admissions - New Members/Associate Members

S/N	Name	M/No.	Membership Class	Company	Title/Position
1	Moorthy Perumal	326570	Member	Oxley Holding Ltd	Construction Manager
2	Chun Sin (Deckson) Ang	372577	Member	Mott Macdonald Singapore Pte Ltd	Senior Engineer
3	Kim Hwee Alan Goh	372793	Member	CPG Facilities Management Pte Ltd	Deputy Chief Executive Officer
4	Philip Kwang	374336	Member	Facade Global Master Pte Ltd	Managing/Director
5	Shaju	376437	Associate Member	Hong Dat Engineering Pte Ltd	Assistant General Manager
6	Marianne Ang	376482	Member	Marine Parade Town Council	Quality Service Manager
7	Thamaraiselvan Natarajan	378234	Associate Member	Hong Dat Engineering Pte Ltd	Project Manager
8	Keith Vincent	391080	Member	Land Transport Authority	Principal Assistant Project Engineer
9	Hualan Wong	391994	Member	Ginlee Construction Pte Ltd	Contracts Manager
10	Karthick Muthu	398040	Associate Member	Hong Dat Engineering Pte Ltd	BIM Modeller
11	Sarker Nandan Chandra	398199	Associate Member	Joydom Engineering Pte Ltd	Operation Manager
12	Samsudeen Sheik Abdul Nazeer	425533	Associate Member	Hong Dat Engineering Pte Ltd	Electrical Engineer
13	Nora Tan	429420	Associate Member		
14	Chin Hin Chong	434109	Member	Santarli Construction Pte Ltd	Head, Corporate HSE/PE

Membership Admissions - New Members/Associate Members

S/N	Name	M/No.	Membership Class	Company	Title/Position
15	Guo Wei, Desmond	434485	Member	Dr. D Plumping and Sanitary	Owner
16	Seak Hong Cheng	445775	Member	AD Incorporation Pte Ltd	Director
17	Nelson Ng	445780	Member	AD Incorporation Pte Ltd	Project Manager
18	Kelly Zhang	445782	Member	AD Incorporation Pte Ltd	Quantity Surveyor
19	Kwan Wan Fung Ken	451551	Member	Hong Kong Productivity Council	Manager
20	Tin Pui Alex Leung	468762	Member	China Harbour (Singapore) Engineering Pte. Ltd.	Senior Business Development Manager

Membership Admissions - Affiliate Members/Enterprise Members

S/N	Name	M/No.	Membership Class	Company	Title/Position
1	Vijay Shinde	370822	Affiliate Member	Jacobs International Consultants Pte. Ltd.	Sr. Project Manager
2	Andre Chia	380825	Affiliate Member	JA Signature (Pte. Ltd.)	Director
3	Jiayun Summer Foo	385598	Affiliate Member	AIA Singapore	Financial Service Consultant
4	Jun Hao Seah	395619	Affiliate Member	Simple-Group Private Limited	Director
5	Jayden Lek	398000	Affiliate Member	JA Signature (Pte. Ltd.)	Co-Founder
6	Chris Yio	378228	Enterprise Member	Procore Technologies	Regional Sales Director ASEAN
7	Teo Ho Pin	447400	Enterprise Member	Building & Estate Management Alumni	President
8	Cindy Chong	455073	Enterprise Member	iClick Media Pte Ltd	General Manager
9	Chua Eng Eng	465586	Enterprise Member	King Wan Corporation Limited	Managing Director
10	Jonathan Tan	466206	Enterprise Member	Silver Eagle Construction Pte Ltd	Chairman

Find your next steps as a BIM Professional

By Vanessa Tang, AcePLP

In collaboration with the Singapore Institute of Building (SIBL), the British Standards Institute is running a complimentary webinar on Building Information Modelling (BIM) Certification and Professional Qualifications with ISO 19650.

The certification is attained through a series of short training conducted

by the British Standards Institute, and Professional Qualifications will be provided upon recognition of prior experience that allows for the effective application of ISO19650 standards. Details of the webinar and the link to sign up are provided at the end of this article.

The ISO19650 is a series of international standards that define the collaborative processes for effective management of information. It is used for the delivery and operational phase of assets, particularly when building information modelling (BIM) processes are applied.

LIVE Webinar

Your next step as a BIM Professional:
**BIM Certification and Professional
Qualifications with ISO 19650**

3 September 2021 | 4.00pm to 5.30pm SGT





BIM is a process for creating and managing design and engineering information for building and infrastructure projects across the project lifecycle. One of the key outputs is the digital modelling and description of every aspect of the building or infrastructure asset, drawing on information assembled collaboratively and updated regularly. A digital BIM model enables every team involved to optimize their inputs and create greater whole life cycle value for the project.

Originally based on the UK PAS 1192 series, the ISO19650 standard empowers BIM teams to minimize wasteful activities and increase predictability around cost and time.

This is achieved through a common approach to the management of information created in the BIM process.

At this webinar, you will gain insights from industry practitioners on the practical application and benefits of BIM with ISO19650. It will give you a strong foundation in all stages of a BIM project using ISO19650 and the best practice for BIM Management. Through this session, you will learn how to define BIM, list potential solutions for BIM challenges, and understand why it is critical to implement BIM. You will also learn how to implement ISO19650 as part of your organization's best practice for BIM.

Key speakers include Andy Butterfield, Managing Director of the Global Built Environment at BSI. Dr Sussie Ketit, President of the Singapore Institute of Building, will also address participants.



Andy Butterfield

Managing Director, Global Built Environment



Dr Sussie Ketit

President



Tan Kok Hwee

Built Environment Development Director



Howe Yong Loo

Training Business Manager



Sonny Andalis

Senior Executive BIM Manager



Vanessa Tang
(Moderator)

Director



Bringing light on the industrial application of ISO19650 is Sonny Andalis, Senior Executive BIM Manager at Surbana Jurong, one of the largest infrastructure and urban design consultancies based in Asia. Surbana Jurong is the first company in Singapore, and first consultant in Asia, to be awarded the ISO 19650 certification for the digitization of design and engineering data for buildings and civil engineering works.

The British Standards Institute has shaped best practices for over 100 years, helping organizations around the world use standards to embed excellence, build competence and capability for sustainable growth. With 80,000 clients, BSI is one of the world's largest certification bodies. BSI also runs training courses that cover the implementation and auditing requirements of national and international management systems standards.

Key Event Details:

Live Webinar: Your next step as a BIM Professional

Date: 3 September 2021

Time: 4pm to 5.30pm Singapore time

Reserve your seat by [clicking here](#).

About the Author:

Vanessa Tang is an SIBL Director and a leading BIM Advisor for guiding firms in the Built Environment to digitise and enhance their Integrated Digital Delivery workflows. She is a Corporate Development Director at AcePLP, which offers Building Information Modelling, Virtual Design and Construction, reprography and digitisation services. Her clients include government agencies, consultants and contractors working on Singapore's Built Environment projects. She works with Autodesk, Bentley and Trimble to deliver technological and information management solutions for her clients. She also helps to set up BIM teams and groom future talent for the Built Environment.

HAVE SOMETHING TO TELL
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