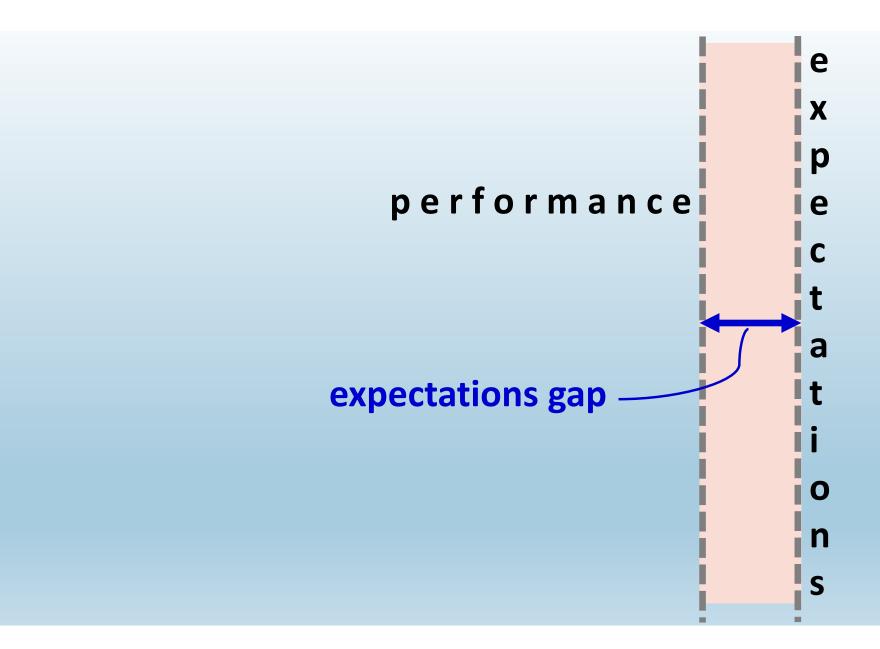
Measuring Performance qm and more

May 14, 2021



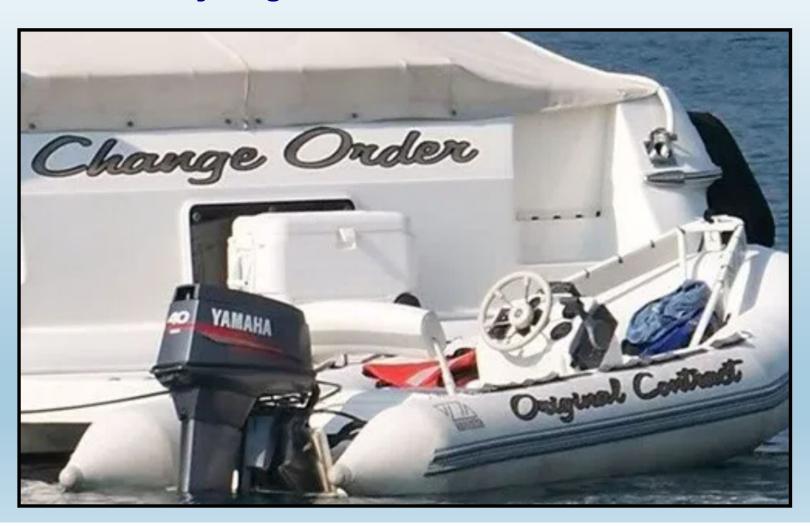


"What gets measured gets managed"

It's wrong and Drucker never said it

https://medium.com/centre-for-public-impact/what-gets-measured-gets-managed-its-wrong-and-drucker-never-said-it-fe95886d3df6

Not everything that matters can be measured. Not everything that we can measure matters.



Expectation – a strong belief that something will happen or be the case in the future. Belief that something should be a certain way.

Measurement – the act or process of measuring; a figure, extent, or amount obtained by measuring: dimension

Performance – an action, task, or operation, seen in terms of how successfully it was executed. Process or manner of function or operation.

