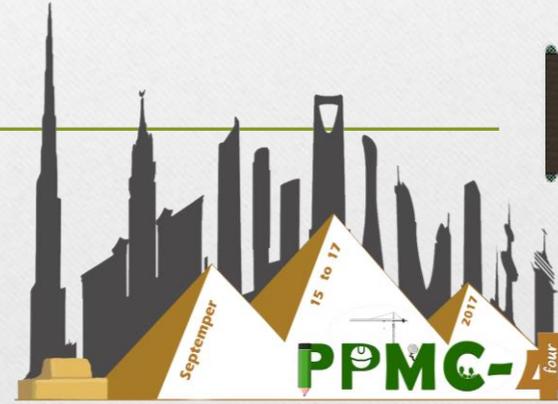


أفضل استراتيجيات التحكم الفعال في المشروعات



نمذجة المعلومات للتحكم الفعال في المشروعات

المحاضر:
الأستاذ الدكتور / أكرم حسن
خبير دولي في إدارة الاعمال والمشاريع



Best Strategies for
Effective Project Control

الراعي



أستاذ دكتور/ أكرم حسن:

- ▶ مستشار تطوير مؤسسي أد أكرم كرم حسن
- ▶ خبير تقييم وتطوير المؤسسات بمعهد ادارة المشاريع PMI.
- ▶ مستشار إدارة مشاريع بمشروع خادم الحرمين للمقرات الأمنية
- ▶ مستشار ببرنامج التحول الوطني وخبير تطوير بوزارة الشؤون البلدية
- ▶ مستشار معتمد لإدارة المخاطر بشركة ارامكو
- ▶ مستشار وكيل وزارة الحج للتطوير
- ▶ مستشار وكيل التعمير والمشاريع بأمانة العاصمة المقدسة
- ▶ مدير عام الاشراف على مشاريع الخطة التطويرية الشاملة بوزارة الداخلية



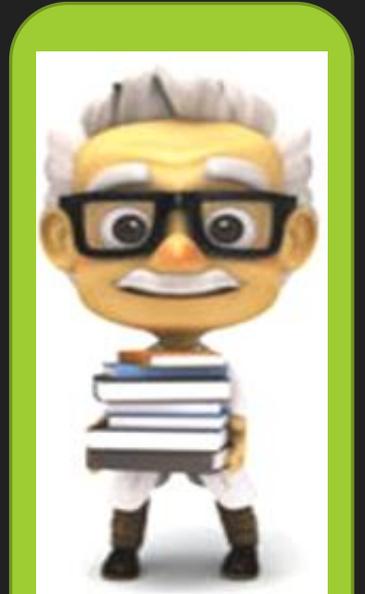
Best Strategies
for Effective
Project Control

Contents



Best Strategies for
Effective Project Control

- Voting
- Real Story
- 7D BIM Concept
- BIM unit Setup
- BIM & PM Control
- BIM & GPM Control
- BIM & FM Control
- Project & Company Benefits
- Success Story
- Voting



01. Voting

Building Information Modeling

Is BIM a Project Management Control System?!



20%



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02. Real Story



**Before
30 Years**

CONFIDENTIAL CO.

