

Ex unitate vires

translates "**unity is strength**"


!ke e: |xarra ||ke

translates "**diverse people unite**"

<https://www.google.co.za/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#q=innovation>



innovation

/ɪnəˈveɪʃ(ə)n/ 

noun

the action or process of innovating.

"innovation is crucial to the continuing success of any organization"

synonyms: change, alteration, revolution, upheaval, transformation, metamorphosis, reorganization, restructuring, rearrangement, recasting, remodelling, renovation, restyling, variation;

[More](#)

- a new method, idea, product, etc.

plural noun: **innovations**

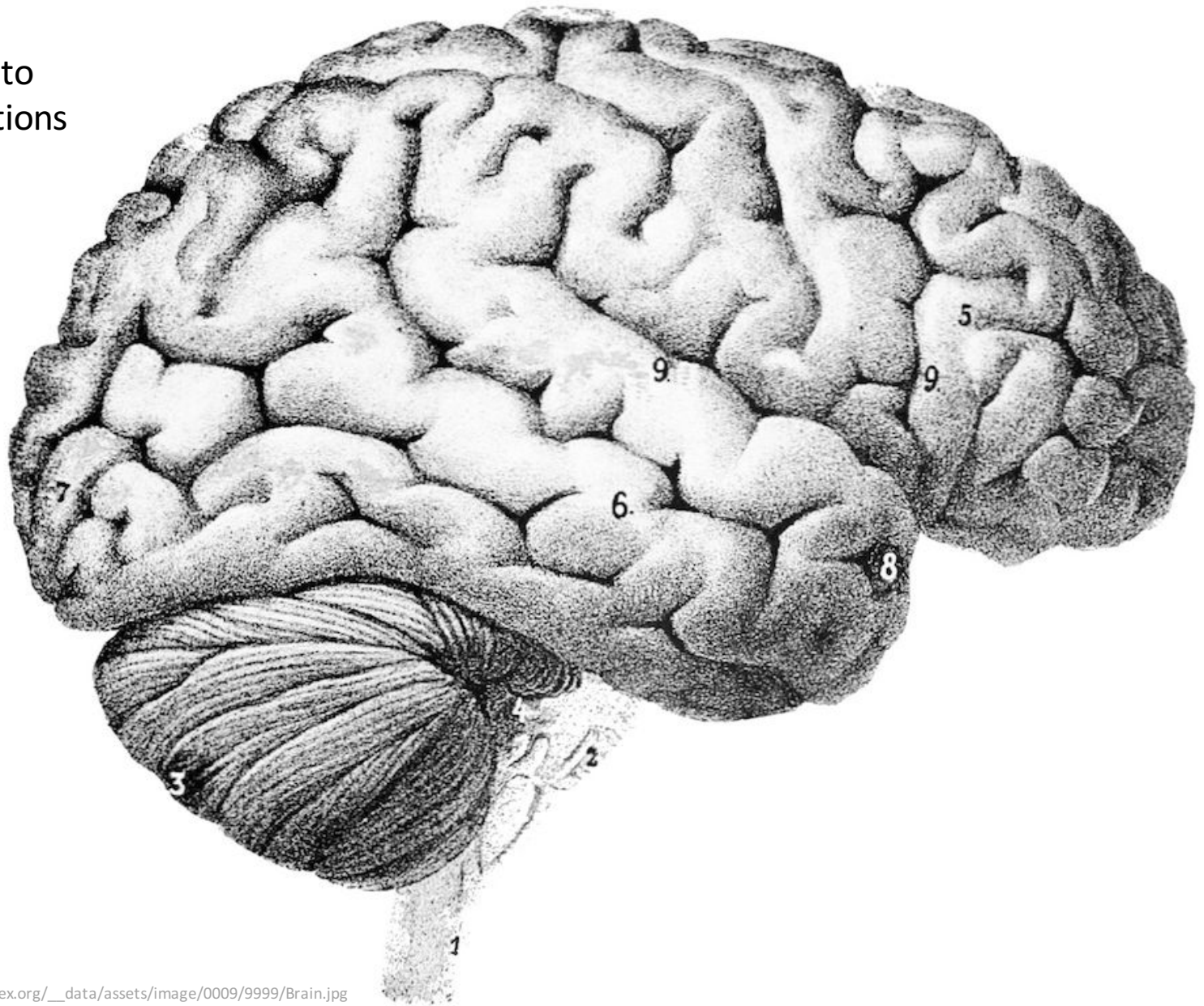
"technological innovations designed to save energy"



