

### The Leadership Imperative

- Common denominator for all integrated project approaches
  - The expectation for the team to act "AS ONE"
  - Capturing the "collective knowledge and expertise of the multi-discipline perspective
  - To deliver comprehensive, integrated solutions



### Tall Order for This Industry

- Traditional mentality of segregated services
- · Low bid environment
- Short term thinking
- Isolated and independent perspectives
- Competing agendas

### **Busted Process and Approach**

- Design-Bid-Build and the Low Bid mentality that it embraces, drives distrust and conflict
- 70% of construction projects finish late and over budget
- Up to 50% of the cost of projects is consumed in inefficiencies and waste
- These inefficiencies and waste adds \$500 BILLION of unnecessary costs to projects every year



### **Answer**

# Perhaps none of the above...

### Who is Best Qualified to Lead the Teams

- Contractor, architect, or engineer credentials do not prepare you for leading multi-discipline teams with different skills and motivations...
- If all any one discipline can contribute is there single discipline perspective:
  - Won't be able to develop integrated solutions
  - The project will suffer
  - The owner will sacrifice achieving the full potential that design-build offers

# Tug-a-War Approach to Project Leadership

- Each individual discipline presses for its own viewpoint and agenda:
  - Architects press for enhanced design, while discounting budgets and schedules
  - Contractors press for budgets and schedules, while discounting design enhancements



**Owner wants it ALL!** 

### Tug-a-War Approach to Project Leadership



- Power struggle begins
  - Each party feels threatened by the other
  - It becomes a clash as to whose point of view wins
- The "viewpoint" of the discipline "leading" the team will typically trump all the other viewpoints

### What the Owner Gets

- Such discipline bias results:
  - Compromised solutions
  - Missed opportunities
  - Inefficiencies
  - Waste
- Traditional design-build produces better results than DBB...
- But who wants good when you could have GREAT!



### **Project Leadership**

- The Owner is the ultimate leader of the project...
  - Sets the goals, objectives, program, and purpose for their projects
  - Indeed, owner would plan, design, construct, and commission their projects by themselves...
  - But they can't!

### So they hire us...



- 56% Contractor-led
- 12% Designer-led
- 27% Integrated Firms

56% of all DB projects are "led" by contractors

### New Mental Model for Leading Project Teams

### The Integrated Project Leader

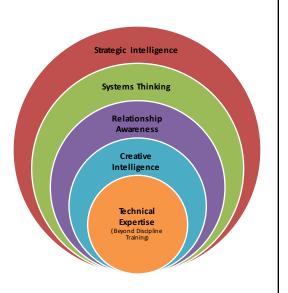


- A uniquely qualified and able individual
- Much more than a CM, PM, or DM
- Should be identifiable in the marketplace as a distinct professional
- An IPL MUST be more

# What do they have that I don't have?

- Management Doing things right
  - Deals with the HOW
  - Mitigates risk
- Leadership Doing what's right
  - Deals with the WHY
  - Accepts risk

### **Great Question!**



### Integrated Project Leadership

What Does an IPL Need to Know?

#### Process Part

- Technical competencies beyond discipline expertise that *support* collaboration and integrated problem solving
- Must have competence in the tools and techniques to manage the design and construction as an "integrated" process

#### People Part

- Affective skills and talents that *inspire and enable* collaboration and integrated problem solving
- Must move the team members from compliant (or defiant) participants to willing collaborators
- Responsible for creating a shared vision and identity

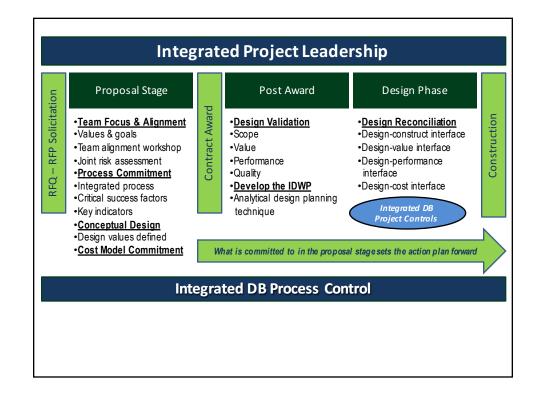
# IPL Competencies Process Tools and Techniques

