

Enterprise Architecture As Strategy

Driven by the need and desire to reduce costs, organizations are faced with a set of decisions that require analytical scrutiny. Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology examines cost-saving trends in architecture planning, administration, and management. To establish a framework for discussion, this book begins by evaluating the role of Enterprise Architecture Planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely deployed architecture framework models. In particular, the book discusses The Open Group Architecture Framework (TOGAF) and the Zachman Architectural Framework (ZAF) in detail, as well as formal architecture standards and all four layers of these models: the business architecture, the information architecture, the solution architecture, and the technology architecture. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. In this second section, the author presents an assessment of storage technologies and networking and addresses regulatory and security issues. Additional coverage includes high-speed communication mechanisms such as Ethernet, WAN and Internet communication technologies, broadband communications, and chargeback models. Daniel Minoli has written a number of columns and books on the high-tech industry and has many years of technical hands-on and managerial experience at top financial companies and telecom/networking providers. He brings a wealth of knowledge and practical experience to these pages. By reviewing the strategies in this book, CIOs, CTOs, and senior managers are empowered by a set of progressive approaches to designing state-of-the-art IT data centers. For you as an IT manager, changes in business models and fast-paced innovation and product lifecycles pose a big challenge: you are required to anticipate the impact of future changes, and to make rapid decisions backed up by solid facts. To be successful you need an overall perspective of how business and IT interact. What you need is a toolkit, enabling you to manage the enterprise from a helicopter viewpoint while at the same time accommodating quite detailed aspects of processes, organization, and software lifecycles. Strategic IT management embraces all the processes required to analyze and document an enterprise's IT landscape. Based on the experience of many projects and long discussions with both customers and academic researchers, Inge Hanschke provides you with a comprehensive and practical toolkit for the strategic

management of your IT landscape. She takes a holistic view on the management process and gives guidelines on how to establish, roll out, and maintain an enterprise IT landscape effectively. She shows you how to do it right first time - because often enough there's no second chance. She tells you how to tidy up a IT patchworks - the first step towards strategic management - and she gives you advice on how to implement changes and maintain the landscape over time. The book's structure reflects the patterns that exist in strategic IT management from strategic planning to actual implementation. The presentation uses many checklists, guidelines, and illustrations, which will help you to immediately apply the content. So, if you are a CIO, an IT manager, a business manager, or an IT consultant, this is the book from which you'll benefit in most daily work situations.

Enterprise Architecture is the discipline of managing the complexities of the Business-IT landscape. It has been around since the 1980's, when for the first time computers were connected in networks, and the already serious (and unsolved) problem of the complexity of computer programs for relatively simple business needs turned into the huge problem of large networks of them in complex business landscapes. In spite of many 'best practices' and 'frameworks' that have been introduced, Enterprise Architecture is not a great success. After thirty years, we still have the same problems. Chaos is still everywhere. Projects still fail far too often. In this book, (hidden) assumptions behind the existing approaches to enterprise architecture are challenged, and a more realistic perspective that helps us battle the complexities and unpredictabilities of today's Business-IT landscapes is described. Practical suggestions about enterprise architecture governance and products, based on real-world experience with the described approach, complete the book. From general management to IT professionals, everyone who is confronted with the problem of managing Business-IT landscapes can profit from the insights this book offers. No specialist prior knowledge is required. Gerben Wierda is author of Mastering ArchiMate, and was, amongst other things, Lead Architect of the Judiciary in The Netherlands, Lead Architect of APG Asset Management, and is now Team Coordinator Architecture & Design at APG. He holds an M.Sc in Physics from the University of Groningen and an MBA from RSM Erasmus, Rotterdam.

Why collaborative enterprise architecture? -- What is enterprise architecture -- What enterprise architects do: core activities of EA -- EA frameworks -- EA maturity models -- Foundations of collaborative EA -- Towards pragmatism: lean and agile EA -- Inviting to participation: eam 2.0

-- The next steps: taking collaborative EA forward.

Enterprise Architecture Planning (EAP) is a high-level blueprint for data, applications, and technology that is a cost-effective long-term solution. The authors give you a common-sense approach to EAP, supported by examples of architectures, procedures, checklists, and useful guidelines.

