



# Process CAPABILITY AND CONTROL

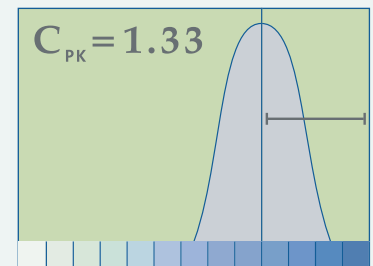
## Attaining World-Class Status

Tunnell Consulting has a proven, three-tiered approach to helping clients achieve the superior profitability, productivity and regulatory compliance today's aggressive environment demands. This approach dramatically drives down process variation, increases knowledge of the cause-and-effect relationship between variables, and manages stockholder, regulator, customer and competitor demands. The greatest impact on business performance is achieved when all three levels are attacked simultaneously.

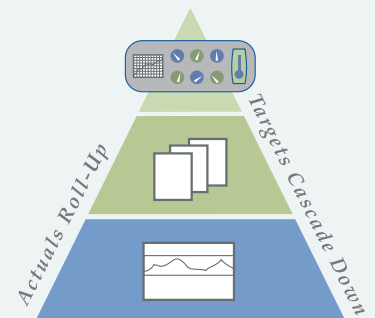
### Proven Benefits

- Fewer lost batches (\$250 – 500K per batch saved)
- Fewer manufacturing deviations (hundreds of investigative hours saved)
- Reduced compliance/regulatory exposure (fewer resulting remediations)
- Increased productivity and throughput (15-30% improvement typical)
- Real-time, data-driven decisions to boost performance

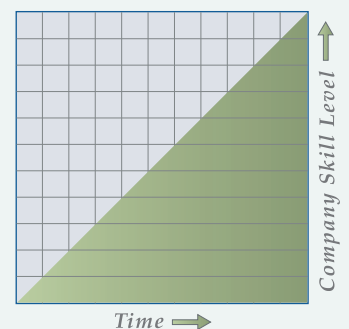
### Level 1 Process Capability Studies



### Level 2 Data Management Effectiveness (DME)



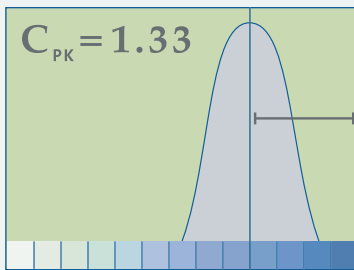
### Level 3 Knowledge Transfer and Skill Development



[More Details on Back]

## Level 1

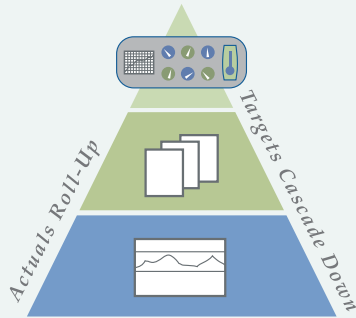
### Process Capability Studies



- Develop process capability and control strategy for manufacturing processes
- Conduct measurement systems analysis
- Develop baseline capability, control and regression analysis for key products
- Establish critical variables driving variation in results
- Develop and implement variation reduction strategies including specification limit settings that are statistically based

## Level 2

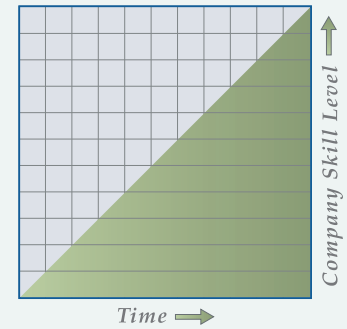
### Data Management Effectiveness (DME)



- Establish dashboarding and reporting requirements
- Develop data collection, integration and reporting strategy
- Develop IT infrastructure to support ongoing capability studies and variation reduction efforts
- Use proprietary software development tools to significantly reduce development time and cost

## Level 3

### Knowledge Transfer and Skill Development



- Identify skills required at all organizational levels
- Develop training strategy
- Develop training curriculum and materials including train-the-trainer program
- Develop customized training modules
- Implement training

## Discover the Value

Founded in 1962 and serving many of the world's leading life science firms, Tunnell Consulting integrates strategic, technical, process, and organizational skills to design and implement sustainable solutions that exactly meet client needs. With deep industry knowledge, extensive scientific credentials, and superior measurable results, we consistently boost the operating performance of each unique client we serve.



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