Quality – the degree to which a set of inherent characteristics fulfill requirements.

PMBOK 6th Edition

Quality Management

Actions Accomplished Include

- Internet page
 - QM Guide
 - Region Quality Plans
 - Other links
- Design Quality Management (sharepoint site)
 - Guidance and Resources
 - Region Quality Management
 - Statewide
 - Monthly Quality Reports
 - Quality Management Group Meetings



Quality Management

Change Orders

Estimating

Messaging



Data Set

- Design-Bid-Build Contracts
- Engineer's Estimate ≥ \$10M & ≤ \$100M
- Contract Completion Date ≥ 2016 & < 2020

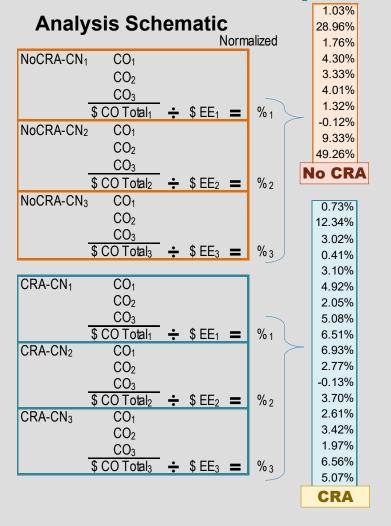