Translations, word origin, and more definitions

<https://www.google.co.za/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#q=innovation>

brain's ability to
find new solutions
to problems



not just
analytical
not just
problems

https://www.scimex.org/__data/assets/image/0009/9999/Brain.jpg

<https://www.youtube.com/watch?v=IDi9uFcD7XI>



..... R O B B I E M A D D I S O N ' S

Pipe Dream

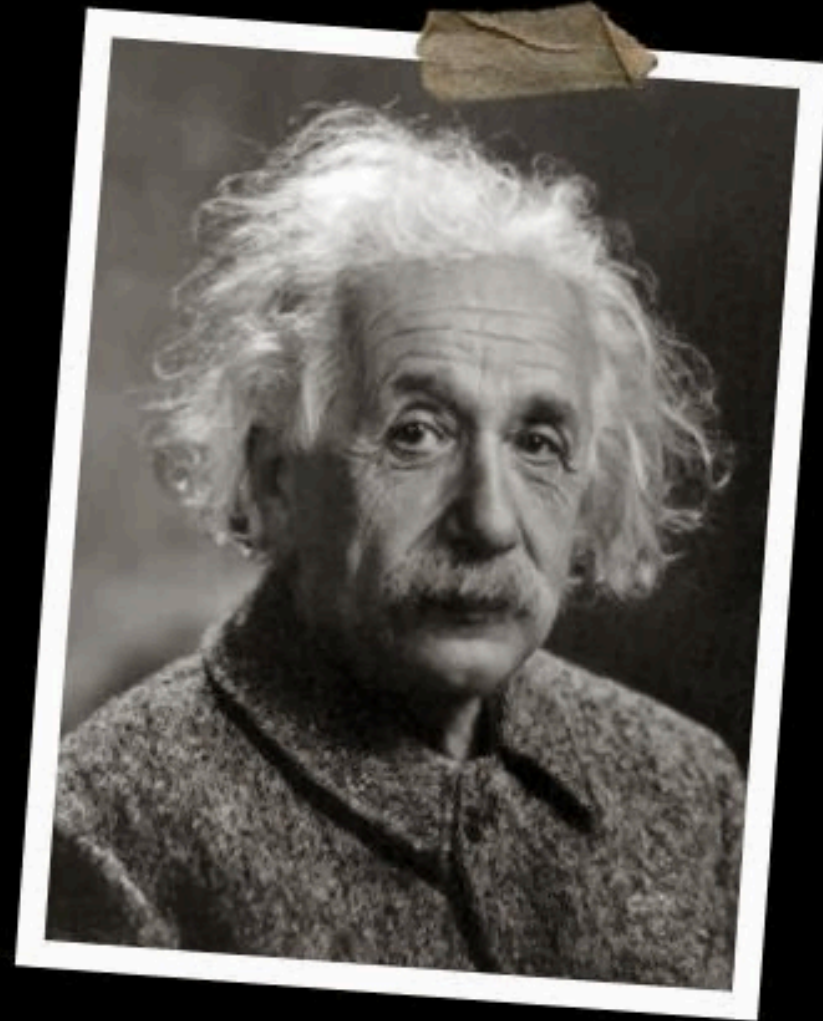
—————>>> T A H I T I <<<—————



first discovery can lead others
to also discover it



**"Education is not
the learning of
