The Nexus Framework For Scaling Scrum Continuously Delivering An Integrated Product With Multiple Scrum Teams

Lean and Agile Development for Large-Scale Products: Key Practices for Sustainable Competitive Success Increasingly, large product-development organizations are turning to lean thinking, agile principles and practices, and large-scale Scrum to sustainably and quickly deliver value and innovation. Drawing on their long experience leading and guiding lean and agile adoptions for large, multisite, and offshore product development, internationally recognized consultant and best-selling author Craig Larman and former leader of the agile transformation at Nokia Networks Bas Vodde share the key action tools needed for success. Coverage includes Frameworks for large-scale Scrum for multihundred-person product groups Testing and building quality in Product management and the end of the "contract game" between business and R&D Envisioning a large release, and planning for multiteam development Low-quality legacy code: why it's created, and how to stop it Continuous integration in a large multisite context Agile architecting Multisite or offshore development Contracts and outsourced development In a competitive environment that demands ever-faster cycle times and greater innovation, the practices inspired by lean thinking and agile principles are ever-more relevant. Practices for Scaling Lean & Agile Development will help people realize a lean enterprise—and deliver on the significant benefits of agility. In addition to the action tools in this text, see the companion book Scaling Lean & Agile Development: Thinking and Organizational Tools for Large-Scale Scrumfor complementary foundation tools.

Carefully researched over ten years and eagerly anticipated by the agile community, Crystal Clear: A Human-Powered Methodology for Small Teams is a lucid and practical introduction to running a successful agile project in your organization. Each chapter illuminates a different important aspect of orchestrating agile projects. Highlights include Attention to the essential human and communication aspects of successful projects Case studies, examples, principles, strategies, techniques, and guiding properties Samples of work products from real-world projects instead of blank templates and toy problems Top strategies used by software teams that excel in delivering quality code in a timely fashion Detailed introduction to emerging best-practice techniques, such as Blitz Planning, Project 360º, and the essential Reflection

Workshop Question-and-answer with the author about how he arrived at these recommendations, including where they fit with CMMI, ISO, RUP, XP, and other methodologies A detailed case study, including an ISO auditor's analysis of the project Perhaps the most important contribution this book offers is the Seven Properties of Successful Projects. The author has studied successful agile projects and identified common traits they share. These properties lead your project to success; conversely, their absence endangers your project.

Climate extremes often imply significant impacts on human and natural systems, and these extreme events are anticipated to be among the potentially most harmful consequences of a changing climate. However, while extreme event impacts are increasingly recognized, methodologies to address such impacts and the degree of our understanding and prediction capabilities vary widely among different sectors and disciplines. Moreover, traditional climate extreme indices and large-scale multi-model intercomparisons that are used for future projections of extreme events and associated impacts often fall short in capturing the full complexity of impact systems. Climate Extremes and Their Implications for Impact and Risk Assessment describes challenges, opportunities and methodologies for the analysis of the impacts of climate extremes across various sectors to support their impact and risk assessment. It thereby also facilitates cross-sectoral and cross-disciplinary discussions and exchange among climate and impact scientists. The sectors covered include agriculture, terrestrial ecosystems, human health, transport, conflict, and more broadly covering the human-environment nexus. The book concludes with an outlook on the need for more transdisciplinary work and international collaboration between scientists and practitioners to address emergent risks and extreme events towards risk reduction and strengthened societal resilience. Provides an overview about past, present and future changes in climate and weather extremes and how to connect that knowledge to impact and risk assessment under global warming Presents different approaches to assess societal-relevant impacts and risk of climate and weather extremes, including compound events, and the complexity of risk cascades and the interconnectedness of societal risk Features applications across a diversity of sectors, including agriculture, health, ecosystem services and urban transport

The Nexus Framework for Scaling ScrumAddison-Wesley Professional

This open access book constitutes the research workshops, doctoral symposium and panel summaries presented at the 20th International Conference on Agile Software Development, XP

2019, held in Montreal, QC, Canada, in May 2019. XP is the premier agile software development conference combining research and practice. It is a hybrid forum where agile researchers, academics, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. Following this history, for both researchers and seasoned practitioners XP 2019 provided an informal environment to network, share, and discover trends in Agile for the next 20 years. Research papers and talks submissions were invited for the three XP 2019 research workshops, namely, agile transformation, autonomous teams, and large scale agile. This book includes 15 related papers. In addition, a summary for each of the four panels at XP 2019 is included. The panels were on security and privacy; the impact of the agile manifesto on culture, education, and software practices; business agility — agile's next frontier; and Agile — the next 20 years.

