



Technology Rules: Is it a good investment for Bond and Facility Program Management?

Panelists

- Sue Rearic, Vice Chancellor Business Services, Grossmont-Cuyamaca Community College District
- Penny McGrew, Program Manager, Gafcon Inc.
- Sean Olcott, Manager, BIM Services, Gafcon Inc.
- John Turner, Vice President, Marketing, Gafcon Inc.
- Yehudi Gaffen, CEO, Gafcon Inc.



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Agenda

1. Overview
2. Grossmont-Cuyamaca Community College District (GCCCD)
3. Program Management Perspective
4. Building Information Modeling (BIM)
5. Program Controls
6. Summary

GCCCD - District Overview

Two capital bond programs

- Proposition R - \$207 million 2002
- Proposition V - \$398 million 2012



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Technology - District Perspective

Two bond programs Prop R and Prop V

- Then: Program management system
 - Separate from GCCCD's system
 - Only accessible to program management
- Now: Program management system
 - Integrating planning and budget
 - Bids, contract documents, payments
 - Driven by workflows developed for GCCCD
 - Accessible by GCCCD staff



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Technology (continued)

Technology has enhanced our communications

- Citizens' Bond Oversight Committee
- Collaboration between district and colleges
- Public Website

Cash flow and bond issuance planning



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Program Management Perspective

Importance of Technology

- Reporting
- Oversight of all projects
- Scheduling and Planning
- Detailed Budgets
- Document Control
- Program Management Plan
- Storage of District Wide Drawings

The image displays two screenshots of the Gafcon software interface. The top screenshot shows the 'Districtwide Building and Utility Drawings' page, which includes a navigation menu, a search bar, and a list of drawing categories. The bottom screenshot shows the 'Gafcon Projects - Home' page, which displays project details for 'Gafcon Projects - Home' and a table of campus/site locations.

Bidding Participation Summary
 Cuyamaca College Parking Lot/Roadway Repair
 April 16, 2015

Of the seven respondents, five are verified small/underutilized businesses which represents 71 percent of bidders. Three of these firms possess multiple certifications. These firms are reported as the certification it holds that is most difficult to obtain.

Certification	Number of Bidders
Small Business Enterprise (SBE)	2
Disadvantaged Business Enterprise (DBE)	3
Total Small/Underutilized Business	5
Large/Other Business Enterprise	2
Total	7

Of these same seven respondents, all are local firms with businesses located within San Diego County, and two of these are considered to be East County firms located within the District's boundaries.

Location (GCCCD Boundaries)	Number of Bidders
East County (GCCCD Boundaries)	2
Local (San Diego County)	5
Total Local Business	7
Out of Area	0
Total	7

The bottom screenshot also shows a table of campus/site locations:

Campus/Site Number	Campus/Site Name	Address 1	City
1	Grossmont College	8800 Grossmont College Dr	El Cajon
2	Cuyamaca College	900 Rancho San Diego Parkway	El Cajon
3	District Services	8800 Grossmont College Dr	El Cajon
4	District Wide Tech Services	8800 Grossmont College Dr	El Cajon
5	Program Management	8800 Grossmont College Dr	El Cajon
6	Program Costs	8800 Grossmont College Dr	El Cajon
7	Program Reserve	8800 Grossmont College Dr	El Cajon