facts, but the
training of the mind
to think."
-Albert Einstein**




<http://www.picshunger.com/wp-content/uploads/2014/04/Education.jpg>



Illustrator Tutorial | Transparent Graphic Design | Magnifying Glass

<https://www.youtube.com/watch?v=2u3AMLw3PWo>

<https://i.ytimg.com/vi/2u3AMLw3PWo/maxresdefault.jpg>



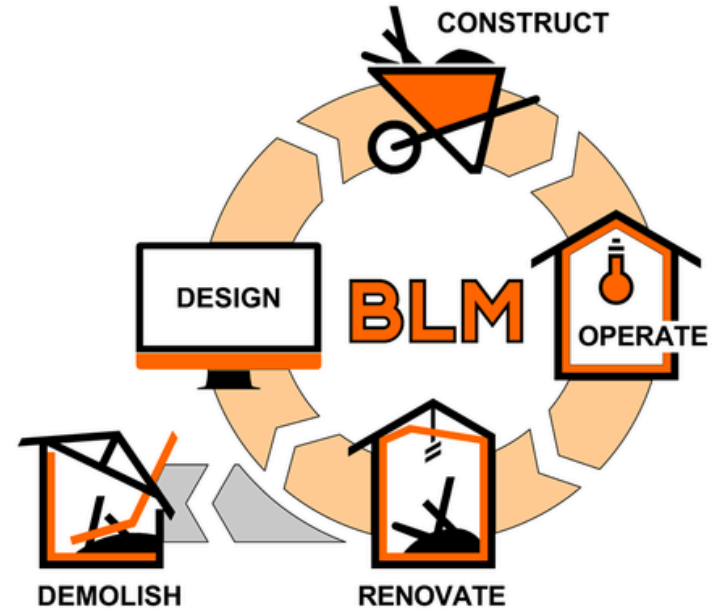
"Real estate cannot be stolen, nor can it be carried away. Purchased with common sense, paid for in full, and managed with reasonable care, it is about the safest investment in the world."

