

## Advantages and Disadvantages of Various Lean Six Sigma Deployment Approaches

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#### Agenda



- What is Lean Six Sigma
- Top Down
- Bottom Up
- Lean Six Sigma Awareness and Training
- External Specialists
- Governance Structure
- Success criteria

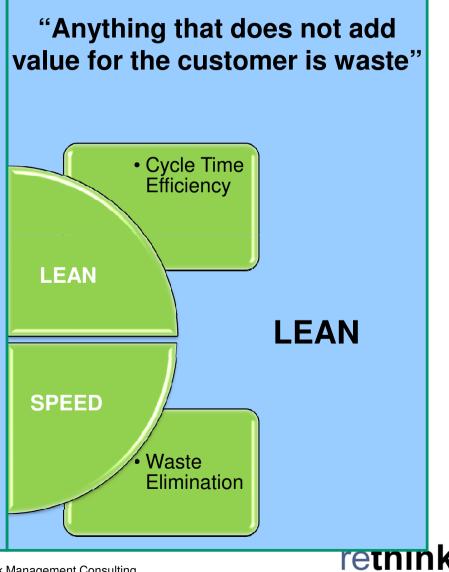




## What is Lean?



- Lean Manufacturing originated in the 1950's (Toyota Production System)
- Lean was based on Henry Ford's philosophy of low cost, fast lead time and high quality and Deming's 14 Points of Total Quality Management (TQM)
- Lean was adopted widely by manufacturing companies in the 1990's as a rapid problem solving approach
- Increasingly it is being used in financial services and transactional environments
- Focus on Waste Elimination to reduce Time
- Tools to identify and attack waste through simple techniques anyone can apply daily in a relentless pursuit of further improvement





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#### What is Six Sigma?



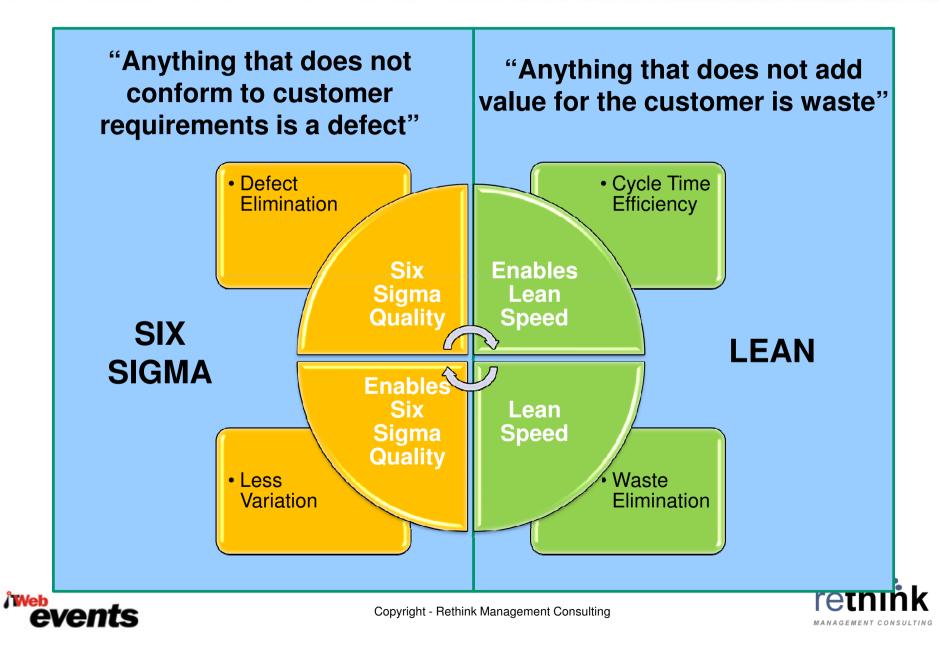
Made popular in 1986/7 by the Motorola "Anything that does not Corporation based on old concepts conform to customer Expanded to GE where it was adopted requirements is a defect" as a management philosophy in the 1990's Recognized as a powerful approach to Defect achieve business process Elimination improvements Recently being adopted by financial services and transactional Six environments Sigma Focus on Variation Reduction to SIX improve **Quality** Results driven approach suitable for all • SIGMA kinds of processes Quality • Works for simple and complex problems Dramatically raises problem-solving capability (DMAIC) with a projectised Less Variation approach





Lean Six Sigma Is The Integration of Two Powerful Business Improvement Approaches







## Why Implement Lean Six Sigma?





## Why implement Lean Six Sigma?



# To achieve both Quality (Six Sigma) and Waste Reduction (Lean) benefits that result in:

- Shorter customer fulfilment lead times
- Improved quality
- Lower costs
- Improved capacity utilisation
- Maximise invested capital
- Customer loyalty and retention









