

# THE KEY COMPONENTS OF A SIX SIGMA DEPLOYMENT



# Six Sigma Deployment

**Keith Gardner**



## **Six Sigma Deployment:**

**Six Sigma Deployment** Cary Adams, Praveen Gupta, Charlie Wilson, 2007-06-07 Six Sigma Deployment provides a thorough understanding of the Six Sigma methodologies and its implementation in various industries. The authors offer practical information for successful implementation as well as what is needed to plan, monitor, and steer this business strategy toward success. The authors begin with an introduction to the Six Sigma initiative by offering a chronology of events from the origin of Six Sigma to the present. This includes the changing view of quality and how companies have benefited. Readers are also introduced to the currently popular breakthrough strategy and learn how this compares to the original methodology. Along with this, the different belts are explained in detail as to what the variations are among various service providers. Some of the unique aspects of this book include the use of Six Sigma with the various quality standards that are being implemented today, the implementation of Six Sigma in supply chain management, stream, and the analysis of different methods used by various companies, the strengths and weaknesses of each, results achieved, and finally lessons learned. In addition, an appendix is provided that includes the various statistical or non-statistical tools employed during the implementation of Six Sigma.

**Six Sigma Deployment** Cary W. Adams, Praveen Gupta, Charles E. Wilson, *Lessons Learned from an Unconventional Design for Lean Six Sigma Deployment* Norman E. Fowler, 2008-01 When companies consider implementing a Design for Lean Six Sigma program, they often rely on a content and deployment recipe similar to their DMAIC Lean Six Sigma program. Though this might work for some companies and situations, we concluded that for replicating Xerox's DMAIC deployment, would not meet our product design community culture as well as the captured Voice of the Business and Voice of the Customer requirements. This book outlines how Xerox took an unconventional approach to our Design for Lean Six Sigma content and certification development as well as overall corporate-wide deployment. It captures detailed descriptions of the series of program activities, decisions, and lessons learned from our development and deployment of our successful Design for Lean Six Sigma initiative.

**Lean Six Sigma Roundup** Jd Sicilia, 2009-12 Read about what worked and what didn't work in the largest deployment of Lean Six Sigma ever attempted. Find out how you can save time, money, and frustration by learning from the Department of Defense experience with this large-scale roll-out of management science. Replicate some of the best practices in performance management demonstrated in the government environment.

**Successfully Implementing Lean Six Sigma** Keith Gardner, 2013-01-01 **Lean Six Sigma Deployment** Randall H. Gay, 2011 **The Lean Six Sigma Deployment Memory Jogger** Jaime Villafuerte, 2012-06-25

*A Multiple-Case Analysis of Lean Six Sigma Deployment and Implementation Strategies* Peter M. O'Rourke, 2025-05-22 Lean and Six Sigma are recent developments in continuous improvement methodology that have been popularized by several high-profile companies. The success and complementary nature of these methodologies has led to their combination into a single methodology commonly called Lean Six Sigma or Lean Sigma. Although there is considerable literature available and

many consultants involved with Lean Six Sigma very little published research addresses the practical experiences of companies that have implemented Lean Six Sigma The research question for this research is How and why are certain private sector implementations of Lean Six Sigma successful or unsuccessful The investigative questions further focused the research question and identified several factors that appeared to significantly contribute to implementation success This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

*Six Sigma for Small and Mid-sized Organizations* Terence T. Burton, Jeff L. Sams, 2005-03-15 Many smaller and mid sized corporations can benefit from Six Sigma methods but are struggling with how to deploy them on the scale suitable for their organizations This book delineates the leadership strategy implementation planning execution integration and performance measurement issues that are universal to all organizations It is a practical give me the answers quick Six Sigma guide for smaller businesses Terence T Burton is Founder and President of The Center for Excellence in Operations Inc He has over 30 years of experience in operations Jeff L Sams is Director of North American Operations for Casco Products a Unit of Sequa Corporation He is also a Six Sigma Master Blackbelt