Creating Or Choosing an Enterprise Architecture Framework

Developing a Blueprint for Data, Applications, and Technology

From Enterprise Architecture to IT Governance

Reaching the Pinnacle

A Toolkit for Enterprise Architecture Management

Enterprise Architecture As Strategy

How to Survive in the Jungle of Enterprise Architecture Frameworks

Based on an extensive study of the actual industry best practices, this book provides a systematic conceptual description of an EA practice and offers practically actionable answers to the key questions related to enterprise architecture.

"Reaching the Pinnacle: A Methodology of Business Understanding, Technology Planning, and Change (Implementing and Managing Enterprise Architecture)" by Samuel B. Holcman explains the detailed process of building an enterprise architecture. Samuel B. Holcman brings his strategic business plans to business and technology professionals with "Reaching the Pinnacle: A Methodology of Business Understanding, Technology Planning, and Change (Implementing and Managing Enterprise Architecture)." In order to bring a method to the madness that can often be today's business structure, Holcman uses "Reaching the Pinnacle" to introduce the process of building an enterprise architecture. Holcman uses his 40 years of experience as a leading trainer and consultant in enterprise architecture in writing "Reaching the Pinnacle." He explains enterprise architecture as the rethinking of how business planning and information technology work together in order to achieve strategic goals. "Reaching the Pinnacle" explains how an organization and its important departments can achieve their goals through a series of project initiatives. Holcman offers a simple, easy-to-understand way to implement an enterprise architecture project into one's organization. "While the approach is not quick - it may take up to a few years

to transform an organization - my methodology provides an effective means for moving the organization from its as-is state to its desired state in an iterative manner," says Holcman. Holcman's methods and approach have been used by numerous Fortune 500 companies and have led him to be the top consultant on the topic. He believes the 'for practitioners, by practitioners' approach of "Reaching the Pinnacle" will make the book a crucial resource among business and technology personnel everywhere. "Reaching the Pinnacle: A Methodology of Business Understanding, Technology Planning, and Change (Implementing and Managing Enterprise Architecture)" is available for sale online at Amazon.com, directly from the author at www.PinnacleBusGrp.com, and other channels.

REVIEW COPIES AND INTERVIEWS AVAILABLE

History has shown that having a competitive advantage is critical to the success and long-term viability of all organizations. However, creating and sustaining such an advantage is a challenge. Organizations must formulate a winning strategy, surpass competitors at implementing and executing it, and excel at adapting in response to internal and external events. Although organizations have applied numerous best practices to help them succeed in their strategic endeavors, they still face serious difficulties, which they can only surmount by adopting business architecture. The goal of this book is to describe what business architecture is; how it can help meet the challenge of formulating, implementing and executing an organization's strategy; and how to build and exploit a superior strategy management system that leverages business architecture.

The first Enterprise Architecture book that compares the 14 most popular Enterprise Architecture Frameworks in the world. A unique book for CIO's, Enterprise Architects and all others interested in EA.

The Enterprise Architecture Management (EAM) discipline deals with the alignment of business and information systems architectures. While EAM has long been regarded as a discipline for IT managers, this book takes a different stance: It explains how top executives can use EAM to leverage their strategic planning and controlling processes, as well as how it can contribute to their sustainable competitive advantage. Based on the analysis of best practices from eight leading European companies from various industries,

the book presents the crucial elements of successful EAM. It outlines what executives need to do in terms of governance, processes, methodologies, and culture in order to bring their management to the next level. Beyond this, the book points out how EAM could develop in the next decade, thus allowing today's managers to prepare for the future architecture management.

Enterprise Architecture for Strategic Management of Modern IT Solutions

Cloud Enterprise Architecture

Digital Transformation of Enterprise Architecture

A Practical Guide

Designing Enterprise Architecture Frameworks

Enterprise Business Architecture

Enterprise Architecture

Organizational complexity is an unavoidable aspect of all businesses, even larger ones, which can hinder their ability to react to sudden or disruptive change. However, with the implementation of enterprise architecture (EA), businesses are able to provide their leaders with the resources needed to address any arising challenges. A Systemic Perspective to Managing Complexity with Enterprise Architecture highlights the current advances in utilizing enterprise architecture for managing organizational complexity. By demonstrating the value and usefulness of EA, this book serves as a reference for business leaders, managers, engineers, enterprise architects, and many others interested in new research and approaches to business complexity.