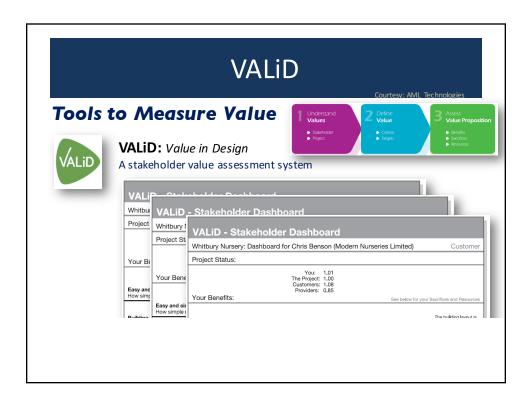
#### **Design Management Tasks**

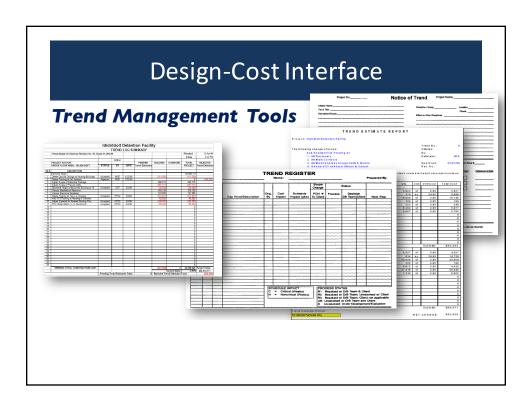
- Design-Value Interface
- Design-Cost Interface
- Design-Schedule Interface
- Design-Construct Interface
- Design-Performance Interface

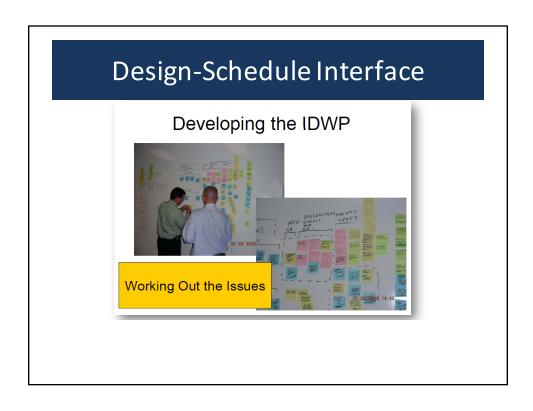
#### **Design Management Tools**

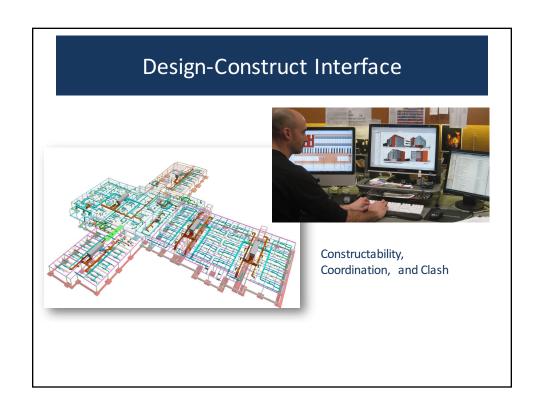
- VALiD (Value in Design)
- · Trend Management
- ADePT (Analytical Design Planning Technique)
- BIM (clash detection, subcoordination, etc.)
- BIM analytics



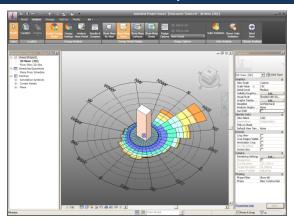








# Design-Performance Interface BIM Analytics



### Other IPL Competencies

**Process Tools and Techniques** 

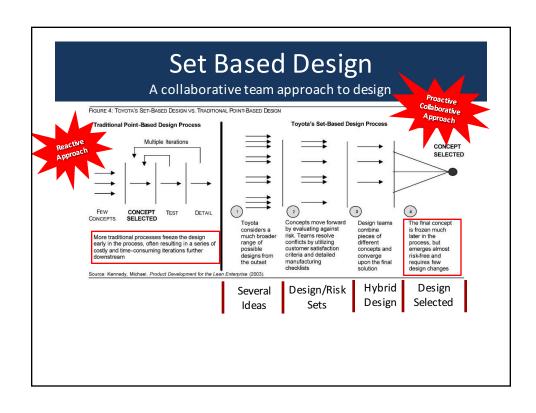
- Lean Philosophies & Practices
  - Last Planner for design and construction planning
  - Set based design
  - Target value design
  - The Big Room (co-location)