I Fear Failure



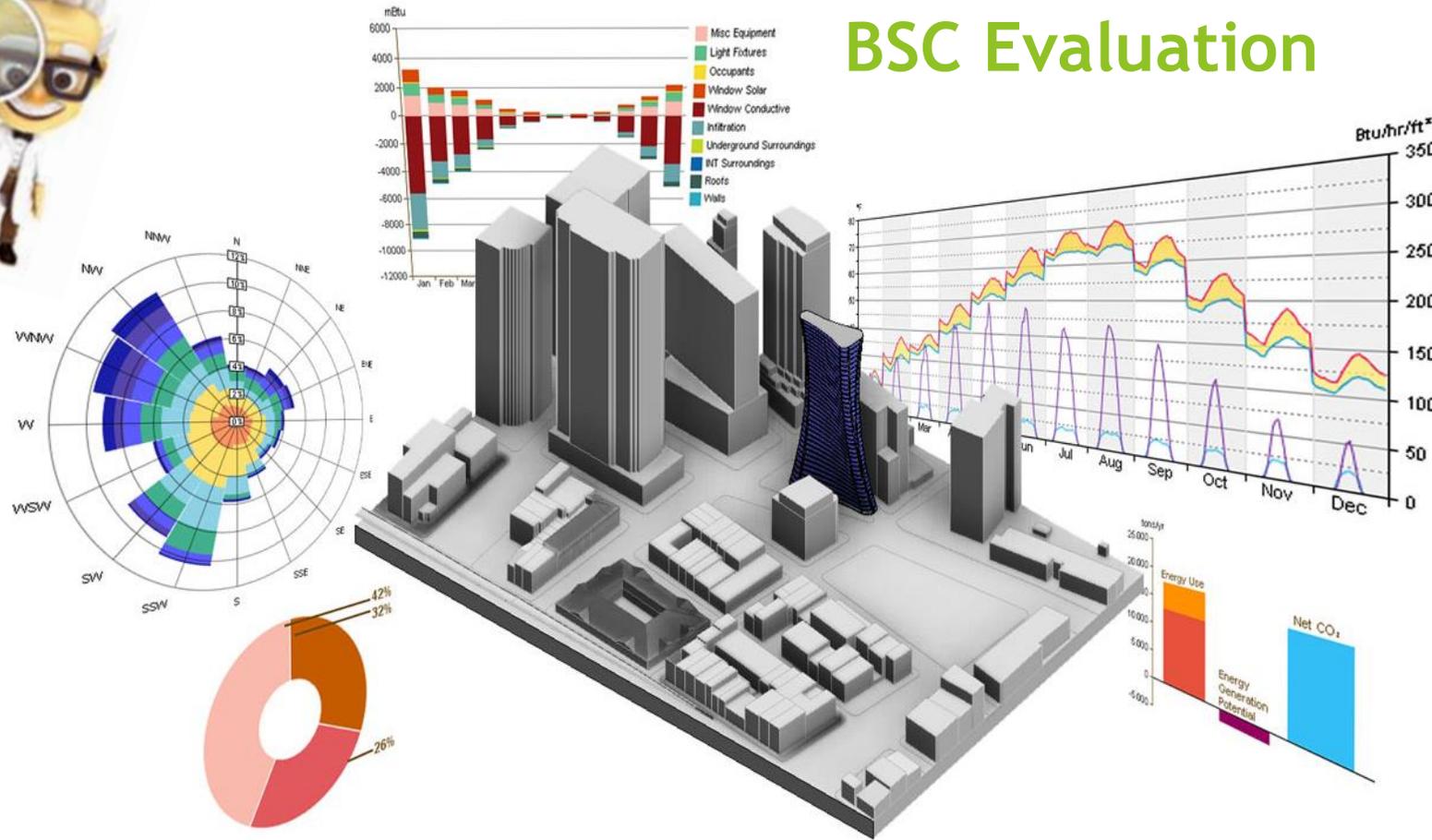
5



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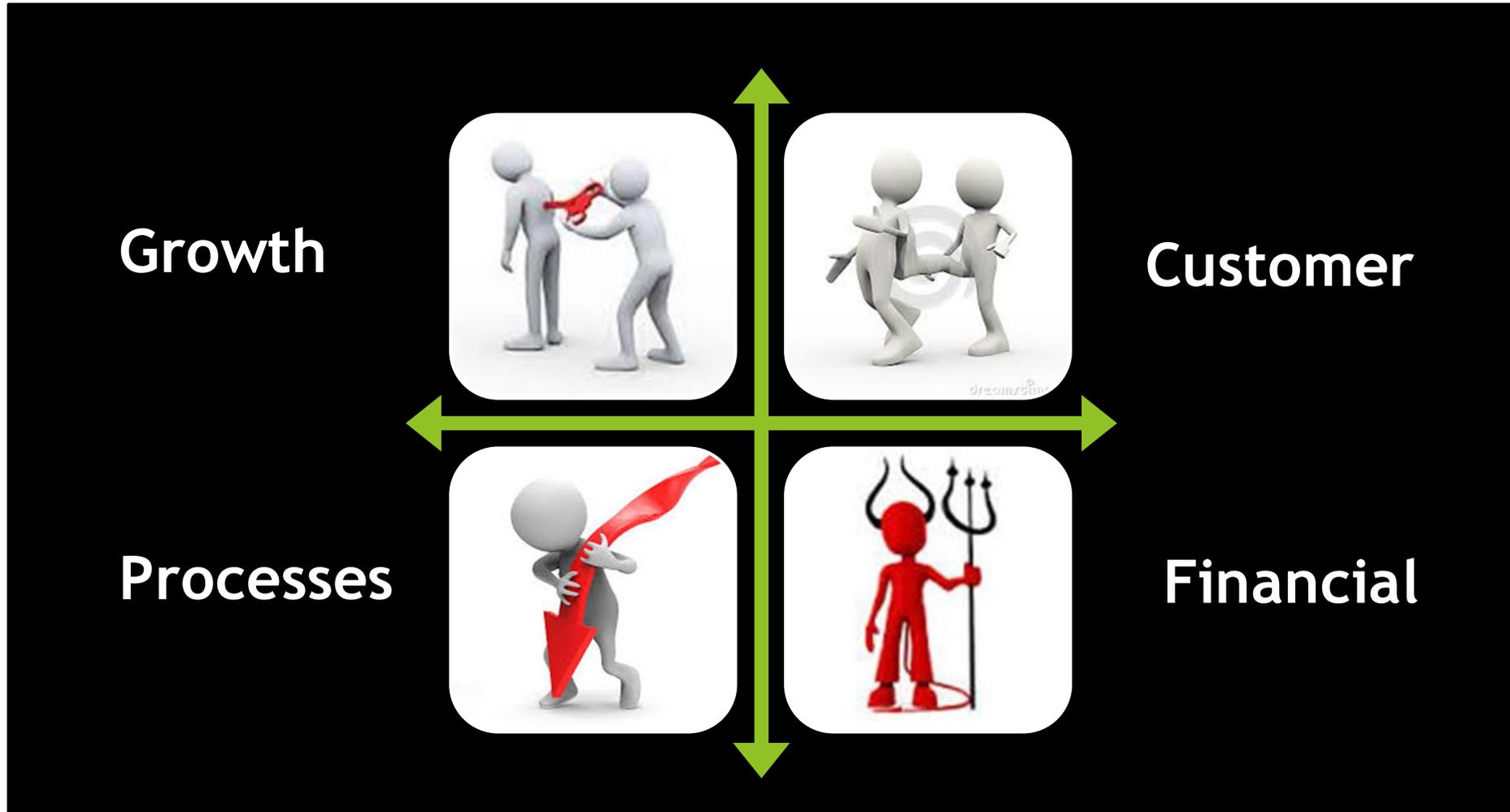
02. Real Story



