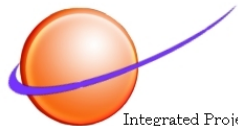


Managing Design in an Integrated Process

The Art & the Science

Welcome



Integrated Project Delivery

DB-Ready Team

aml technologies



**california center for
construction education**

the educational resource for design & construction



Brought to you by-



- **Cal Poly State University - SLO**
 - Qualifies for 14 hrs of CEU's from Cal Poly
- **Design-Build Institute of America**
 - Qualifies for 14 hrs of elective credit toward certification
 - Qualifies for 14 hrs of continuing education credit toward maintaining certification

CAL POLY



california center for
construction education

An outreach organization to support the educational needs of the AEC industry



At Your Service...



Barbara Jackson, PhD, DBIA
Director, California Center
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Cal Poly State University
San Luis Obispo, CA



John Steele, PhD, PE
ADePT Management
AML Technologies
Carlsbad, CA

aml technologies



Workshop Agenda

- DAY 1

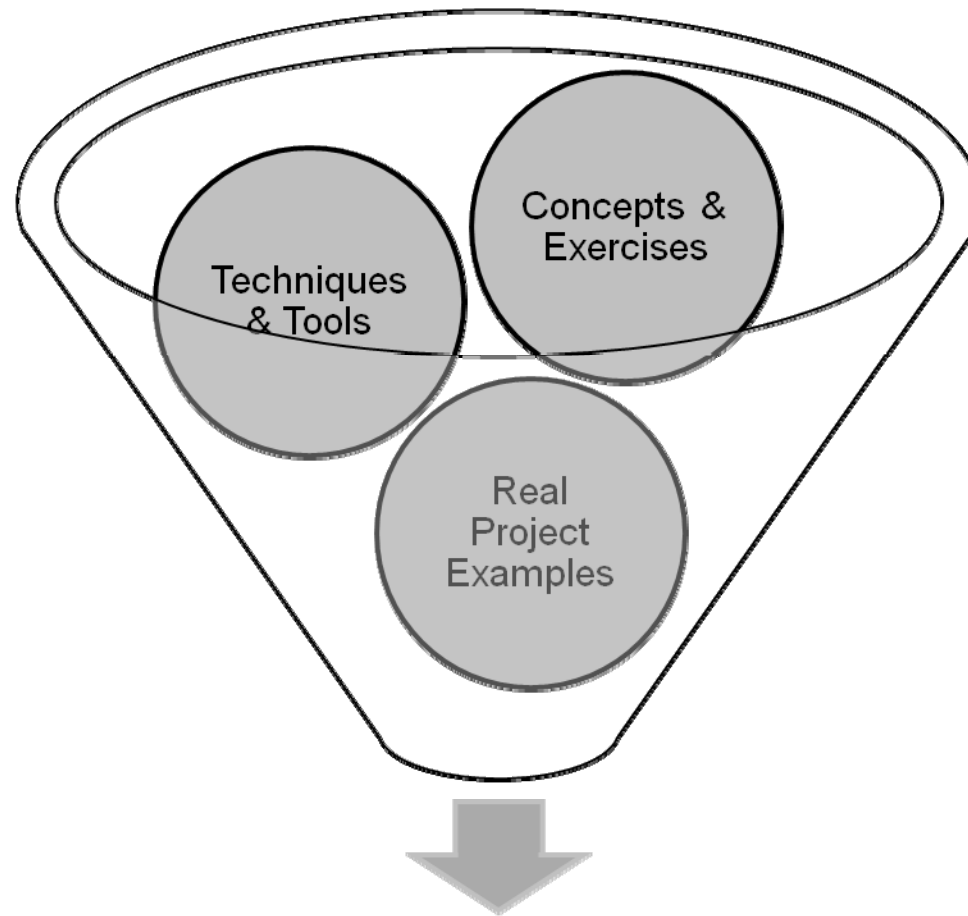
- Welcome & Introductions
- The Integrated Project Process Framework
- Proposal Stage
 - Team Focus & Alignment
 - Defining Design Value
 - Design Commitment
 - Cost Model Commitment
- Post Award Stage
 - Design Validation
 - Developing Integrated Design Work Plan

- DAY 2

- The Integrated Design Work Plan (cont)
- Design Phase
 - DB Process Control
- Design Reconciliation
 - Design Construct Interface
 - Design Value Interface
 - Design Performance Interface
 - Design Cost Interface
- The Integrated Project Team
 - Team Organization & Leadership
- The Way Forward
 - Developing an action plan for you



Workshop Format



An Integrated Workshop



The Need for Design Process Management

- Increase in use of alternative project delivery
 - Design-Build
 - CM-at-Risk
 - Integrated Project Delivery
- All have one thing in common
- Architect & Contractor MUST align objectives to best serve their client
- Architect (or Engineer)
 - Holds all the cards regarding design
 - Small \$\$\$ investment for the client
 - HUGE impact on project performance for years
- Contractor
 - Holds stewardship of the clients money
 - Large \$\$\$ investment for the client
 - HUGE opportunity to influence design



The Need for Design Process Management

- **Construction**

- Construction Cost
 - Standard practices in place to manage
- Construction Schedule
 - Standard practices in place to manage
- Construction Quality
 - Standard practices in place to manage