**A Multiple-case Analysis of Lean Six Sigma Deployment and Implementation Strategies** Peter M. O'Rourke, 2005 [Design for Six Sigma, Chapter 4 - Design for Six Sigma Deployment](#) Kai Yang, Basem El-Haik, 2008-08-15 Here is a chapter from an updated Design for Six Sigma Second Edition which has extensive new chapters and learning modules on innovation lean product development computer simulation and critical parameter management plus new thread through case studies This updated edition provides unrivalled real world product development experience and priceless walk throughs that help you choose the right design tools at every stage of product and service development The book includes detailed directions careful comparisons and work out calculations that make every step of the Design for Six Sigma process easier [Business Deployment](#) Forrest W. Breyfogle, III, 2008-04 Integrated Enterprise Excellence IEE introduces a new organizational governance system that integrates analytics with innovation The IEE system shows business leaders what to measure and report when and how to report it how to interpret and use the results to establish goals how to orchestrate work activities and how to develop strategies that are consistent with established goals

These strategies ultimately lead to specific projects that enhance organizational focus and success This volume discusses problems encountered with traditional scorecard business management and enterprise improvement systems describes how IEE helps organizations overcome these issues by utilizing an enterprise process define measure analyze improve control E DMAIC system and details the execution of this system **Quality Function Deployment and Lean Six Sigma**

**Applications in Public Health** Grace L. Duffy, John W. Moran, 2010-01-27 The public health industry has recognized the value of continuous improvement Quality Improvement QI teams are engaged across the country in identifying root causes of the issues which prevent us from providing the best public health services to communities and individuals The tools of quality when used effectively will truly make a difference in the public s health It is time to take a more advanced approach for cross functional and long term improvements that will achieve the systems level results the public deserves The purpose of this book is to introduce the concepts embedded in Quality Function Deployment QFD and Lean Six Sigma to help Public Health professionals in their implementation of quality improvement within their agencies The tools and techniques of QFD and Lean Six Sigma can help problem solving teams by providing insight into customer needs and wants the design and development of customer centric processes and mapping value streams Both QFD and Lean Six Sigma focus on doing the most with the resources we have The methods in this text are the next step to harness the energy enthusiasm hard work and dedication of our public health workforce to make a lasting difference By effectively expanding the use of QI tools and techniques we can and will improve our nation s health and the health of the many communities we serve Leading Lean Six Sigma Alessandro Laureani, Jiju Antony, 2021-06-08 Leading Lean Six Sigma Research on Leadership for Operational Excellence Deployment assesses the impact of organizational leadership on the deployment of Lean Six Sigma in organisations This book details what leadership traits are needed for a successful deployment presenting a ground breaking leadership dependency model Factors Critical to a Sustainable Deployment of Lean Six Sigma in Australian Business Roger John Hilton, 2013 Over the last two decades manufacturers in Australia have implemented process improvement methodologies to assist in driving down the costs of operations brought on by customers wanting better quality and responsiveness Closely following in the footsteps of the manufacturers since the early 2000 s are service organizations including those in Healthcare Finance Banking IT and Government Public sector Lean Six Sigma is one such process improvement methodology It is seen as the latest philosophy of continuous improvement in many companies world wide Following an extensive literature review it is clear that Lean Six Sigma has been based on earlier continuous improvement philosophies like Total Quality Management as well as the combination of Lean and Six Sigma There are clearly some similarities and differences between Lean Six Sigma and Total Quality Management It is not clear in the literature whether companies are deploying Lean Six Sigma because the previous initiatives failed and it will result in better outcomes or it is a natural progression to adopt a new innovation and a new technique It is not clear if the drivers to deploy Lean Six Sigma are