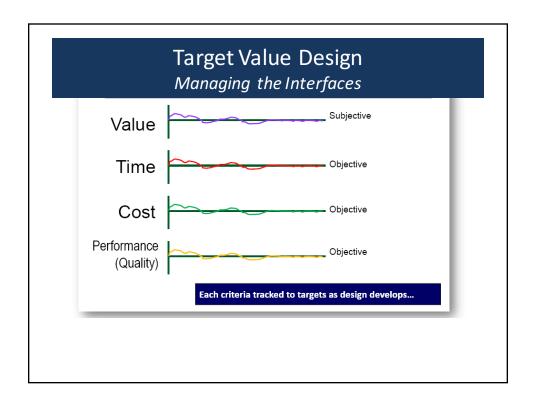


### Lean Principles

- Customer defines value
- Waste and inefficiency is bad
- Can't manage what you can't see
- Continuous improvement
- Respect for people

Right process will produce right results





### Target Value Design

- In Design-Build Done Right:
  - Rather than estimating based on a detailed design, we design based on a detailed estimate (cost model)
  - Rather than evaluate the constructability of a design, we design for what is constructible
  - Rather than make design decisions alone and then come together for group reviews and reactions, we decide first together...then commit and design to those decisions

# Thinking Together Out Loud BEFORE Beginning Design









# IPL Competencies Affective Skills and Talents

- Making the Mental Shift
- Emotional Intelligence
- Genius of AND
- Getting the right people on the bus
- Relational or alliance contracting
  - Gain/Pain sharing

- Communication
  - Cascading communication
  - Team talk
  - Reliable promising
  - Committedlistening/speaking
- Commitment management

**Getting Past the Barriers** 

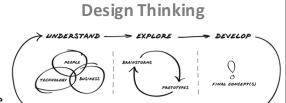
# New and Necessary IPL Competencies



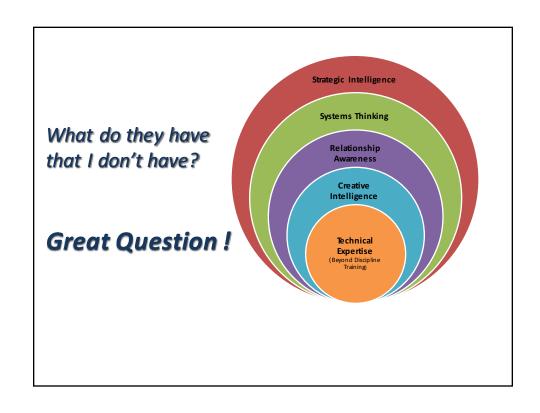
### Creative Intelligence

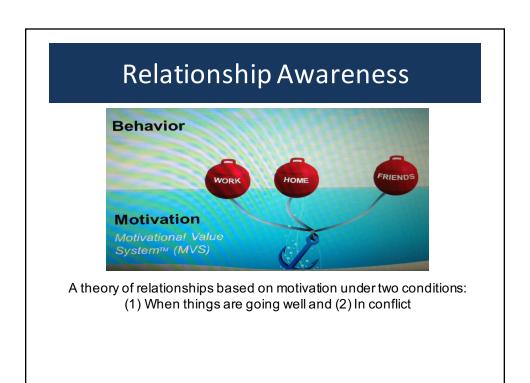
(Some Call Design Thinking)