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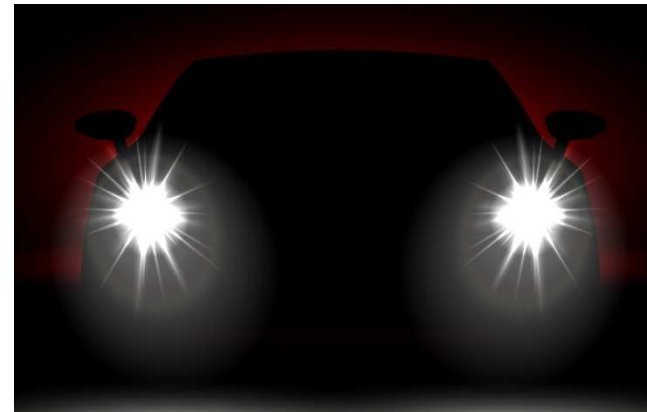
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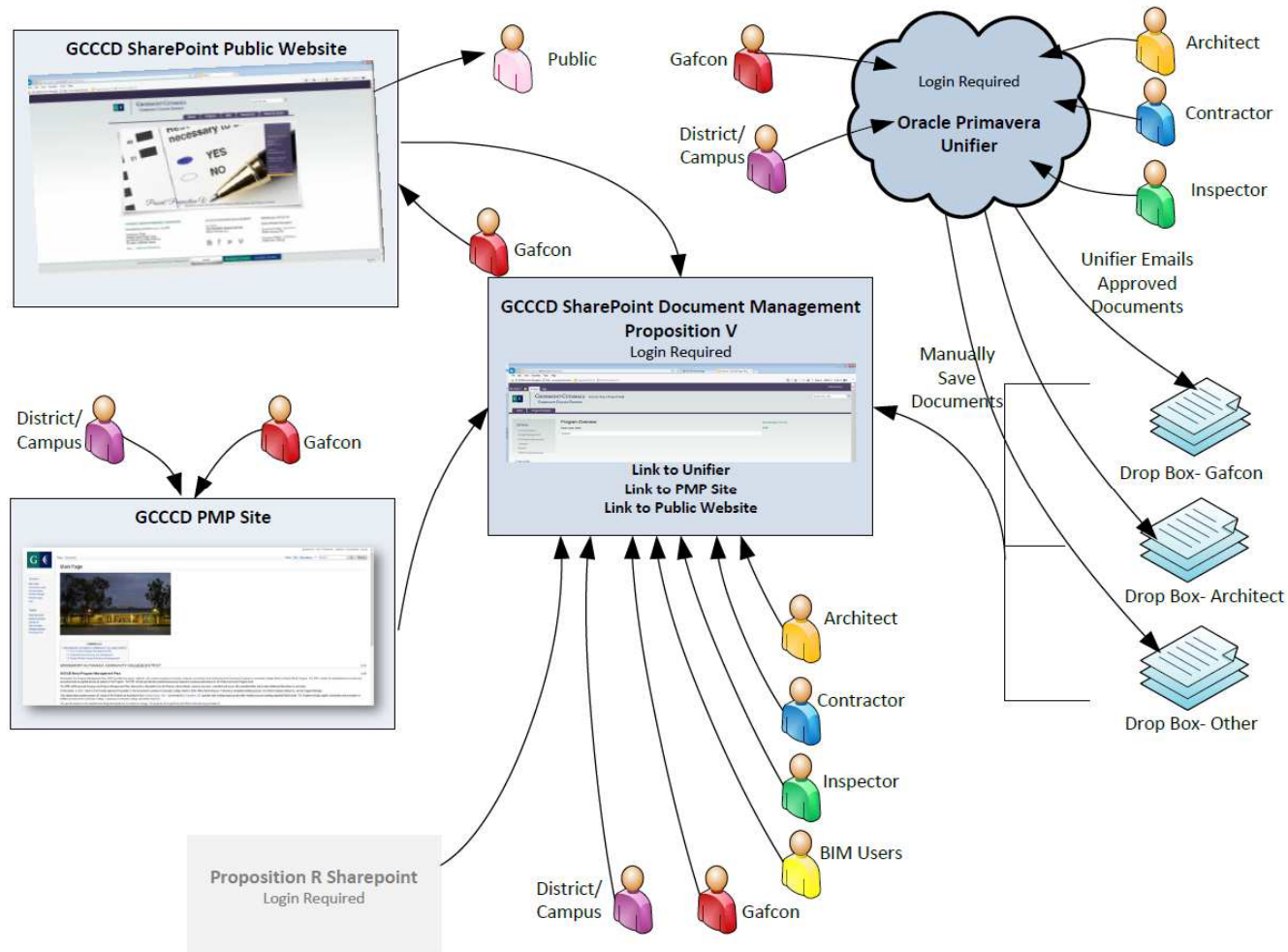
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Program Management Perspective

- Headlights
 - Program Budgets
 - Monitor Project Lifecycle
- Taillights
 - Reconciles project activity to FY accounting
 - Budgets
 - Actuals
 - Fiscal Reporting
 - Fiscal Audits



