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[System Cascades](#) **Agile Project Management for Government Deliverology 101 An Introduction to Global Health Delivery Large-Scale Organizational Change Governance and Governmentality for Projects**

Nanotechnology-based therapeutics, operating at scales of billionths of a metre, have great potential for future expansion in altering the scale and methods of drug delivery. The availability of these novel formulations to once-inaccessible areas of the body has greatly expanded the therapeutic window of existing drug molecules. Nanoparticulate drug delivery highlights and examines the transition of nanoparticulate drug delivery systems from the laboratory into a commercially viable sector. The first chapters of the book provide an overview of the use and characterization of nanoparticulate systems as drug carriers, including the assessment of their morphology, sterility and potential toxicity. In the latter part of the book, chapters cover nanotoxicology, regulatory aspect and clinical trials, ending with an overview of several case studies and a look towards future developments. Discusses the issues surrounding nanoparticulate products, based on personal experience of their formulation Provides an overview of new application areas, including RNA interference Outlines the pros and cons of nanoparticulate products, and discusses how these may influence their route into the commercial sector This book unravels the mystery of Big Data computing and its power to transform business operations. The approach it uses will be helpful to any professional who must present a case for realizing Big Data computing solutions or to

those who could be involved in a Big Data computing project. It provides a framework that enables business and technical managers to make optimal decisions necessary for the successful migration to Big Data computing environments and applications within their organizations. This book presents a multidisciplinary assessment of the state of science in the use of systemic delivery technologies to deliver anti-aging therapeutics now under development. There is a gap between basic aging research and the development of intervention technologies. This major obstacle must be overcome before biogerontological interventions can be put into clinical practice. As biogerontology comes to understand aging as a systemic degenerative process, it is clear that there is a pressing need for technologies that enable cells and tissues in a fully developed adult body to be manipulated systemically to combat aging. The authors review advances in the chemistry and engineering of systemic delivery methods and analyze the strengths and limitations of each. The book is organized into six sections. The first offers an overview of the need for systemic delivery technologies alongside the development of anti-aging therapies and describes approaches that will be required for studying the properties and efficiency of carriers for systemic delivery. Sections II, III and IV describe recent advances in a range of strategies that may enable systemic delivery to help combat aging conditions ranging from cell senescence to decline in immune function and hormonal secretion. Section V discusses practical strategies to engineer and optimize the performance of delivery technologies for applications in systemic delivery, along with their working principles. The final section discusses technical and biological barriers that must be overcome as systemic delivery technologies move from research laboratory to clinical applications aimed at tackling aging and age-associated diseases. Benefiting scholars, students and a broader audience of interested readers, the book includes helpful glossary sections in each chapter, as well as sidebars that highlight important notes, and questions for future research. This book is a guide to building a digital institution. It explains how a growing band of reformers in businesses and governments around the world have helped their

organisations pivot to a new way of working, and what lessons others can learn from their experience. The secret of achieving and sustaining organizational excellence revealed In an ever-changing world where only a third of excellent organizations stay that way over the long term, and where even fewer are able to implement successful change programs, leaders are in need of big ideas and new tools to thrive. In *Beyond Performance*, McKinsey & Company's Scott Keller and Colin Price give you everything you need to build an organization that can execute in the short run and has the vitality to prosper over the long term. Drawing on the most exhaustive research effort of its kind on organizational effectiveness and change management, Keller and Price put hard science behind their big idea: that the health of an organization is equally as important as its performance. In the book's foreword, management guru Gary Hamel refers to this notion as "a new manifesto for thinking about organizations." The authors illustrate why copying management best practices from other companies is more dangerous than helpful. Clearly explains how to determine the mutually reinforcing combination of management practices that best fits your organization's context. Provides practical tools to achieve superior levels of performance and health through a staged change process: aspire, assess, architect, act, and advance. Among these are new techniques for dealing with those aspects of human behavior that are seemingly irrational (and therefore confound even the smartest leaders), yet entirely predictable. Ultimately, building a healthy organization is an intangible asset that competitors copy at their peril and that enables you to skillfully adapt to and shape your environment faster than others—giving you the ultimate competitive advantage. In *The Centennial Cure*, the second volume in the *Studies in Atlantic Canada History* series, Meaghan Elizabeth Beaton critically examines the intersection of state policy, cultural development, and commemoration in Nova Scotia during Canada's centennial celebrations. Beaton's engaging and insightful analysis of four case studies— the establishment of the Cape Breton Miners' Museum, the construction of Halifax's Centennial Swimming Pool, the Community Improvement Program, and the 1967 Nova Scotia Highland Games and Folk Festival—