Best Strategies for Effective Project Control



02. Real Story



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02. Real Story

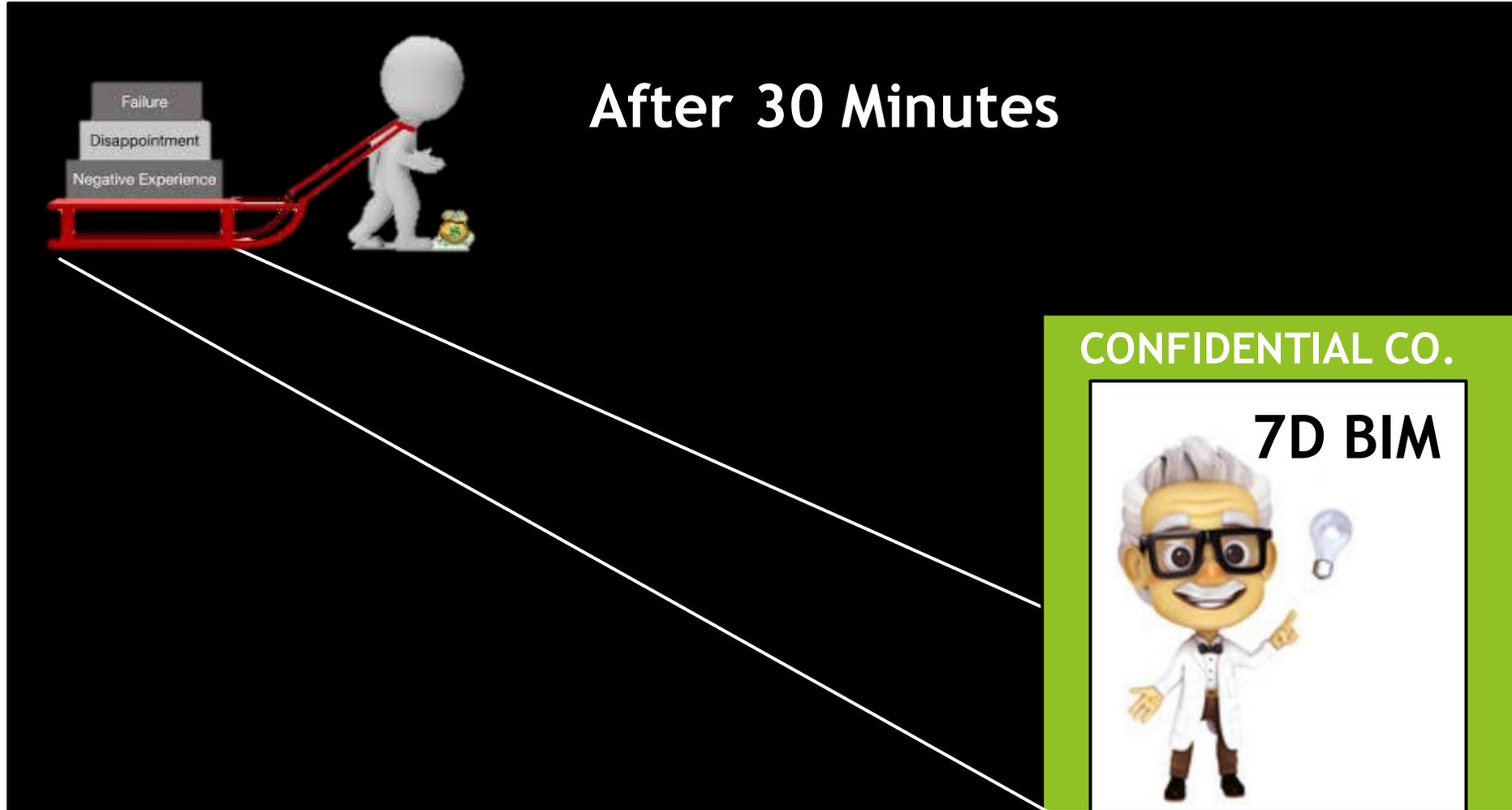


Critical Situation



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02. Real Story

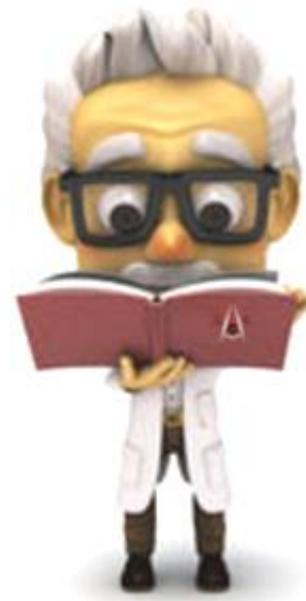


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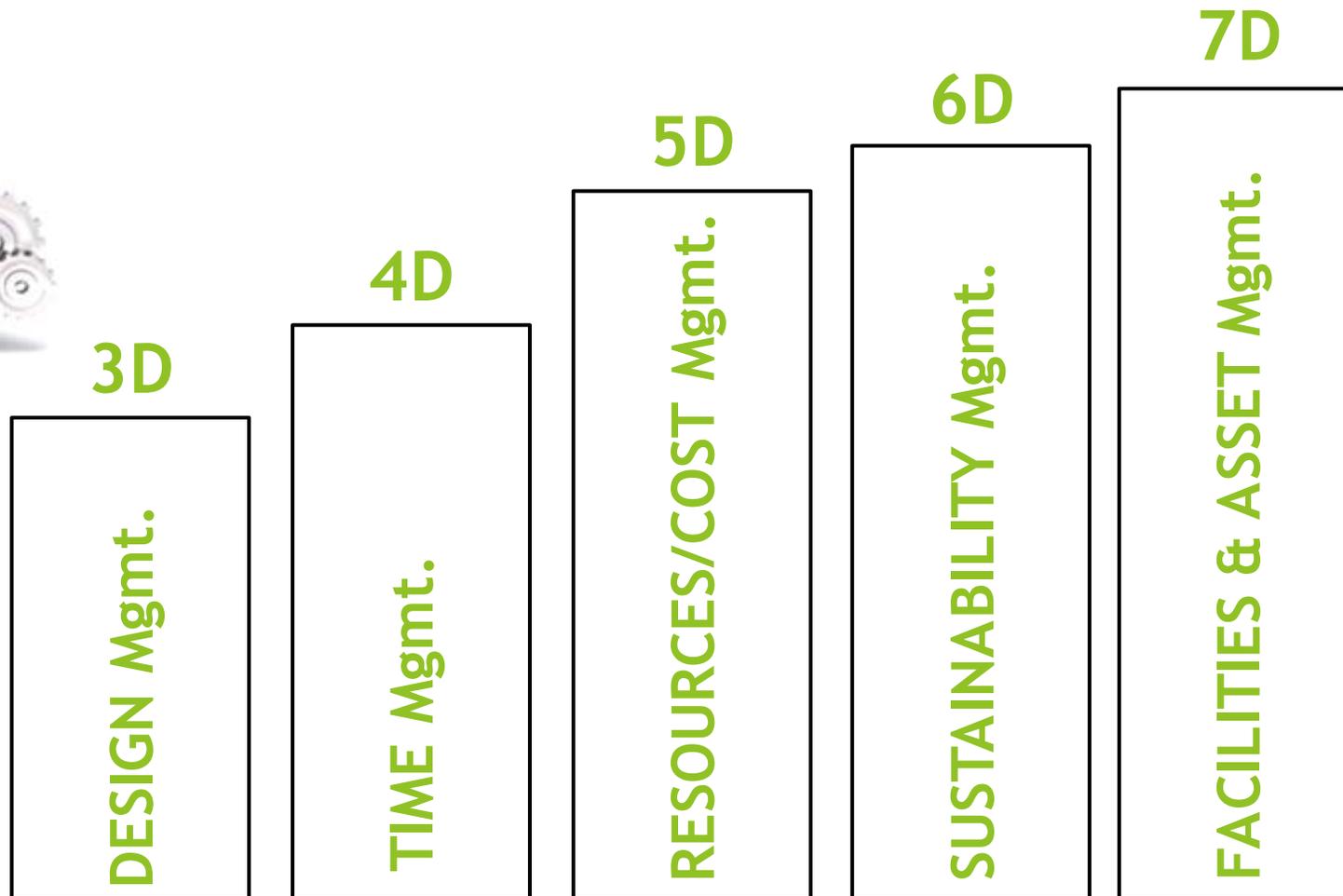
03. 7D BIM Concept

“An object-oriented building development and **PM Control** that utilizes 5-D **to 7-D** modeling concepts, information technology and software interoperability to design, construct, operate **and maintain** a **Green** building project, as well as communicate its details **from conception to demolition.**”



