

Metrics of Public Owner Success in Lean Design, Construction, and Facilities Operations and Maintenance

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Wouldn't It Be Nice If You Could...

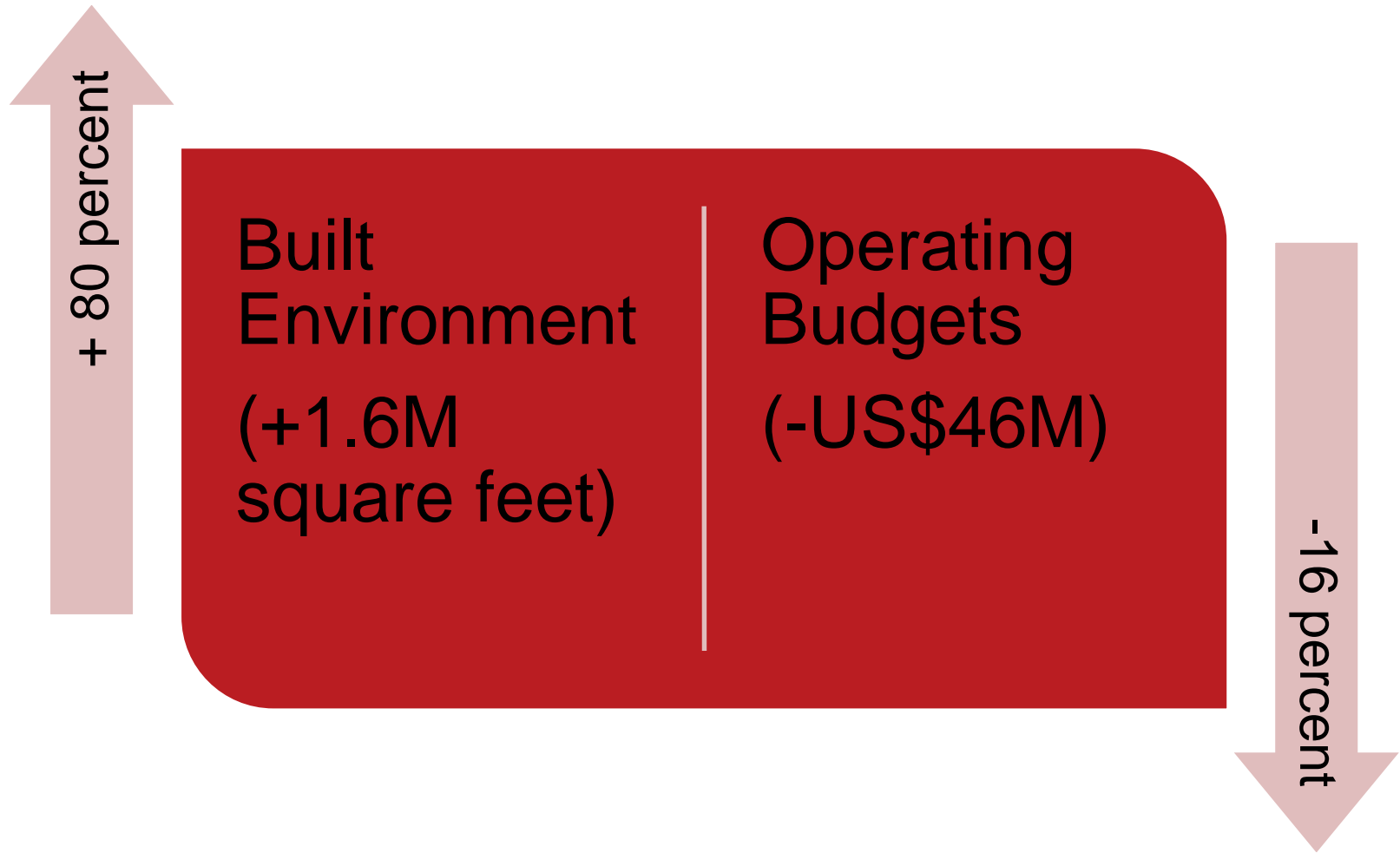
Average Savings of \$900,000 on each of 15 projects

