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Dear Sir/Madam

**DEVELOPMENT OF BIM ADD-ON TOOL TO AUTOMATE CONCRETE USAGE INDEX (CUI) CALCULATION**

We wish to inform you on BCA's new initiative to develop add-on tools on BIM platform, to automate Concrete Usage Index (CUI) computation with minimum user inputs.

2. CUI was introduced in 2008, as part of BCA's effort to drive sustainable construction through design with 'Green' intent. CUI computation is mostly manual and very time-consuming. Depending on the complexity and size of the project, each CUI computation could take up to a week or more.

3. Current features in BIM tools support semi-automatic CUI computation by extracting volume of concrete used and Constructed Floor Area (CFA) from the BIM models. The extracted data will then be used to compute CUI manually. This is not reaping the full potential of BIM. To better facilitate CUI computation, BCA will work with potential software developers to develop add-on tools on BIM platforms to replace manual CUI calculation, and compute CUI through BIM models automatically, with minimum user inputs.

4. We cordially invite all potential software developers to come on-board development projects to develop the add-on tools.

5. Please contact Ms June Bek (Tel: 67304441; E-mail: [june\\_bek@bca.gov.sg](mailto:june_bek@bca.gov.sg)) or Mr Low Giau Leong (62489898; E-mail: [low\\_giau\\_leong@bca.gov.sg](mailto:low_giau_leong@bca.gov.sg)), if you have any queries.

Yours faithfully,



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