different to previous quality improvement initiatives Total Quality Management was introduced in the 1980 s to create a culture of continuous improvement improve quality and enhance an organization s competitive advantage and it is interesting to establish if Lean Six Sigma has been deployed to deliver something else or the same since Total Quality Management did not deliver the expected benefits It is clear in the literature that Lean Six Sigma has been successful but success seems to vary according to the performance or success measure used For example if success is defined as higher market share then Lean Six Sigma may not be deemed successful but if success is defined as process cost reduction or savings resulting from an improvement project due to better delivery performance and process capability then it may be deemed successful The literature covers the concept of a Mature deployment of Lean Six Sigma which is another way of measuring success apart from success from improvement projects An organization which has a high level of maturity and where projects are successful is one that is likely to have a culture of sustainable continuous improvement Little attention has been directed towards how Lean Six Sigma should be deployed Some companies have deployed Six Sigma first then Lean and other companies have deployed Lean first to identify low hanging fruit and then implemented Six Sigma and others have implemented the combined program from day one Also the literature suggests that deployment of Lean Six Sigma needs to be different in small and medium sized organizations In the literature it is clear that the phases of a Six Sigma methodology Define Measure Analyze Improve Control are well defined but there has been little attention given to the definition of what constitutes a Lean Six Sigma methodology For example in many companies Lean Six Sigma deployments use the DMAIC methodology and also use Lean tools at various stages and in others Lean is separately deployed concurrently with DMAIC Factors critical to success of Lean Six Sigma have been identified in the literature It is unclear whether these factors are critical to short term gains or long term sustainable benefits This phenomenon also seems to be the case for Total Quality Management TQM implemented by many organizations around the world during the 1990 s Included in these critical success factors for Lean Six Sigma is the need for highly trained Lean Six Sigma experts known as Master Black Belts and Black Belts and other levels of Belts and the importance of corporate or organizational factors In the literature the concept of a competency based perspective of these factors is introduced In Australia Lean Six Sigma has been deployed successfully in many companies involved in manufacturing and service both large and small and medium sized and in the public sector However it has been disbanded in some companies because of an apparent failure of the program which also appears to be the case for some Total Quality Management deployments It is unclear as to why this has happened but it is suggested that it is so due to the different measures of success of the program Also in Australia some anecdotal evidence suggests that the ongoing deployment of Lean Six Sigma is susceptible to a change of the Chief Executive Officer of the organization Other evidence suggests that the companies that disbanded the program some years ago are re deploying it using funding provided by the Australian Federal and State Governments Further evidence suggests that the Lean Six Sigma programs are now

becoming very successful in many other industry sectors like Healthcare and Government in Australia Thus in this thesis the researcher considers the following research questions relating to a Lean Six Sigma deployment 1 What are the key drivers and success measures of a Lean Six Sigma deployment 2 How has Lean Six Sigma been deployed and is it affected by organizational size 3 What are the competencies of an organization that result in the successful deployment of Lean Six Sigma 4 What are the personal competencies of the deployment leader and project leaders for the Lean Six Sigma deployment to be successful 5 What success factors are common between Lean Six Sigma and previous quality improvement initiatives such as Total Quality Management TQM In developing and examining these questions a comprehensive literature review and four fieldwork phases involving qualitative and quantitative research was completed There are two fieldwork phases using qualitative research fieldwork phases 1 and 3 and two fieldwork phases using quantitative research fieldwork phases 2 and 4 Fieldwork phase 1 Chapter 4 involves face to face interviews using semi structured questions with senior managers in organizations in Australia that have deployed Lean Six Sigma Seven case organizations have been selected four cases in manufacturing and three in service This has revealed a number of significant issues relating to key drivers deployment strategies critical success factors and challenges and benefits of the deployment Factors critical to success include organizational competencies and competencies of the experts involved in Lean Six Sigma Fieldwork phase 2 Chapter 5 considers an in depth analysis of Lean Six Sigma in one of the seven organizations The aim of fieldwork phase 2 was to gain insights into the relationship between critical success factors and performance measures for this case The case was in Healthcare and was chosen as a result of the interest of the interviewee in fieldwork phase 1 to examine their improvement program more fully using input from all senior managers Fieldwork phase 3 Chapter 6 involves the use of an open questionnaire with two Lean Six Sigma experts The aim of fieldwork phase 3 was to gain further insights into the required competencies of the Master Black Belt and Black Belt in Lean Six Sigma Using the insights from fieldwork phases 1 2 and 3 a model for the sustainable deployment of Lean Six Sigma program was developed Sustainability is defined as the combination of successful projects and a level of maturity of the Lean Six Sigma deployment Fieldwork phase 4 chapter 7 involves testing the developed model using a National Survey of Operations Excellence Managers in Australian organizations that have deployed Lean Six Sigma The aim of fieldwork phase 4 is to obtain objective evidence of what factors are critical for a sustainable Lean Six Sigma deployment A number of key insights are revealed contributing to the theory and practice of Lean Six Sigma A discussion of the key insights are presented in chapter 8 followed by conclusions and recommendations being presented in chapter 9

