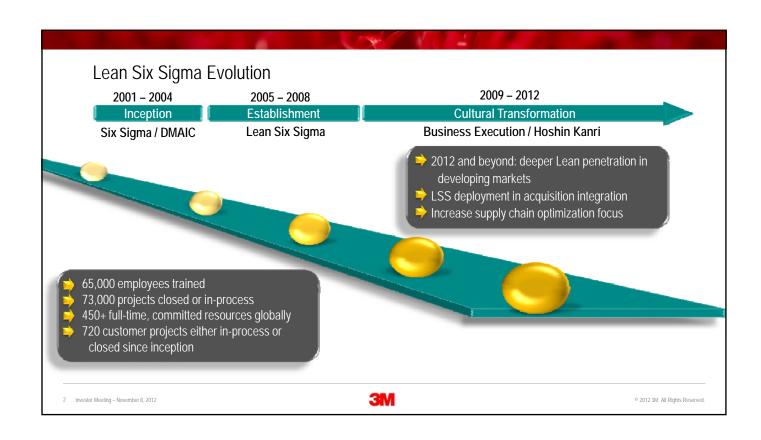
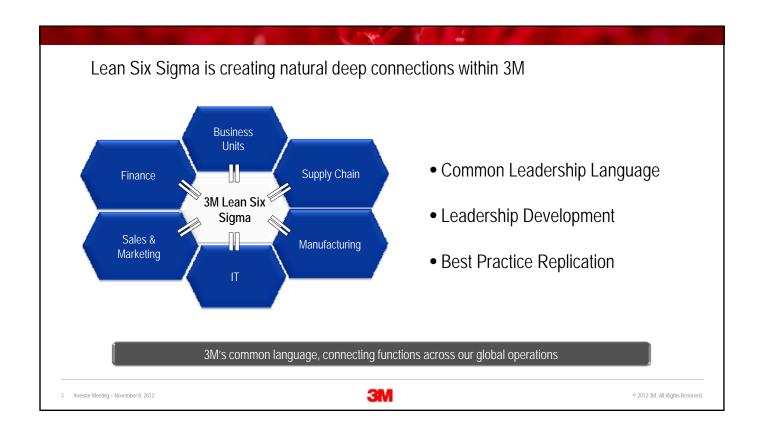
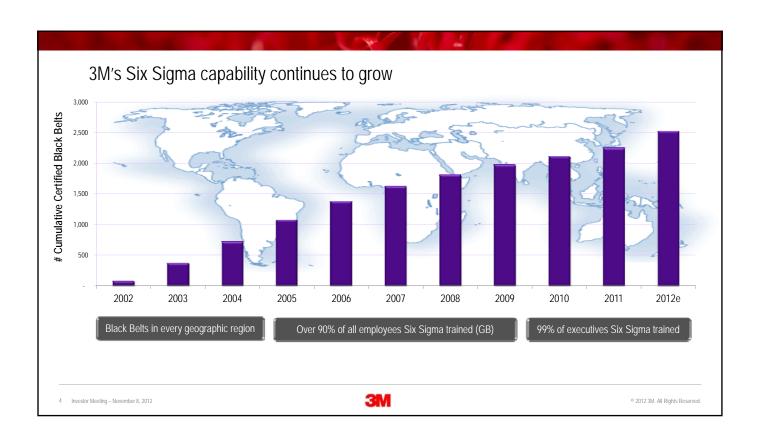
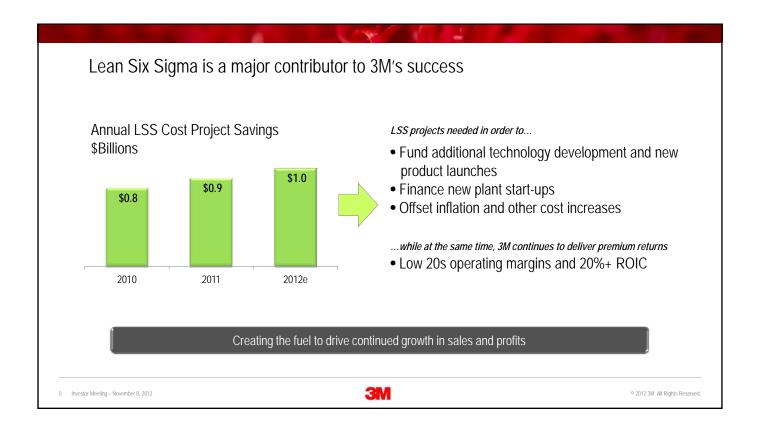
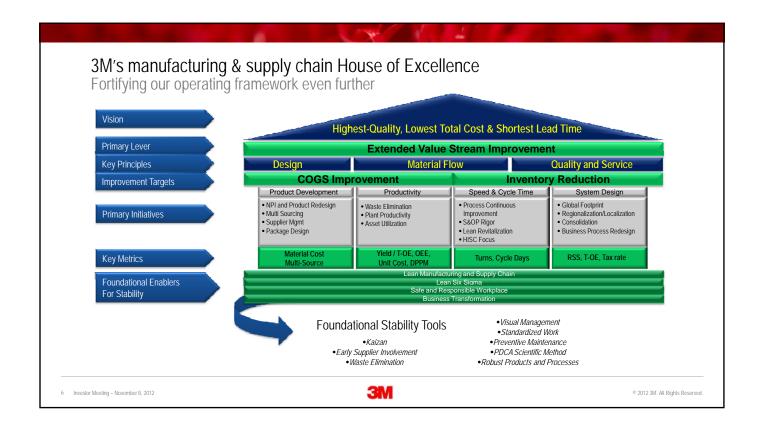
Lean Six Sigma: A Critical Value Driver for 3M Jerome Hamilton – Vice President, Lean Six Sigma & Corporate Supply Chain Acquisition Integration *201 3M. Al Rights Reserved.











Successful business execution requires a disciplined focus on the vital few

What are the vital few priorities / attributes that MUST be in place in order for an organization to successfully deliver business results?

P Plan D Do C Check A Act (or "Adjust") Mym't Action Plan

Keys for Success

Resource Allocation & Alignment

- · Focus on vital few
- Cross-functional prioritization to deliver "the business plan"

Accountability

- All key business processes have an A3 owner
- Key business metrics are aligned directly to employee contribution & development plans

Execution

- Execution and development mindset is elevated (plans in balance with and align to organization's capacity to implement)
- Continuous and step-change improvements through business improvement process

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Using Lean Six Sigma to enable successful in-sourcing

Step-change in cost improvement to capture more of the value chain

LSS project example – respirator unit cost reduction

| | 2013 | 2014 | 2015 |
|--|--------|--------|--------|
| Unit Volume – Millions | 0.9 | 1.3 | 1.5 |
| Unit Cost Reduction vs. Outsourcing Option | 40% | 44% | 45% |
| Annual Savings - \$ Thousands | \$400K | \$700K | \$800K |







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2012 3M Quality Achievement Award



Business: 3M Communication Markets

LSS Project: Transition from lead to lead-free soldering on single pair protection plugs



3M Pondicherry, India Simpler Solution Greater Results Team

ACHIEVEMENTS

- ❖ Yield improvements of over 90%
- ♦ Shift output improvement by 20%
- ❖ Rework reduction of over 65%
- Reduction in power use by 10%
- **❖ZERO** customer defects

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In Summary

- 3M's strong Lean Six Sigma foundation is deeply imbedded in our operations and has been a key enabler of 3M's success
- We are adding resources to further support new manufacturing and supply chain operations in high-growth developing markets
- We will build on and leverage our successes in acquisition integration

Great success thus far, with more opportunity yet to come!

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