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03. 7D BIM Concept



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04. BIM unit Setup



Step 1



Step 2



Step 3



Step 4



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04. BIM unit Setup



Step 5



Step 6



Step 7



Step 8



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05. BIM & PM Control

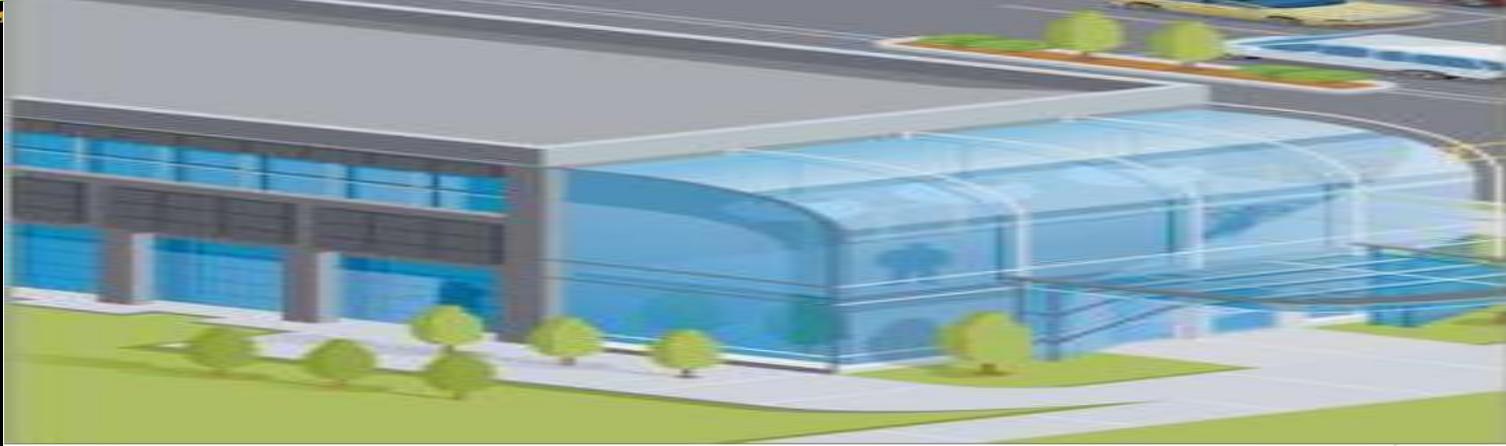
40 years

3Y
3D to 6D

37 years - 7D

IPD

Facilities & Assets Management



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05. BIM & PM Control

Systems People Practices



Integrated Project Delivery

Reduce waste

Maximize efficiency

Optimize project results

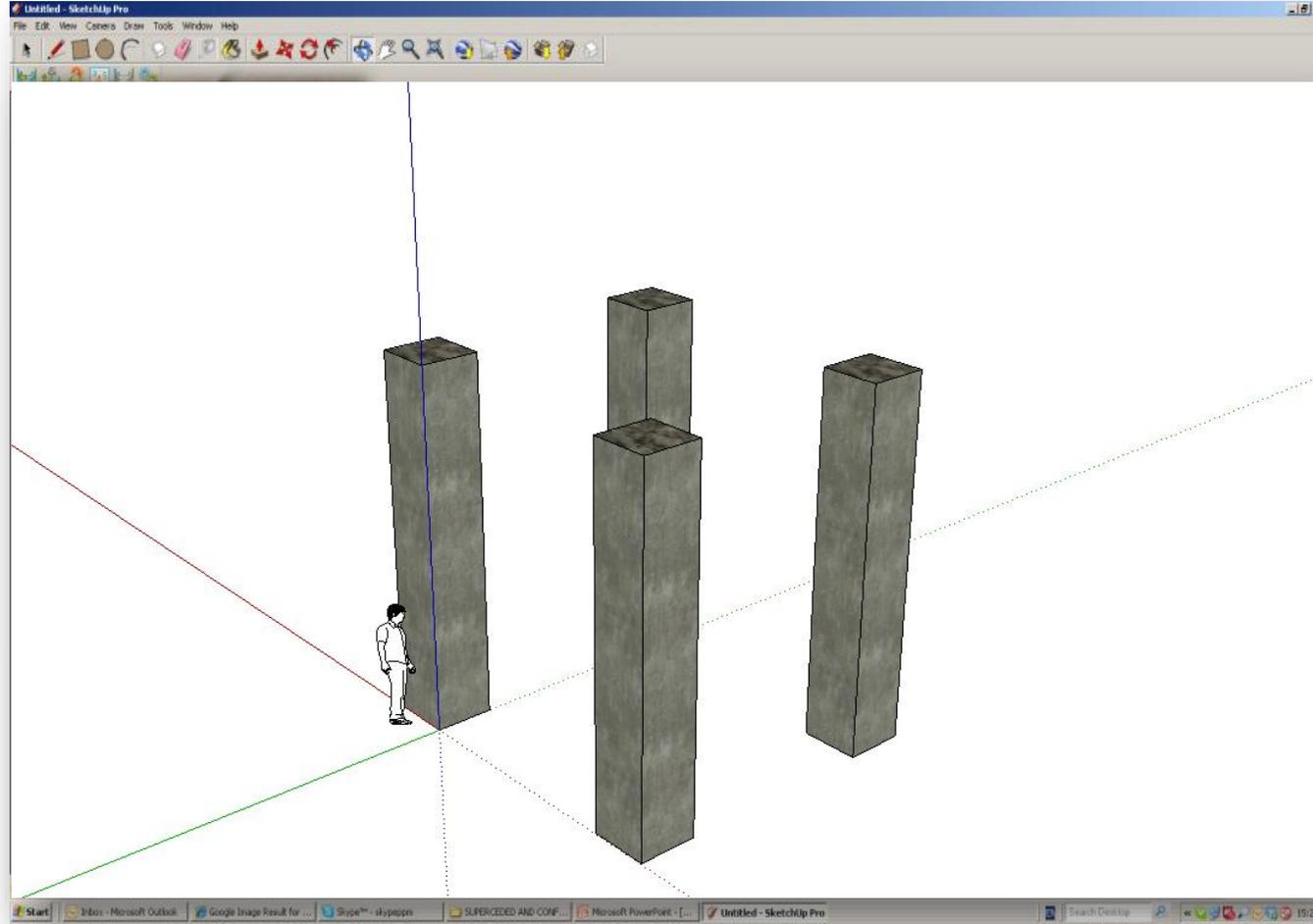
Increase value



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05. BIM & PM Control

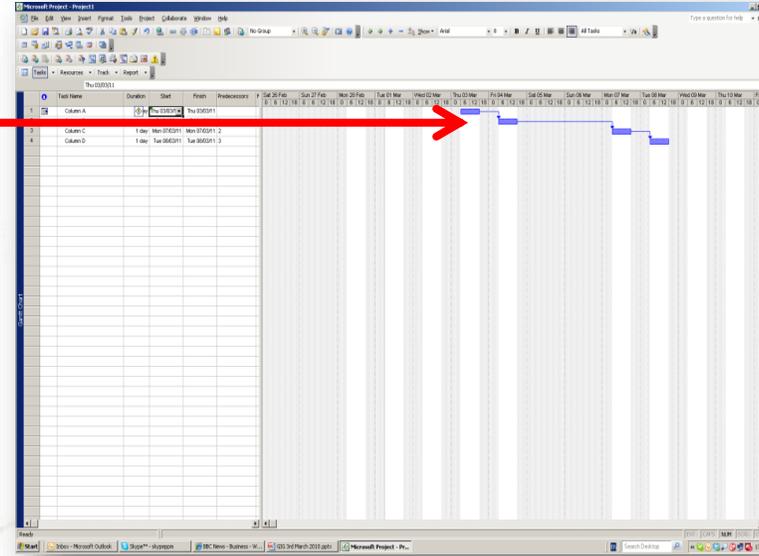
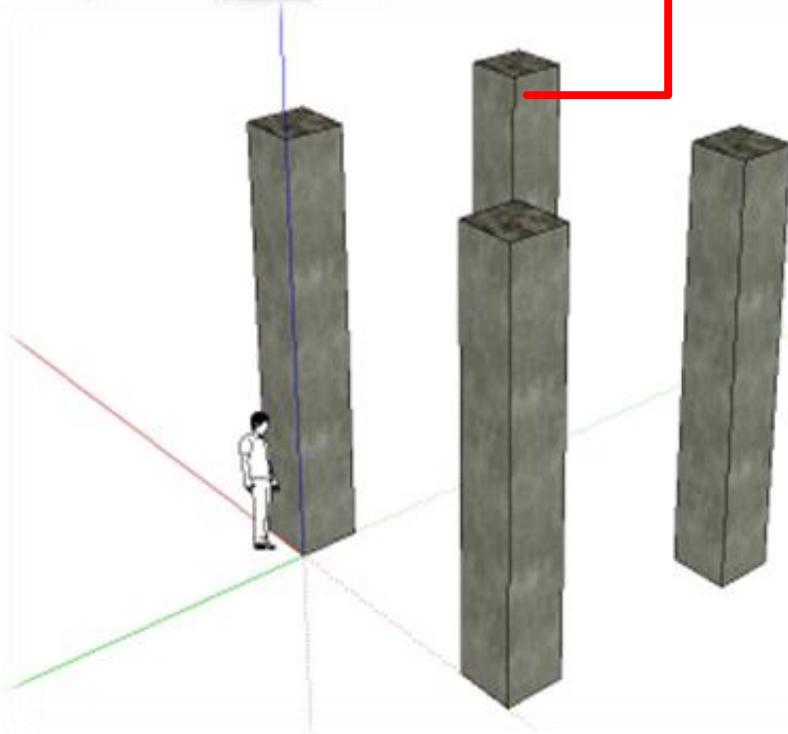
3D



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05. BIM & PM Control

4D



Linking 3D objects to Gantt chart activities



Best Strategies for Effective Project Control

05. BIM & PM Control

5D



The screenshot displays the Synchro software interface for project control. It includes a 3D model of a building structure, a task list with columns for Name, Duration, and Start, a Gantt chart, a Resource Chart, a Utilization for All Resources bar chart, and an Earned Value Graph. A table at the bottom shows task usage with columns for Task name, Quantity Used, Unit Type, Duration, Start, Finish, and Status.

Task name	Quantity Used	Unit Type	Duration	Start	Finish	Status
Solid (3D) [EF01]	12	Unknown				
Solid (3D) [EF15]	12	Unknown				
Cole - 2nd to 3rd	6	Unknown	6 Days	08 Mo, 10 Mar, 2008	17:00 Mo, 17 Mar, 2008	Hold
Solid (3D) [BEAD0C]	6	Unknown				
Solid (3D) [BEBC0C]	6	Unknown				
Solid (3D) [BEBE0C]	6	Unknown				
Solid (3D) [BEC0C]	6	Unknown				
Solid (3D) [BEE61C]	6	Unknown				
Solid (3D) [BEE80C]	6	Unknown				
Solid (3D) [EF294C]	6	Unknown				
Solid (3D) [EF26C]	6	Unknown				
Solid (3D) [A3AD0FE]	6	Unknown				
Solid (3D) [A3ADACT]	6	Unknown				
Solid (3D) [A3AD0A]	6	Unknown				
Solid (3D) [A3E08C]	6	Unknown				
Solid (3D) [A3E36C]	6	Unknown				
2nd floor slab			12 Days	08:00 Th, 21 Feb, 2008	17:00 Fr, 07 Mar, 2008	Hold

**Resources / Costs
Built into activities**



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06. BIM & GPM Control

What is Green Project Management?

Project team make efforts to run sustainable projects.