A Human-Powered Methodology for Small Teams
Scrum Insights for Practitioners
The Scrum Guide Companion
XP 2019 Workshops, Montréal, QC, Canada, May 21–25, 2019, Proceedings
Professional Scrum Development with Microsoft Visual Studio 2012
Innovation and Scaling for Impact
The Land-Water-Energy Nexus

The book's primary intention is to serve as a roadmap for professionals working in developing countries interested in the Nexus Water-Energy-Food-Ecosystems (WEFE) approach. The book shows a multi-disciplinary approach, showcasing the importance of the proper use of Nexus WEFE when implementing certain development programs in regions around the globe. It can be presented as a manual for an individual that either wishes to implement intervention projects following the NEXUS approach or students interested in cooperation and development. The book begins with a general explanation of the theoretical concepts and implementation processes of Nexus WEFE and continues getting into case studies, explaining the importance of proper implementation and potential drawbacks and solutions to them. This book has a particular focus on the European Union cooperation policies when implementing such an approach in developing countries.
Today, organisations want to scale Scrum to ever larger and more complex projects, driving the benefits of agility throughout the enterprise. But most conventional solutions to scaling

agility have added complexity and deviated from the principles that make Scrum so attractive. Scaling Scrum with Nexus introduces a better approach, reflecting the authors' many years of applying and scaling Scrum in multiple industries. Four leading Scrum.org experts introduce the Nexus Framework, showing how it enables smooth integration among multiple Scrum teams, as well as highly-effective collaboration with non-Scrum teams working on the same project. Drawing on their immense experience, they explain what Nexus is, how it works, and how it solves agile scalability problems that have bedeviled organisations for years. Next, they offer start-to-finish guidance for applying Nexus Framework principles throughout your own organisation. Readers will walk through forming a Nexus, organising work in a Nexus environment, managing and enabling a Nexus, and much more -- all that is needed to succeed with Scrum in even the most challenging global projects.

This is the definitive guide to maximizing the value of today's Scrum and DevOps methodologies with state-of-the-art Microsoft cloud tools and services, including Azure DevOps Services, specifically Azure Boards and Azure Test Plans. Renowned Scrum expert Richard Hundhausen has comprehensively revamped and updated his classic Professional Scrum Development with Microsoft Visual Studio 2012 to reflect the latest Scrum Guide, Microsoft's breakthrough development tools, GitHub integration, and developers' deeper experience with Scrum. Professional Scrum Development with Azure DevOps stands apart from all other Scrum and Azure guides by focusing on the fusion of today's most popular agile framework (Scrum) and ALM/DevOps toolset (Azure DevOps). Hundhausen shows how a professional Scrum team can more effectively plan, track, and manage its work with Azure Boards, Azure Test Plans, and related Azure DevOps features. He offers detailed coverage of team formation, backlogs, sprints, test plans, collaboration, flow, continuous improvement, and the real-world tradeoffs between using tools and interacting directly with other team members. To make this guide even more valuable, Hundhausen has crafted it to complement Scrum.org's popular Professional Scrum Developer (PSD) program, which he personally created with Scrum.org's Ken Schwaber.

"Our job as Scrum professionals is to continually improve our ability to use Scrum to deliver products and services that help customers achieve valuable outcomes. This book will help you to improve your ability to apply Scrum." —From the Foreword by Ken Schwaber, co-author of Scrum Mastering Professional Scrum is for anyone who wants to deliver increased value by using Scrum more effectively. Leading Scrum practitioners Stephanie Ockerman and Simon Reindl draw on years

of Scrum training and coaching to help you return to first principles and apply Scrum with the professionalism required to achieve its transformative potential. The authors aim to help you focus on proven Scrum approaches for improving quality, getting and using fast feedback, and becoming more adaptable, instead of "going through the motions" and settling for only modest improvements. Whether you're a Scrum Master, Development Team member, or Product Owner, you'll find practical advice for facing challenges with transparency and courage, overcoming a wide array of common challenges, and continually improving your Scrum practice. Realistically assess your current Scrum practice, and identify areas for improvement Recognize what a great Scrum Team looks like and get there Focus on "Done"—not "sort-of-Done" or "almost-Done" Measure and optimize the value delivered by every Product Increment Improve the way you plan, develop, and grow Clear away wider organizational impediments to agility and professionalism Overcome common misconceptions that stand in the way of progress Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. Establish business agility in your organization by applying industry-proven scaling strategies from popular Scrum frameworks such as Scrum of Scrums (SoS), Scrum@Scale, Nexus, Large-Scale Scrum (LeSS), Disciplined Agile, and SAFe Key FeaturesLearn how to be Agile at scale by implementing best practicesUnderstand how Lean-Agile practices are incorporated in Disciplined Agile and the Scaled Agile Framework (SAFe)Customize Scrum and Lean-Agile practices to support portfolio and large product development needsBook Description Scaled Scrum and Lean-Agile practices provide essential strategies to address large and complex product development challenges not addressed in traditional Scrum. This Scrum/ Lean-Agile handbook provides a comprehensive review and analysis of industry-proven scaling strategies that enable business agility on an enterprise scale. Free of marketing hype or vendor bias, this book helps you decide which practices best fit your situation. You'll start with an introduction to Scrum as a lightweight software development framework and then explore common approaches to scaling it for more complex development scenarios. The book will then guide you through systems theory, lean development, and the application of holistic thinking to more complex software and system development activities. Throughout, you'll learn how to support multiple teams working in collaboration to develop large and complex products and explore how to manage cross-team integration, dependency, and synchronization issues. Later, you'll learn how to improve enterprise operational efficiency across value creation and value delivery activities, before

discovering how to align product portfolio investments with corporate strategies. By the end of this Scrum book, you and your product teams will be able to get the most value out of Agile at scale, even in complex cyber-physical system development environments. What you will learnUnderstand the limitations of traditional Scrum practicesExplore the roles and responsibilities in a scaled Scrum and Lean-Agile development environmentTailor your Scrum approach to support portfolio and large product development needsApply systems thinking to evaluate the impacts of changes in the interdependent parts of a larger development and delivery systemScale Scrum practices at both the program and portfolio levels of managementUnderstand how DevOps, test automation, and CI/CD capabilities help in scaling Scrum practicesWho this book is for Executives, product owners, Scrum masters, development team members, and other stakeholders who need to learn how to scale Agile to support large, complex projects and large enterprise portfolios and programs will find this book useful. A basic understanding of the values and principles of Agile and the Scrum-based framework for Agile development practices is required before you get started with this Agile Scrum book.
A Path Forward
Implement Scrum and Lean-Agile techniques across complex products, portfolios, and programs in large organizations
Thucydides on Strategy
Drawdown
Climate Extremes and Their Implications for Impact and Risk Assessment
Implementing the Water-Energy-Food- Ecosystems Nexus and Achieving the Sustainable Development Goals
An Indian Perspective

