

Our Reference: APPBCA-2025-04 Audit and Inspection Group

3 March 2025

See Distribution List

# GUIDEBOOK FOR VIRTUAL TOP/CSC (360 CAPTURE) AND GUIDEBOOK FOR SITE MANAGEMENT PLATFORMS (PART A – FOR SOLUTION PROVIDERS)

## **Background**

1. As part of Building and Construction Authority's (BCA) efforts to streamline industry's processes and raise productivity, BCA has been encouraging the use of smart inspection technology such as 360 Capture and Site Management Platforms. BCA has developed guidebooks to provide guidance on detailing the use of such smart inspection technologies in accordance with BCA's regulatory processes.

# **Objective**

- 2. This circular informs the industry on the publication of the 'Guidebook for Virtual TOP/CSC (360 Capture)'. This guidebook is developed by BCA to provide guidance on the usage of 360 Capture as an alternate means for TOP/CSC inspection purposes.
- 3. This circular also informs the industry on the publication of the 'Guidebook for Site Management Platforms (Part A For Solution Providers)'. This guidebook is developed by BCA to provide guidance to solution providers to develop Site Management Platforms (SMPs) for regulatory use cases; which includes basic functional requirements and recommended workflows for digital management of essential sites and test records.

# **Guidebook for Virtual TOP/CSC (360 Capture)**

- 4. 360 Capture uses 360-degree photos and videos to create a virtual representation of project sites, enabling project teams to record and keep track of construction progress as well as for project parties to conduct virtual inspections without the need to physically go to the project site. This enhances productivity and improves inspection processes, making inspections more efficient and effective.
- 5. This guidebook provides the necessary information on the requirements for BCA's virtual TOP inspections. It also covers the step-by-step process for capturing 360-degree imagery, as well as best practices for conducting virtual inspections and creating high-quality virtual representations of project sites.
- 6. The guidebook is available in softcopy at <a href="https://www1.bca.gov.sg/regulatory-info/smart-inspection/virtual-inspection">https://www1.bca.gov.sg/regulatory-info/smart-inspection/virtual-inspection</a>





# **Guidebook for Site Management Platforms (Part A – For Solution Providers)**

- 7. SMPs serve as the centralised digital platform in the project site to collect and consolidate construction site information and data digitally. It will enable efficient communication and information sharing among project parties, facilitating seamless data flow throughout the construction project. This leads to improved work productivity, enhanced data accuracy and more effective document management.
- 8. This guidebook focuses on the data collection related to structural safety data. It lays out the necessary requirements and data standards for solution providers while offering guidelines on how the industry could digitalise their sites. By adopting these guidelines, the industry will be able to initiate their internal process transformation and harness the potential of the data for better site management.
- 9. The guidebook is available in softcopy at <a href="https://www1.bca.gov.sg/regulatory-info/smart-inspection/site-management-platform">https://www1.bca.gov.sg/regulatory-info/smart-inspection/site-management-platform</a>

## For Clarification

10. We would appreciate if you could convey the contents of this circular to members of your organisation. For clarifications, please contact us through BCA's Online Feedback Form at https://www.bca.gov.sg/feedbackform/

Yours sincerely,

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FOR AND ON BEHALF OF THE COMMISSIONER OF BUILDING CONTROL





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