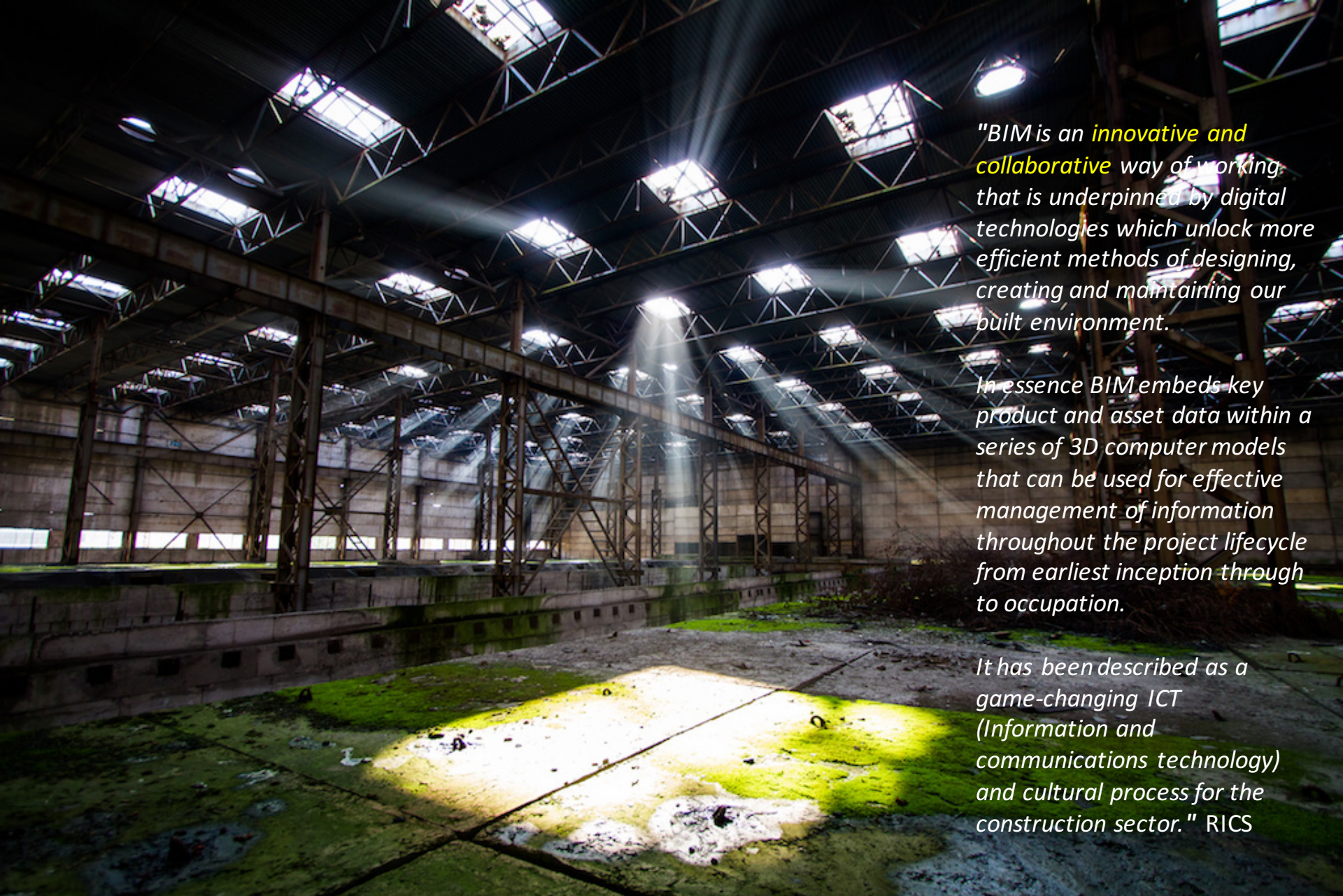
Franklin D. Roosevelt

BUILDING LIFECYCLE MANAGEMENT **BLM**

"The integrated coordination, organization and control of all of the information about a building project in advance of its design and construction and continuing throughout its entire lifecycle, i.e. from the inception of the project pro forma through design, construction and the day to day operation of the building until and including its demolition."

[IGI Global](#)





"BIM is an **innovative and collaborative** way of working that is underpinned by digital technologies which unlock more efficient methods of designing, creating and maintaining our built environment.

In essence BIM embeds key product and asset data within a series of 3D computer models that can be used for effective management of information throughout the project lifecycle from earliest inception through to occupation.

It has been described as a game-changing ICT (Information and communications technology) and cultural process for the construction sector." RICS