Green culture



6D

Green leadership

**Green
decision
s**



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06. BIM & GPM Control



Best Strategies for Effective Project Control

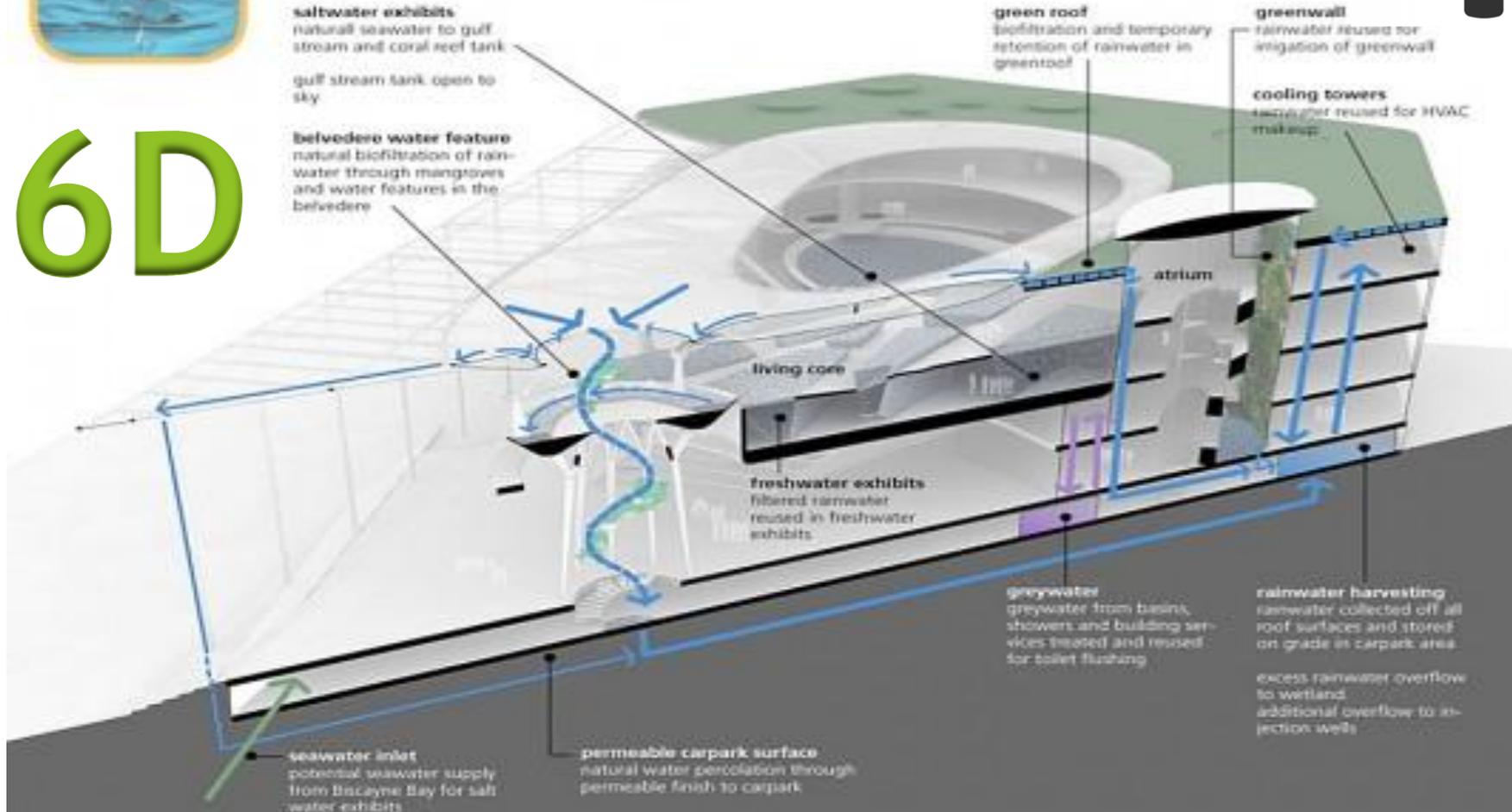


WATER

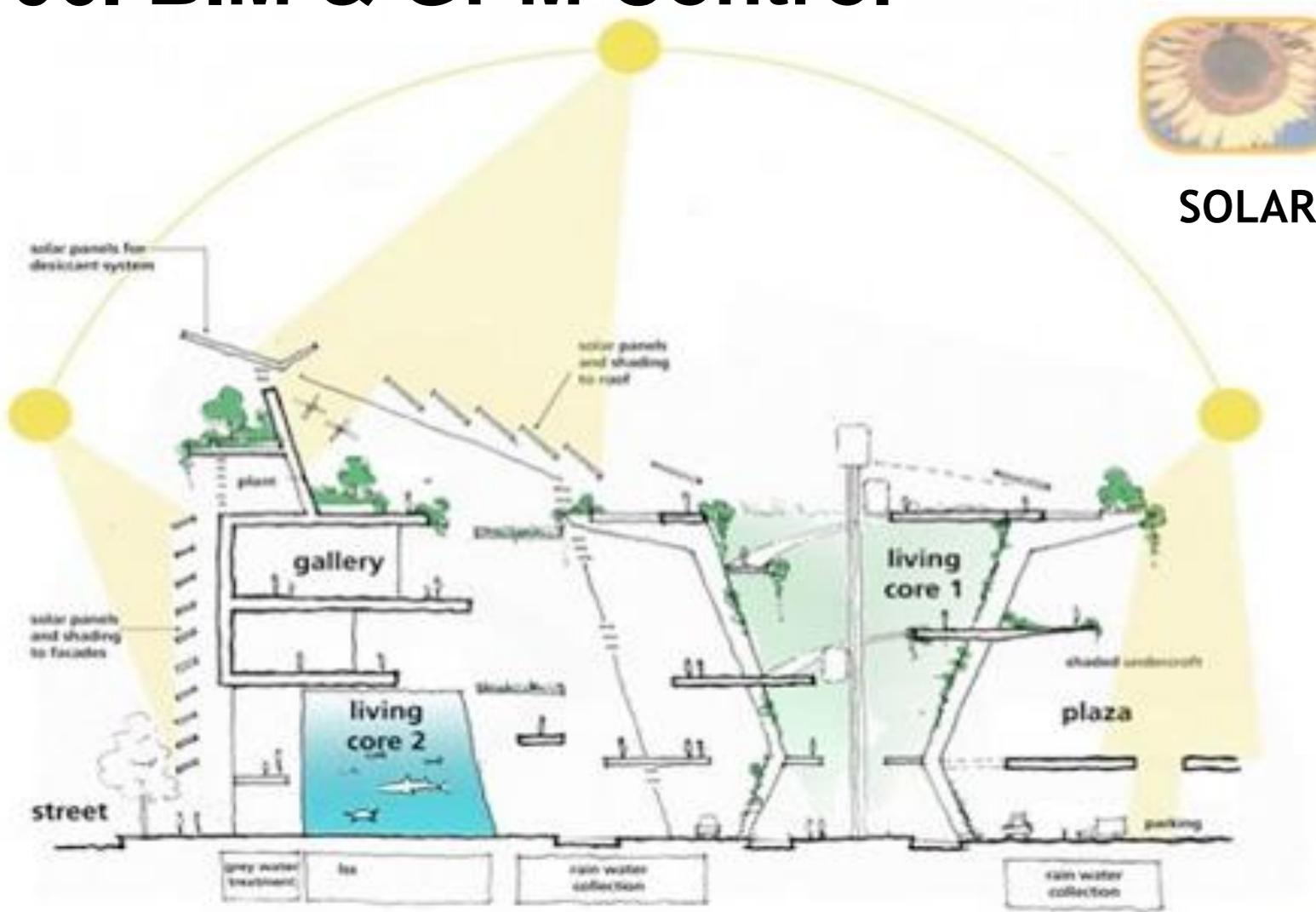
saltwater exhibits natural seawater to gulf stream and coral reef tank
gulf stream tank open to sky

belvedere water feature natural biofiltration of rainwater through mangroves and water features in the belvedere

6D



06. BIM & GPM Control



6D



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07. BIM & FM Control

What is Facility Management?