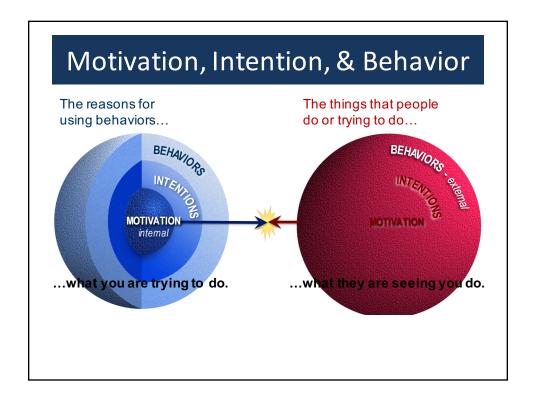
- Ability to use "creative process" to anticipate and access added value
- Understanding the interdisciplinary problem solving process
- Leveraging the collective knowledge, expertise, and experience of the team



**Collective Genius** 







### Benefits to DB Teaming

- Leader able to distinguish between behavior and motivations
- Leverage each team member's motivation value system (MVS)
- Ability to "borrow" behaviors to support your motivations
- Understand conflict sequences and triggers

### **Opposition VS Conflict**

#### op'po•si'tion

Resistance, contradiction, contrast, differences...

#### does not necessarily equal

#### con•flict'

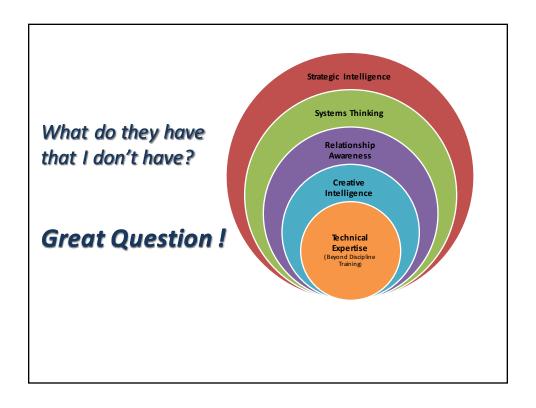
A sharp disagreement or collision in interests, ideas and/or principles... resulting in emotional disturbance...

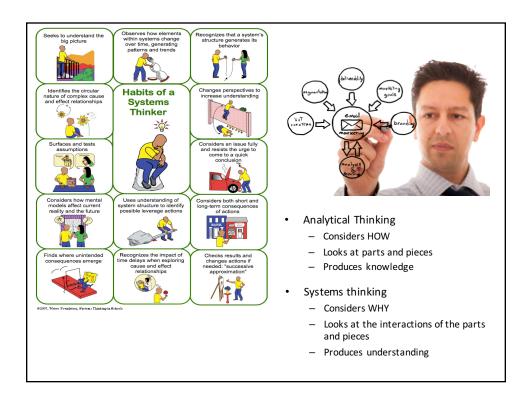
Some of the most creative ideas come from the synergy of opposition.

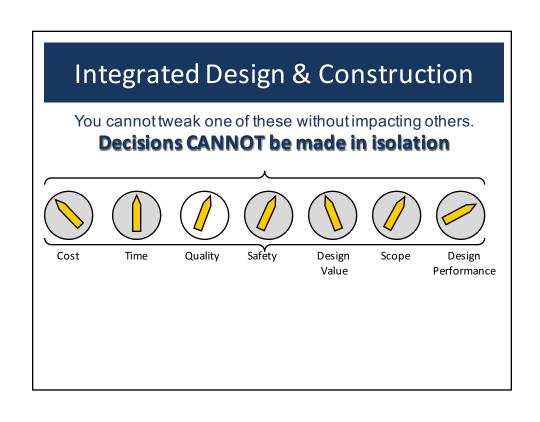
When a person's sense of self-worth is perceived to be threatened or at risk. Being Aware of People's Motivations and How They Change (in conflict) is an Important IPL Leadership Competency

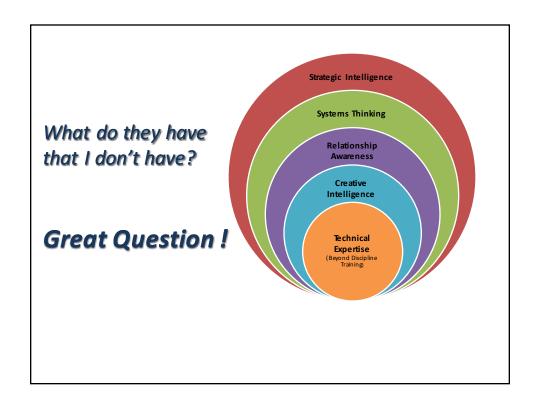
Every human being has an inner sense of worth, of importance, of dignity. Wound that and you have lost that person forever.

