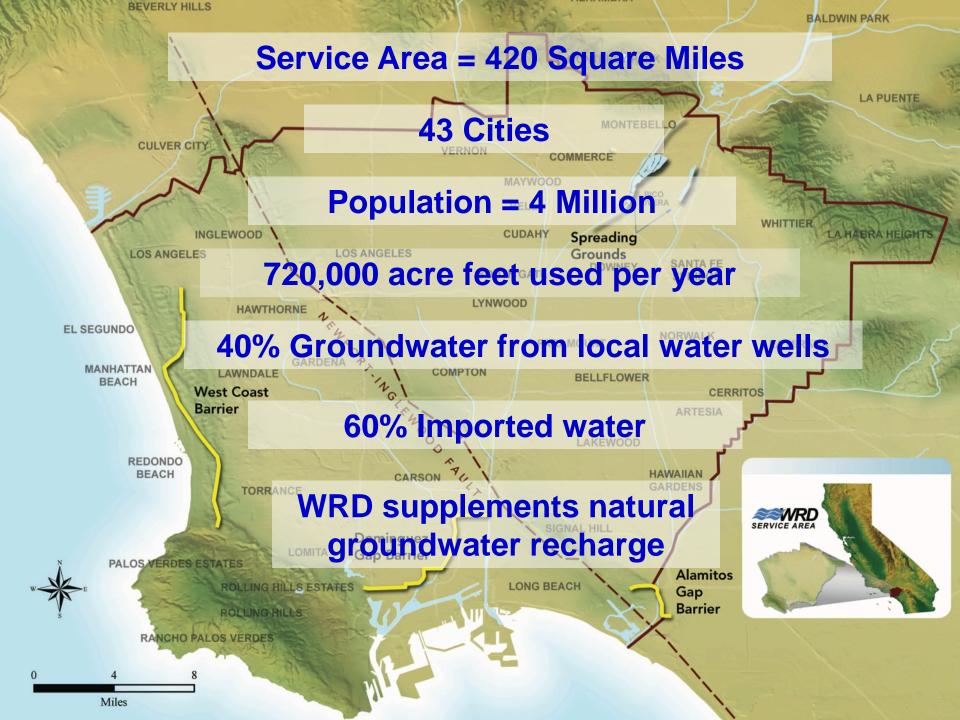


Advanced Water Treatment Facility Alternative Project Delivery... A Better Way...





Water Independence Now Initiative



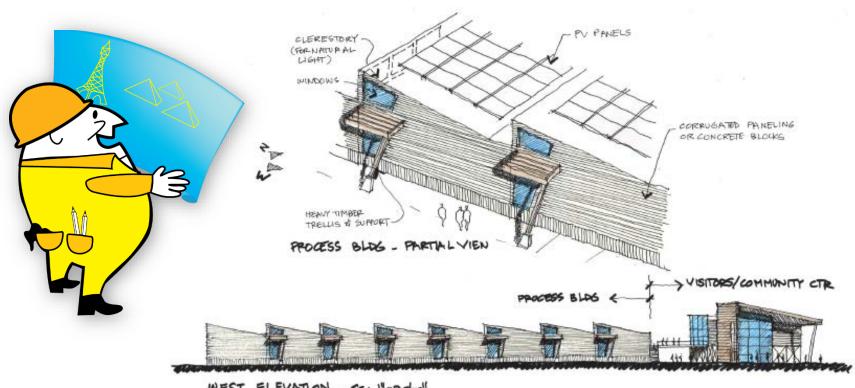
- Goal to replace imported water with locally available water (e.g. recycled water) for aquifer replenishment.
- Benefits of recycled water over imported water:
 - √ increased reliability
 - √ cost-effective
 - √ locally controlled
 - ✓ drought proof





Advanced Water Treatment Facility





WEST ELEVATION - SE: 1"=30-0"





Why Consider Alternative Project Delivery?



