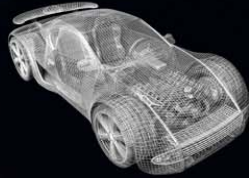
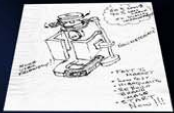


Concept



Engineering



Manufacturing



Distribution



Operation



Maintenance



End of Life



Total Lifecycle Cost Prediction Quantification Reduction

Since 1988

Munro
&
Associates, Inc.



Dan McCarthy

Design Prophet

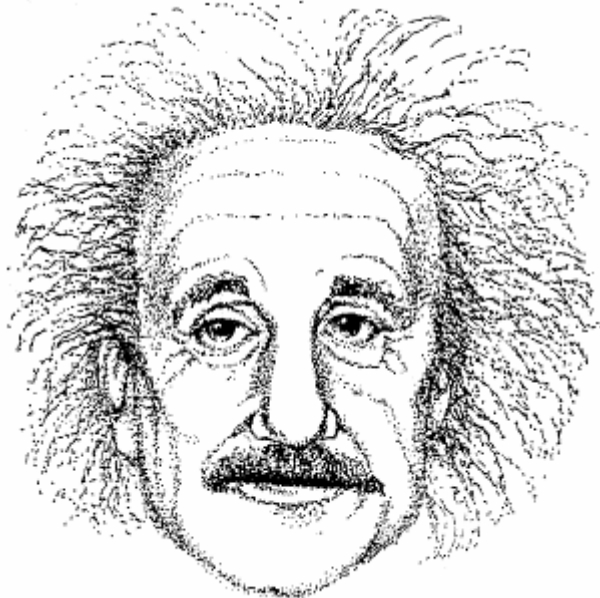
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Integrated Logistics Support Panel

1st Annual Robotic Vehicle Life Cycle Conference

Focus on the Source

Munro
&
Associates, Inc.



"The best design is the simplest one that works."

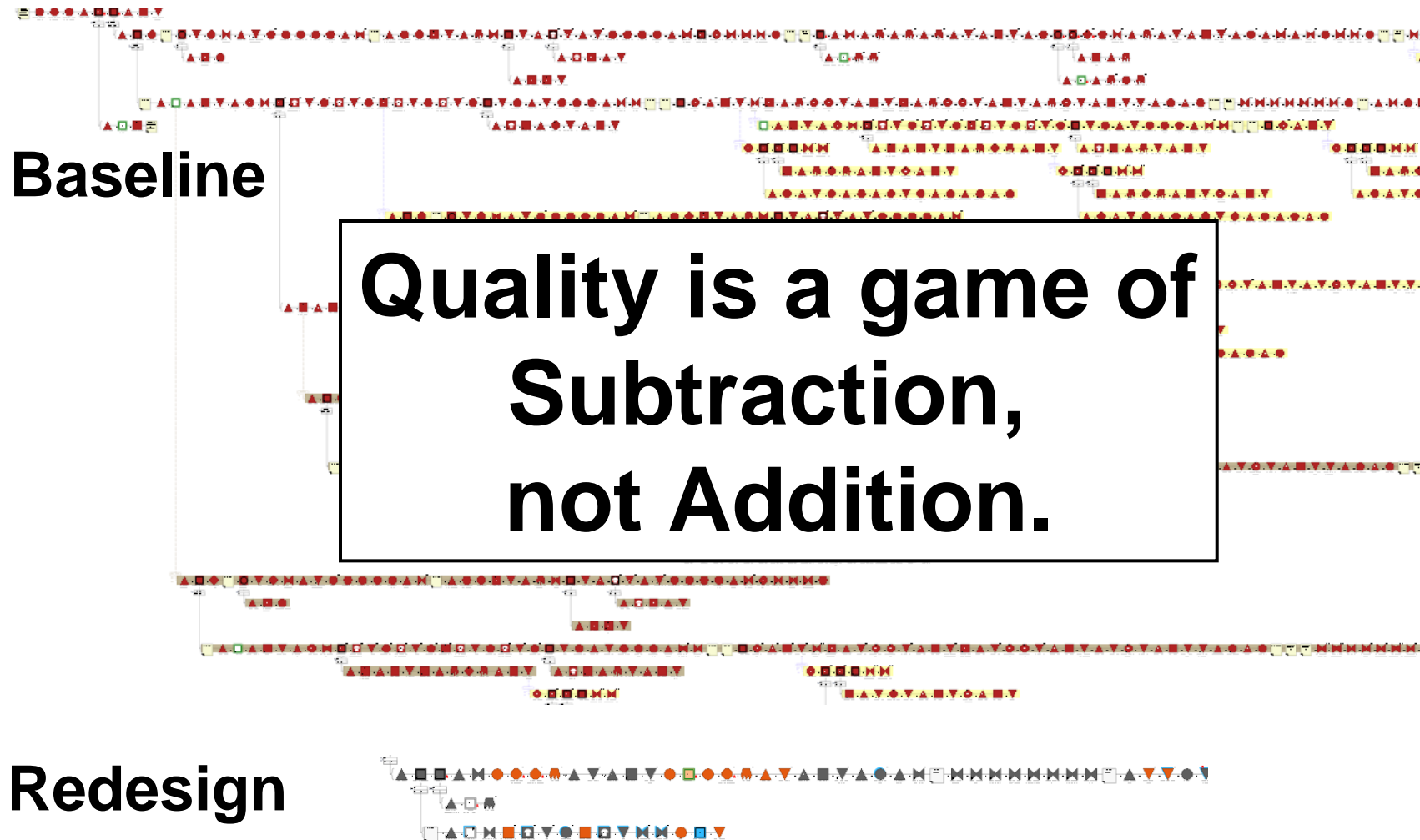
Albert Einstein

"Works great and for a long, long time."