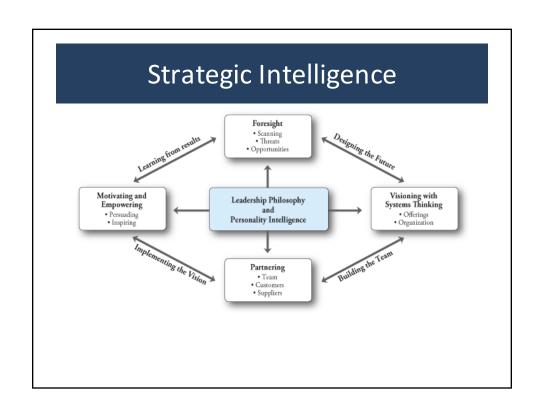
Dr. Norman Vincent Peale











### Leadership Philosophy

- · Includes at least four elements
  - Purpose
    - Describes where and why you are leading Should be meaningful to all
       Bill Gates "Improving the way people work"
  - Ethical and moral reasoning
    - · Being ethical is essential to building trust
  - Practical values
    - What it takes to achieve purpose "Collaboration"
  - Definition of results
    - More than financial results
    - What else do you measure?

Takes time to develop a leadership philosophy

### Personality Intelligence

The ability to understand people

- Three elements
  - Understanding how people are motivated similarly to others raised in the same culture (social character)
    - Considered as the shared part of personality of people brought up in a similar way, shaping behavior and emotional attitudes
  - Understanding how people are motivated similarly to others who share a similar system of motivations (personality type)
  - Understanding how individuals are uniquely motivated by the meanings they give to their motivations and relationships (identity)

### Interaction Between Leaders and Followers

- One irrefutable definition of a leader: "Someone people follow"
- · Leaders are most effective when they and their followers become collaborators who share a common purpose
- Leadership relationship exists within a context

### **Social Character**

- Industrial Bureaucratic Knowledge Interactive
  - Inner-directed, exacting
  - Values loyalty, stability, work experience, and expert job knowledge
  - Leadership hierarchies
  - Likes highly structured roles
  - High control methods

- - Other-directed
  - Independent and collaborative
  - Innovative
  - Expects continual change, not loyalty
  - Often come from single parent families

### Social Character

- Leadership in a new context Two main factors
  - The challenges facing a leader (the stuff)
  - The values and attitudes of those being led (people)
- Related to changes in modes of production
- The change from industrial work to knowledge work requires a change in the:
  - Dominate mode of production
  - · The way work is organized
  - The tools we use
  - · The skills and relationships required for effectiveness and efficiency
  - And the requirements of the leadership role

### **Social Character**

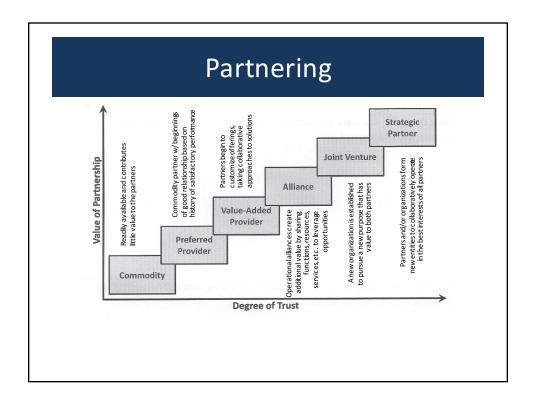
- Knowledge work requires collaborative teams and collaborative leaders to:
  - Create innovative solutions
  - Work across organizational and discipline silos
  - Work with upstream and down street suppliers and stakeholders
  - Work across cultures