- Prior DBB project was stalled
- Schedule control
- Limited staff
- Desire to have more control
- Future operational optionality
- Price control
- Master Plan and other project alignment(s)





D-B-B: What's really the Difference?

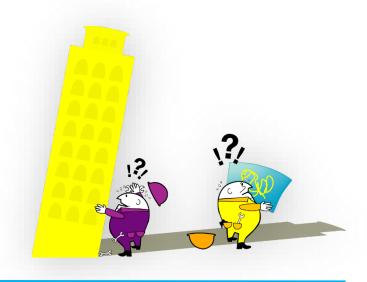


"Traditional"

Design-Bid-Build (DBB)

Owner always <u>owns</u> the risk

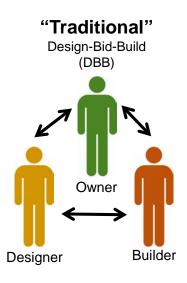




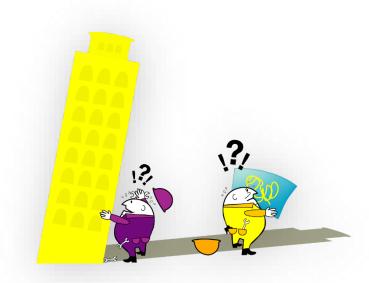


D-B-B: What's really the Difference?





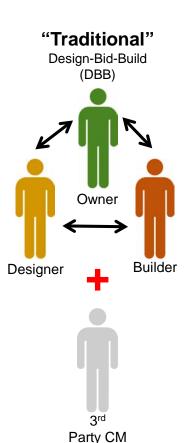
- Owner always <u>owns</u> the risk
- Transferred/assigned risk (myth versus reality)
- Owner must be willing to accept consequences for decision making



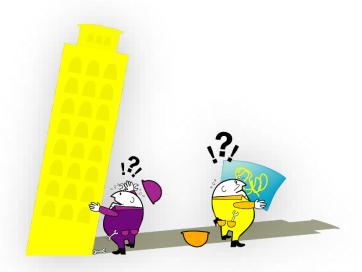


D-B-B: What's the really the point?





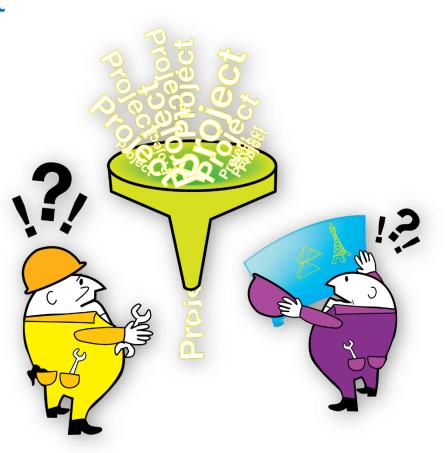
- Owner always <u>owns</u> the risk
- Transferred/assigned risk (myth versus reality)
- Owner must be willing to accept consequences for decision making
- Does partnering under D-B-B really make a difference?





Key Points: Other Delivery Options

- There are multiple forms of allowable alternative project delivery formats
- Each form has strengths and weaknesses
- Owner must pick the best approach for individual project needs



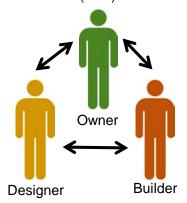


Alternative Project Delivery Methods



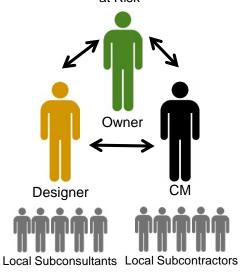
"Traditional"

Design-Bid-Build (DBB)



"CM@Risk"

Construction Management at Risk



"Progressive"

Design-Build-Operate (GMP)



Owner



Design Builder

Operator



Local Subconsultants/ Subcontractors

"Lump Sum"

Design-Build-Operate (LS)