Hiren Doshi, Scrum.org Professional Scrum Trainer & Coach in his book, Scrum Insights for Practitioners: The Scrum Guide Companion helps the practitioners master the Scrum framework by gaining in-depth practical insights and helps answer questions like: What are some common myths, mysteries, and misconceptions of Scrum? The Scrum Guide recommends three to nine members in a Development Team, but we have fifteen members. Is this Scrum? Can you share some tactics to do effective Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective, and Product Backlog Refinement? My designation is development manager.

Does this mean I have no role in Scrum? How is Scrum Empirical? Can Scrum Master and Product Owner be the same person? We don't have a Scrum Master. Are we still practicing Scrum? What does Self-Organization really mean? How does Scrum embrace the four values and twelve principles of the Agile Manifesto? Please share a case study on Scrum based product development? Recommendations for the book from the Scrum champions Take advantage of Hiren's vast experience and avoid making the common errors people make as they begin their journey. This book contains a wealth of practical information that will be useful to readers as they work to implement the basic theory found in The Scrum Guide-Steve Porter, team member, Scrum.org In his book Scrum Insights for Practitioners, Hiren has extended the core rules of The Scrum Guide with practices he has found useful. Hiren answers questions regarding Scrum that potentially remain unanswered even after one reads The Scrum Guide. Hiren dismantles common misconceptions about Scrum, regardless of the source of such misconceptions. Hiren elaborates on basic information provided in The Scrum Guide, as well as on the principles underlying Scrum-Gunther Verheyen, Author of "Scrum - A Pocket Guide, a Smart Travel Companion" Hiren Doshi has written a fine companion to The Scrum Guide, filling in some of the intentional gaps left in the Scrum framework. Using this companion along with The Scrum Guide will undoubtedly improve the outlook for those teams that internalize its teachings."-Charles Bradley, ScrumCrazy.com This book will help you understand the nuances of Scrum. It takes a very practical approach toward implementing Scrum without compromising on its values and principles. A useful and handy reference for Scrum practitioners!-Gopinath R, Agile coach and practitioner Over the last 25 years, Geoffrey Moore has established himself as one of the most influential high-tech advisors in the world—once prompting Conan O'Brien to ask "Who is Geoffrey Moore and why is he more famous than me?" Following up on the ferociously innovative ESCAPE VELOCITY, which served as the basis for Moore's consulting work to such companies as Salesforce, Microsoft, and Intel, ZONE TO WIN serves as the companion playbook for his landmark guide, offering a practical manual to address the challenge large enterprises face when they seek to add a new line of business to their established portfolio. Focused on spurring next-generation growth, guiding mergers and acquisitions, and embracing disruption

and innovation, ZONE TO WIN is a high-powered tool for driving your company above and beyond its limitations, its definitions of success, and ultimately, its competitors. Moore's classic bestseller, CROSSING THE CHASM, has sold more than one million copies by addressing the challenges faced by start-up companies. Now ZONE TO WIN is set to guide established enterprises through the same journey. "For any company, regardless of size or industry, ZONE TO WIN is the playbook for succeeding in today's disruptive, connected, fast-paced business world." —Marc Benioff, CEO, Salesforce "Once again Geoffrey Moore weighs in with a prescient examination of what it takes to win in today's competitive, disruptive business environment." —Satya Nadella, CEO, Microsoft "With this book, Geoffrey Moore continues to lead us all through ever-changing times...His work has changed the game of changing the game!" —Gary Kovacs, CEO, AVG "ZONE TO WIN uses crystal-clear language to describe the management plays necessary to win in an ever-disrupting marketplace. Regardless of your level of management experience, you will find this book an invaluable tool for building long-term success for your business." —Lip-Bu Tan, President and CEO, Cadence Design Systems Scrum is the most popular approach to Agile software development. It's been around for more than 20 years, and it's used by tens of millions of practitioners. Even so, by some estimates, over 70% of Scrum adoptions fall flat and get stuck. Developers find themselves using "Zombie Scrum" processes that look like Scrum from a distance, but are slow, lifeless, and joyless instead. Zombie Scrum Survival Guide doesn't just reveal why this happens: it shows how to supercharge your Scrum outcomes, and have more fun along the way. Writing for all individuals, teams, and organizations who want to achieve more with Scrum, this guide combines theoretical foundations with practical approaches, exercises, and facilitation techniques for making progress in widely diverse situations, and engaging everyone in the organization to get more out of Scrum. You'll find specific guidance for building what the user needs, shipping faster, improving continuously, self-organizing your teams, and more. Drawing on extensive experience empowering developers, the authors also introduce powerful Liberating Structures patterns for enriching group interactions, so Scrum makes development more effective and fulfilling for everyone involved.
Comic Agilé depicts the magical, depressing, funny and potentially educational moments that

