

The Api Economy Disruption And The Business Of Apis

This open access book constitutes the 6 research workshops, the Agile Education and Training Track, the Doctoral Symposium, as well as a panel presented at XP 2020, the 21st International Conference on Agile Software Development, which was held during June 8-12, 2020. The conference was planned to take place at the IT University of Copenhagen, Denmark. Due to the COVID 19 pandemic, the conference was held online. In 2020, the following six workshops took place: Third International Workshop on Software-Intensive Business Eighth International Workshop on Large-Scale Agile Development Second European Symposium on Serverless Computing and Applications Second International Workshop on Agile Transformation First International Workshop on Agility with Microservices Programming Third International Workshop on Autonomous Agile Teams XP is the premier agile software development conference combining research and practice. It is a unique forum where agile researchers, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. XP conferences provide an informal environment to learn and trigger discussions and welcome both people new to agile and seasoned agile practitioners. The 31 papers presented in this volume were carefully reviewed and selected from overall 79 submissions. In addition to the 26 workshop papers, this volume also includes 2 papers from the Agile Education and Training Track and 3 papers from the Doctoral Symposium. Furthermore, the book contains a summary of a panel discussion with the topic "Covid-19s Influence on the Future of Agile".

'One of those who has been warning me of [a coming crisis] for a long time is Paul Gilding, the Australian environmental business expert. He has a name for this moment - when both Mother Nature and Father Greed have hit the wall at once - The Great Disruption.'-Thomas Friedman, The New York Times

The solution to inequality, environmental degradation, and other deficits of capitalism is better capitalism. The Power of Creative Destruction draws on cutting-edge research to argue that what we need today is not revolution but reform: pro-competitive policies that enable innovation while compensating for the disruption it causes.

The Phoenix Project wowed over a half-million readers. Now comes the Wall Street Journal Bestselling The Unicorn Project! "The Unicorn Project is amazing, and I loved it 100 times more than The Phoenix Project..."—FERNANDO CORNAGO, Senior Director Platform Engineering, Adidas "Gene Kim does a masterful job of showing how ... the efforts of many create lasting business advantages for all."—DR. STEVEN SPEAR, author of The High-Velocity Edge, Sr. Lecturer at MIT, and principal of HVE LLC. "The Unicorn Project is so clever, so good, so crazy enlightening!"—CORNELIA DAVIS, Vice President Of

Technology at Pivotal Software, Inc., Author of Cloud Native Patterns This highly anticipated follow-up to the bestselling title *The Phoenix Project* takes another look at *Parts Unlimited*, this time from the perspective of software development. In *The Unicorn Project*, we follow Maxine, a senior lead developer and architect, as she is exiled to the Phoenix Project, to the horror of her friends and colleagues, as punishment for contributing to a payroll outage. She tries to survive in what feels like a heartless and uncaring bureaucracy and to work within a system where no one can get anything done without endless committees, paperwork, and approvals. One day, she is approached by a ragtag bunch of misfits who say they want to overthrow the existing order, to liberate developers, to bring joy back to technology work, and to enable the business to win in a time of digital disruption. To her surprise, she finds herself drawn ever further into this movement, eventually becoming one of the leaders of the Rebellion, which puts her in the crosshairs of some familiar and very dangerous enemies. The Age of Software is here, and another mass extinction event looms—this is a story about rebel developers and business leaders working together, racing against time to innovate, survive, and thrive in a time of unprecedented uncertainty...and opportunity. “The Unicorn Project provides insanely useful insights on how to improve your technology business.”—DOMINICA DEGRANDIS, author of *Making Work Visible* and Director of Digital Transformation at Tasktop ——— “My goal in writing *The Unicorn Project* was to explore and reveal the necessary but invisible structures required to make developers (and all engineers) productive, and reveal the devastating effects of technical debt and complexity. I hope this book can create common ground for technology and business leaders to leave the past behind, and co-create a better future together.”—Gene Kim, November 2019

Companies from startups to corporate giants face massive amounts of disruption today. Now more than ever, organizations need nimble and responsive leaders who know how to exploit the opportunities that change brings. In this insightful book, Jean Dahl, a senior executive and expert in the Lean mindset and its methods, demonstrates why you need to embrace Modern Lean principles and thinking to redefine leadership in this age of digital disruption in order to continuously evolve the Lean enterprise. Drawing on nearly three decades of corporate and consulting experience, Ms. Dahl lays out a new holistic framework for developing Modern Lean leaders. Through personal experiences and compelling real-world case studies, she explains specific steps necessary for you and your company to proactively understand and respond to change. Understand the leadership challenges Lean leaders face in our 21st century global economy Explore the six dimensions of the Modern Lean Framework™ Learn and apply the nine steps necessary to become a Lean leader Use Modern Lean methods to build a culture of continuous learning that can be sustained and maintained within your organization Seize competitive advantage by embracing Modern Lean to build an enterprise that understands how to respond to disruption

