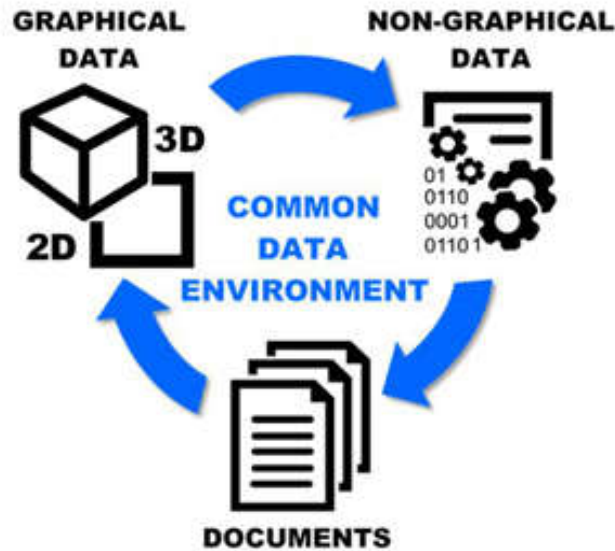


Assignment 02: Common Data Environment



The concept of the common data environment (CDE) is to provide a central repository of information, be that graphical or data based. This information can then be shared in a structured way, with layers of checking and approval to ensure that the information is correct and suitable. There is no single method of delivering a CDE. It can be based on the use of folders, use of an electronic document management system or a bespoke cloud-based solution. It will depend on the nature and scale of the project which solution is chosen.

Objectives

- To examine the key concepts and components of common data environment.
- To study its characteristics and important issues affecting the implementation.
- To apply it effectively in practical applications for building projects.

Scenario

A construction company in Hong Kong is planning to integrate BIM into a building construction project. In order to manage and coordinate the project information effectively, they would like to set up a common data environment (CDE) using BIM technology. It is hoped that the CDE can facilitate collaboration between project team members and helps avoid duplication and mistakes.

You are the Technical Manager of this company who is responsible for establishing the CDE and providing guidance on the implementation of BIM and CDE to other project team members. You are required to prepare a proposal to clearly explain the key concepts and critical components of the CDE. In the proposal, you should indicate the following information.

- (a) Major characteristics of the CDE
- (b) Relevant standard(s) or protocol(s) for establishing the CDE.
- (c) The strategy and important issues to consider when implementing the CDE.

Submission

Each student should prepare the proposal in the form of a written technical report which will be read by the senior management of the company. The report should be not more than twenty (20) A4 pages including appendices. It should be neat and properly written and organized to communicate your thinking. Proper credit and referencing should be provided to the information sources. Students making direct copy of the information in other publications or sources (plagiarism), if found, will be disqualified.

The report electronic file should be submitted through the Moodle system. The assessment criteria include quality of the content, organization, clarity of thought, and report/proposal writing skills.

Submission deadline (via Moodle): **on or before 26 Nov 2018 (Mon)**

Resources

Common data environment CDE

https://www.designingbuildings.co.uk/wiki/Common_data_environment_CDE

Common Data Environment (CDE): What you need to know for starters

<https://www.aconex.com/blogs/common-data-environment-cde-tutorial/>

Demystifying the Common Data Environment (BIM Today)

<https://www.pbctoday.co.uk/news/bim-news/demystifying-common-data-environment/26133/>

References

- BCA, 2017. Singapore VDC Guide, Version 1.0 – October 2017, Building and Construction Authority, Singapore.
https://www.corenet.gov.sg/media/2094675/singapore-vdc-guide_version1_oct2017.pdf
- BSI, 2013. *PAS 1192-2:2013 Specification for Information Management for the Capital/Delivery Phase of Construction Projects Using Building Information Modelling*, British Standards Institution (BSI), London.
- Holzer, D., 2016. *The BIM Manager's Handbook: Guidance for Professionals in Architecture, Engineering, and Construction*, John Wiley & Sons, Ltd., Chichester, West Sussex, UK. (ebook: <http://webpac.vtc.edu.hk/record=b11468140>)
- Preidel, C. and Tretheway, M., 2017. *Making BIM Work Better with Process, Data and Tools*, White Paper, ALLPLAN, Munich, Germany.
https://info.allplan.com/hubfs/07_Guides/Whitepaper_BIM_Integration_Framework_EN.pdf