occur when agility meets reality. Through the form of short comic strips, Comic Agilé brings to a head the challenges, misunderstandings and ill-intentioned behavior that makes it so difficult to put the agile mindset into practice. Besides its tragicomic storytelling, the agile comic describes how to avoid, manage or improve the illustrated situations, so the readers are left with a burning desire to go back to their context and improve their agile practices. For the sake of humanity.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in

informal environments.
Mastering Professional Scrum
Accounts of the Magical Moments that Occur when Agility Meets Reality
Scrum – A Pocket Guide
The Nexus Framework for Scaling Scrum
The Nexus between Energy, Food, Water and Land Use
Linking Classical and Contemporary Approaches
The Most Comprehensive Plan Ever Proposed to Reverse Global Warming

Water Policy Science and Politics: An Indian Perspective presents the importance of politics and science working together in policymaking in the water sector. Many countries around the developed and developing world, including India, are experiencing major water scarcity problems that will undoubtedly increase with the impacts of climate change. This book discusses specific topics in India's water, agriculture and energy sectors, focusing on scientific aspects, academic and political discourse, and policy issues. The author presents cases from the interrelated sectors of water resources, supplies, sanitation, and energy and climate, including controversial topics that illustrate how science and politics can work together. Challenges the linear and conventional approaches to water management and water policymaking in India that are also applicable in developing countries across South Asia and Sub-Saharan Africa Presents best practice ideas and methods that help science and politics work together Highlights a key gap of communication between science and policy in water research, with solutions on how this can be addressed

Improve and Accelerate Software Delivery for Large, Distributed, Complex Projects The Nexus Framework is the simplest, most effective approach to applying Scrum at scale across multiple teams, sites, and time zones. Created by Scrum.org–the pioneering Scrum training and certification organization founded by Scrum co-creator Ken Schwaber–Nexus draws on decades of experience to address the unique challenges teams face in coming together, sharing work, and managing and minimizing dependencies. The Nexus™ Framework for Scaling Scrum is a concise book that shows how Nexus helps teams to deliver a complex, multi-platform, software-based product in short, frequent cycles, without sacrificing consistency or quality, and without adding unnecessary complexity or straying from Scrum's core principles. Using an extended case study, the authors illustrate how Nexus helps teams solve common scaling challenges like reducing cross-team dependencies, preserving team self-organization and transparency, and ensuring accountability. Understand the challenges of delivering working, integrated product increments with multiple teams, and how Nexus addresses them Form a Nexus around a new or existing product and learn how that Nexus sets goals and

plans its work Run Sprints within a Nexus, provide transparency into progress, conduct effective Nexus Sprint reviews, and use Nexus Sprint Retrospectives to continuously improve Overcome the distributed team collaboration challenges As tech giants and startups disrupt every market, those who master large-scale software delivery will define the economic landscape of the 21st century, just as the masters of mass production defined the landscape in the 20th. Unfortunately, business and technology leaders are woefully ill-equipped to solve the problems posed by digital transformation. At the current rate of disruption, half of S&P 500 companies will be replaced in the next ten years. A new approach is needed. In Project to Product, Value Stream Network pioneer and technology business leader Dr. Mik Kersten introduces the Flow Framework—a new way of seeing, measuring, and managing software delivery. The Flow Framework will enable your company's evolution from project-oriented dinosaur to product-centric innovator that thrives in the Age of Software. If you're driving your organization's transformation at any level, this is the book for you.

•   New York Times bestseller •   The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world "At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope." —Per Espen Stoknes, Author, What We Think About When We Try Not To Think About Global Warming "There's been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom." —David Roberts, Vox "This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook." —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth's warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

Practical, Proven Tools for Leading and Empowering High-Performing Agile Teams A leader is like a farmer, who doesn't grow crops by pulling them but instead creates the perfect environment for the crops to grow and thrive. If you lead in organizations that have adopted agile methods, you know it's crucial to create the right environment for your agile teams. Traditional tools such as Gantt charts, detailed plans, and internal KPIs aren't adequate for complex and fast-changing markets, but merely trusting employees and teams to self-manage is insufficient as well. In Agile Leadership Toolkit, longtime agile leader Peter Koning provides a practical and invaluable steering wheel for agile leaders and their teams. Drawing on his extensive experience helping leaders drive more value from agile, Koning offers a comprehensive toolkit for continuously improving your environment, including structures, metrics, meeting techniques, and governance for creating thriving teams that build disruptive products and services. Koning thoughtfully explains how to lead agile teams at large scale and how team members fit into both the team and the wider organization. Architect environments that help teams learn, grow, and flourish for the long term Get timely feedback everyone can use to improve Co-create goals focused on the customer, not the internal organization Help teams brainstorm and visualize the value of their work to the customer Facilitate team ownership and accelerate team learning Support culture change, and design healthier team habits Make bigger changes faster This actionable guide is for leaders at all levels—whether you're supervising your first agile team, responsible for multiple teams, or lead the entire company. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

The Professional Product Owner

Grand Strategies in the Peloponnesian War and Their Relevance Today

Professional Scrum Development with Azure DevOps

A Scrum Book

A Practitioners Guide to Overcoming Challenges and Maximizing the Benefits of Agility