Owner



Design Builder Operator



Local Subconsultants/ Subcontractors

Traditional Delivery

Alternative Delivery



Key Points: Prescriptive vs. Non-Prescriptive



"Lump Sum"

Design-Build-Operate (LS)



Owner



T

Design Builder Operator



Local Subconsultants/ Subcontractors Lump Sum
Design-Build-Operate:
"Performance-based"
or
"Prescriptive"

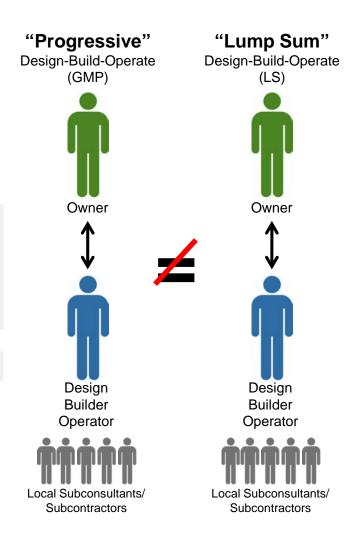


Key Points: Prescriptive vs. Non-Prescriptive



Progressive
Design-Build-Operate:
"Qualifications-based"
or
"Non-Prescriptive"

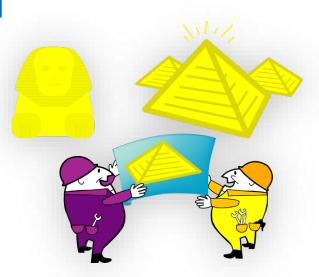
Maximum flexibility for Owners



Lump Sum
Design-Build-Operate:
"Performance-based"
or
"Prescriptive"



- Owner enjoys maximum flexibility/opportunity to collaborate on permitting/design
- Adds flexibility for budget constraints
- Owner has multiple "off-ramps" in case of permitting issues or if GMP can't be successfully negotiated
- Progressive (non-prescriptive) Design-Build-Operate reduces the time it takes to select a Design-Builder-Operator
- Procurement can run in tandem with other critical path efforts (e.g., permits)
- Accelerates concept development evaluation and pricing









The Delivery Process is Less Likely to Drive Project Success than the Resolve of the Owner Managing it





- Buyer of services
- Defines project
- Defines success
- Creates contract
- Establishes scope
- Determines schedule
- Accurate risk assignment
- Determines rules of engagement
- Has the "end in mind"



- Stewards of public trust and resources
- Share all relevant project data/info
- Administer contract fairly
- Make timely decisions
- Pay timely
- Communicate with third party stakeholders
- Secure funding
- "In-House" needs
- Community politics/issues



- Create opportunity for innovation
- Participate in development of team rules
- Comply with team rules
- Sets tone
- Determines "best value"
- Enables completion
 - Staff trained
 - Receive docs
 - Punch out
 - Assume ownership





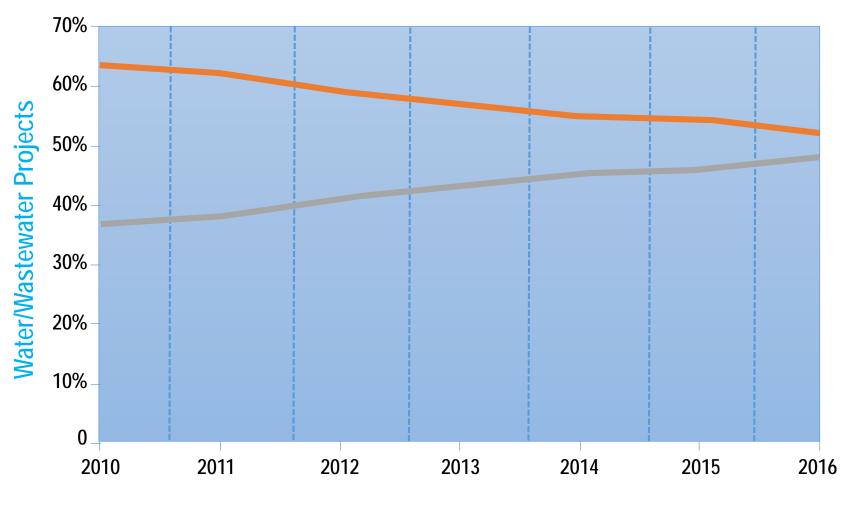
- Accurate risk assignment
- Establishing rules of engagement
- Create environment for collaboration and innovation