Facility management is a complex coordination of everything that is happening within a facility.



6D

Place

Process

Technology

People



IFMA™

International Facility Management Association

Empowering Facility Professionals Worldwide



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07. BIM & FM Control

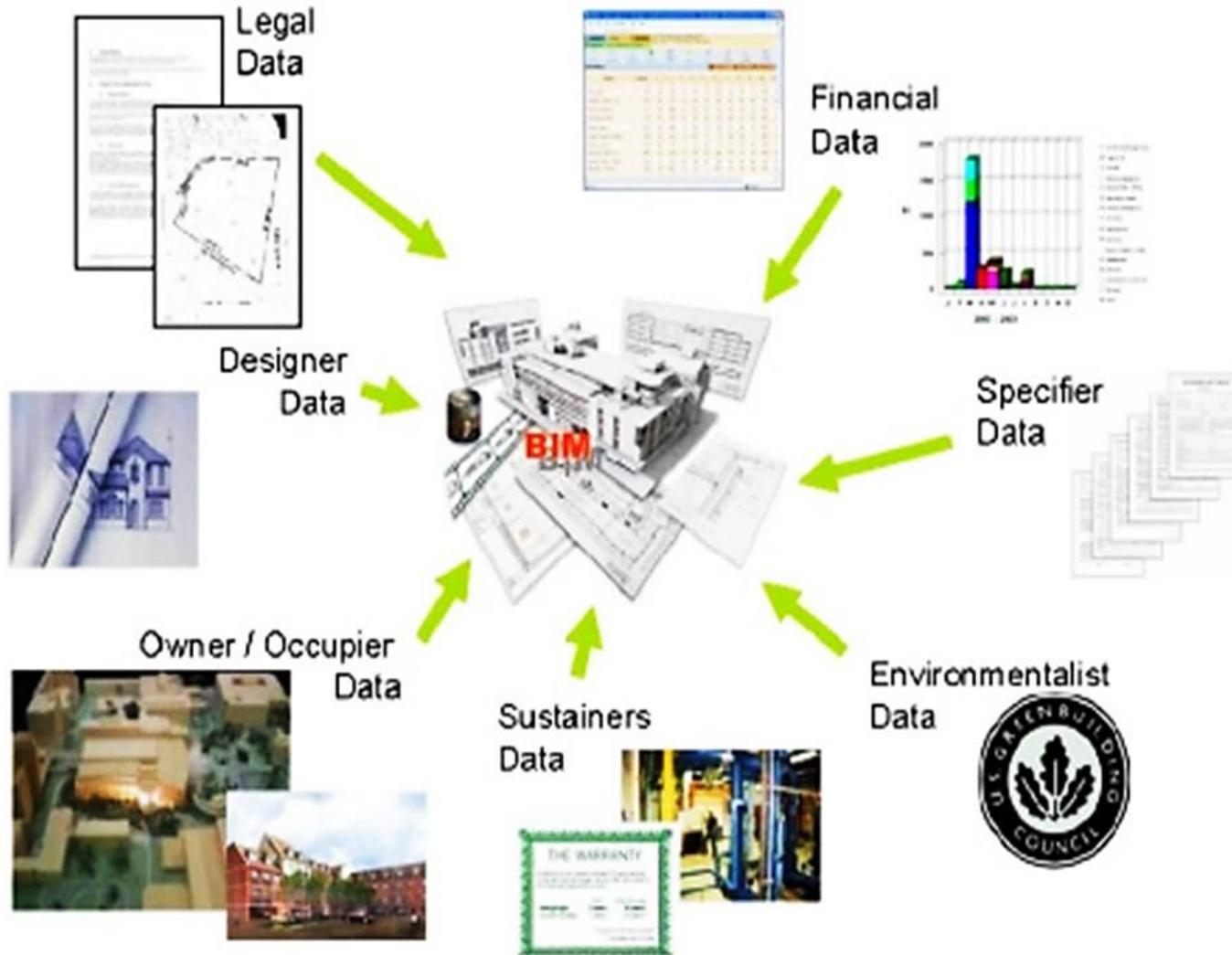
7D



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07. BIM & FM Control

7D

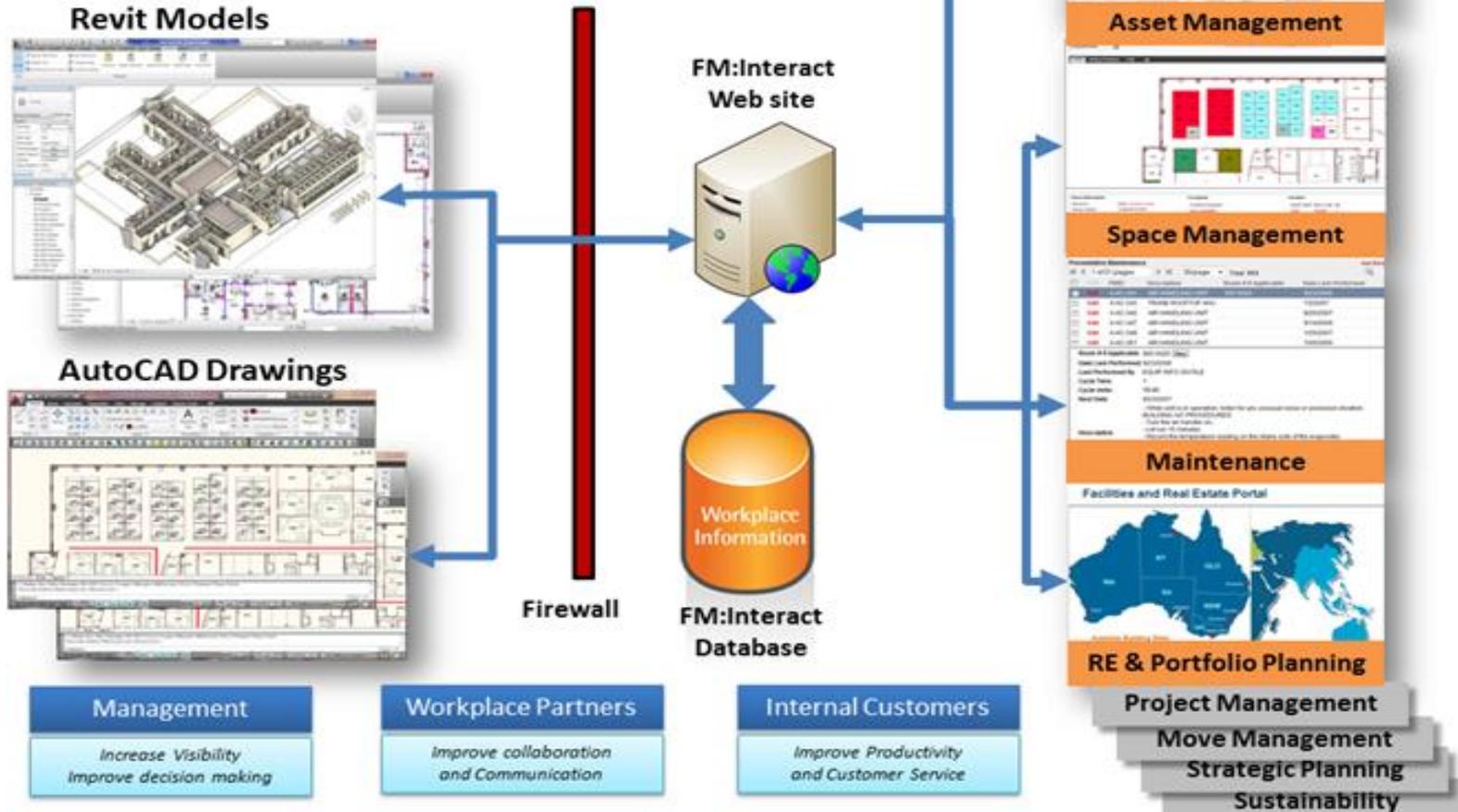


Best Strategies for Effective Project Control

07. BIM & FM Control

AST Advanced Systems Technology

FM:Interact Lifecycle BIM



7D



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07. BIM & FM Control

7D

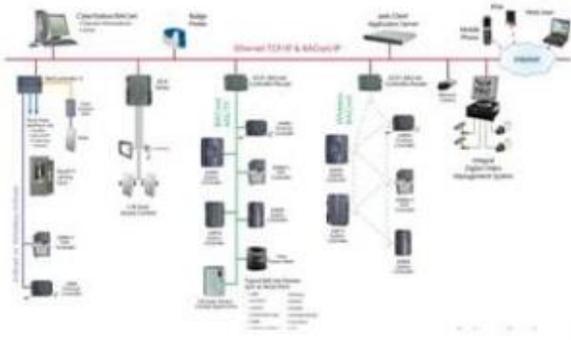
1. BIM Data



BIM for FM & BEMS

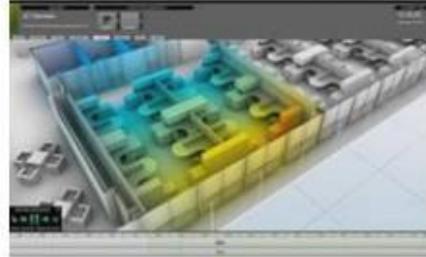


2. System Control Data



3. 1+2 = BIM Visualization FM

Modeling Data를 통한 3D GUI 화면
BES 시각화 Data를 통한 3D 화면
공간별 에너지 소비량, 온도, 습도, 환기량, 조명량 등
실시간 데이터를 통한 3D 화면
실시간 데이터를 통한 3D 화면



4. Augmented Reality FM

스마트폰을 통한 증강현실 시설관리



5. FM & BEMS Report



6. FM & BEMS Services



Best Strategies for Effective Project Control



08. Project Benefits

Reduced Transaction Costs

Reduced Staff

Enables Trans-Geographical Links

Reduced Storage

Enhanced Automation of Processes