Reduce Average Schedule Delay by 56 days

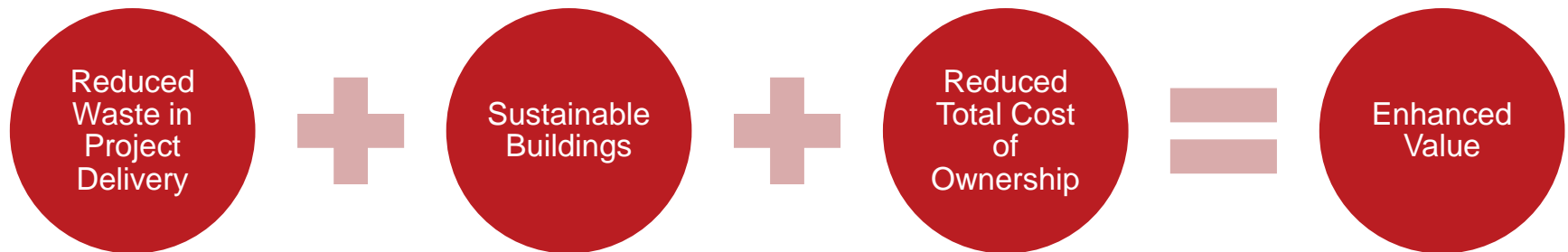
Enhance Sustainability Objectives by 44%

Reduce Facilities Maintenance Costs by 53%

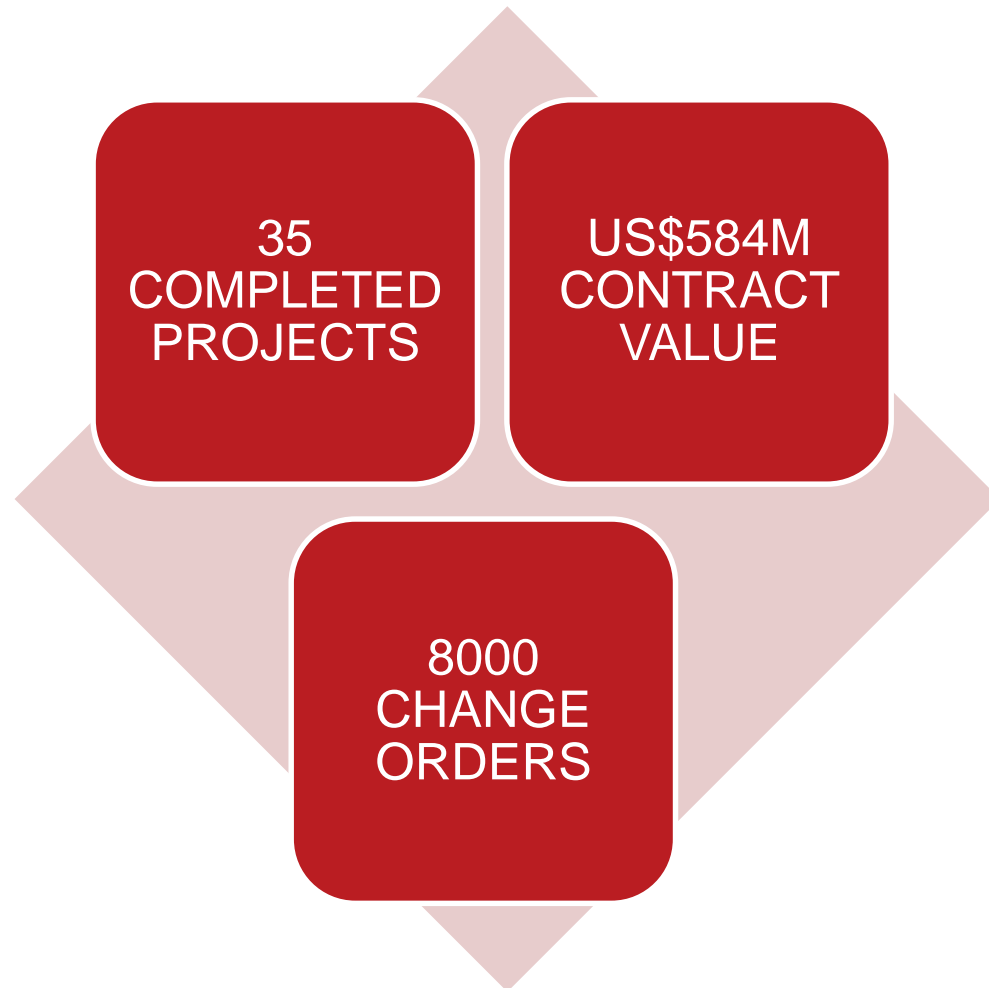
Why Did San Diego CCD Migrate to Lean?