Program Management Perspective: Collaborative Use

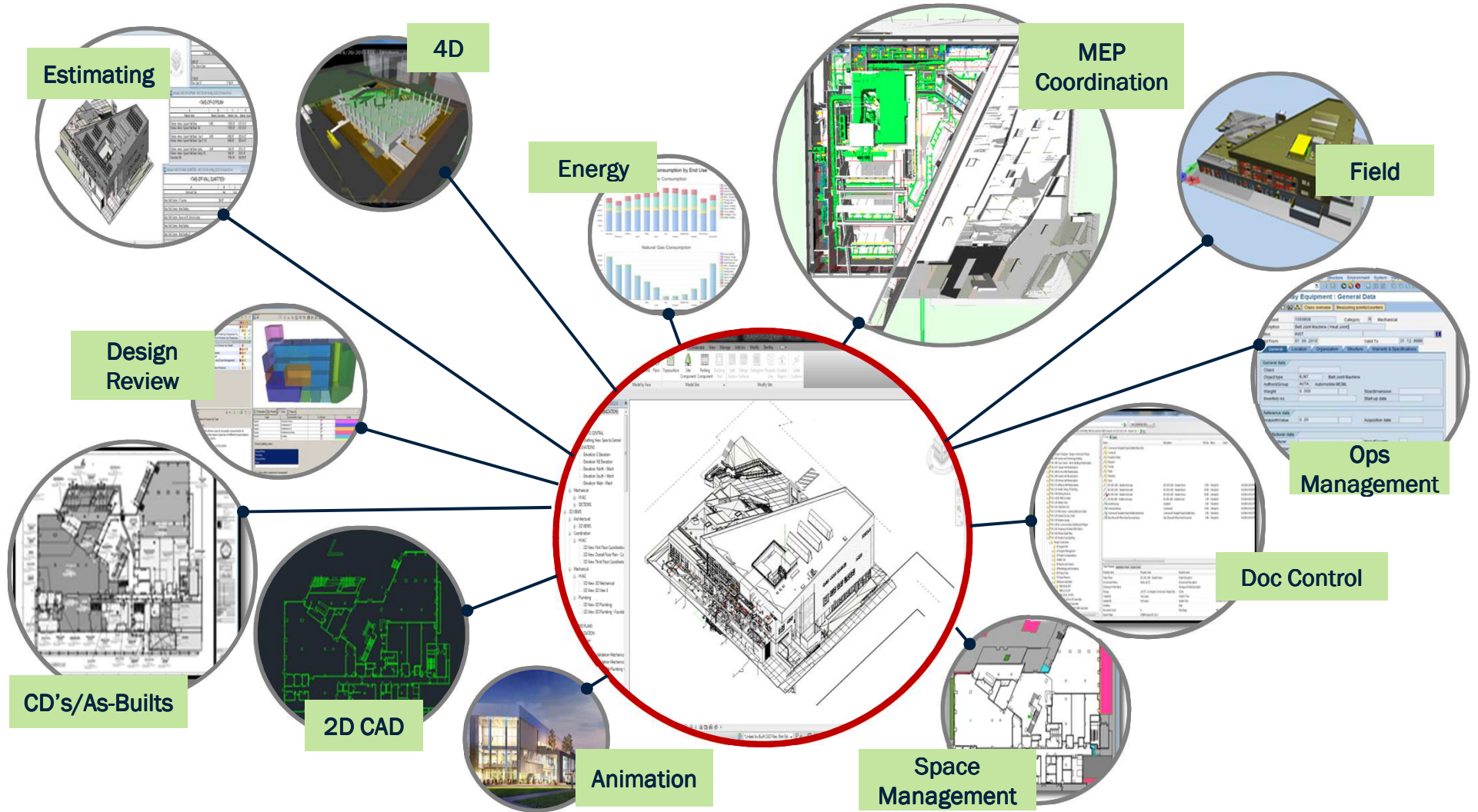


BIM - What is it?

"BIM is a *digital representation* of physical and functional characteristics of a facility. As such it serves as a shared knowledge resource for *information* about a facility forming a reliable basis for decisions during its *lifecycle* from inception onward."

-National BIM Standards

BIM



BIM Benefits

Design

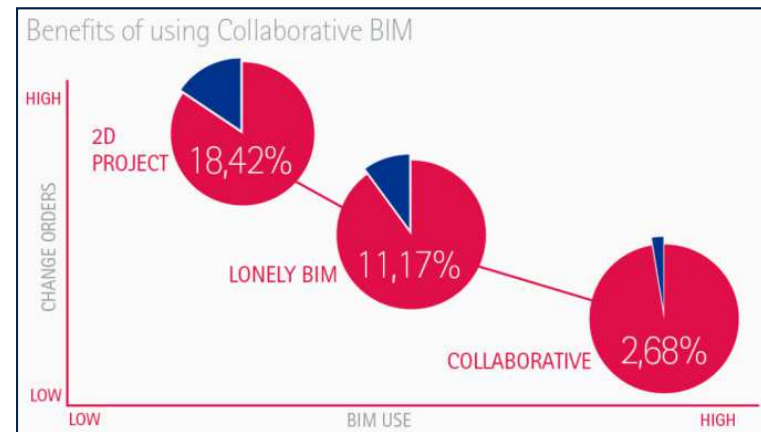
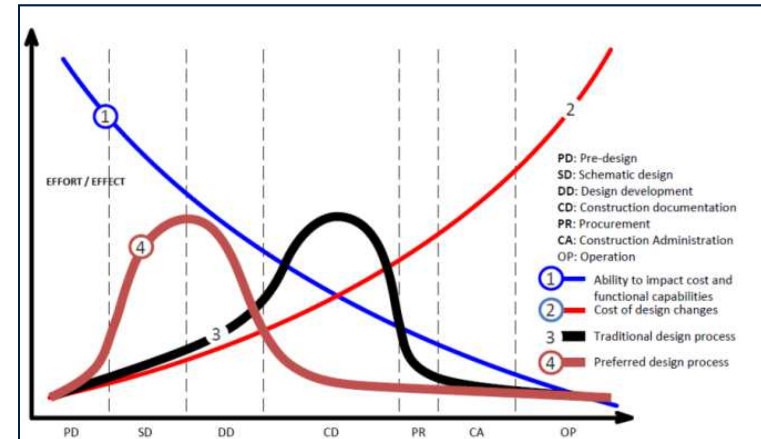
- Better visualization of design
- Resolve coordination issues in design
- Expedite design process: Drawings, Plan Checks, Permits
- Get better bids

