

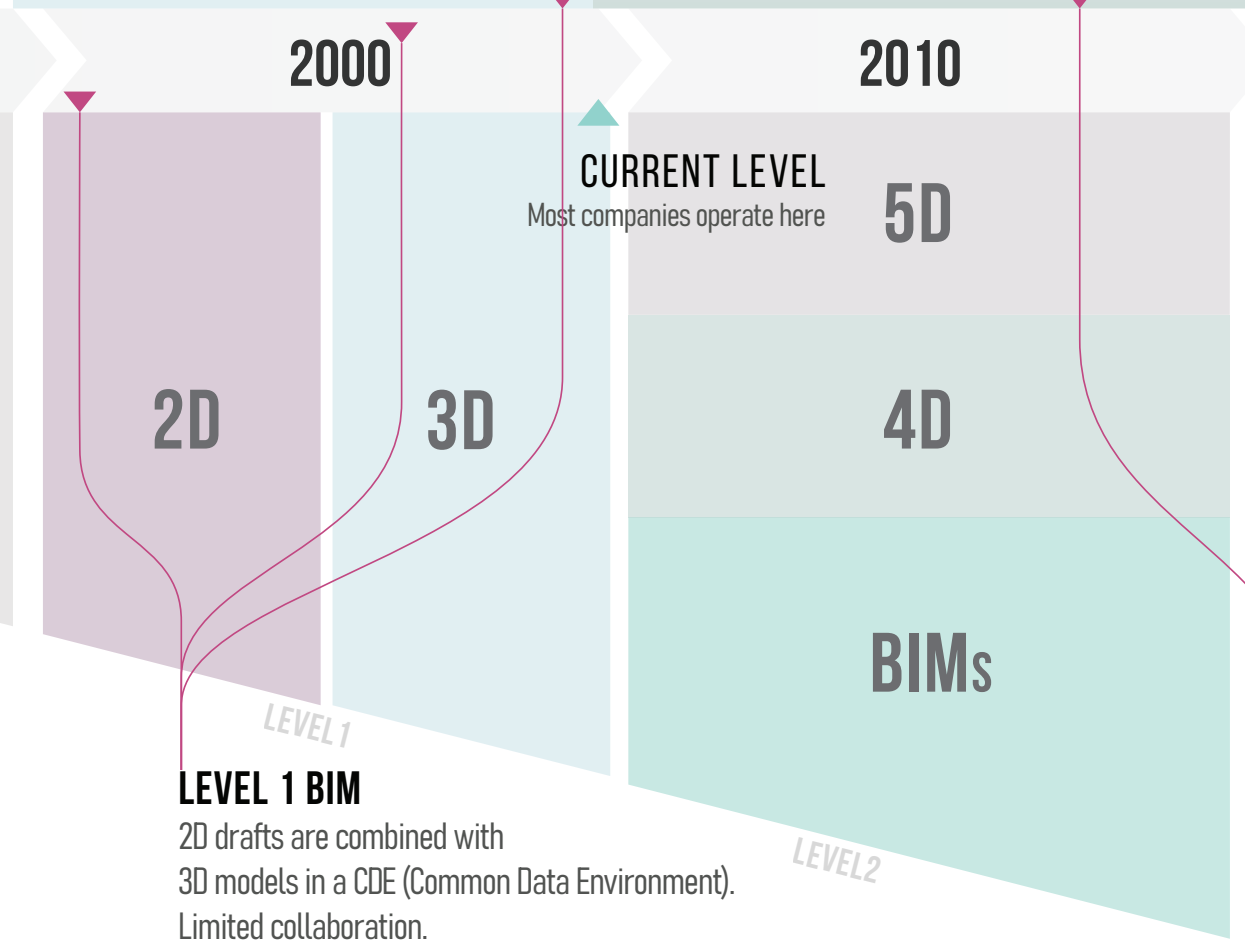
## A NEED FOR BIM SKILLS

In O&M...