Public Owner Benefits



By the Numbers – The Database



Change Order Analysis

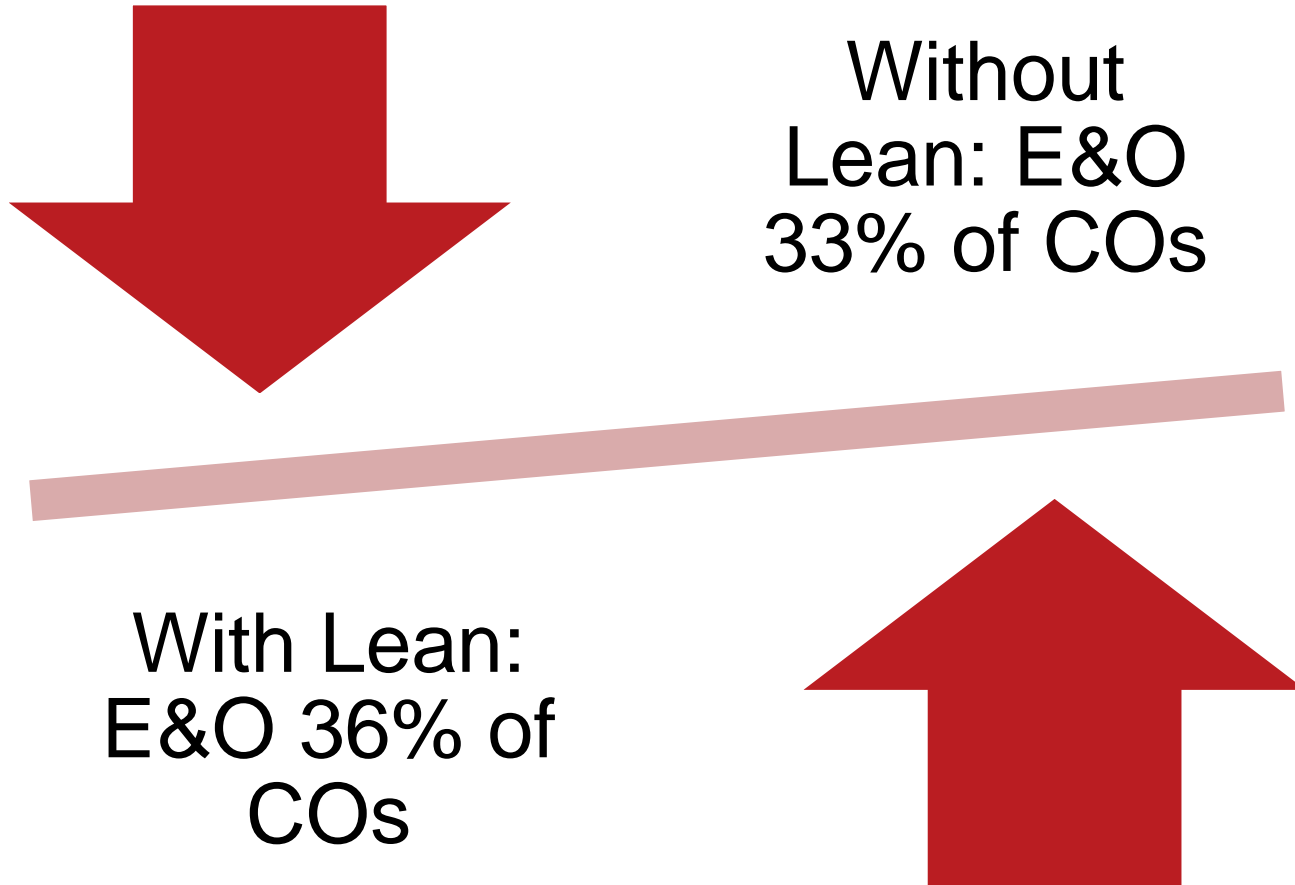
Pre- Lean

- 7.73% Total COs
- 2.99% E&O COs

Post- Lean

- 4.43% Total COs
- 1.88% E&O COs

Interesting Finding



Who is on Time?

Pre-
Lean

• 1/19 (5%)

Post-
Lean

• 3/15 (20%)

Days of Schedule Delay Improvement

Pre-
Lean

- Avg. 80 Days Late

Post-
Lean

- Avg. 24 Days Late

Target Costing



11 Projects



Avg. Value:
US\$21.8M



83% Met Target Cost; Avg.
7% Below Target Cost

Sustainability as a Core Value

LEED Gold Projects

20%

Direct Contract with
Architect

26%

Post-Lean

44%

Target Value Design

Value as Reduced Maintenance Costs



US\$34.6 Million of Waste Eliminated