Construction

- Better trade coordination
- Reduced schedule and cost risk
- Better project planning
- Improved project controls

Operations

- Better building commissioning process
- More efficient project closeout
- Improve operational performance in facility lifecycle

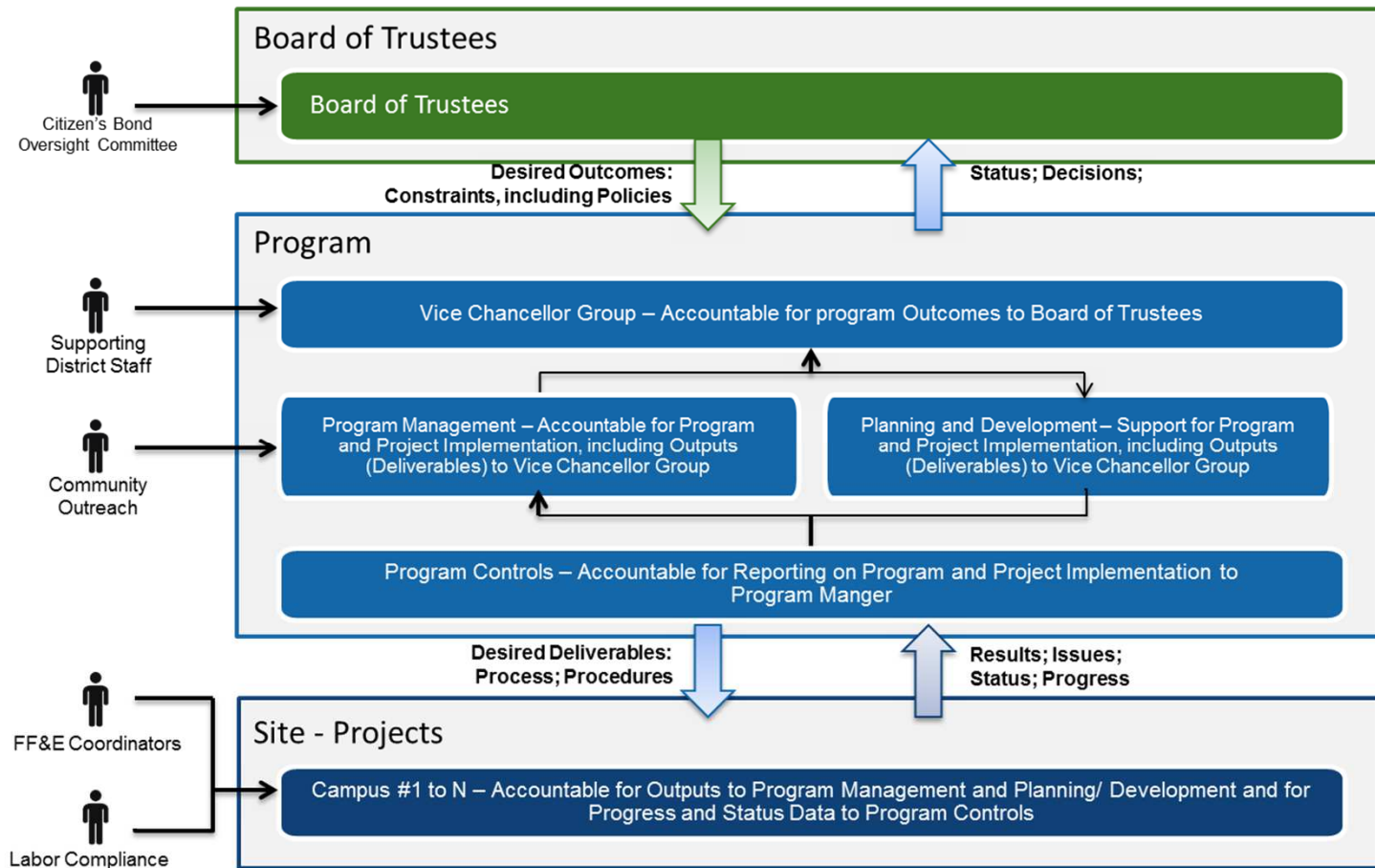


BIM Example

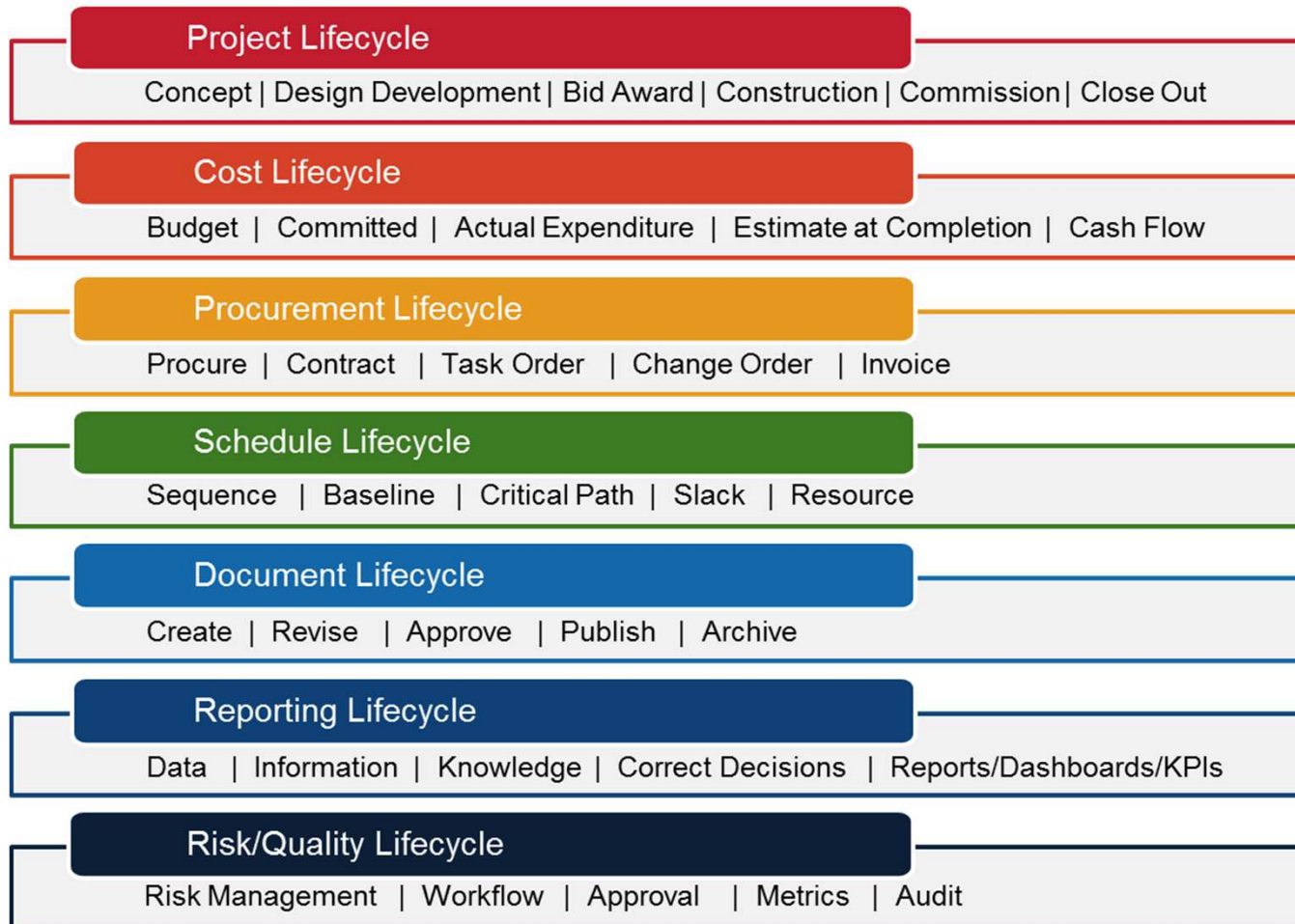


Program Controls:

Accountability, Communication, and Transparency - SDCCD



Program Controls: Project Perspective



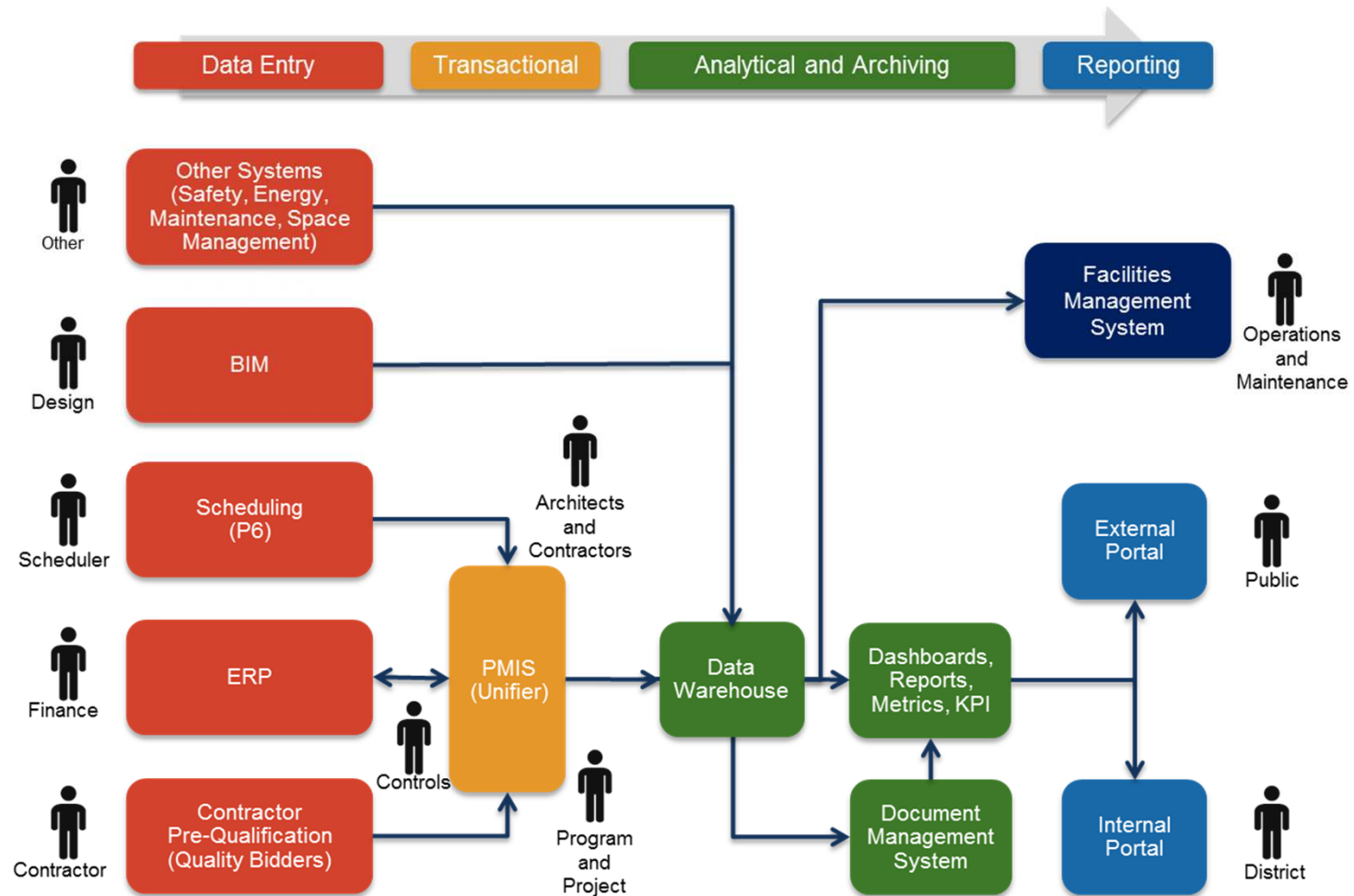
Program Controls: Lessons Learned

- There is no “one size fits all” solution but there is substantial commonality
- Technology is not the problem
 - The processes must be understood and documented (PPMP)
 - The interaction of people with process is the cause of most issues
 - Technology enables the process – if the process is bad problems will pile up faster