"The reader will learn about key developments in the industry and obtain insights of cutting-edge practitioners whether entrepreneurs, investors, or advisors in the retail/commercial banking/investment banking and asset management space"--
The Regulatory Technology Handbook The transformational potential of RegTech has been confirmed in recent years with US\$1.2 billion invested in start-ups (2017) and an expected additional spending of US\$100 billion by 2020. Regulatory technology will not only provide efficiency gains for compliance and reporting functions, it will radically change market structure and supervision. This book, the first of its kind, is providing a comprehensive and invaluable source of information aimed at corporates, regulators, compliance professionals, start-ups and policy makers. The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts. It serves as a single reference point to understand the RegTech eco-system and its impact on the industry. Readers will learn foundational notions such as:

- The economic impact of digitization and datafication of regulation
- How new technologies (Artificial Intelligence, Blockchain) are applied to compliance
- Business use cases of RegTech for cost-reduction and new product origination
- The future regulatory landscape affecting financial institutions, technology companies and other industries

Edited by world-class academics and written by compliance professionals, regulators, entrepreneurs and business leaders, the RegTech Book represents an invaluable resource that paves the way for 21st century regulatory innovation.

Everything that we know about the world of finance is changing before us. Innovation is happening constantly, despite the protests of the traditional financial industry. With all the new technology that we have today, it is almost mind-blowing to think about the kind of technology that we will have in another ten years or so. The change is going to keep coming, the only thing we can do is get on board with it. This book introduces the basics of FinTech and equips readers with the knowledge to get on the cutting edge of age we live in today.

Looking for Best Practices for RESTful APIs? This book is for you! Why? Because this book is packed with practical experience on what works best for RESTful API Design. You want to design APIs like a Pro? Use API description languages to both design APIs and develop APIs efficiently. The book introduces the two most common API description languages RAML, OpenAPI, and Swagger. Your company cares about its customers? Learn API product management with a customer-centric design and development approach for APIs. Learn how to manage APIs as a product and how to follow an API-first approach. Build APIs your customers love! You want to manage the complete API lifecycle? An API development methodology is proposed to guide you through the lifecycle: API inception, API design, API development, API publication, API evolution, and maintenance. You want to build APIs right? This book shows best practices for REST design, such as the correct use of resources, URIs, representations, content types, data formats, parameters, HTTP status codes, and HTTP methods. Your APIs connect to legacy systems? The book shows best practices for connecting APIs to existing backend systems. Your APIs connect to a mesh of microservices? The book

shows the principles for designing APIs for scalable, autonomous microservices. You expect lots of traffic on your API? The book shows you how to achieve high performance, availability and maintainability. You want to build APIs that last for decades? We study API versioning, API evolution, backward- and forward-compatibility and show API design patterns for versioning. The API-University Series is a modular series of books on API-related topics. Each book focuses on a particular API topic, so you can select the topics within APIs, which are relevant for you.

A strategy and implementation guide for building, deploying, and managing APIs
Key Features
Comprehensive, end-to-end guide to business-driven enterprise APIs
Distills years of experience with API and microservice strategies
Provides detailed guidance on implementing API-led architectures in any business
Book Description
APIs are the cornerstone of modern, agile enterprise systems. They enable access to enterprise services from a wide variety of devices, act as a platform for innovation, and open completely new revenue streams. Enterprise API Management shows how to define the right architecture, implement the right patterns, and define the right organization model for business-driven APIs. Drawing on his experience of developing API and microservice strategies for some of the world's largest companies, Luis Weir explains how APIs deliver value across an enterprise. The book explores the architectural decisions, implementation patterns, and management practices for successful enterprise APIs, as well as providing clear, actionable advice on choosing and executing the right API strategy in your enterprise. With a relentless focus on creating business value, Luis Weir reveals an effective method for planning, building, and running business products and services with APIs. What you will learn
Create API strategies to deliver business value
Monetize APIs, promoting them through public marketplaces and directories
Develop API-led architectures, applying best practice architecture patterns
Choose between REST, GraphQL, and gRPC-style API architectures
Manage APIs and microservices through the complete life cycle
Deploy APIs and business products, as well as Target Operating Models
Lead product-based organizations to embrace DevOps and focus on delivering business capabilities
Who this book is for
Architects, developers, and technology executives who want to deliver successful API strategies that bring business value.

For more than 20 years, supply chains have been optimized using electronic data interchange based on the EDIFACT standard. In 2010, the EU Commission launched a digital agenda to optimize public administration processes through uniform and cross-border regulations. Ongoing globalization and increased environmental awareness are creating increasing demands for the transport industry, such as shifting transport from road to rail. Several projects are focusing on the semantic standardization of data exchange based on web technologies, in order to optimize system interaction between all players of the transport supply chain. This study investigates, if using a semantic reference data model instead of a proprietary data model fosters the intensity of possible interactions of data exchange systems in the European goods transport industry. To be able to measure a change drivers, benefits, challenges, and success factors for collaborative data exchange are identified. The research in this study bases its solutions on the system interaction theory and performs a literature review as well as collects primary data. Six representatives of important players of the European goods transport industry are interviewed and surveyed.

