** Asset Management & Reliability



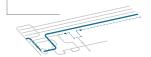
WORLD CLASS ASSET MANAGEMENT = COMPETITIVE ADVANTAGE

CAI works with you to ensure the right maintenance is performed at the right time, with the right people, so your assets contribute their maximum value to your operation - Improving your bottom line!

DESIGN

LOWER LIFE CYCLE COSTS

- Design for Reliability (DfR)
 Consulting
- Asset Criticality Analysis (CA) Establishment
- Life Cycle Costing (LCC)
- Maintenance Prevention Consulting



BUILD

IMPROVE MAINTAINABILITY

- Asset Policy Development
- Asset Hierarchy Design
- Metrology Program Development
- CMMS Implementation and Optimization
- Initial Space Optimization
- Capital Project Management
- Maintenance Procedure Development

TEST

ACHIEVE VERTICAL START UP

- Commissioning and Qualification
- Safety Evaluations
- Idle/Interim Maintenance Program Development
- Early Equipment Management (EEM)
- Asset Management Plan



OPERATE

WORK SMARTER
REDUCE/ELIMINATE SHUTDOWNS

- Maintenance Optimization, Planning, and Scheduling
- Best Practices Coaching
- Work and Storeroom Management
- Operational Excellence
 Program Evaluation
- Total Productive Maintenance (TPM) Consulting
- World Class Manufacturing (WCM) Consulting









TYPICAL VS. WORLD-CLASS MAINTENANCE & RELIABILITY

With CAI's world-class maintenance & reliability, thoughtful design and planning, decreases the overall cost and increases the overall value over the life of an asset.

Labor Utilization (Wrench Time)

>20% increase



Major Plant Wide Shutdowns

80% reduction 1/yr vs 1/5 yrs



Overall Equipment Effectiveness (OEE)

>35% increase



Typical M&R

Total Maintenance Cost

5-30% reduction



World-Class M&R

Reduction In Intrusive Maintenance

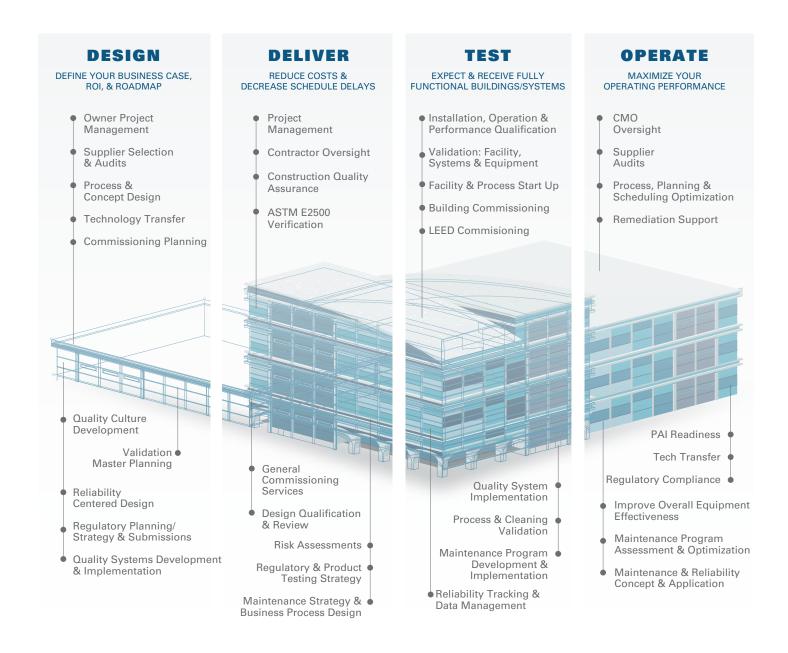
60-80% reduction



Asset Management & Reliability (cont.)



Apply our collective insight to every phase of your project; enhance the performance, reliability, & efficiency of your facilities, systems, & processes.



GLOBAL PROJECT DELIVERY

Biotech • Pharmaceutical • Data Center • Medical Device • Laboratory • Personal Care • & More