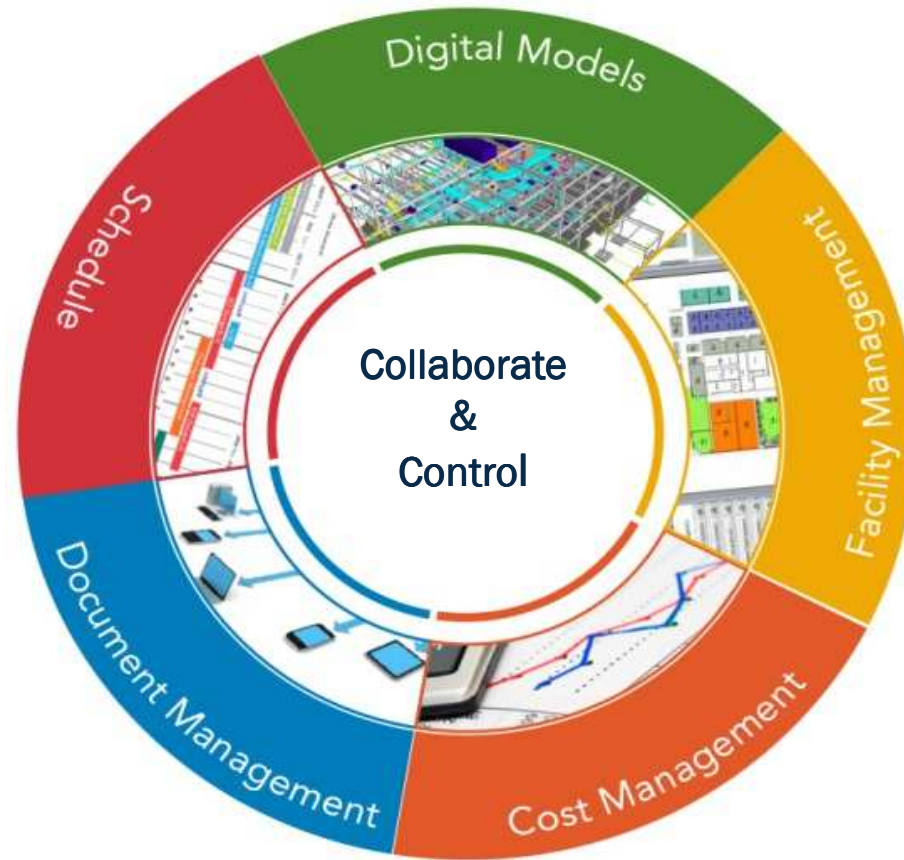
Return on Investment

- Production efficiencies increased by 23%
- Change orders reduced by 48%
- Cost overruns reduced by 20%
- Contractor costs reduced by 15%
- Delivery time to value (bond payments) 10%
- Claims reduced by 16%
- Clean audits with elimination of rework (100%)
- Happy stakeholders (quality of delivery)
 - What is your reputation worth?

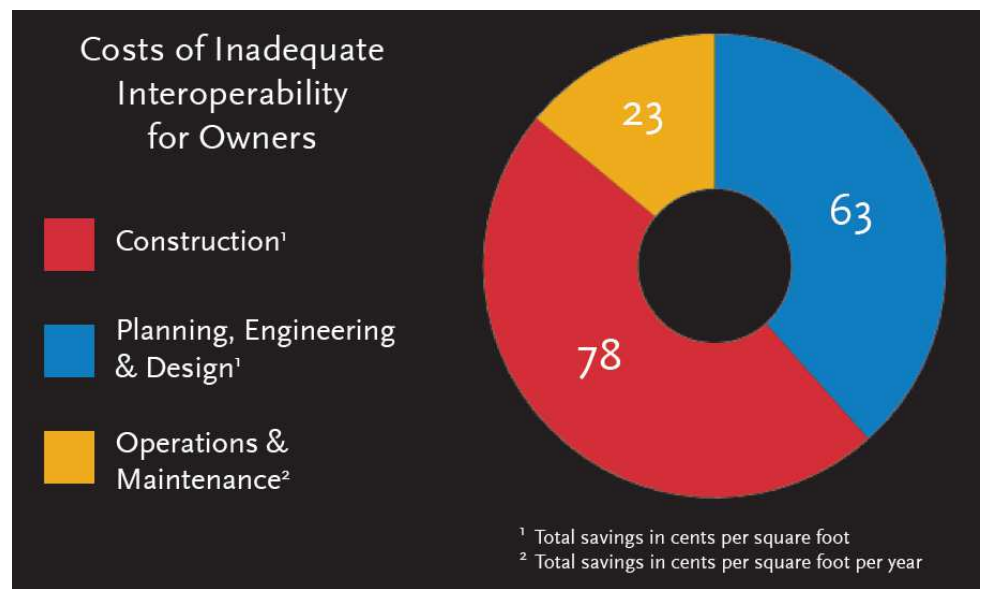
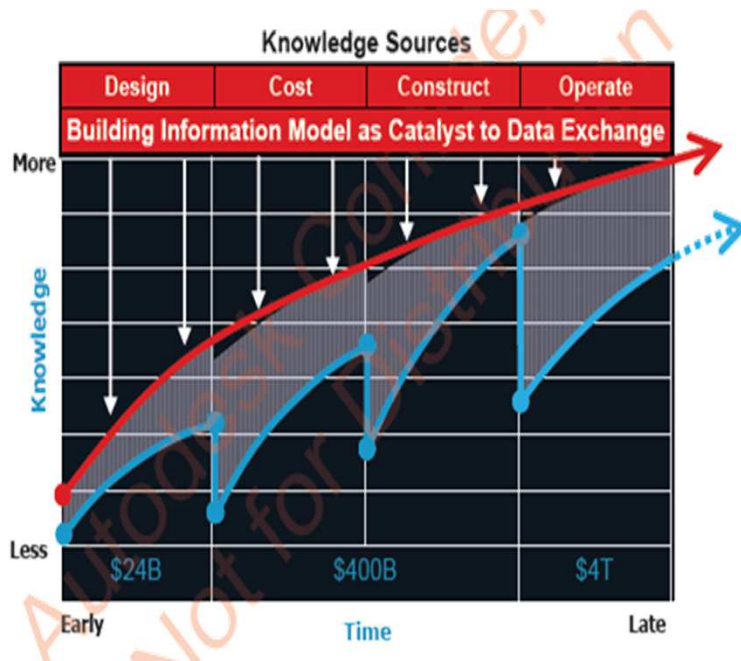
Summary