Less Errors

Improved Information Control

Increased profits

Less Project Risks

Improved Forecasting

Improved On-site Safety

Reduced Construction Cost

Advance Procurement of Materials

Less Information Bottlenecks

Reduced Project Duration

Lower Change Orders



Reduced Material Costs

Improved Idea Sharing

Less emissions

Enhanced Integration of Processes

Better Output Quality

Enhanced Ability to Refer Back to Data

Lower RFIs

Improved Capture of Decisions

Reduced Re-work

Improved Communications



Best Strategies
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08. Company Benefits

Enhanced Staff Recruitment
 Better Market Access
 Lower Expenditure on Staff
 Better Claims Mitigation
 Less Service Works
 Process Re-engineering
 Improved Risk Management
 Better Process Automation
 Increased Profits

Enhanced Decision Making Accuracy
 Lower Material Expenditures
 Improved Data Availability
 Enhanced Knowledge Management
 Better Information Management
 Strategic Competitive Advantage
 Better Company Image

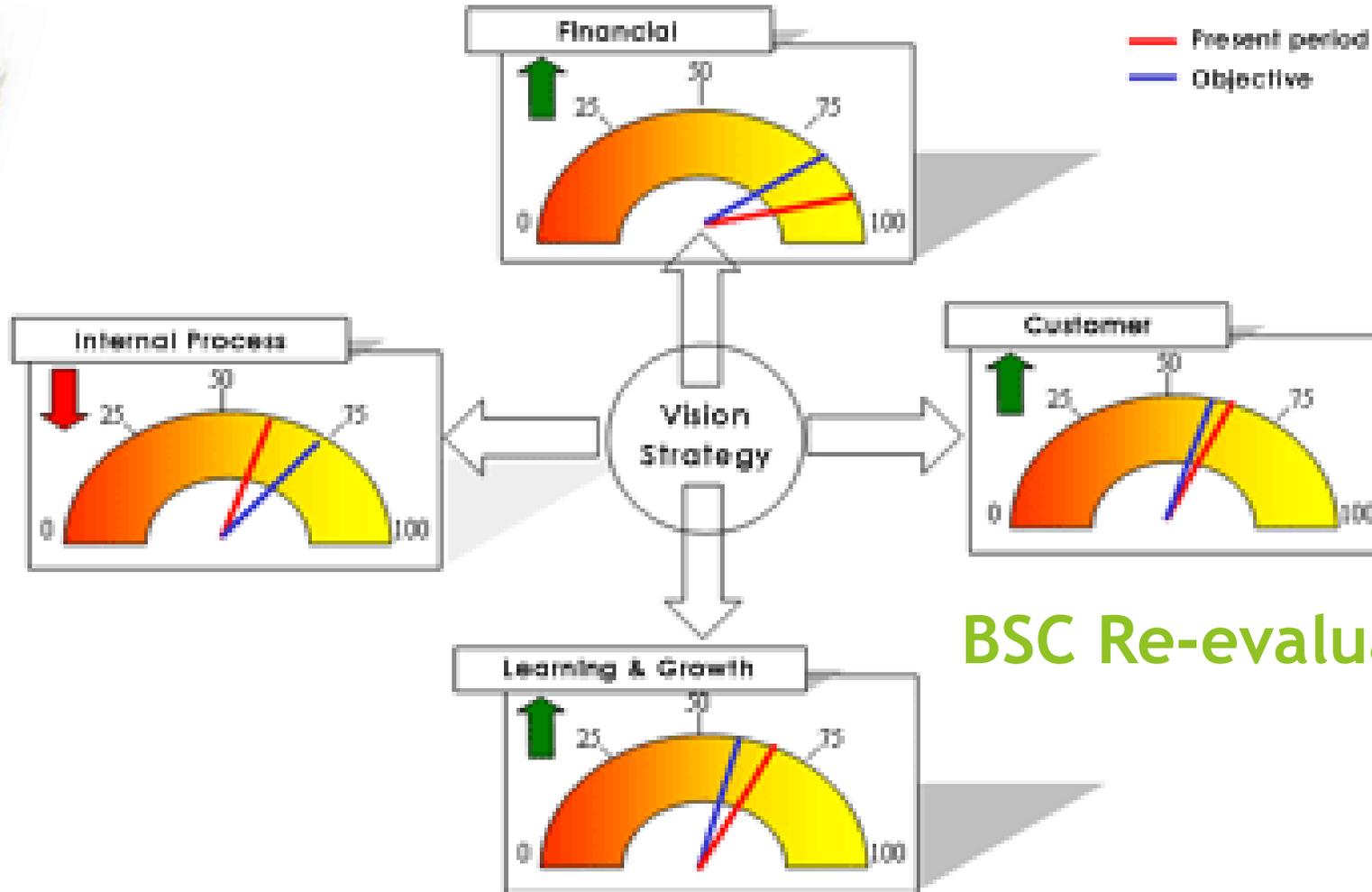


Lower Communication Costs
 Enhanced Forecasting
 Faster Reporting
 Maintain Businesses
 Timely Decision Captures
 Less Information Bottlenecks
 Enhanced Information Accuracy
 Improved Stakeholders Relations