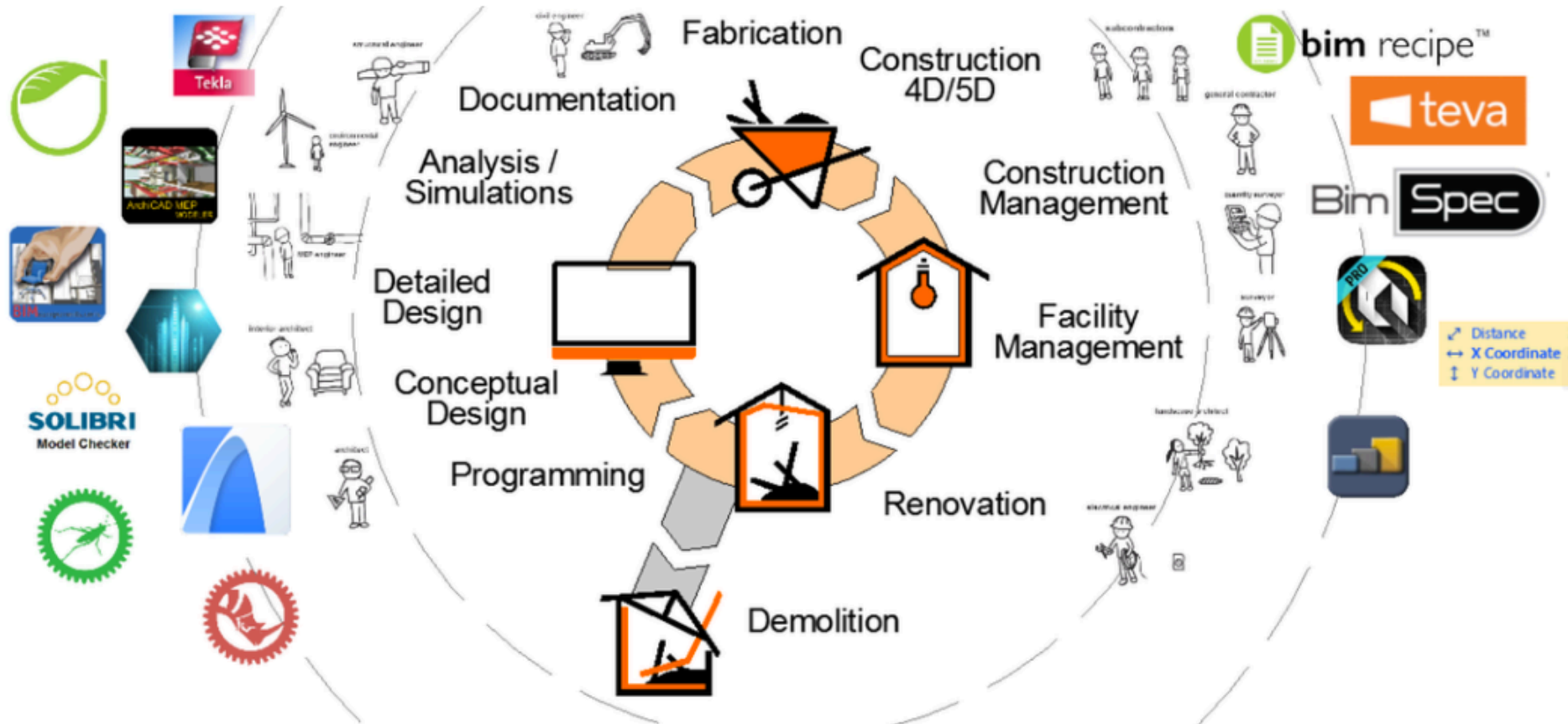
building lifecycle fusionists

We fuse the technological advantages of BIM tools and the collaborative culture among the role players into an optimized workflow for the BIM process, in order to achieve huge innovative improvements for all stages of building lifecycle management.