**Six Sigma Deployment** Paul A. Keller,2001      **Leading Six Sigma** Ronald D. Snee,2003

In *Leading Six Sigma* two of the world s most experienced Six Sigma leaders offer a detailed step by step strategy for leading Six Sigma initiatives in your company Top Six Sigma consultant Dr Ronald D Snee and GE quality leader Dr Roger W Hoerl show how to deploy a Six Sigma plan that reflects your organization s unique needs and culture while also leveraging key

lessons learned by the world's most successful implementers Snee and Hoerl share leadership techniques proven in companies both large and small and in business functions ranging from R D and manufacturing to finance They also present a start to finish sample deployment plan encompassing strategy goals metrics training roles and responsibilities reporting rewards and management review Whether you're a CEO line of business leader or a project leader Leading Six Sigma gives you the one thing other books on Six Sigma lack a clear view from the top The right projects the right people Identifying your company's most promising Six Sigma opportunities and leaders How to hit the ground running Providing leadership talent and infrastructure for a successful launch From launch to long term success Implementing systems processes and budgets for ongoing Six Sigma projects Getting the bottom line results that matter most Measuring and maximizing the financial value of your Six Sigma initiative Four detailed case studies What works and what doesn't Avoiding the subtle mistakes that can make Six Sigma fall short Proven techniques for leading successful quality initiatives The Six Sigma guide designed specifically for business leaders Co authored by Dr Roger W Hoerl a leader in implementing Six Sigma at GE Draws on Six Sigma experiences at over 30 leading companies Covers the entire Six Sigma lifecycle from planning onward Presents new solutions for overcoming the cultural resistance to Six Sigma initiatives Leading Six Sigma offers an insider's view of what it really takes to lead a successful Six Sigma initiative drawing on the authors experience at the top levels of the world's largest and most challenging organizations Dr Ronald D Snee shares experiences drawn from executive level consulting at over 30 major companies Dr Roger W Hoerl teaches powerful lessons from his experience in pioneering Six Sigma throughout GE during the Jack Welch era Together they offer unprecedented executive guidance on the issues most crucial to senior managers covering every stage from planning through ongoing management Snee and Hoerl offer practical solutions for the cultural challenges and human resistance that face any executive seeking to initiate Six Sigma or improve an existing program They even explain how and when to wind down initiatives transitioning Six Sigma to a fact of life that doesn't require the support of a massive centralized infrastructure This is a truly insightful and well researched book on Six Sigma by two of the leading experts in the field Their roadmap for successful deployment is supported by the experiences of major corporations including GE and Honeywell It is extremely well presented in a step by step manner and backed up by real business case examples Bravo to the authors in bringing us a book that should be at the ready reach of leadership of organizations and the practitioners of Six Sigma It reminded me so much of In Search of Excellence as far as its potential impact on the way businesses can be successful

**Six Sigma Deployment** Paul Andrew Keller, 2001 [An Analytical Approach to Lean Six Sigma Deployment Strategies](#) Brett Duarte, 2011 The ever changing economic landscape has forced many companies to re-examine their supply chains Global resourcing and outsourcing of processes has been a strategy many organizations have adopted to reduce cost and to increase their global footprint This has however resulted in increased process complexity and reduced customer satisfaction In order to meet and exceed customer expectations many companies



are forced to improve quality and on time delivery and have looked towards Lean Six Sigma as an approach to enable process improvement. The Lean Six Sigma literature is rich in deployment strategies; however, there is a general lack of a mathematical approach to deploy Lean Six Sigma in a global enterprise. This includes both project identification and prioritization. The research presented here is two fold. Firstly, a process characterization framework is presented to evaluate processes based on eight characteristics. An unsupervised learning technique using clustering algorithms is then utilized to group processes that are Lean Six Sigma conducive. The approach helps Lean Six Sigma deployment champions to identify key areas within the business to focus a Lean Six Sigma deployment. A case study is presented and 33% of the processes were found to be Lean Six Sigma conducive. Secondly, having identified parts of the business that are lean Six Sigma conducive, the next steps are to formulate and prioritize a portfolio of projects. Very often, the deployment champion is faced with the decision of selecting a portfolio of Lean Six Sigma projects that meet multiple objectives which could include maximizing productivity, customer satisfaction, or return on investment while meeting certain budgetary constraints. A multi period 0/1 knapsack problem is presented that maximizes the expected net savings of the Lean Six Sigma portfolio over the life cycle of the deployment. Finally, a case study is presented that demonstrates the application of the model in a large multinational company. Traditionally, Lean Six Sigma found its roots in manufacturing. The research presented in this dissertation also emphasizes the applicability of the methodology to the non manufacturing space. Additionally, a comparison is conducted between manufacturing and non manufacturing processes to highlight the challenges in deploying the methodology in both spaces.

**A Literature Review of Lean Six Sigma Deployment in Private Sector Organizations** Jimmy Flood, 2012

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