The revised version of this book to provide essential guidance, compelling ideas, and unique ways to Enterprise Architects so that they can successfully perform complex enterprise modernisation initiatives transforming from chaos to coherence. This is not an ordinary theory book describing Enterprise Architecture in detail. There are myriad of books on the market and in libraries discussing details of enterprise architecture. My aim here is to highlight success factors and reflect lessons learnt from the field within enterprise modernisation and transformation context. As a practising Senior Enterprise Architect, myself, I read hundreds of those books and articles to learn different views. They have been valuable to me to establish my foundations in the earlier phase of my profession. However, what is missing now is a concise guidance book showing Enterprise Architects the novel approaches, insights from the real-life experience and experimentations, and pointing out the differentiating technologies for enterprise modernisation. If only there were such a guide when I started engaging in modernisation and transformation programs. The biggest lesson learned is the business outcome of the enterprise modernisation. What genuinely matters for business is the return on investment of the enterprise architecture and its monetising capabilities. The rest is the theory because nowadays sponsoring executives, due to economic climate, have no interest, attention, or tolerance for non-profitable ventures. I am sorry for disappointing some idealistic Enterprise Architects, but with due respect, it is the reality, and we cannot change it. This book deals with reality rather than

theoretical perfection. Anyone against this view on this climate must be coming from another planet. In this concise, uncluttered and easy-to-read book, I attempt to show the significant pain points and valuable considerations for enterprise modernisation using a structured approach and a simple narration especially considering my audience from non-English speaking backgrounds. The architectural rigour is still essential. We cannot compromise the rigour aiming to the quality of products and services as a target outcome. However, there must be a delicate balance among architectural rigour, business value, and speed to the market. I applied this pragmatic approach to multiple substantial transformation initiatives and complex modernisations programs. The key point is using an incrementally progressing iterative approach to every aspect of modernisation initiatives, including people, processes, tools, and technologies as a whole. Starting with a high-level view of enterprise architecture to set the context, I provided a dozen of distinct chapters to point out and elaborate on the factors which can make a real difference in dealing with complexity and producing excellent modernisation initiatives. As eminent leaders, Enterprise Architects are the critical talents who can undertake this massive mission using their people and technology skills, in addition to many critical attributes such as calm and composed approach. Let's keep in mind that as Enterprise Architects, we are architects, not firefighters! I have full confidence that this book can provide valuable insights and some 'aha' moments for talented architects like yourself to tackle this enormous mission of turning chaos to coherence.

This book is positioned as a first in a series of books on enterprise architecture needed for a Master of Enterprise Architecture program, and is targeted both at university students and practitioners with a drive to increase their understanding of these fields. As an introductory book, this book aims to explore the concept of enterprise architecture. At first glance, writing such an introductory book might seem as a straight forward task of setting up a structure and filling in "the blanks." However, writing this book turned out to be a pleasant journey of discovery. Based on our past experiences, each of us had a clear understanding of enterprise architecture, based on several years of experience and insight in the field. However, when we started writing this book, and each of us exposed our individual understandings, it became apparent that our understanding of the field differed in several ways. This prompted several discussions leading to an abundance of new insights. Without exception, these discussions took place in a pleasant and open atmosphere, fueled by our shared drive for understanding and increased insight.

We are now even more convinced than before, that the field of enterprise architecture is a true multi-disciplinary profession. In the resulting book, we would like to share our insights, while also hoping to continue our discussions, now also involving you as a reader. We also realise that the journey is still far from complete. While this introductory book provides an overview of the field of enterprise architecture from the perspective of our insights, many aspects need further refinement.