-reveals the province's attempts to reimagine and renew public spaces. Through these case studies Beaton illuminates the myriad ways in which Nova Scotians saw themselves, in the context of modernity and ethnic identity, during the post-war years. The successes and failures of these infrastructure and cultural projects, intended to foster and develop cultural capital, reflected the socio-economic realities and dreams of local communities. The Centennial Cure shifts our focus away from the dominant studies on Expo'67 to provide a nuanced and tension filled account of how Canada's 1967 centennial celebrations were experienced in other parts of Canada. With his new book, *More Process Patterns*, Scott Ambler picks up where *Process Patterns* left off. In this book, the author presents process patterns for the second half of the development lifecycle. He covers the Deliver phase and the Maintain and Support phase of large-scale, object-oriented system development. Each presented pattern is based upon proven, real-world techniques and is geared toward medium to large-size organizations who need to develop software internally to support their main line of business. The book covers major management issues, such as people and risk management, and quality assurance. Developers and project managers who have just taken their first OO development course will find this book essential. It takes the true needs of software development and delivery into consideration, including cross-project, maintenance, operations, and support issues. This book uses the Unified Modeling Language (UML). You know the Agile and Lean development buzzwords, you've read the books. But when systems need a serious overhaul, you need to see how it works in real life, with real situations and people. *Lean from the Trenches* is all about actual practice. Every key point is illustrated with a photo or diagram, and anecdotes bring you inside the project as you discover why and how one organization modernized its workplace in record time. *Lean from the Trenches* is all about actual practice. Find out how the Swedish police combined XP, Scrum, and Kanban in a 60-person project. From start to finish, you'll see how to deliver a successful product using Lean principles. We start with an organization in desperate need of a new way of doing things and finish with a group of

sixty, all working in sync to develop a scalable, complex system. You'll walk through the project step by step, from customer engagement, to the daily "cocktail party," version control, bug tracking, and release. In this honest look at what works--and what doesn't--you'll find out how to: Make quality everyone's business, not just the testers. Keep everyone moving in the same direction without micromanagement. Use simple and powerful metrics to aid in planning and process improvement. Balance between low-level feature focus and high-level system focus. You'll be ready to jump into the trenches and streamline your own development process. Most transformations and large-scale change programs fail, but in a rapidly changing world change is becoming more and more critical for survival. The *HERO Transformation Playbook* is your step-by-step playbook of EXACTLY how to deliver successful transformations and large-scale change programs with the best chance of success using the *HERO Transformation Framework*: a clear method to help you design transformation for maximum enterprise value creation and then deliver the outcome in a repeatable fashion. We built our framework through trial and error, learning from our mistakes and successes and solving common issues we came across and pitfalls that we have seen time and again. We then spent many years honing the framework, removing the fluff, distilling the concepts until it contained everything you need to succeed in the challenging world of change. In this book we teach you everything we've learned - including all of the roles, processes, meetings, governance, and templates for you to follow and apply to your transformation today - so that you can crack the code of change and lead successful transformations on your own. The more successful transformations that are delivered, the better the world will be for everyone! Governments on both sides of the Atlantic have committed to introducing agile change management for faster results with cheaper implementation at lower risk. The first hands-on guide is designed to help public sector leaders reap the rewards of agile methods, based on the latest national and international research. In *Large-Scale Scrum*, Craig Larman and Bas Vodde offer the most direct, concise, actionable guide to reaping the full benefits of agile in distributed, global