Contract + Workshop + Change Orders





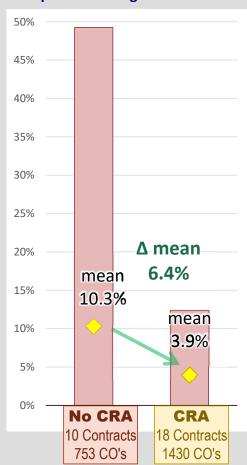


Contract Level Analysis



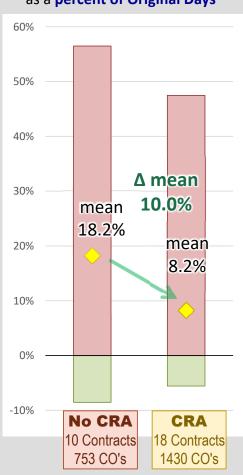
Total Change Order Cost Range

as a percent of Engineer's Estimate



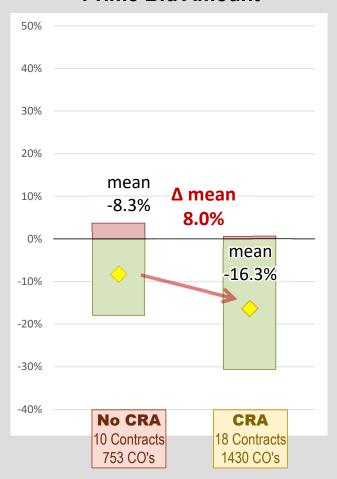
Total Change Order Days Range

as a percent of Original Days

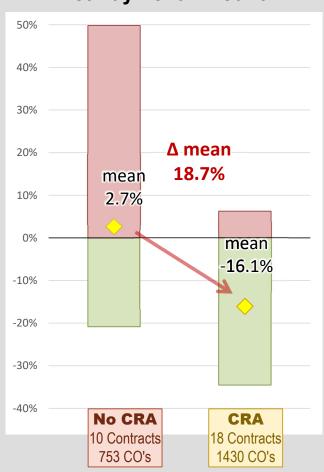




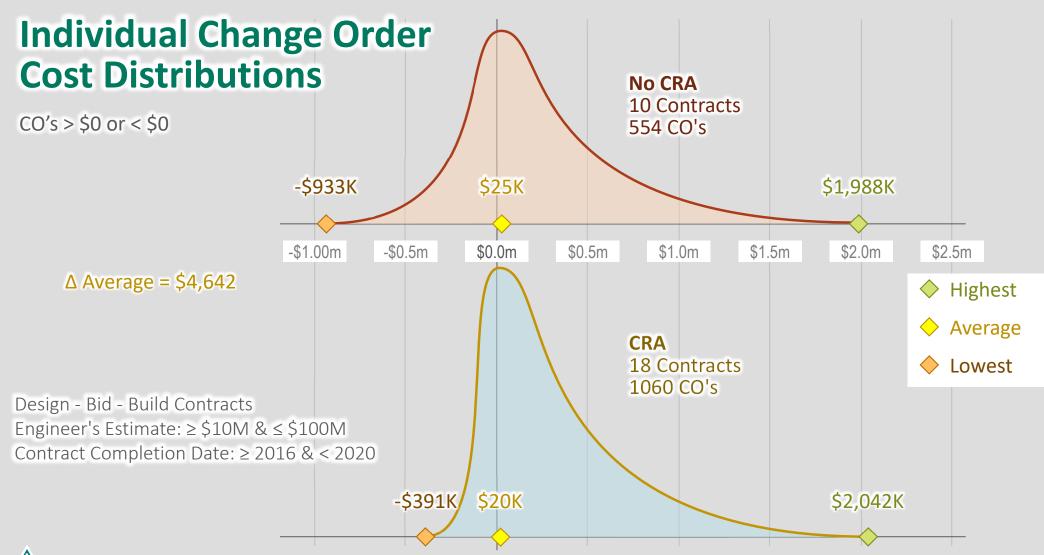
Engineer's Estimate To Prime Bid Amount

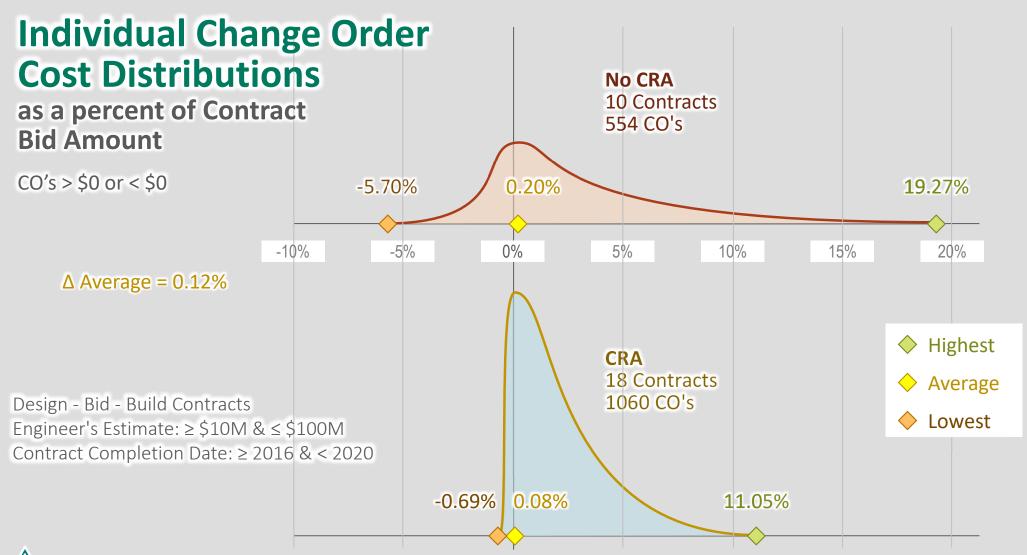


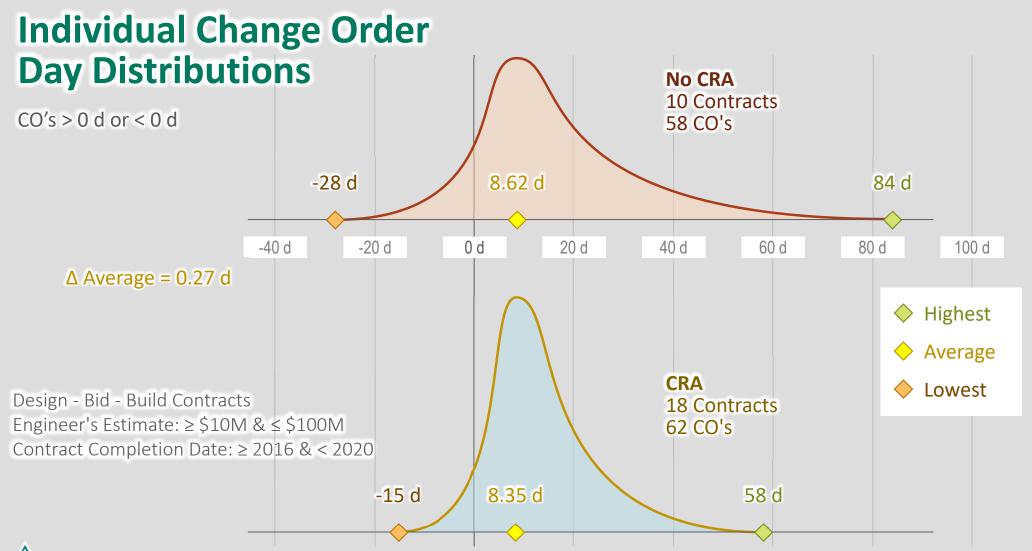
Engineer's Estimate To Net Payment Amount