"This book provides guidance on how to employ enterprise architecture (EA) in deploying and managing information technology (IT) solutions from the perspectives of pragmatic strategies. It uses sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine challenges and complexities of EA"--

Organizations today exist in an environment of unprecedented change. They do so against a backdrop of a global, competitive marketplace, the fast-paced enablement of technology, amplified regulation and accelerating organizational complexity. Many organizations are addressing change in a sub-optimal way and they are operating without a clear view of where their operational risks lie. It is these dynamics that are leading

organizations to recognise and embrace Business Architecture. Despite this environment, Business Architecture can be a difficult 'sell' - it is often perceived to be abstract and lacking in tangible delivery. To succeed, Business Architecture must be pragmatic and, to be sustainable, it must focus on achieving long-term value and, at the same time, recognise the shorter-term tactical needs of the organisation. With these challenges in mind, this book provides a practical guide on how to employ Business Architecture and how to build a balanced proposition that delivers value to a broad range of stakeholders. As the book states, Business Architecture should not be practised in isolation, nor should it be thought of as a one-off process; it needs to be woven into the fabric of the organization. And so the authors illustrate the opportunities for weaving the Business Architecture Practice into this fabric through the various stakeholders and life cycles that exist, both formally and informally, within an organization. Whilst recognizing best practice, this book explores a new, inspirational level of Business Architecture whilst acknowledging that the best way to realize the vision is one step at a time.

A Modern Enterprise Architecture Approach

Redefining the Architect's Role in the Digital Enterprise

Modeling Enterprise Architecture with TOGAF

Business Architecture

Frameworks, Business Process Modeling, SOA, and Infrastructure Technology

The Formal Link between Strategy and Results

Continuous Architecture

A critical part of any company's successful strategic planning is the creation of an Enterprise Business Architecture with its formal linkages. Strategic research and analysis firms have recognized the importance of an integrated enterprise architecture and they have frequently reported on its increasing value to successful companies. Enterprise Architecture (EA) is an essential part of the fabric of a business; however, EA also transcends and transforms technology and moves it into the business space. Therefore, EA needs to be discussed in an integrated, holistic, and comprehensive manner. Only such an integrated approach to EA can provide the foundation for a transformation that readies the business for the myriad enterprise-wide challenges it will face. Highly disruptive technologies such as Big Data, Machine Learning, and Mobile and Cloud Computing require a fine balance between their business and technical aspects as an organization moves forward with its digital transformation. This book focuses on preparing all organizations - large and small - and those wishing to move into them for the impact of leveraging these emerging, disruptive, and innovative technologies within the EA framework.

Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book

describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF. Includes intuitive summaries of the complex TOGAF standard to let you effectively model enterprise architecture Uses practical examples to illustrate ways to adapt TOGAF to the needs of your enterprise Provides model examples with Modelio, a free modeling tool, letting you experiment with TOGAF modeling immediately using a dedicated tool Combines existing modeling standards with TOGAF

Enterprise Architecture as Strategy Creating a Foundation for Business Execution Harvard Business Press

Enterprise architecture requires an understanding of all technologies, strategies, and data consumption throughout the enterprise. To this end, one must strive to always broaden knowledge of existing, as well as emerging trends and solutions. As a trade, this role demands an understanding beyond the specificities of technologies and vendor products.

Combining Business Process Management and Enterprise Architecture for Better Business Outcomes

Integrating Business Processes with IT Infrastructure

Value-Driven Digital Transformation

Strategy and Architecture

Enterprise Architecture A to Z

Strategies to Transform Information Systems in the Era of Big Data

A Practical Guide to Enterprise Architecture

The prosperity and stability of any economic structure is reliant upon a foundation of secure systems that regulate the movement of money across the globe. These structures have become an integral part of contemporary society by reducing monetary risk and increasing financial security.

Regaining Global Stability After the Financial Crisis is a critical scholarly publication that examines the after-effects of the economic slowdown and the steps that have been taken to overcome the consequences of the slowdown as well as strategies to reduce its impact on economies and societies. Highlighting a wide range of topics including economic convergence, risk management, and public policy for financial stability, this book is geared toward academicians, practitioners, students, managers, and professionals in the financial sector seeking current research on regaining a sense of safety and security after a time of economic crisis.