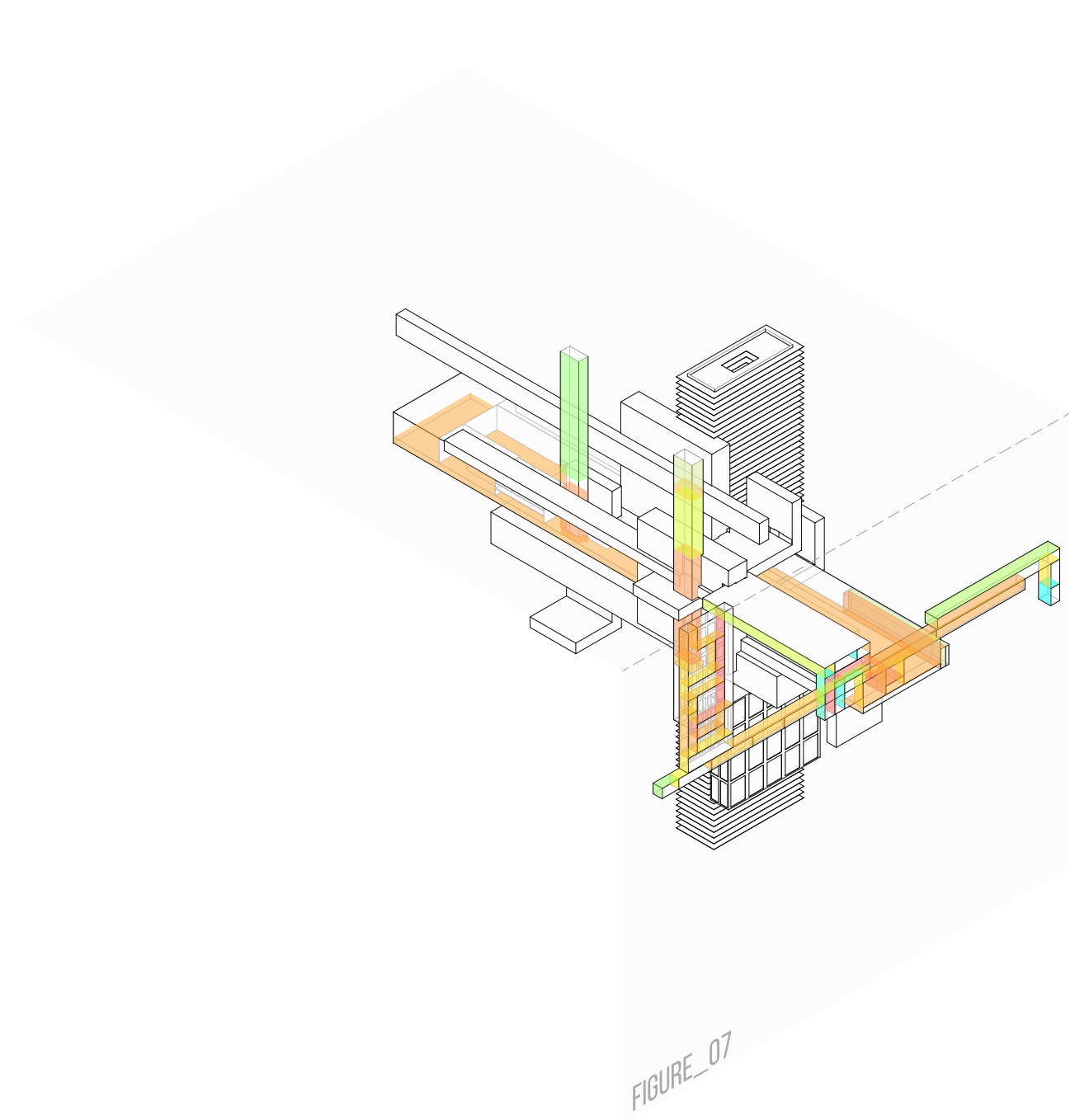
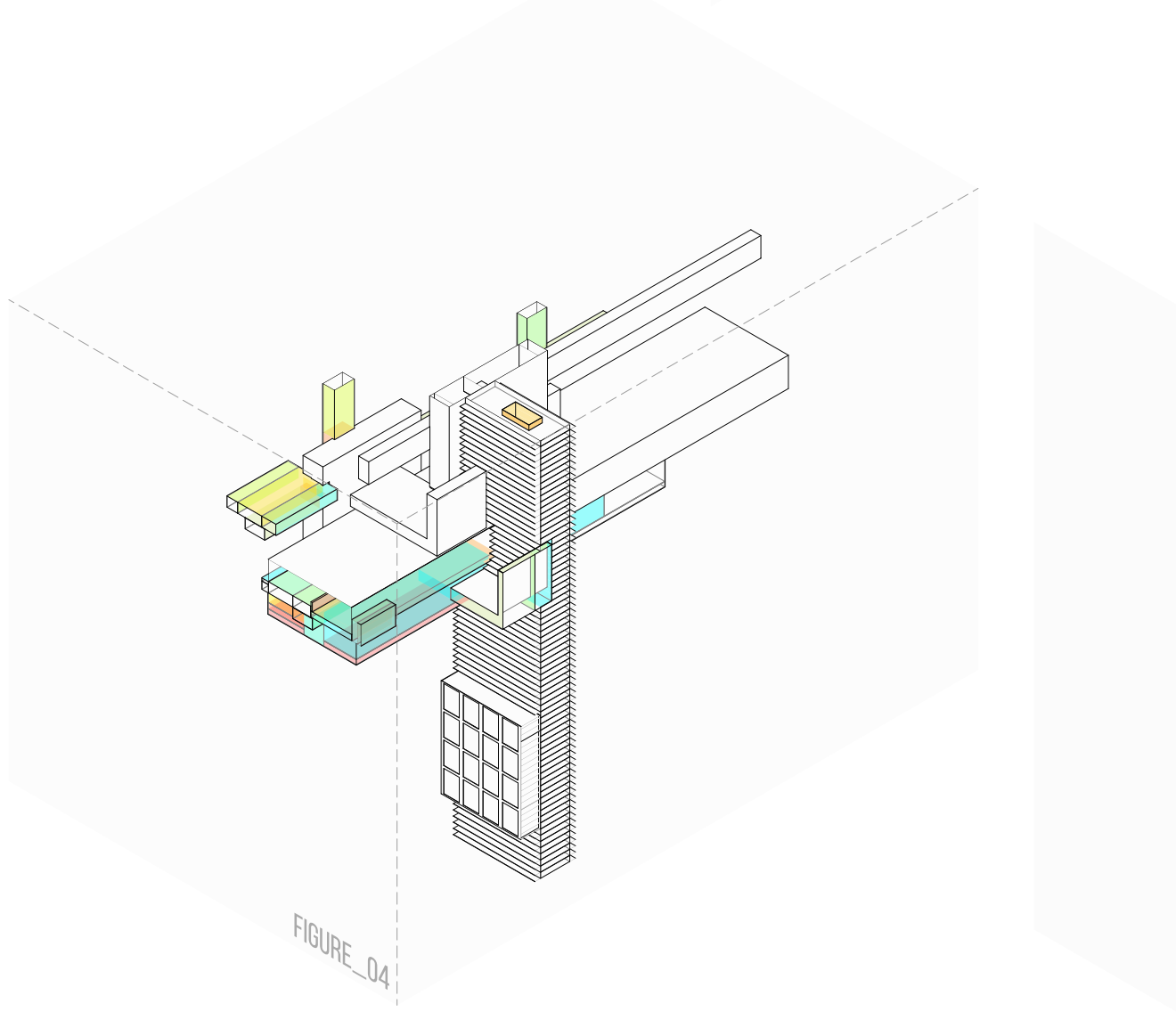
But only 14 of US owners believe they currently have the capability to leverage it in facilities maintenance.