Key Points: Owner's Choosing APD







APD Traditional DBB

Key Points: APD Saves Money



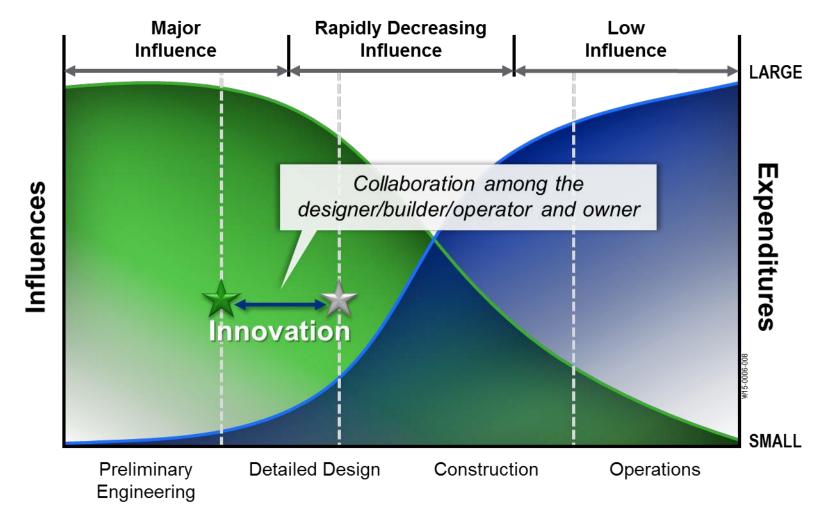
Traditional Approach – Time to Completion				
Select Designer	Design	Bid & Award		Construction
APD Approach – Time to Completion				APD Savings
Select DB				
	Design			Savings in Time and Money Realized Using APD Approach
		Construction		



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Key Points: Collaboration Encourages Innovation





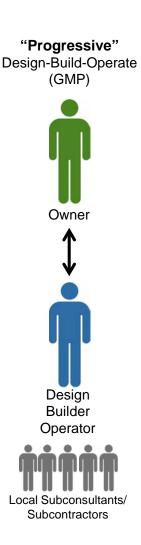


Progressive D-B-O: A Better Way?



Key Advantages

- Invest in Projects not Procurements
- Schedule
- Progressive costs estimates address
 Owners' financing challenges
- Better opportunities for local subconsultant and subcontractor support
- Owner is completely engaged and part of collaborative project delivery team





Keys to Achieving Success



- Need a project champion/advocate
- Stakeholder buy-in an absolute must
- Must be willing to share risk and work harder/differently
- OE/OA is part of the overall team
 - Extension of staff and <u>not</u> a "first" line-of-defense
 - Provide programmatic management and technical advisory services
 - Collocation is critical to facilitating the collaborative process
 - Must be a facilitator and team leader







Benefits of APD (D-B-O)



- Selection methodology focuses on traditional evaluation criteria
 - Primarily qualifications based allowing owner to select team that offers best innovations, approach, and value
 - Excellent approach when considering cost, schedule, and operational impacts associated with various process and design configurations
 - Selection criteria can be tailored to support owner's project-specific needs
- More flexibility after design-builder-operator selection
 - Supports a "best value" approach where design-builder-operator works hand-in-hand with owner to make critical design and process decisions
 - Owner can provide input on preferred specialty firms/manufacturers/equipment providers
 - Design-builder-operator can still secure bids to ensure competitive pricing
 - Easier to integrate PLA and monitor labor compliance