enterprises. Larman and Vodde have distilled their immense experience helping geographically distributed development organizations move to agile. Going beyond their previous books, they offer today's fastest, most focused guidance: "brass tacks" advice and field-proven best practices for achieving value fast, and achieving even more value as you move forward. Targeted to enterprise project participants and stakeholders, Large-Scale Scrum offers straight-to-the-point insights for scaling Scrum across the entire project lifecycle, from sprint planning to retrospective. Larman and Vodde help you: Implement proven Scrum frameworks for large-scale developments Scale requirements, planning, and product management Scale design and architecture Effectively manage defects and interruptions Integrate Scrum into multisite and offshore projects Choose the right adoption strategies and organizational designs This will be the go-to resource for enterprise stakeholders at all levels: everyone who wants to maximize the value of Scrum in large, complex projects. Research shows that enriching learning experiences such as learning communities, service-learning, undergraduate research, internships, and senior culminating experiences - collectively known as High-Impact Practices (HIPs) - are positively associated with student engagement; deep, and integrated learning; and personal and educational gains for all students - particularly for historically underserved students, including first-generation students and racially minoritized populations. While HIPs' potential benefits for student learning, retention, and graduation are recognized and are being increasingly integrated across higher education programs, much of that potential remains unrealized; and their implementation frequently uneven. Colleges are eager to use the HIP nomenclature for recruitment, promoting equity for traditionally underserved student populations, and preparing lifelong learners and successful professionals. However, HIPs defy easy categorization or standardized implementation. They rely on fidelity, quality, and consistency - being "done well" - to achieve their learning outcomes; and, above all, require attention to access and equity if they are to fulfill their promise of benefitting all student populations equally. The goal of Delivering on the Promise of High-Impact Practices is to provide

examples from around the country of the ways educators are advancing equity, promoting fidelity, achieving scale, and strengthening assessment of their own local high-impact practices. Its chapters bring together the best current scholarship, methodologies, and evidence-based practices within the HIPs field, illustrating new approaches to faculty professional development, culture and coalition building, research and assessment, and continuous improvement that help institutions understand and extend practices with a demonstrated high impact. For proponents and practitioners this book offers perspectives, data and critiques to interrogate and improve practice. For administrators it provides an understanding of what's needed to deliver the necessary support. Written by one of the best known object-oriented practitioners in the business, Process Patterns is based on proven, real-world techniques. Scott Ambler shows readers how to successfully deliver large-scale applications using object technology and carefully describes how one develops applications that are truly easy to maintain and to enhance. He shows how such projects can be supported and points out what is necessary to ensure that one's development efforts are of the best quality. His object-oriented software process (OOSP) is geared toward medium to large-size organizations that need to internally develop software to support their main line of business. Developers and project managers who have just taken their first OO development course will find this book essential. It describes the only OOSP to take the true needs of development into consideration, including cross-project, maintenance, operations, and support issues. This book uses the Unified Modeling Language (UML). This research-based book takes an organization-wide perspective to describe the governance and governmentality for projects in organizations. Governance of projects defines and directs the ways managers of projects, programs, and project portfolios carry out their work. Governmentality is the way the managers of these managers present themselves to those they lead. Governance and Governmentality for Projects starts with introducing existing theories, models and paradigms for governance and governmentality. It then develops a chronological framework of the ways governance and governmentality

for projects is enabled in organizations, how it subsequently unfolds in organizations of different types and sectors, and the consequences of different governance approaches for project results, trust, control, and ethical issues in projects. Special emphasis is given to the link between corporate governance and the governance of project, programs and project portfolios. Three real-life case studies exemplify the research findings described in the book. Through its structure this book describes the development of governance and governmentality in the realm of projects from its organizational origins, via observable practices, to expected consequences of different implementations. Aimed at academics, post-graduate students in business and management, reflective practitioners, standards or policy developers, those in governance roles and others in need of a detailed knowledge of the spectrum of project related governance in organizations, this book will help develop a comprehensive understanding of the theoretical and practical underpinnings of the subject, their interaction, and implications for implementation. This allows for understanding and developing of both generic and idiosyncratic governance structures, such as those needed in project-based organizations. In the quest for innovative drug delivery systems attempting to meet the unmet needs in pharmaceutical space, research has taken a much more complicated path that poses a significant challenge for translation. Despite the progress made with novel materials, polyesters still remain at the helm of drug delivery technologies. This book provides a single source of reference of polyester drug delivery systems that covers a broad spectrum of materials design, manufacturing techniques, and applications. A step-by-step approach to delivering results Michael Barber, former chief advisor on delivery to British Prime Minister Tony Blair, and his colleagues thoroughly describe his proven reform delivery processes in this practical field guide. Citing education reform case studies from more than 20 countries, he asserts that most previous reforms were unsuccessful due to failed implementation. The central challenge is getting it done. This book focuses on how to accomplish meaningful results, including: Significant and ongoing education reform Excellence and equity across public