### Foresight

- Foresight precedes vision and drives change
- Understanding the concepts of:
  - Target value design
  - Set based design
  - Whole life benefit, etc. are evidence that you have foresight....you can anticipate what's possible

### Visioning with Systems Thinking

- Leaders with vision are systems thinkers
- They can describe an ideal future for their organization in terms of the interrelationship among people, processes, and the practical values that must work together to achieve a clearly defined purpose
- IPL's must be able to create and articulate "vision"



### Motivating and Empowering

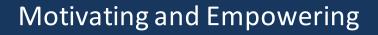
 Followers follow either because they want to follow or because they have to follow

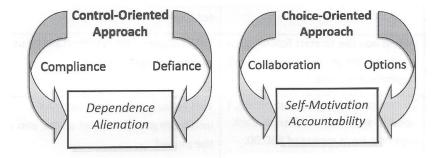
 An IPL needs to move team members from "have to" to "want to"

 Collaborators want to follow a leader who involves them in the process of accomplishing meaningful vision

| "want to"            |                      | Have to Follow | Want to Follow |
|----------------------|----------------------|----------------|----------------|
| Motivation of Leader | Common<br>Interest   | Persuades      | Collaborates   |
|                      | Personal<br>Interest | Dominates      | Seduces        |

Motivation of Followers





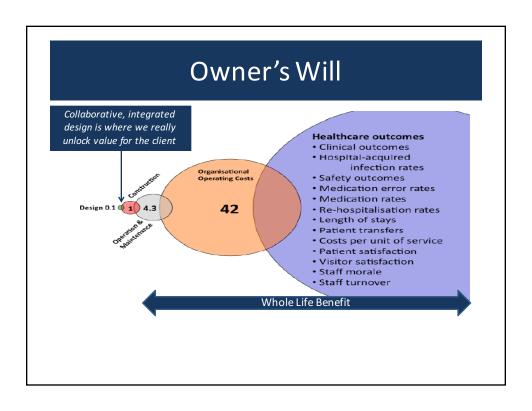
Moving team members from "Have to Follow" to "Want to Follow"

# The Four R's of Motivating and Empowering

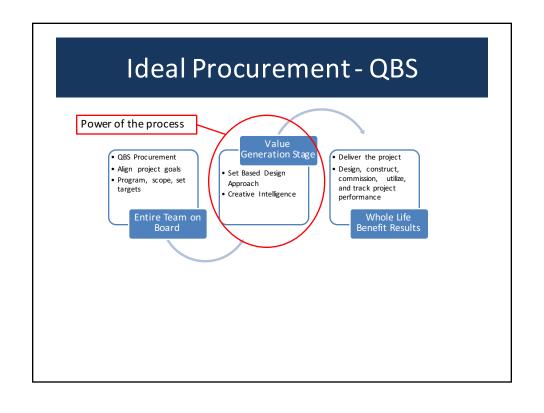
- When **responsibilities** are clear, there is not much room for role confusion
- When relationships are productive, there is not much room for conflict
- When **rewards** are appropriate, there is not much room for perceiving injustice
- When reasons are compelling, there is not much room for complacency or cynicism

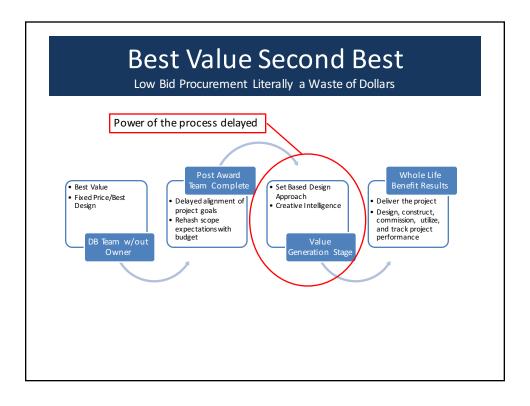
### Now the Real Challenges!

#### The Owner's Will & Procurement









### **Final Thoughts**

- The only thing more difficult than starting something new is stopping something old.
- There is no way of running a risk-less transformation or revolution.
- If you want to create a transformation in an organization you must be willing to run the risk of initiating radical ideas and taking the consequences good or bad that will come with that.

## Thank You.....



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**Questions?** 

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