# **Top Down**

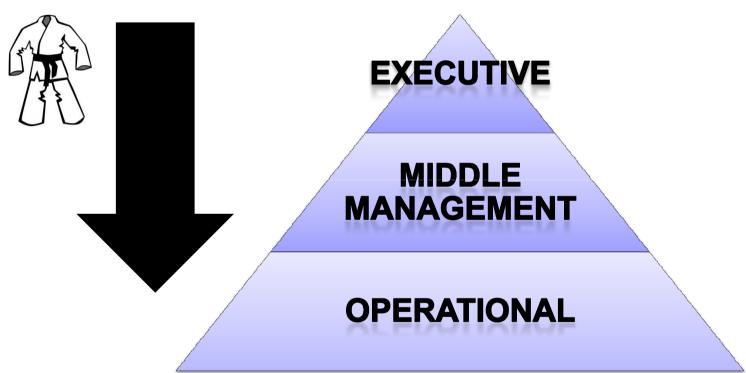








#### Top Down (Black Belt)







## Top Down...

#### **Characteristics:**

- Company wide program/plan
- Executive Sponsorship
- High impact and focus
- Experienced coaches in early phases
- Multiple dedicated teams Lead by Black Belts
- Black Belt experience remains a key to success
- Extract top performers and allocate 100% to project
- Large investment made in training and future career
- Greater chance of realised benefits
- Greater focus on use of LSS tools
- Higher impact & breadth of projects
- Greater empowerment of Black Belts
- Higher trained team structure







## Top Down...

#### **Advantages**

- Aligned to Strategy
- Will have top support, driven by and accountable Champion may even be executive level
- Relative high level of benefit achievable
- Longer term sustainability
- Ability to leverage black belts for training of green belts across greater organisation
- "Career path" incentive to become BB









## Top Down...

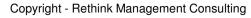
#### **Disadvantages**

- Need to lead by example
- High change management requirements
- Higher cost and dedication requirements
- Risk of early inexperience
- Scarcity of skills



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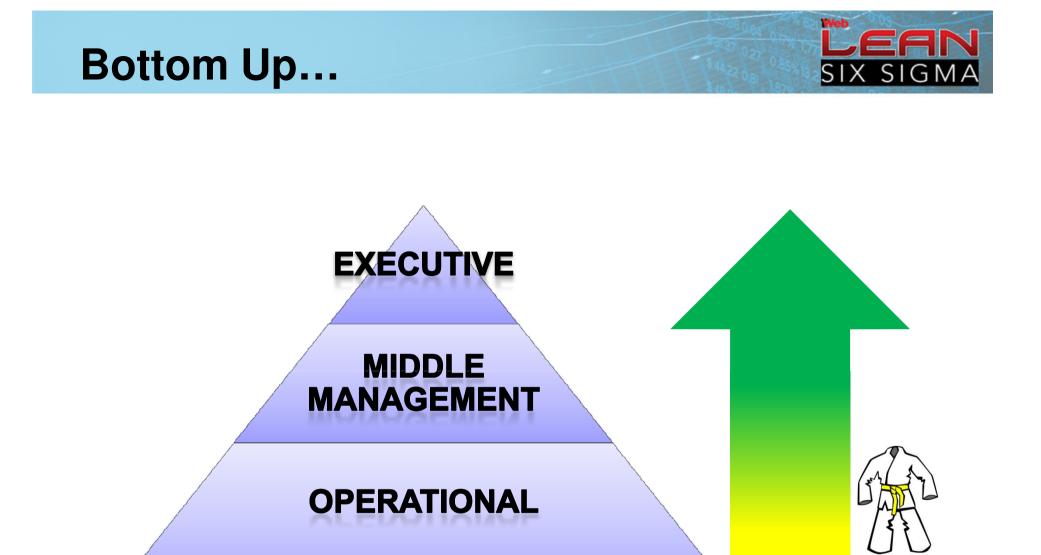




# **Bottom Up**







#### **Bottom Up (Yellow / Green Belt)**





## **Bottom Up...**

#### **Characteristics:**

- Projects are initiated and run within departments
- Shorter project times
- Lower impact projects
- Very hands on and operational approach
- Experienced coaches in early phases
- Dedicated/part time staff (perhaps at a lower level of staff), team members are yellow belts or SME's
- Less of a view on LSS methods and tools
- Less training requirement (yellow belt, green belt)









## Bottom Up...

#### **Advantages**

- "Easier" access to required staff
- More skills transfer takes place
- Moderate level of benefits achievable
- Organic Buy-In (may be more difficult to achieve?)
- Less costly, "easier" to implement
- Less demands on staff