education Students who are prepared to lead America's future Based on a modern, networked design, "data mesh" is a novel approach to organizing analytical data. It makes it possible for end users to quickly access and query data without having to first transfer it to a data lake or warehouse. Data Mesh uses a decentralized architecture to distribute ownership of the data to domain-specific teams that manage, update, and offer data as a product. This book provides a thorough explanation of what a data mess is. In this book, theory of large scale optimization is introduced with case studies of real-world problems and applications of structured mathematical modeling. The large scale optimization methods are represented by various theories such as Benders' decomposition, logic-based Benders' decomposition, Lagrangian relaxation, Dantzig-Wolfe decomposition, multi-tree decomposition, Van Roy' cross decomposition and parallel decomposition for mathematical programs such as mixed integer nonlinear programming and stochastic programming. Case studies of large scale optimization in supply chain management, smart manufacturing, and Industry 4.0 are investigated with efficient implementation for real-time solutions. The features of case studies cover a wide range of fields including the Internet of things, advanced transportation systems, energy management, supply chain networks, service systems, operations management, risk management, and financial and sales management. Instructors, graduate students, researchers, and practitioners, would benefit from this book finding the applicability of large scale optimization in asynchronous parallel optimization, real-time distributed network, and optimizing the knowledge-based expert system for convex and non-convex problems. Large Scale Organizational Change provides the principles by which large scale organizations reinvent themselves not once, but on an ongoing basis. Continual reinvention allows leading companies to learn, adapt, and innovate faster than competitors in complex and fast changing environments. These action principles are based on first-hand experience at the world's leading Fortune 500 companies using emergent models of living systems. The context for large scale organizations is one of information overload, complexity and constant

change. This book reduces the sense of vulnerability felt by managers. It provides a guide to piloting change in ways that lead to constant renewal and a capacity to survive frequent and often brutal changes in the operating environment. It describes a leadership concerned with the capacity to learn, inflection points, emergent strategies, knowledge management, the ability to anticipate, and tapping into the distributed intelligence resident in the organization. Large Scale Organizational Change provides managers with a framework for making their organizations highly adaptive in the complex market systems in which they operate, thereby reducing or eliminating the need for periodic episodes of traumatic restructuring and sometimes fatal reengineering processes. Most transformations and large-scale change programs fail, but in a rapidly changing world change is becoming more and more critical for survival. The Transformation Playbook is your step-by-step playbook of EXACTLY how to deliver successful transformations and large-scale change programs with the best chance of success using the HERO Transformation Framework: a clear method to help you design transformation for maximum enterprise value creation and then deliver the outcome in a repeatable fashion. We built our framework through trial and error, learning from our mistakes and successes and solving common issues we came across and pitfalls that we have seen time and again. We then spent many years honing the framework, removing the fluff, distilling the concepts until it contained everything you need to succeed in the challenging world of change. In this book we teach you everything we've learned - including all of the roles, processes, meetings, governance, and templates for you to follow and apply to your transformation today - so that you can crack the code of change and lead successful transformations on your own. The more successful transformations that are delivered, the better the world will be for everyone! This volume provides a contemporary glance at the drastically expanding field of delivering large-scale education to unprecedented numbers of learners. It compiles papers presented at the CELDA (Cognition and Exploratory Learning in the Digital Age) conference, which has a goal of continuing to address these challenges and promote