Two experts in enterprise architecting lay out a holistic approach to creating a blueprint for future enterprise transformation. Every enterprise evolves continuously, driven by changing needs or new opportunities. Most often this happens gradually, with small adjustments to strategy, organization, processes, or infrastructure. But sometimes enterprises need to go beyond minor fixes and transform themselves, in response to a

disruptive event or dramatically changing circumstances—a merger, for example, or a new competitor. In this book, enterprise architecting experts Deborah Nightingale and Donna Rhodes offer a framework for enterprise transformation. Successful transformation, they believe, starts with a holistic approach, taking into consideration all facets of the enterprise and its environment rather than focusing solely on one factor—information technology, for example, or organizational structure. This is architecting the future enterprise: creating a blueprint for what the enterprise will look like after the transformation. Nightingale and Rhodes introduce the ARIES (Architecting Innovative Enterprise Strategy) framework, including a ten enterprise element model and an architecting process model, and show how to apply it, from start to finish. They explain how to create a holistic vision for the future enterprise and how to generate concepts and alternative architectures; they describe techniques for evaluating possible architectures, tools for implementation planning, and strategies for communicating with stakeholders. Nightingale and Rhodes offer real-world examples throughout, drawing on their work at MIT, with an extensive case study of enterprise transformation at a medical device manufacturer. An appendix offers two additional architecting projects. Seven Architecting Imperatives • Make architecting the initial activity in transformation. • Develop a comprehensive understanding of the enterprise landscape. • Understand what stakeholders value and how that may change in the future. • Use multiple perspectives to see the whole enterprise. • Create an architecting team suited to the transformation challenges. • Engage all levels of leadership in transformation. • Architect for the enterprise's changing world.

This book shows its readers how to achieve the goal of genuine IT governance. The key here is the successful development of enterprise architecture as the necessary foundation. With its capacity to span and integrate business procedures, IT applications and IT infrastructure, enterprise architecture opens these areas up to analysis and makes them rich sources of critical data. Enterprise architecture thereby rises to the status of a crucial management information system for the CIO. The focused analysis of the architecture (its current and future states) illuminates the path to concrete IT development planning and the cost-effective and beneficial deployment of IT. Profit from the author's firsthand experience - proven approaches firmly based in enterprise reality.

"Regardless of the type of architecture, architecture itself is an organized accumulation of knowledge within a particular domain. While we generally conceive of its representation as a set of diagrams, containing specific notations and taxonomies of symbols and glossary terms, an architecture may actually be represented using anything that can be arranged in a pattern to record information. The earliest forms of architecture relate to architecting buildings, monuments, military disciplines, organized religion, music, storytelling, and various other forms within the arts. These early forms of architecture of course predate computer related architectures by thousands of years. That said, it is worth noting that there are a number of common elements among architectures irrespective of their relative age, such as forms of standardization, reusable structures, the accumulation of knowledge, and providing a context for understanding something. Needless to say, anyone can be an architect in a topic in which they have a deep understanding and appreciation of. While one obvious difference among architects is the amount and variety of pertinent experience, the less obvious difference is the degree to which an architect recognizes the potential forms of standardization, reusable structures, accumulation of knowledge, relationships among the components, and use of architecture as an accelerator to more rapidly understand the context and scope of a particular topic or to rapidly convey it to another. Architectures as a result must be easy to understand"--

"In this book, Vivek Kale makes an important contribution to the theory and practice of enterprise architecture ... this book captures the breadth and depth of information that a modern enterprise architecture must address to effectively support an agile enterprise. This book should have a place in every practicing architect's library." —John D. McDowall, Author of Complex Enterprise Architecture Digital Transformation of Enterprise Architecture is the first book to propose Enterprise Architecture (EA) as the most important element (after Business Models) for digital

transformation of enterprises. This book makes digital transformation more tangible by showing the rationale and typical technologies associated with it, and these technologies in turn reveal the essence of digital transformation. This book would be useful for analysts, designers and developers of future-ready agile application systems. This book proposes that it is the perennial quest for interoperability & portability, scalability, availability, etc., that has directed and driven the evolution of the IT/IS industry in the past 50 years. It is this very quest that has led to the emergence of technologies like service-oriented, cloud, and big data computing. In addition to the conventional attributes of EA like interoperability, scalability and availability, this book identifies additional attributes of mobility, ubiquity, security, analyticity, and usability. This pragmatic book: Identifies three parts effort for any digital transformation: Business Models, Enterprise Architectures and Enterprise Processes. Describes eight attributes of EA: interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability. Explains the corresponding technologies of service-oriented, cloud, big data, context-aware, Internet of Things (IoT), blockchain, soft, and interactive computing. Briefs on auxiliary technologies like integration, virtualization, replication, spatio-temporal databases, embedded systems, cryptography, data mining, and interactive interfaces that are essential for digital transformation of enterprise architecture. Introduces interactive interfaces like voice, gaze, gesture and 3D interfaces. Provides an overview of blockchain computing, soft computing, and customer interaction systems. Digital Transformation of Enterprise Architecture proposes that to withstand the disruptive digital storms of the future, enterprises must bring about digital transformation, i.e. a transformation that affects an exponential change (amplification or attenuation) in any aspect of the constituent attributes of EA. It proposes that each of these technologies (service-oriented, cloud, big data, context-aware, IoT, blockchain, soft, and interactive computing) bring about digital transformation of the corresponding EA attribute viz. interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability.