## **Bottom Up...**

#### Disadvantages

- No strong link to strategy
- KPI and rewards must be linked directly to LSS outputs to incentivise
- Sustainability is a risk
- Benefits tracking may not be an integral part of the deployment initially
- Lesser chance of realised benefits













# Lean Six Sigma Awareness and Training





## LSS Awareness and Training...

#### **Characteristics**

- Has top level support
- Mass training of staff at Green and Yellow belt level
- Improvement projects are not run as a corporate wide program
- Initiatives are identified and managed at departmental level
- Empower people to do it themselves
- No centralised focused LSS roles
- Less governance



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## LSS Awareness and Training...



#### **Advantages**

- Build internal knowledge (doesn't guarantee competence)
- Potential to become self sufficient
- Indoctrinate LSS from beginning
- Career development





## LSS Awareness and Training...

#### **Disadvantages**

- Low level of improvement
- Knowledge  $\neq$  Competence
- If personnel not reward or recognised they will leave – as they are in demand
- Training alone will not deliver results
- Tendency to focus on training and not implementation of benefits
- ROI not tracked
- No formal adoption or entrenchment of LSS

Frustration due to lack of top management support







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# External Specialists





#### **External Specialists**

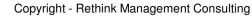
#### **Characteristics**

- Project specific
- High impact
- High focus on benefit realisation
- Use of external LSS specialist
- Should include skills transfer



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#### External Specialists...

#### **Advantages**

- Speed and results
- Competence and experience
- Good method of knowledge and skills transfer
- Frees internal capacity (less dedicated resources required)
- Does not distract from business as usual









#### External Specialists...

#### **Disadvantages**

- Expensive relative
- Client will be reliant on consultants to deliver LSS results
- No retention or development of internal knowledge or skills









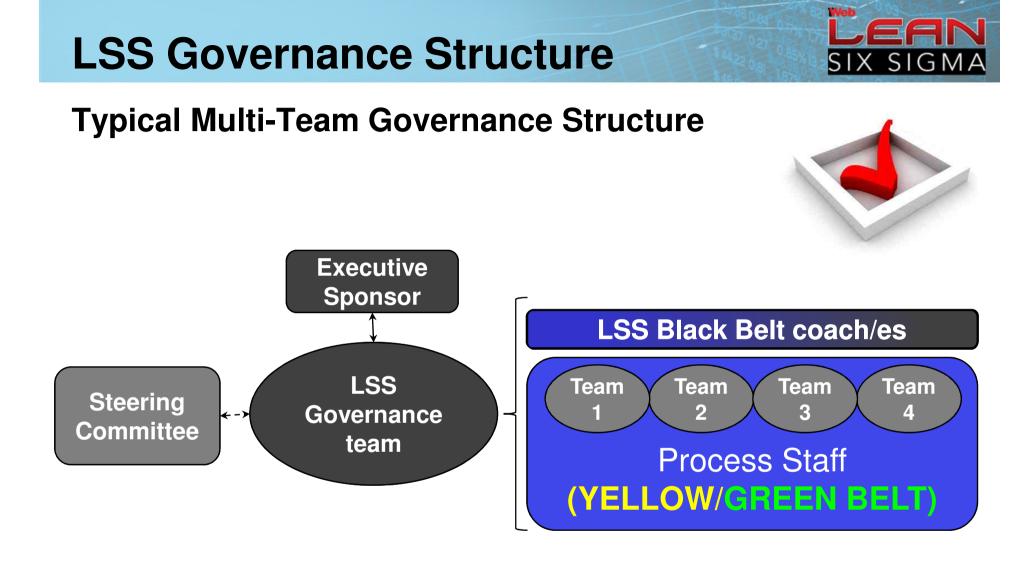




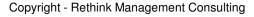
## Governance Structure















# Success Criteria





### **Success Criteria**

- Team members must sever from daily duties
  - Black Belts / team leaders HAVE to be dedicated
  - Team members less so, however less focus = less results
- Do not treat LSS as an academic exercise
- You must measure and communicate RESULTS
- You need to use the appropriate tool for the problem
- Do not underestimate the people component in implementing LSS, Change Management is key
- Team members have to get your hands dirty to achieve results
- You must have clear goals when deploying LSS (LSS is not a flavour of the month)
- Clear link to organisation strategy







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# So which LSS approach?





## So which LSS approach?



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	Yellow	Green	Black
High Benefit Process Optimisation and DFSS	n		
Moderate Benefit   Process Simplification   Basic Tools & Lean   Methods	on,		
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# Questions?

#### Thank You