Food, Energy, and Water Nexus

Zone to Win

S,M,L,XL presents a selection of the remarkable visionary design work produced by the Dutch firm Office for Metropolitan Architecture (O.M.A.) and its acclaimed founder, Rem Koolhaas, in its first twenty years, along with a variety of insightful, often poetic writings. The inventive collaboration between Koolhaas and designer Bruce Mau is a graphic overture that weaves together architectural projects, photos and sketches, diary excerpts, personal travelogues, fairy tales, and fables, as well as critical essays on contemporary architecture and society. The book's title is also its framework: projects and essays are arranged according to scale. While Small and Medium address issues ranging from the domestic to the public, Large focuses on what Koolhaas calls "the architecture of Bigness." Extra-Large features projects at the urban scale, along with the important essay

"What Ever Happened to Urbanism?" and other studies of the contemporary city. Running throughout the book is a "dictionary" of an adventurous new Koolhaasian language -- definitions, commentaries, and quotes from hundreds of literary, cultural, artistic, and architectural sources. Discover how to turn requirements into working software increments—faster and more efficiently—using Visual Studio 2012 in combination with Scrum and Agile engineering practices. Designed for software development teams, this guide delivers pragmatic, role-based guidance for exploiting the capabilities of Application Lifecycle Management (ALM) tools in Visual Studio and Team Foundation Server. Team members will learn proven practices and techniques for implementing Scrum to manage an application's life cycle, as well as seamlessly plan, manage, and track their Scrum projects.

In this book, major issues surrounding importance of water and energy for food security in the United States and India are described representing two extremes in yield, irrigation efficiency, and automation. The farming systems in these two countries face different risks in terms of climatic shifts and systems' resiliency to handle the shocks. One may have comparative advantage over the other, but both are susceptible. Innovations in irrigation for food and fuel production, improvements in nitrogen and water use efficiency, and rural sociological issues are discussed here. We also look into some of the unintended consequences of high productivity agriculture in terms of surface and ground water quality and impacts on ecosystem services. Finally, we present ways to move forward to meet the food demands in the next half-century in both countries. As the current world population of 7 billion is expected to reach or exceed 10 billion in the next 40 years, there will be significant additional demand for food. A rising middle class and its preference for a meat-based diet also increases the demand for animal feed. This additional food and feed production needs special considerations in water and energy management besides the development of appropriate crop hybrids to withstand future climatic shifts and other environmental factors. A resilient agricultural landscapes will also be needed to withstand climatic fluctuations, disease pressures, etc. While the upper and many middle income countries have made significant improvements in crop yield due to pressurized irrigation and automation in farming systems, the lower income countries are struggling with yield enhancements due to such limitations. The rise in population is expected to be more in Sub-Sharan Africa and Middle East (Low to middle-income countries) where the crop yields are expected to be low.

Hone Your Agile Leadership Skills to Help Your Organization Transform and Thrive Drawing on vast experience, Ron, Kurt, and Laurens tease out practical tips and patterns for good leadership [and show] how a leader can help shape the environment for agile teams to succeed. . . . The narrative style of the book makes it easy to read, and I am sure there will be many times that you see yourself in it. --From the Foreword by Dave West, CEO and Product Owner, Scrum.org To leverage the immense opportunities associated with accelerating change, organizations need teams capable of trying new ideas quickly, learning from their experiences, and adapting based on that learning. Helping these teams to grow and thrive requires agile leaders who support, inspire, and encourage, and who can leave behind the management skills of directing, monitoring, and rewarding or punishing. The Professional Agile Leader is a realistic, practical guide, written by experienced agile leaders who share their collective experiences in helping agile leaders to grow responsive and adaptive teams. They structure powerful lessons around a case study based on decades of experience helping agile leaders achieve and sustain agile transformation. Best of all, they never settle for high-level hand-waving--they show you how it's really done. Reignite once-successful organizations that have lost their way Form cross-functional teams and empower them with purpose Learn to let go, as your teams start taking more responsibility Overcome forces that want to reel you back into the old rules Realign the whole organization,

since agile and traditional models can't coexist forever Achieve the most challenging goal of all: changing culture Great agile leaders aren't born that way--they're regular people who care deeply about helping others achieve shared goals and have discovered a better way to lead. Whatever your role in the organization, this guide will help you master those skills and mindsets a whole lot faster. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Is your business ready to win in the digital future—or destined to be disrupted? Ambitious digital-driven startups are now creating and cornering new markets in every sector. And yet, most legacy businesses continue to operate by old playbooks. Most are not keeping pace with the changes in their industry, let alone leading the way—what is yours doing? The Digital Matrix will help you understand the three types of players that are shaping the new business landscape; the three phases of transformation that every firm will encounter on its journey to business reinvention; and the three winning moves that will ensure your company's success along the way. With The Digital Matrix, you will: Learn to navigate the world of digital ecosystems. Discover ways of competing and collaborating with other companies to create and capture value. Realize how powerful machines can amplify your company's human talent. Learn to assemble the team to experiment with new ideas, re-examine your core beliefs, and reinvent your business rulebook for the digital future. The future of every industry is digital, and that future is closer than you think. Do you understand where your business fits into the bigger picture? Are you ready to maximize your opportunities? Packed with current case studies and practical experience-based advice, The Digital Matrix shows you how to rethink your business model from the outside in, assemble the right team for the journey ahead, and make bold strategic choices along the three phases of digital transformation. Your company's future depends on its ability to harness digital technology. Don't wait!