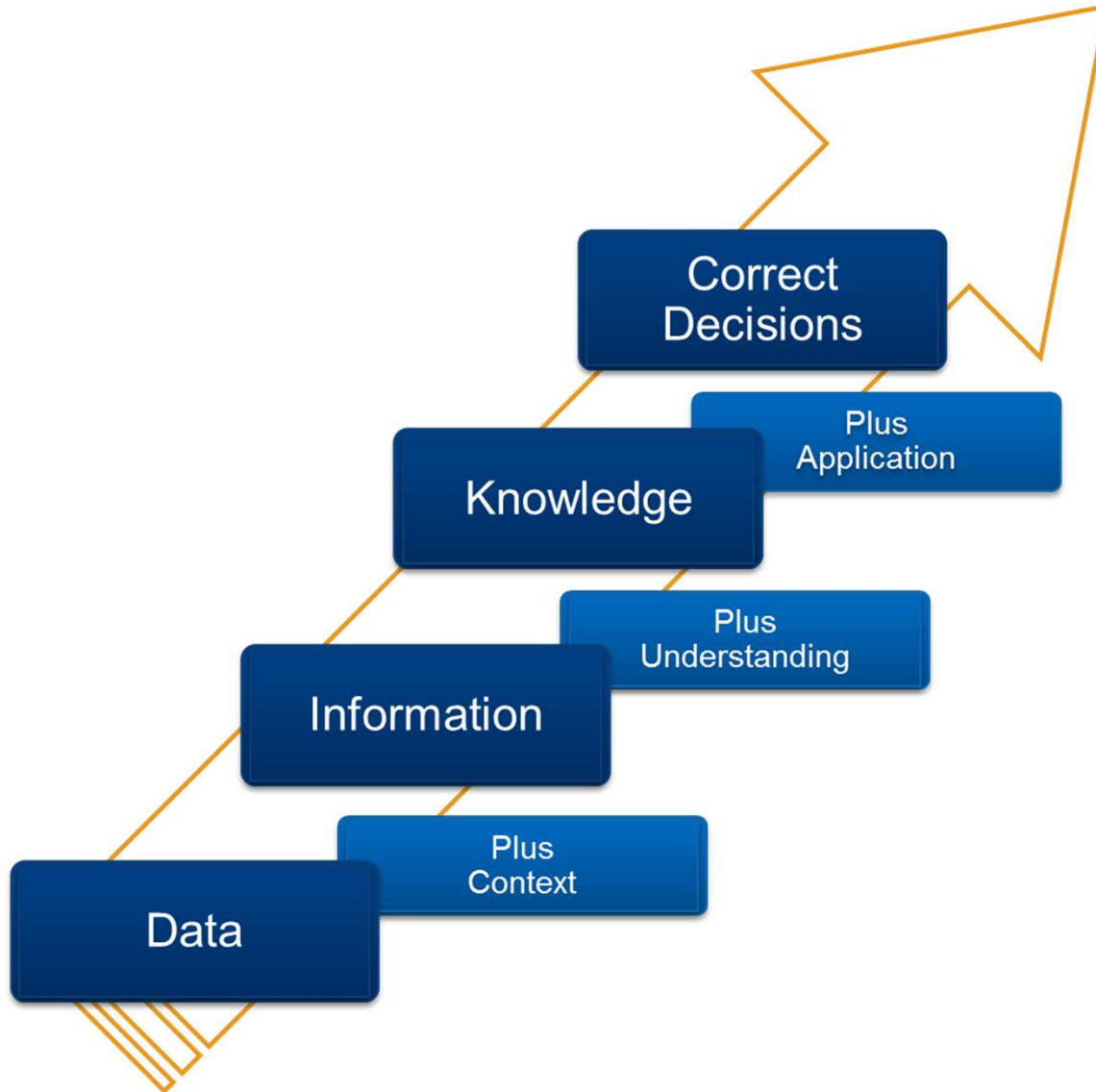


Lifecycle



Cost Savings of Interoperability





Conclusion

- Technology Rules - Is it a good investment for Bond and Facility Program Management?
- Questions for the Panel



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