Creating Value by Informed Governance

Flow Architectures

Enterprise Architecture for Digital Business

The Business Case, Framework and Best Practices for Building Your Enterprise Architecture

Adaptive Integrated Digital Architecture Framework (AIDAF)

Enterprise Architecture for Global Companies in a Digital IT Era

Enterprise Architecture Planning

This book gathers together a critical body of knowledge on what enterprise architecture (EA) is and how it can be used to better organize the functions of systems across an enterprise for an effective business-IT alignment. The chapters provide a solid foundation for a cross-disciplinary professional practice.

The book attempts to answer a few of the common questions related to Enterprise Architecture (EA) and SOA. What are the issues? What is EA? Why should an organization consider EA? How to build the Enterprise Architecture and document it. What are the roadblocks, politics, governance, process and design method? How to measure the value delivered by EA and its maturity and how to select an Enterprise Architect? An innovative EA Framework, the associated metamodel and generic Enterprise Reference Maps (templates) for the business process, applications and

infrastructure layers are proposed. The framework looks like a content page showing the chapters of a book or, in this case, the components of the Enterprise Architecture without actually describing them but showing how they fit into the whole. The book then identifies and summarises Best Practices in the Enterprise Architecture and SOA development, EA patterns, the integration to the mundane solution architecture, delivery checklists. The book is intended to be a document summarising why and how to build an Enterprise Architecture.

This IBM® Redbooks® publication explains how to combine business process management (BPM) and Enterprise Architecture (EA) for better business outcomes. This book provides a unique synergistic approach to BPM and EA, based on a firm understanding of the life cycles of the enterprise and the establishment of appropriate collaboration and governance processes. When carried out together, BPM provides the business context, understanding, and metrics, and EA provides the discipline to translate business vision and strategy into architectural change. Both are needed for sustainable continuous improvement. This book provides thought leadership and direction on the topic of BPM and EA synergies. Although technical in nature, it is not a typical IBM Redbooks publication. The book provides guidance and direction on how to collaborate effectively across tribal boundaries rather than technical details about IBM software products. The primary audience for this book is leaders and architects who need to understand how to effectively combine BPM and EA to drive, as a key differentiator, continuous improvement and transformational change with enterprise scope.

EDGE: The Agile Operating Model That Will Help You Successfully Execute Your Digital Transformation “ [The authors ’] passion for technology allows them to recognize that for most enterprises in the 21st century, technology is THE business. This is what really separates the EDGE approach. It is a comprehensive operating model with technology at its core. ” —From the Foreword by Heidi Musser, Executive Vice President and Principal Consultant, Leading Agile; retired, Vice President and CIO, USAA Maximum innovation happens at the edge of chaos: the messy, risky, and uncertain threshold between randomness and structure. Operating there is uncomfortable but it ’ s where organizations “ invent the future. ” EDGE is a set of fast, iterative, adaptive, lightweight, and value-driven tools to achieve digital transformation, and EDGE: Value-Driven Digital Transformation is your guide to using this operating model for innovation. Jim Highsmith is one of the world ’ s leading agile pioneers and a coauthor of the Agile Manifesto. He, Linda Luu, and David Robinson know from their vast in-the-trenches experience that sustainable digital transformation requires far more than adopting isolated agile practices or conventional portfolio management. This hard, indispensable work involves changing culture and mindset, and going beyond transforming the IT department. EDGE embraces an adaptive mindset in the face of market uncertainty, a visible, value-centered portfolio approach that encourages continual value linkages from vision to detailed