Practices, Crosscutting Concepts, and Core Ideas

How Effective Social Enterprises Do It

Zombie Scrum Survival Guide

Comic Agilé Volume One

The Leader's Journey Toward Growing Mature Agile Teams and Organizations

The Spirit of the Game

More with LeSS

Complementarity of Variable Renewable Energy Sources consolidates current developments on the subject, addressing all technical advances, presenting new mapping results, and bringing new insights for the continuation of research and implementation on this fascinating topic. By answering questions such as How can complementarity be used in the operation of large interconnected systems?, What is the real applicability potential of energetic complementarity?, and How will it impact energy generation systems?, this title is useful for all researchers, academic and students investigating the topic of renewable energy complementarity in systems. In just over a decade, the subject of 'energy complementarity' has experienced a growing presence and understanding by

researchers and managers of energy resources looking to enhance energy systems. Early research proposed methods to quantify complementarity, the effects of complementarity on performance of hybrid systems, and how to identify and map complementarity between solar energy, wind energy and hydroelectric energy systems. Includes chapter maps to visualize system performance under different complementarity indexes Addresses complementarity in the operation of large and small to medium-sized hybrid systems Provides methods for determining complementarity between various energy sources

It's time to extend the benefits of Scrum—greater agility, higher-quality products, and lower costs—from individual teams to your entire enterprise. However, with Scrum's lack of prescribed rules, the friction of change can be challenging as people struggle to break from old project management habits. In this book, agile-process revolution leader Ken Schwaber takes you through change management—for your organizational and interpersonal processes—explaining how to successfully adopt Scrum across your entire organization. A cofounder of Scrum, Ken draws from decades of experience, answering your questions through case studies of proven practices and processes. With them, you'll learn how to adopt—and adapt—Scrum in the enterprise. And gain profound levels of transparency into your development processes. Discover how to: Evaluate the benefits of adopting Scrum in any size organization Initiate an enterprise transition project Implement a single, prioritized Product Backlog Organize effective Scrum teams using a top-down approach Adapt and apply solutions for integrating engineering practices across multiple teams Shorten release times by managing high-value increments Refine your Scrum practices and help reduce the length of Sprints

The demands placed on land, water, energy and other natural resources are exacerbated as the world population continues to increase together with the expectations of economic growth. This, combined with concerns over environmental change, presents a set of scientific, policy and management issues that are critical for sustainability. Resource Accounting for Sustainability Assessment: The nexus between energy, food, water and land use offers an approach for multi-scale, integrated assessment of this nexus. It presents a comprehensive and original method of resource accounting for integrated sustainability assessments. The approach is illustrated with three detailed case studies: the islands of Mauritius, the Indian state of Punjab, and the energy economy of South Africa. The relationships between flows of goods, services and materials in these case studies offer valuable insights. The book provides a much needed quality control on the information used in deliberative processes about policy and planning activities. This innovative book will be of interest to researchers, students and practitioners in the fields of sustainability science, international development, industrial ecology, sustainable resource management, geography

and ecological economics.

Whether it is the stranding of tens of thousands of migrant workers at the Libyan–Tunisian border, or the large-scale displacement triggered by floods in Pakistan and Colombia, hardly a week goes by in which humanitarian crises have not precipitated human movement. While some people move internally, others internationally, some temporarily and others permanently, there are also those who become "trapped" in place, unable to move to greater safety. Responses to these "crisis migrations" are varied and inadequate. Only a fraction of "crisis migrants" are protected by existing international, regional or national law. Even where law exists, practice does not necessarily guarantee safety and security for those who are forced to move or remain trapped. Improvements are desperately needed to ensure more consistent and effective responses. This timely book brings together leading experts from multi-disciplinary backgrounds to reflect on diverse humanitarian crises and to shed light on a series of exploratory questions: In what ways do people move in the face of crisis situations? Why do some people move, while others do not? Where do people move? When do people move, and for how long? What are the challenges and opportunities in providing protection to crisis migrants? How might we formulate appropriate responses and sustainable solutions, and upon what factors should these depend? This volume is divided into four parts, with an introductory section outlining the parameters of "crisis migration," conceptualizing the term and evaluating its utility. This section also explores the legal, policy and institutional architecture upon which current responses are based. Part II presents a diverse set of case studies, from the earthquake in Haiti and the widespread violence in Mexico, to the ongoing exodus from Somalia, and environmental degradation in Alaska and the Carteret Islands, among others. Part III focuses on populations that may be at particular risk, including non-citizens, migrants at sea, those displaced to urban areas, and trapped populations. The concluding section maps the global governance of crisis migration and highlights gaps in current provisions for crisis-related movement across multiple levels. This valuable book brings together previously diffuse research and policy issues under the analytical umbrella of "crisis migration." It lays the foundations for assessing and addressing real challenges to the status quo, and will be of interest to scholars, policy makers, and practitioners committed to seeking out improved responses and ensuring the dignity and safety of millions who move in the context of humanitarian crises.