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09. Success story



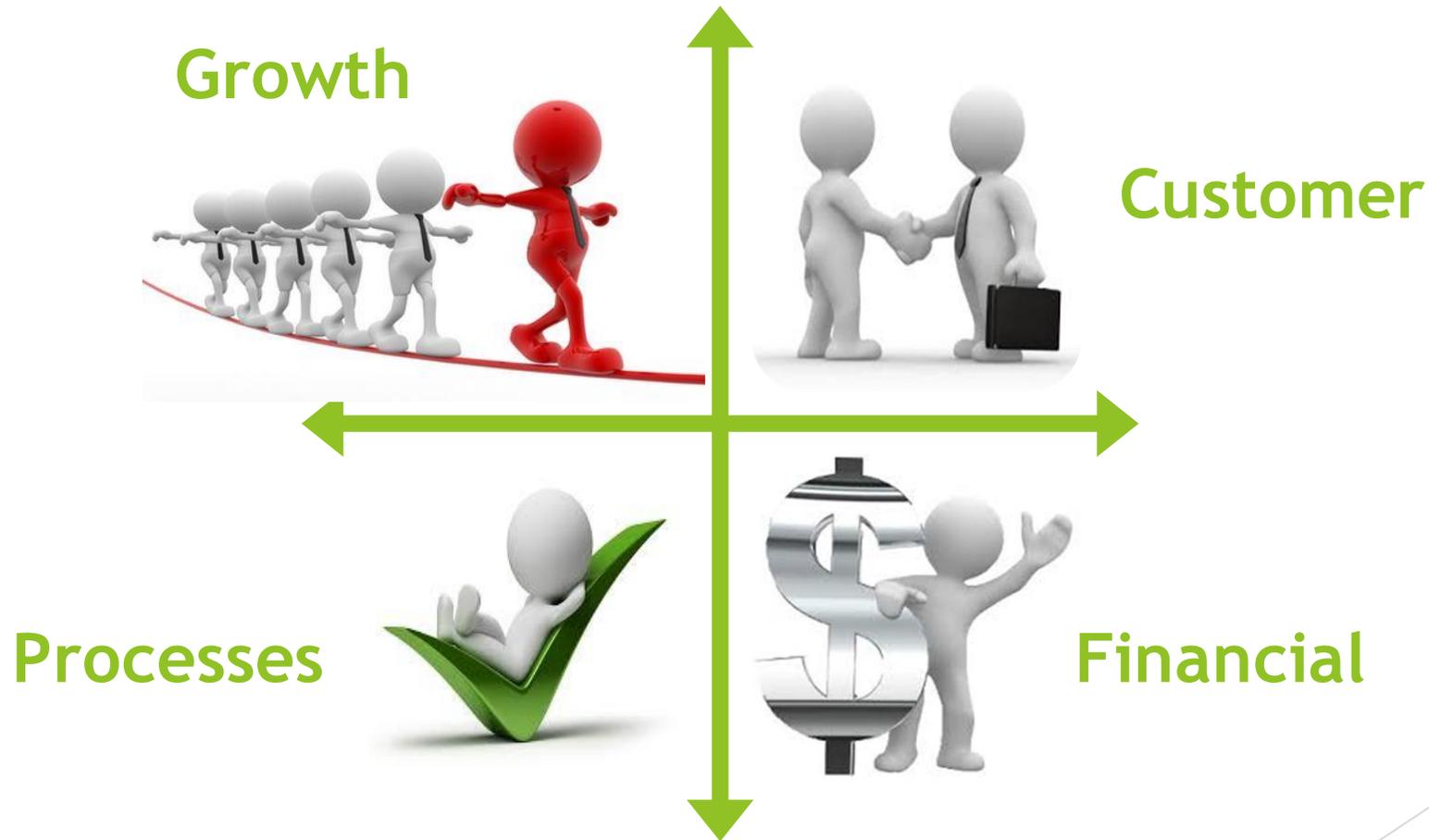
BSC Re-evaluation



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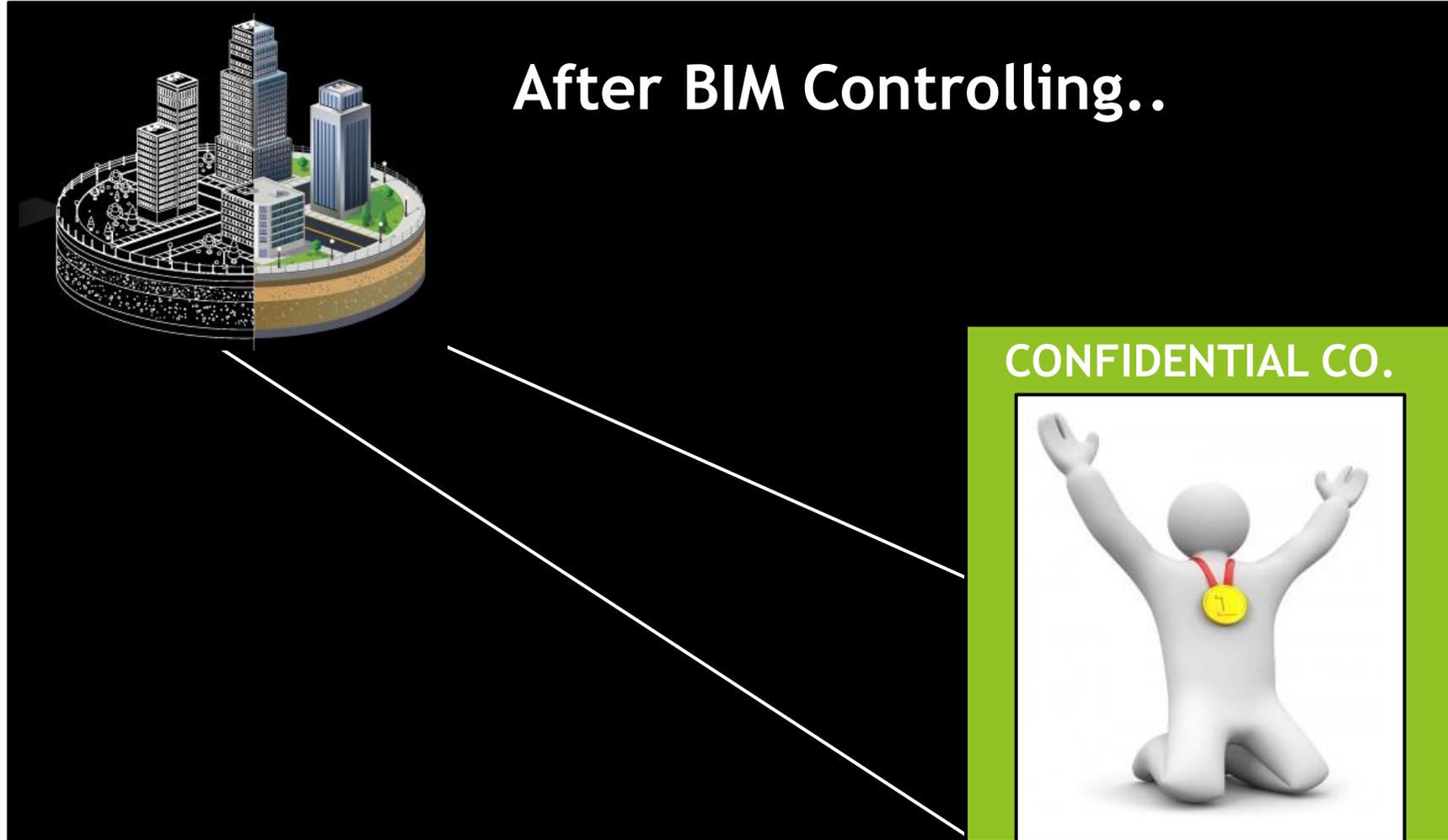


09. Success story



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09. Success Story



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10. Voting

Building Information Modeling

Is BIM a Project Management Control System?!

80%



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استبيان المشاركين

► Participant Poll #1

► هل تطبيق نمذجة المعلومات يساعد على النجاح في التحكم الفعال في مشاريعها؟

نعم / لا



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الاسئلة والاستفسارات

► اذا كان لديكم أي استفسارات يرجى التواصل علي الايميل:

Akramkram@yahoo.com



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شكراً لحسن المتابعة

من أجل التواصل يمكنكم الاسال إلى:

conference@eppma.org

فريق إعداد المؤتمر



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