initiatives, incremental funding that shifts as strategies evolve, collaborative decision-making, and better risk mitigation. This guide shows leaders how to use the breakthrough EDGE approach to go beyond incremental improvement in a world of exponential opportunities. Build an organization that adapts fast enough to thrive Clear away unnecessary governance processes, obsolete “ command and control ” leadership approaches, and slow budgeting/planning cycles Improve collaboration when major, fast-paced responses are necessary Continually optimize investment allocation and monitoring based on your vision and goals Register your product for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Third Edition

The Practice of Enterprise Architecture

Enterprise Architecture as Strategy

A Modern Approach to Business and IT Alignment

Handbook on Enterprise Architecture

A Practical Guide Using UML and BPMN

The Missing Link in Strategy Formulation, Implementation and Execution

An Introduction to Enterprise Architecture is the culmination of several decades of experience that I have gained through work initially as an information technology manager and then as a consultant to executives in the public and private sectors. I wrote this book for three major reasons: (1) to help move business and technology planning from a systems and process-level view to a more strategy-driven enterprise-level view, (2) to promote and explain the emerging profession of EA, and (3) to provide the first textbook on the subject of EA, which is suitable for graduate and undergraduate levels of study. To date, other books on EA have been practitioner books not specifically oriented toward a student who may be learning the subject with little to no previous exposure. Therefore, this book contains references to related academic research and industry best practices, as well as my own observations about potential future practices and the direction of this emerging profession.

Technologists who want their ideas heard, understood, and funded are often told to speak the language of business—without really knowing what that is. This book’s toolkit provides architects, product managers, technology managers, and executives with a shared language—in the form of repeatable, practical patterns and templates—to produce great technology strategies. Author Eben Hewitt developed 39 patterns over the course of a decade in his work as CTO, CIO, and chief architect for several global tech companies. With these proven tools, you can define, create, elaborate, refine, and communicate your architecture goals, plans, and approach in a way that executives can readily understand, approve, and execute. This book covers: Architecture and strategy: Adopt a strategic architectural mindset to make a meaningful material impact Creating your strategy: Define the components of your technology strategy using proven patterns Communicating the strategy: Convey your technology strategy in a compelling way to a variety of audiences Bringing it all together: Employ patterns individually or in clusters for specific problems; use the complete framework for a comprehensive strategy

bull; Written by expert practitioners who have hands-on experience solving real-world problems for large corporations bull; Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much more bull; Provides explanation of theory and implementation with real-world business examples to support key points

Electronic enterprise is the road map to well-planned evolution of enterprise complexity with business and system strategies integration through standardized architectures of IT components. This work provides a vision for IT leaders with practical solutions for IT implementation.

This handbook is about methods, tools and examples of how to architect an enterprise through considering all life cycle aspects of Enterprise Entities. It is based on ISO15704:2000, or the GERAM Framework. A wide audience is addressed, as the handbook covers methods and tools necessary to design or redesign enterprises, as well as those necessary to structure the implementation into manageable projects.

Architecture as Strategy

Creating a Foundation for Business Execution

Sustainable Enterprise Architecture

Architecting the Future Enterprise

An Introduction to Enterprise Architecture

Pragmatic Enterprise Architecture

Technology Strategy Patterns

Does it seem you've formulated a rock-solid strategy, yet your firm still can't get ahead? If so, construct a solid foundation for business execution—an IT infrastructure and digitized business processes to automate your company's core capabilities. In *Enterprise Architecture as Strategy: Creating a Foundation for Business Execution*, authors Jeanne W. Ross, Peter Weill, and David C. Robertson show you how. The key? Make tough decisions about which processes you must execute well, then implement the IT systems needed to digitize those processes. Citing numerous companies worldwide, the authors show how constructing the right enterprise architecture enhances profitability and time to market, improves strategy execution, and even lowers IT costs. Though clear, engaging explanation, they demonstrate how to define your operating model—your vision of how your firm will survive and grow—and implement it through your enterprise architecture. Their counterintuitive but vital message: when it comes to executing your strategy, your enterprise architecture may matter far more than your strategy itself.