The Professional Product Owner's Guide to Maximizing Value with Scrum "This book presents a method of communicating our desires, cogently, coherently, and with a minimum of fuss and bother." —Ken Schwaber, Chairman & Founder, Scrum.org The role of the Product Owner is more crucial than ever. But it's about much more than mechanics: it's about taking accountability and refocusing on value as the primary objective of all you do. In

The Professional Product Owner, two leading experts in successful Scrum product ownership show exactly how to do this. You'll learn how to identify where value can be found, measure it, and maximize it throughout your entire product lifecycle. Drawing on their combined 40+ years of experience in using agile and Scrum in product management, Don McGreal and Ralph Jocham guide you through all facets of envisioning, emerging, and maturing a product using the Scrum framework. McGreal and Jocham discuss strategy, showing how to connect Vision, Value, and Validation in ROI-focused agile product management. They lay out Scrum best-practices for managing complexity and continuously delivering value, and they define the concrete practices and tools you can use to manage Product Backlogs and release plans, all with the goal of making you a more successful Product Owner. Throughout, the authors share revealing personal experiences that illuminate obstacles to success and show how they can be overcome. Define success from the "outside in," using external customer-driven measurements to guide development and maximize value Bring empowerment and entrepreneurship to the Product Owner's role, and align everyone behind a shared business model Use Evidence-Based Management (EBMgt) to invest in the right places, make smarter decisions, and reduce risk Effectively apply Scrum's Product Owner role, artifacts, and events Populate and manage Product Backlogs, and use just-in-time specifications Plan and manage releases, improve transparency, and reduce technical debt Scale your product, not your Scrum Use Scrum to inject autonomy, mastery, and purpose into your product team's work Whatever your role in product management or agile development, this guide will help you deliver products that offer more value, more rapidly, and more often. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.
Our Common Agenda - Report of the Secretary-General
The Enterprise and Scrum
Crystal Clear
A Framework for K-12 Science Education
Scaling Scrum Across Modern Enterprises
Practices for Scaling Lean & Agile Development
Humanitarian Crises and Migration
On the seventy-fifth anniversary of the United Nations, the world has faced its biggest shared test since the Second World War in the coronavirus disease (COVID-19) pandemic. Yet while our welfare, and indeed the permanence of human life, depend on us working together, international cooperation has never been harder to achieve. This report

answers a call from UN Member States to provide recommendations to advance our common agenda and to respond to current and future challenges. Its proposals are grounded in a renewal of the social contract, adapted to the challenges of this century, taking into account younger and future generations, complemented by a new global deal to better protect the global commons and deliver global public goods. Through a deepening of solidarity—at the national level, between generations, and in the multilateral system—Our Common Agenda provides a path forward to a greener, safer and better future.

Masterfully crafted and surprisingly modern, "History of the Peloponnesian War" has long been celebrated as an insightful, eloquent, and exhaustively detailed work of classical Greek history. The text is also remarkable for its deep political and military dimensions, and scholars have begun to place the work alongside Sun Tzu's The Art of War and Clausewitz's On War as one of the great treatises on strategy. The perfect companion to Thucydides' impressive History, this volume details the specific strategic concepts at work within the History of the Peloponnesian War and demonstrates, through case studies of recent conflicts in Kosovo, Afghanistan, and Iraq, the continuing relevance of Thucydidean thought to an analysis and planning of strategic operations. Some have even credited Thucydides with founding the discipline of international relations. Written by two scholars with extensive experience in this and related fields, Thucydides on Strategy situates the classical historian solidly in the modern world of war.

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.

Building a successful product usually involves teams of people, and many choose the Scrum approach to aid in creating products that deliver the highest possible value. Implementing Scrum gives teams a collection of powerful ideas they can assemble to fit their needs and meet their goals. The ninety-four patterns contained within are elaborated nuggets of

insight into Scrumâ€™s building blocks, how they work, and how to use them. They offer novices a roadmap for starting from scratch, yet they help intermediate practitioners fine-tune or fortify their Scrum implementations. Experienced practitioners can use the patterns and supporting explanations to get a better understanding of how the parts of Scrum complement each other to solve common problems in product development. The patterns are written in the well-known Alexandrian form, whose roots in architecture and design have enjoyed broad application in the software world. The form organizes each pattern so you can navigate directly to organizational design tradeoffs or jump to the solution or rationale that makes the solution work. The patterns flow together naturally through the context sections at their beginning and end. Learn everything you need to know to master and implement Scrum one step at a timeâ€"the agile way.
Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.
How to Survive and Thrive in the Age of Digital Disruption with the Flow Framework
Agile Leadership Toolkit
Biophysical and Economic Consequences
Proceedings of the 2nd WaterEnergyNEXUS Conference, November 2018, Salerno, Italy
Learning to Thrive with Self-Managing Teams
A Consideration for the 21st Century
New Rules for Business Transformation Through Technology
`Why do species live where they live? What determines the abundance and diversity of species in a given`

area? What role do species play in the functioning of entire ecosystems? All of these questions share a single core concept—the ecological niche. Although the niche concept has fallen into disfavor among ecologists in recent years, Jonathan M. Chase and Mathew A. Leibold argue that the niche is an ideal tool with which to unify disparate research and theoretical approaches in contemporary ecology. Chase and Leibold define the niche as including both what an organism needs from its environment and how that organism's activities shape its environment. Drawing on the theory of consumer-resource interactions, as well as its graphical analysis, they develop a framework for understanding niches that is flexible enough to include a variety of small- and large-scale processes, from resource competition, predation, and stress to community structure, biodiversity, and ecosystem function. Chase and Leibold's synthetic approach will interest ecologists from a wide range of subdisciplines.