Munro & Associates, Inc.

Lean Design Mapping

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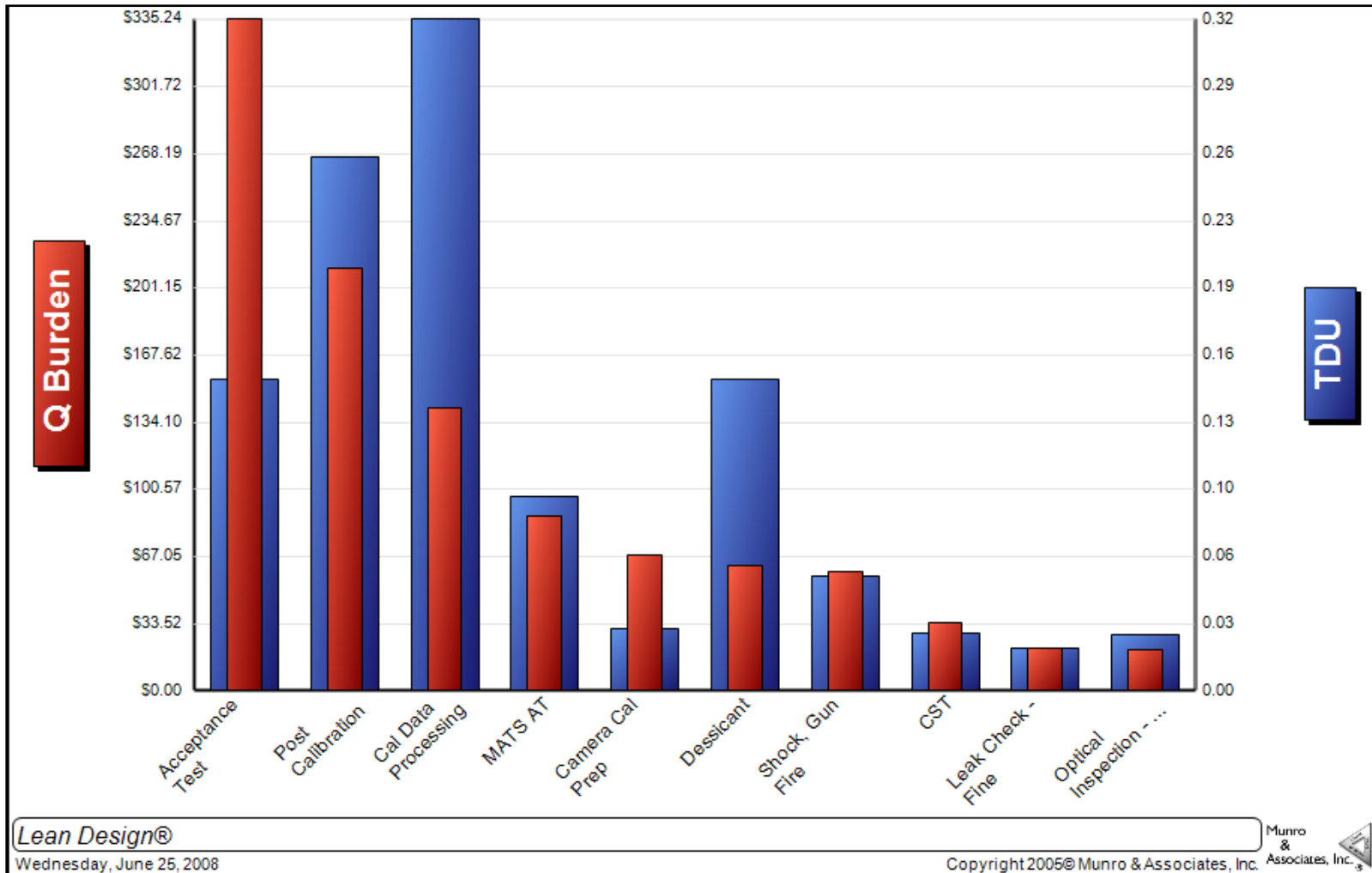


Baseline

Redesign

QRC[®] Priority Chart

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Life Cycle Cost Factors

- Service Costs
 - Labor
 - Spares, Facilities & Equipment
 - Redundant capacity
- Cost of Loss of Life
- Operational Support costs



Design for Sustainment

- Proactive approach - attack lifecycle costs in the design, not the field.
- Development team needs data, tools and accountability to make a difference.