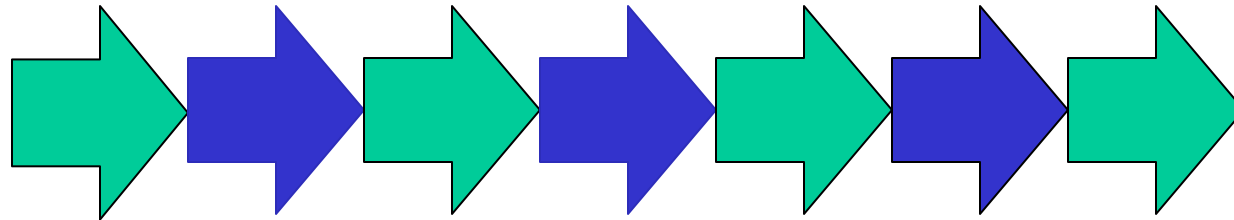
- **Design**

- Design Cost
 - No standard practices in place to manage
- Design Schedule
 - No standard practices in place to manage
- Design Quality
 - No standard practices in place to manage

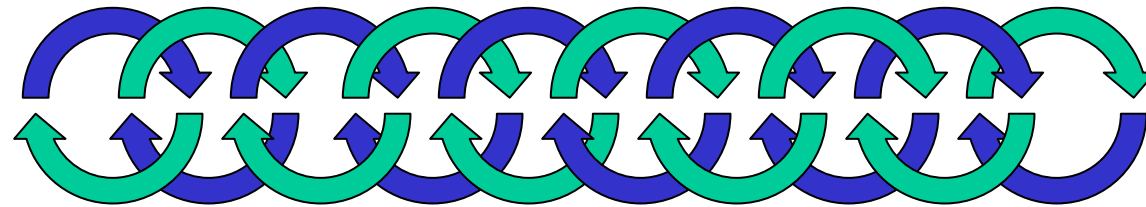
54% of all DB projects led by contractors



Two Distinct Functions



Construction Process - Sequential



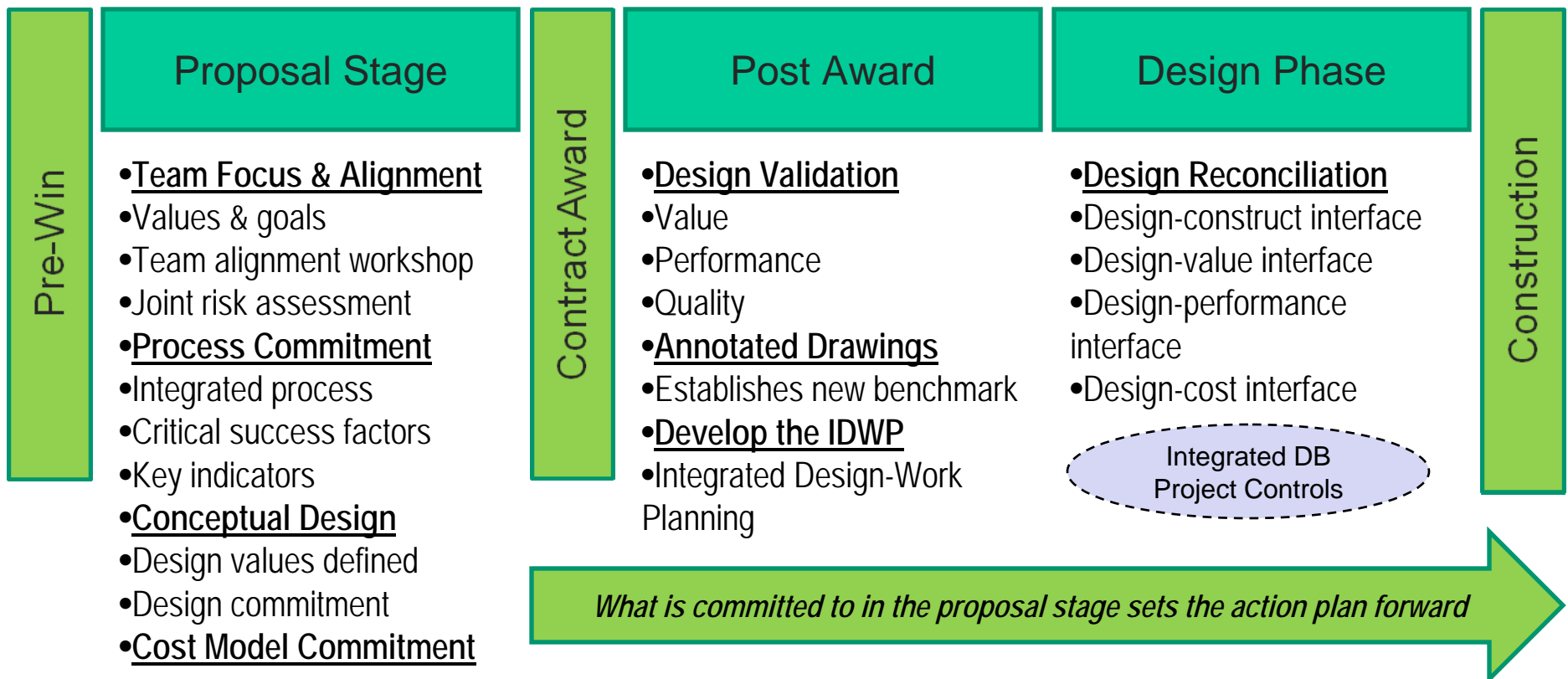
Design Process - Iterative

Must Manage as an Integrated Process



The DB-PM Frame Work

Integrated Project Leadership



Integrated DB Process Control