The Handbook of Inclusive and Social Innovation: The Role of Organizations, Markets and Communities offers a comprehensive review of research on inclusive innovation to address systemic and structural issues – the "Grand Challenges" of our time. With 27 contributions from 57 scholars, the Handbook provides frameworks and insights by summarising current research, and highlights emerging practices and scalable solutions. The contributions highlight a call to action and place social impact at the heart of theory and practice. It will be an invaluable resource for academics, practitioners, and policymakers who champion social inclusion and emphasize innovative approaches to addressing sustainable development goals.

Innovation and Scaling for Impact forces us to reassess how social sector organizations create value. Drawing on a decade of research, Christian Seelos and Johanna Mair transcend widely held misconceptions, getting to the core of what a sound impact strategy entails in the nonprofit world. They reveal an overlooked nexus between investments that might not pan out (innovation) and expansion based on existing strengths (scaling). In the process, it becomes clear that managing this tension is a difficult balancing act that fundamentally defines an organization and its impact. The authors examine innovation pathologies that can derail organizations by thwarting their efforts to juggle these imperatives. Then, through four rich case studies, they detail innovation archetypes that effectively sidestep these pathologies and blend innovation with scaling. Readers will come away with conceptual models to drive progress in the social sector and tools for defining the future of their organizations.

This pocket guide is the one book to read for everyone who wants to learn about Scrum. The book covers all roles, rules and the main principles underpinning Scrum, and is based on the Scrum Guide Edition 2013. A broader context to this fundamental description of Scrum is given by describing the past and the future of Scrum. The author, Gunther Verheyen, has created a concise, yet complete and passionate reference about Scrum. The book demonstrates his core view that Scrum is about a journey, a journey of discovery and fun. He designed the book to be a helpful guide on that journey. Ken Schwaber, Scrum co-

creator says that this book currently is the best available description of Scrum around. The book combines some rare characteristics: • It describes Scrum in its entirety, yet places it in a broader context (of past and future). • The author focuses on the subject, Scrum, in a way that it truly supports the reader. The book has a language and style in line with the philosophy of Scrum. • The book shows the playfulness of Scrum. David Starr and Ralph Jocham, Professional Scrum trainers and early agile adopters, say that this is the ultimate book to be advised as follow-up book to the students they teach Scrum to and to teams and managers of organizations that they coach Scrum to.

This report contributes to the discussion of interconnections between scarce resources by highlighting the nexus between land, water and energy (the LWE nexus). It focuses on a dynamic, integrated, and disaggregated analysis of how land, water and energy interact in the biophysical and economic systems. The report provides projections for the biophysical and economic consequences of nexus bottlenecks until 2060, highlighting that while the LWE nexus is essentially local, there can be significant large-scale repercussions in vulnerable regions, notably on forest cover and in terms of food and water security. The analysis is based on coupling a gridded biophysical systems model with a multi-regional, multi-sectoral dynamic general equilibrium modelling assessment. Numerical insights are provided by investigating a carefully selected set of scenarios that are designed to illustrate the key bottlenecks: one scenario for each resource bottleneck, plus two scenarios that combine all bottlenecks, with and without an overlay of climate change.

Resource Accounting for Sustainability Assessment

The Digital Matrix

Large-Scale Scrum

Complementarity of Variable Renewable Energy Sources

Leveraging Scrum as a Competitive Advantage

Water Policy Science and Politics

Frontiers in Water-Energy-Nexus—Nature-Based Solutions, Advanced Technologies and Best Practices for Environmental Sustainability

This volume includes selected contributions presented during the 2nd edition of the international conference on WaterEnergyNEXUS which was held in Salerno, Italy in November 2018. This conference was organized by the Sanitary Environmental Engineering Division (SEED) of the University of Salerno (Italy) in cooperation with Advanced Institute of Water Industry at Kyungpook National University (Korea) and with The Energy and Resources Institute, TERI (India). The initiative received the patronage of UNESCO – World Water Association Programme (WWAP) and of the International Water Association (IWA) and was organized with the support of Springer (MENA Publishing Program), Arab Water Council (AWC), Korean Society

of Environmental Engineering (KSEE) and Italian Society of Sanitary Environmental Engineering Professors (GITISA). With the support of international experts invited as plenary and keynote speakers, the conference aimed to give a platform for Euro-Mediterranean countries to share and discuss key topics on such water-energy issues through the presentation of nature-based solutions, advanced technologies and best practices for a more sustainable environment. This volume gives a general and brief overview on current research focusing on emerging Water-Energy-Nexus issues and challenges and its potential applications to a variety of environmental problems that are impacting the Euro-Mediterranean zone and surrounding regions. A selection of novel and alternative solutions applied worldwide are included. The volume contains over about one hundred carefully refereed contributions from 44 countries worldwide selected for the conference. Topics covered include (1) Nexus framework and governance, (2) Environmental solutions for the sustainable development of the water sector, (3) future clean energy technologies and systems under water constraints, (4) environmental engineering and management, (5) Implementation and best practices Intended for researchers in environmental engineering, environmental science, chemistry, and civil engineering. This volume is also an invaluable guide for industry professionals working in both water and energy sectors.
Project to Product
S, M, L, XL
Organizing to Compete in an Age of Disruption
Ecological Niches
Causes, Consequences and Responses
Strengthening Forensic Science in the United States
The Professional Agile Leader