A Roadmap to NationalBIM (国内BIMオブジェクトライプラリー object library BIM library consortium secretariat Building Maintenance & Maintenance Center(BMMC)

The foundation o BIM library consortium



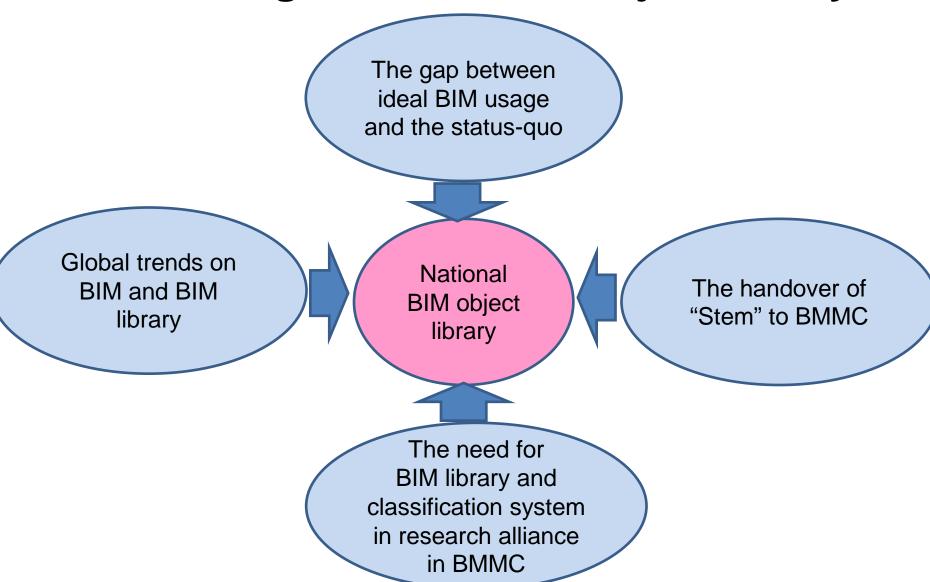
The objectives of the consortium

The objectives of the Consortium are;

- to research the status-quo and the development of National BIM object library globally
- —to develop standards necessary for National BIM object library including classification system
- —to develop National BIM object library on the basis of the existing BIM object library for MEP named "Stem".

"Stem" will be explained afterwards.

The back ground of BIM object library

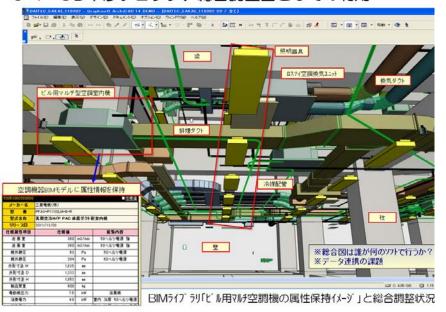


What is "Stem"?

"Stem" is a standard specification that enables to exchange a collection of technical information such as performance, specification, shape, technical documents etc. on mechanical and electrical facilities between different BIM software.

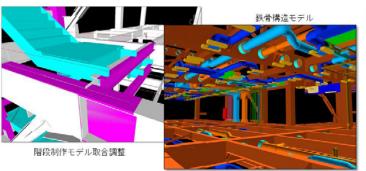
"Stem" stands for "Standard for the exchange of mechanical equipment library data" and started its development as 2D-CAD exchange standard in 2000. It stores over 70,000 items on mechanical and electrical products.

6-4 3D干渉チェック、総合調整図としての利用



7. BIMデータの連携利用

7-1) 鉄骨ファブリケータなど資材製作や調達との連携 BIMデータを使って鉄骨や配管などの工場製作を行うことで、省力化や部材の品質向上を図る 取り組みが始まり、鉄骨製作の分野で実用化されています。





7-2)維持管理フェーズ ビル管理システムFMへの利用

BIMモデルでは3次元での視認性が高いことに加え、建物としての整合性が取れていることや、 部材や部品などの情報があることから竣工時のBIMデータを利用しようというニーズが高まり 官庁物・民間物件での施設管理への利用が進むものと思われます。

4 pillars of the consortium activities

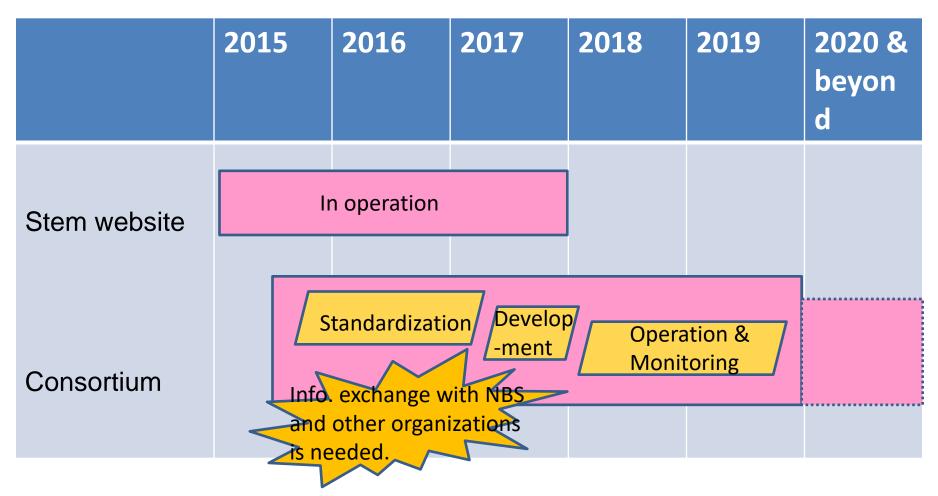
- "Research and discussion on what is required on BIM object library" is headed by Prof. Kouichi Yasuda.
- "Research on standard for architectural and structural objects" is headed by Assistant Prof. Ichiya Shide.
- "Research on standard for mechanical and electrical objects" is headed by Assistant Prof. Masayuki Ichinose.
- "Research on terms & conditions on BIM library" is headed by Prof. Yasutomo Yamamoto.







Roadmap to National BIM object library



Free accessible "Stem website" http://stem.yoi-kensetsu.com/index.asp

We are studying NBS BIM object standard.

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Thank you for your attention