(Source McGraw Hill Construction)

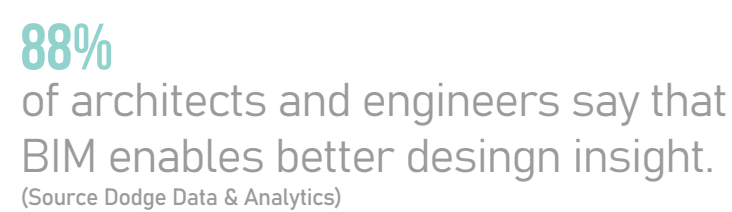
4D -



3D - sections (with different situation) are represented a wide variety of block volumes. From which data can be taken for tabulation and further analytical calculations. (Room Schedule)



BUT BIM IS UNDERUTILIZED  
OUTSIDE OF DESIGN



A stylized illustration of a building under construction. The building has a grey concrete frame with blue panels on the lower floors. A yellow crane is positioned on top of the building, lifting a grey block. The building is set on a green circular base.

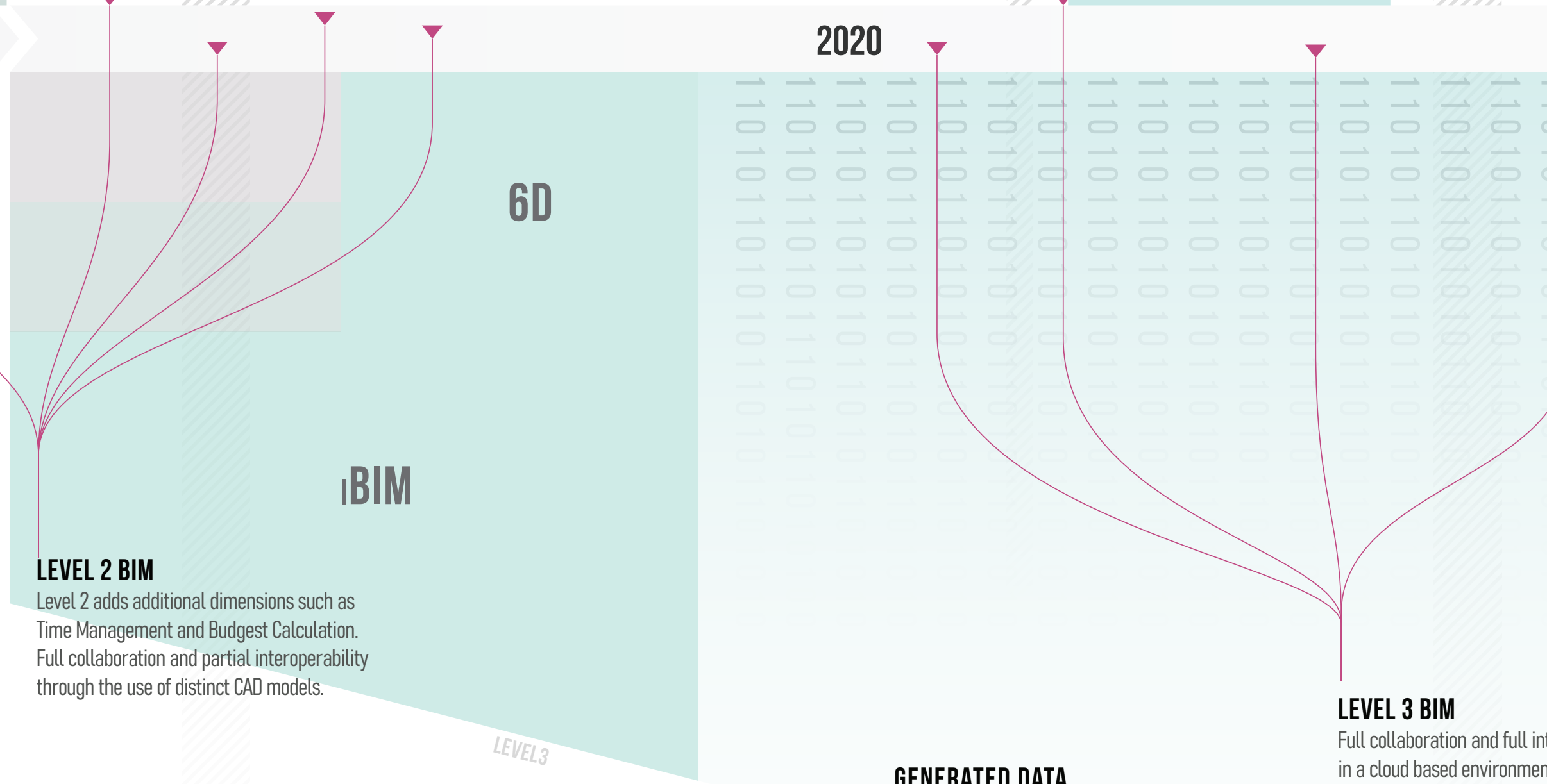
Benefit	Percentage
say it eliminates unnecessary rework	84%
say it reduces cost and materials waste	69%
say it engages the material supply chain earlier and mitigates risk	60%

## BuildingInformationModeling

It is a working process. It is not a physical item or object. Divided into 4 levels.  
Each level represents the BIM MATURITY.  
Each level contains DIMENSIONS which define the type of available data.  
With each level the COLLABORATION and INTEGRATION increases.



**LEVEL 3 BIM**  
Full collaboration and full integration  
in a cloud based environment.  
Includes Asset Life  
Cycle Management (6D).



The amount of data generated increases with each level.