the effective use of new tools and technologies to support teaching, learning and assessment. Given the emerging global trend to exploit the potential of existing digital technologies to improve the teaching, learning and assessment experiences for all learners in real-life contexts, this topic is a unifying theme for this volume. The book showcases how emerging educational technologies and innovative practices have been used to address core global educational challenges. It provides state-of-the-art insights and case studies of exploiting innovative learning technologies, including Massive Open Online Courses and educational data analytics, to address key global challenges spanning from online Teacher Education to large-scale coding competence development. This volume will be of interest to academics and professional practitioners working in the area of digital technology integration in teaching, learning and assessment, as well as those interested in specific conference themes (e.g., designing and assessing learning in online environments, assessing learning in complex domains) and presenters, invited speakers, and participants of the CELDA conference. Large Scale Wind Power Grid Integration: Technological and Regulatory Issues presents engineers with detailed solutions on the challenges of integrating and transmitting electricity generated from high power wind installations, covering all of the standard engineering issues associated with high power wind generation. The book includes detailed case studies from eight wind power bases in China, providing important insights for engineers in countries that are seeking to develop large-scale wind power farms. Also discussed is the emergence of 10 GW-level wind power bases that are now operational in China and those that are planned for offshore construction in Europe, the U.S., and other places in the world. China's leadership in Large-scale wind power bases with capacities over 1 GW (which already account for approximately 70%-80% of the total installed capacity in China) means that globally, engineers who are challenged with developing large-scale wind power installations can gain access to the experiences of Chinese engineers in this important technology. Presents the first book to extensively introduce the technique of 10-GW wind power base Discusses the technology of large-

scale wind power delivery and consumption, including the analysis, simulation and calculation of wind power delivery capacity, system stabilization and control, wind power prediction and forecasting, peak load and frequency regulation of power generation Introduces the background policy related to large-scale wind power delivery and the consumption plan, investigation of the present wind power policies around the world and the executive plan for the Jiuquan 10-GW wind power base Agile, a topic of growing importance in project management, is an iterative and incremental software developmental methodology that helps organizations to be more flexible to change and to deliver workable software in a shorter span of time. PMI-ACPSM is the new credential offered by the Project Management Institute, and validates a practitioner's ability to understand and apply agile principles and practices. PMI: Agile Certified Practitioner is a self-study guide that is essential reading for all PMI-ACPSM aspirants to clear the certification exam. Following an easy and a step-by-step learning approach, this book presents not only the basic agile concepts but also the latest developments in the field, based entirely on the guidelines from the Project Management Institute. In this classic text, Taiichi Ohno--inventor of the Toyota Production System and Lean manufacturing--shares the genius that sets him apart as one of the most disciplined and creative thinkers of our time. Combining his candid insights with a rigorous analysis of Toyota's attempts at Lean production, Ohno's book explains how Lean principles can improve any production endeavor. A historical and philosophical description of just-in-time and Lean manufacturing, this work is a must read for all students of human progress. On a more practical level, it continues to provide inspiration and instruction for those seeking to improve efficiency through the elimination of waste. "In 2019, a child born in Japan will live to the age of 84, whereas a child born in Sierra Leone will only live until the age of 54.1 Similar disparities exist between rich and poor communities within countries.2 These differences in life expectancy are not caused by genetics, biology, or culture. Health inequities are caused by poverty, racism, a lack of medical care, and other social forces that influence health. A critical

analysis of the historical roots of this gross and systemic inequality and of the political economy that continues inequality is a fundamental part of the study of global health"-- The impetus to purchase this book is to provide social profit leaders, change agents, and new organization development (OD) practitioners who need a simple "Monday-ready" tool kit so they can help their social profit organization build capacity. A complete large scale change approach is offered. This practitioner's playbook contains tactics and tools that can be experimented with by the social profit improvement team. A playbook allows the team to create, explore, and master without fear while learning. What is contained in this playbook has been tested across many for-profit and non- (social) profit organizations. It is designed to be a bridge for OD theories that have informed the work to field ready tools for large scale change. This book provides both explicit and tacit knowledge. The contents in this book have been tested in social profit projects. Many developing countries have the capacity to develop broad development policy directions and formulate development programs that are logical and consistent, but these do not obtain the desired or targeted results because of challenges in the delivery system. It is increasingly apparent that development efforts must be carefully crafted and targeted in the right way to achieve the most effective results in an efficient manner. Recent literature in development studies evidence the important role of 'delivery' in actualizing positive and efficient development impact. Improving delivery and development impact requires a multidisciplinary approach. Development practitioners devoted to rule of law and justice must conjoin their efforts, concepts, tools and knowledge with experts from various disciplines so as to shape a delivery system that adds economic and social value to ultimate beneficiaries of development. In the foregoing light, the book brings together the diverse perspectives of development experts, international lawyers, academics, researchers, legal practitioners, public and civil servants, and other professionals, in order to explore the values of voice, social contract and accountability, and thereby address the following issue: How can law and justice tools, concepts and knowledge - when anchored in values such as voice, social