BUILDING INFORMATION MANAGEMENT

BIM



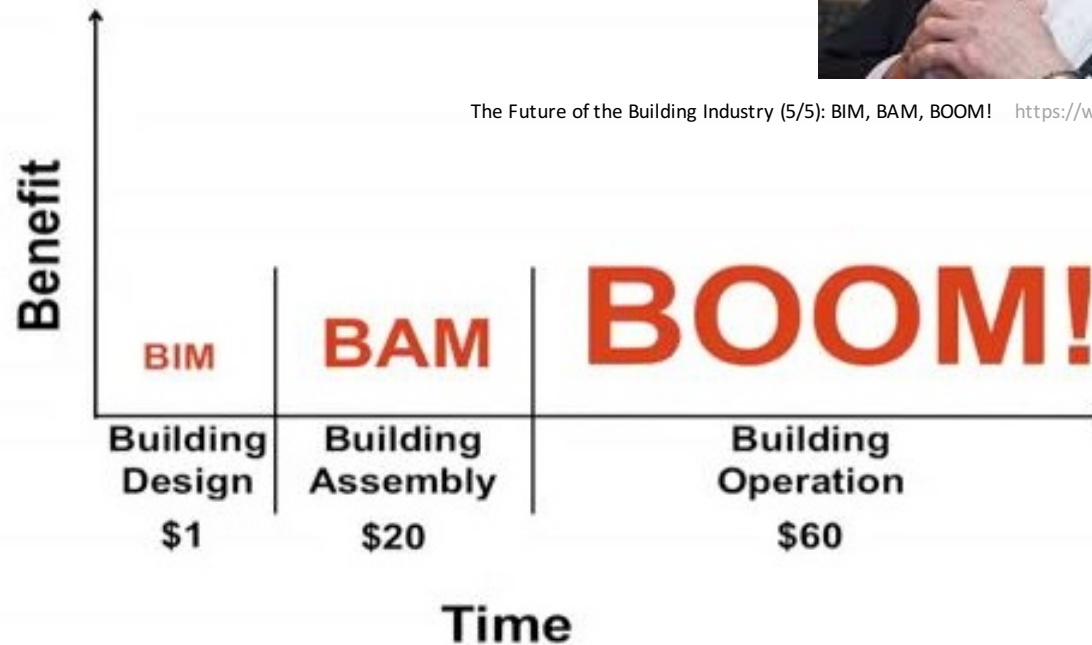
Patrick MacLeamy

HOK Chairman

collaboration



The Future of the Building Industry (5/5): BIM, BAM, BOOM! <https://www.youtube.com/watch?v=5lgdcCemevI>



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Collaboration

Collaboration is key to the successful completion of building projects. Our task is to assist the design, construction and operation team to optimize the project deliverables. To this end we believe that the **OPEN BIM** concept best suits our clients, because of it's nature to create a working environment with little or no restrictions.



"OPEN BIM is a universal approach to the collaborative design, realization, and operation of buildings based on open standards and workflows. OPEN BIM is an initiative of several leading software vendors using the open buildingSMART Data Model."

GRAPHISOFT



The **buildingSMART** data model use the following standards to facilitate an open workflow, irrespective of which software (BIM tool) is used by the team members:

- Industry Foundation Classes [IFC] - the difference between BIM and open BIM.
- Information Delivery Manual [IDM]
- International Framework for Dictionaries [IFD]

and also harvests externally developed specifications:

- BIM Collaboration Format [BCF]
- Model View Definition markup language [mvdXML]

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BUILDING INFORMATION MODELING

MANAGEMENT ?!

VIDEO'S SHOWN:

ARCHICAD 20 - The "I" in BIM Concept

<https://www.youtube.com/watch?v=pCWyUgGN5i0&list=PLnXY6vLUwIWUzh4IQ0NSq1vqeGxcZDn7g>

Google Glass: Procore Construction Project Management Software

<https://www.youtube.com/watch?v=XBbG7SYVUuw>

BUILDING
INFORMATION
MODELING

VIDEO'S TO SEE:

DC SHOES: ROBBIE MADDISON'S "PIPE DREAM"

<https://www.youtube.com/watch?v=IDi9uFcD7XI>

Exhibition Design with BIM - Nationalmuseum in Sweden

<https://www.youtube.com/watch?v=wAWpckrSBxg>

Tekla BIMsight SMART Board demo

<https://www.youtube.com/watch?v=p6DaMRKI92c>

External Links access BIMx Elements - Available now in the BIMx PRO 2016 release

<https://www.youtube.com/watch?v=f6zo-ZUEBr8&index=2&list=PLnXY6vLUwIWW6rMztKIZpk5IqRLZXi8Yh>

Interactive Marketing sales tool - Building Magical Brochure

<https://www.youtube.com/watch?v=GhoVGwkwamM>

The Future of Augmented Reality

<https://www.youtube.com/watch?v=tnRJazHZH9lo>

Microsoft HoloLens Review, mind blowing Augmented Reality!

<https://www.youtube.com/watch?v=ihKUoZxNClA>