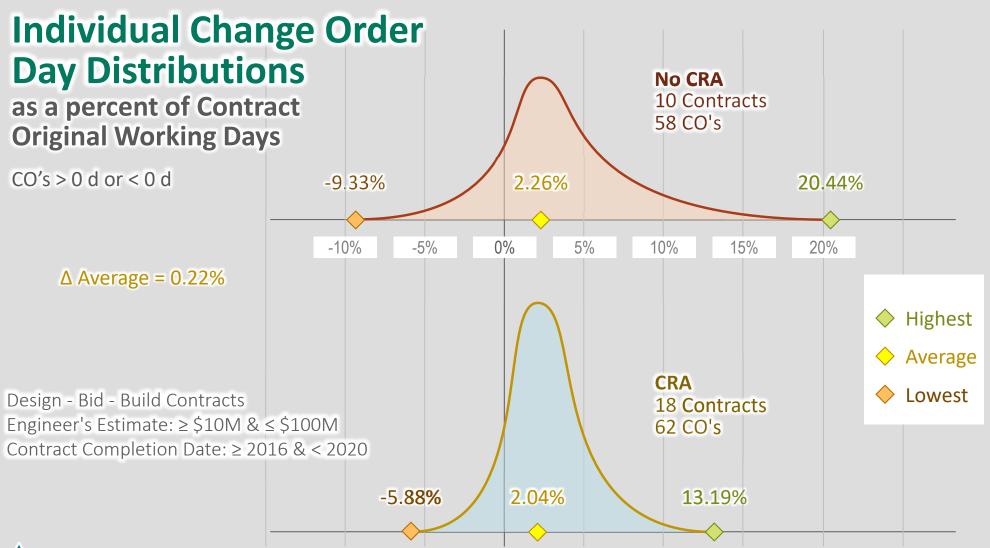














CRA Findings

Formal CRA had a cost benefit of 18.3

- -6.5% reduction in change order costs,
- -1.3% reduction in schedule increases by change order

Formal CRA = ↑quality

Messaging



Public declaration of cost estimates

- An estimate is a range, not a single number
- Total everything all in
- Year of Expenditure

Leading Indicators



- Project Management Plan
 - scope, schedule cost, quality, risk, communications
 - integration, resource, procurement, stakeholder

- Estimating follow the process
 - basis of estimate

Conclusions



follow recommended practices and quality occurs