contract and accountability - shape a delivery system that adds economic and social value to ultimate beneficiaries of development? The book revolves around a discussion of the three values of voice, social contract, and accountability as they relate to the role and function of law, rule of law, justice, judicial systems and other related areas, in delivering development impact. Additionally, the book departs from the legal and includes other multidisciplinary approaches in its discussion of the three values and their impact on delivery in development. The range of issues covered by the book include those relating to human rights, government policy, urban development, resource management, gender, social rights, economic reforms, financial empowerment, opportunity creation, governance, urban law, sustainable development and anti-corruption. Double your odds of leading successful, sustainable change Leaders aren't short on access to change management advice, but the jury has long been out as to which approach is the best one to follow. With the publication of Beyond Performance 2.0, the verdict is well and truly in. By applying the approach detailed by authors, Scott Keller and Bill Schaninger, the evidence shows that leaders can more than double their odds of success—from thirty percent to almost eighty. Whereas the first edition of Beyond Performance introduced the authors' "Five Frames of Performance and Health" approach to change management, the fully revised and updated Beyond Performance 2.0 has been transformed into a truly practical "how to" guide for leaders. Every aspect of how to lead change at scale is covered in a step-by-step manner, always accompanied by practical tools and real-life examples. Keller and Schaninger's work is distinguished in many ways, one of which is the rigor behind the recommendations. The underpinning research is the most comprehensive of its kind—based on over 5 million data points drawn from 2,000 companies globally over a 15-year period. This data is overlaid with the authors' combined more than 40 years of experience in helping companies successfully achieve large-scale change. As senior partners in McKinsey & Company, consistently named the world's most prestigious management consulting firm, Keller and Schaninger also draw on the shared experience of their colleagues from offices in over 60 countries

with unrivaled access to CEOs and senior teams. Beyond Performance 2.0 also dares to go against the grain—eschewing the notion of copying best practices and instead guiding leaders to make choices specific to their unique context and organization. It does this with meticulously balance of focus on short- and long-term considerations, and on fully addressing the hard technical and oft cultural elements of making change happen. Further, the approach doesn't just focus on delivering change; it builds an organization's muscle to continuously change, making it healthier so that it can act with increased speed and agility to stay perpetually ahead of its competition. Leaders looking for a proven approach to leading large-scale change from a trusted source have found what they are looking for in Beyond Performance 2.0. Today, even the largest development organizations are turning to agile methodologies, seeking major productivity and quality improvements. However, large-scale agile development is difficult, and publicly available case studies have been scarce. Now, three agile pioneers at Hewlett-Packard present a candid, start-to-finish insider's look at how they've succeeded with agile in one of the company's most mission-critical software environments: firmware for HP LaserJet printers. This book tells the story of an extraordinary experiment and journey. Could agile principles be applied to re-architect an enormous legacy code base? Could agile enable both timely delivery and ongoing innovation? Could it really be applied to 400+ developers distributed across four states, three continents, and four business units? Could it go beyond delivering incremental gains, to meet the stretch goal of 10x developer productivity improvements? It could, and it did—but getting there was not easy. Writing for both managers and technologists, the authors candidly discuss both their successes and failures, presenting actionable lessons for other development organizations, as well as approaches that have proven themselves repeatedly in HP's challenging environment. They not only illuminate the potential benefits of agile in large-scale development, they also systematically show how these benefits can actually be achieved. Coverage includes:

- Tightly linking agile methods and enterprise architecture with business objectives
- Focusing agile

practices on your worst development pain points to get the most bang for your buck • Abandoning classic agile methods that don't work at the largest scale • Employing agile methods to establish a new architecture • Using metrics as a "conversation starter" around agile process improvements • Leveraging continuous integration and quality systems to reduce costs, accelerate schedules, and automate the delivery pipeline • Taming the planning beast with "light-touch" agile planning and

lightweight long-range forecasting • Implementing effective project management and ensuring accountability in large agile projects • Managing tradeoffs associated with key decisions about organizational structure • Overcoming U.S./India cultural differences that can complicate offshore development • Selecting tools to support quantum leaps in productivity in your organization • Using change management disciplines to support greater enterprise agility