Enterprise architecture defines a firm's needs for standardized tasks, job roles, systems, infrastructure, and data in core business processes. This book explains enterprise architecture's vital role in enabling - or

constraining - the execution of business strategy. It provides frameworks, case examples, and more. As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but rewarding role in the enterprise. This book is ideal for: Software architects and senior developers looking to shape the company's technology direction or assist in an organizational transformation Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics CTOs and senior technical architects who are devising an IT strategy that impacts the way the organization works IT managers who want to learn what's worked and what hasn't in large-scale transformation Software development today is embracing events and streaming data, which optimizes not only how technology interacts but also how businesses integrate with one another to meet customer needs. This phenomenon, called flow, consists of patterns and standards that determine which activity and related data is communicated between parties over the internet. This book explores critical implications of that evolution: What happens when events and data streams help you discover new activity sources to enhance existing businesses or drive new markets? What technologies and architectural patterns can position your company for opportunities enabled by flow? James Urquhart, global field CTO at VMware, guides enterprise architects, software developers, and product managers through the process. Learn the benefits of flow dynamics when businesses, governments, and other institutions integrate via events and data streams Understand the value chain for flow integration through Wardley mapping visualization and promise theory modeling Walk through basic concepts behind today's event-driven systems marketplace Learn how today's integration patterns will influence the real-time events flow in the future Explore why companies should architect and build software today to take advantage of flow in coming years Continuous Architecture provides a broad architectural perspective for continuous delivery, and describes a new architectural approach that supports and enables it. As the pace of innovation and software releases increases, IT departments are tasked to deliver value quickly and inexpensively to their business

partners. With a focus on getting software into end-users hands faster, the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every change to the system simply and efficiently. This book presents an architectural approach to support modern application delivery methods and provide a broader architectural perspective, taking architectural concerns into account when deploying agile or continuous delivery approaches. The authors explain how to solve the challenges of implementing continuous delivery at the project and enterprise level, and the impact on IT processes including application testing, software deployment and software architecture. Covering the application of enterprise and software architecture concepts to the Agile and Continuous Delivery models Explains how to create an architecture that can evolve with applications Incorporates techniques including refactoring, architectural analysis, testing, and feedback-driven development Provides insight into incorporating modern software development when structuring teams and organizations

Strategic Enterprise Architecture Management

Sustainable Architecture in an Agile and Cloud-Centric World

Chess and the Art of Enterprise Architecture

Electronic Enterprise

Elements of Effective IT Management

EDGE

Enriching EA with Lean, Agile, and Enterprise 2.0 Practices

This book investigates solutions incorporated by architecture boards in global enterprises to resolve issues and mitigate related architecture risks, while also proposing and implementing an adaptive integrated digital architecture framework (AIDAF) and related models and approaches/platforms, which can be applied in companies to promote IT strategies using cloud/mobile IT/digital IT. The book is divided into three main parts, the first of which (Chapters 1–2) addresses the background and motivation for AIDAF in connection with IT strategies for cloud/mobile IT/digital IT. The second part (Chapter 3) provides an overview of strategic enterprise architecture (EA) frameworks and related models in the era of digital IT, elaborates on the essential elements of EA frameworks in the era of cloud/mobile IT/digital IT, and advocates using AIDAF and related models for architecture assessment/risk management and knowledge management on digital platforms. In turn, the third part (Chapters 4–7) demonstrates the application and benefits of AIDAF and several related approaches/models, as shown in three case studies. “I found this book to be a very nice contribution to the EA community of practice. I can recommend this book as a textbook for digital IT strategists/practitioners, EA practitioners,

students in universities and graduate schools.” (From the Foreword by Scott A. Bernard) “In this new age of the digital information society, it is necessary to advocate a new EA framework. This book provides state-of-the art knowledge and practices about EA frameworks beneficial for IT practitioners, IT strategists, CIO, IT architects, and even students. It serves as an introductory textbook for all who drive the information society in this era.”(From the Foreword by Jun Murai)

A Systemic Perspective to Managing Complexity with Enterprise Architecture

An Enterprise Architecture Development Framework

Integrated Transformation Strategies

Strategic IT Management

Collaborative Enterprise Architecture

The Software Architect Elevator