The Handbook of Computational Social Science is a comprehensive reference source for scholars across multiple disciplines. It outlines key debates in the field, showcasing novel statistical modeling and machine learning methods, and draws from specific case studies to demonstrate the opportunities and challenges in CSS approaches. The Handbook is divided into two volumes written by outstanding, internationally renowned scholars in the field. This second volume focuses on foundations and advances in data science, statistical modeling, and machine learning. It covers a range of key issues, including the management of big data in terms of record linkage, streaming, and missing data. Machine learning, agent-based and statistical modeling, as well as data quality in relation to digital trace and textual data, as well as probability, non-probability, and crowdsourced samples represent further foci. The volume not only makes major contributions to the consolidation of this growing research field, but also encourages growth into new directions. With its broad coverage of perspectives (theoretical, methodological, computational), international scope, and interdisciplinary approach, this important resource is integral reading for advanced undergraduates, postgraduates, and researchers engaging with computational methods across the social sciences, as well as those within the scientific and engineering sectors.

Digital technology allows businesses to operate in a country without a physical presence, which poses challenges for traditional taxation. The digital debate focuses on direct taxation and the creation of new taxing rights arising from the tax claims of market jurisdictions on income obtained by foreign digital suppliers conducting business therein without any physical presence. *Tax Theory Applied to the Digital Economy* analyzes the tax-disruptive aspects of digital business models and reviews current tax initiatives in light of traditional tax theory principles. The analysis concludes that market countries' tax claims are unsubstantiated and contravene the most basic foundations of tax theory, giving rise to a series of legal, economic, tax policy, and tax administration issues that policy makers cannot overlook. The authors propose establishing a digital data tax (DDT) that is a license-type consumption tax, rather than an income tax, on the international supply of Internet bandwidth to access digital markets. The DDT can be applied either globally or unilaterally, and could become a significant source of tax revenues for market jurisdictions. It is aligned with tax principles and it does not conflict with other tax initiatives: the DDT taxes foreign digital companies as consumers, while income tax proposals tax them as suppliers. The authors also propose creating a new global internet tax agency (GITA) under the auspices of the United Nations that would provide a neutral forum for political discussion and technical assistance in the area of digital taxation. The digital economy is a global phenomenon that requires a global solution: the creation of global taxing mechanisms and global institutions that provide technical assistance and support for successful global implementation. The book explains difficult technical concepts in plain language and contributes to the digital tax debate in a way that can be understood by anyone. Such understanding is essential to obtaining global support, achieving tax compliance, and fostering multilateral tax cooperation.

A front-line industry insider's look at the financial technology explosion *The FINTECH Book* is your primary guide to the financial technology revolution, and the disruption, innovation and opportunity therein. Written by prominent thought leaders in the global fintech investment space, this book aggregates diverse industry expertise into a single

informative volume to provide entrepreneurs, bankers and investors with the answers they need to capitalize on this lucrative market. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned. The financial technology sector is booming, and entrepreneurs, bankers, consultants, investors and asset managers are scrambling for more information: Who are the key players? What's driving the explosive growth? What are the risks? This book collates insights, knowledge and guidance from industry experts to provide the answers to these questions and more. Get up to speed on the latest industry developments Grasp the market dynamics of the 'fintech revolution' Realize the sector's potential and impact on related industries Gain expert insight on investment and entrepreneurial opportunities The fintech market captured over US\$14 billion in 2014, a three-fold increase from the previous year. New startups are popping up at an increasing pace, and large banks and insurance companies are being pushed toward increasing digital operations in order to survive. The financial technology sector is booming and The FINTECH Book is the first crowd-sourced book on the subject globally, making it an invaluable source of information for anybody working in or interested in this space.

Digital transformation is not about technology--it's about change. In the rapidly changing digital economy, you can't succeed by merely tweaking management practices that led to past success. And yet, while many leaders and managers recognize the threat from digital--and the potential opportunity--they lack a common language and compelling framework to help them assess it and guide them in responding. They don't know how to think about their digital business model. In this concise, practical book, MIT digital research leaders Peter Weill and Stephanie Woerner provide a powerful yet straightforward framework that has been field-tested globally with dozens of senior management teams. Based on years of study at the MIT Center for Information Systems Research (CISR), the authors find that digitization is moving companies' business models on two dimensions: from value chains to digital ecosystems, and from a fuzzy understanding of the needs of end customers to a sharper one. Looking at these dimensions in combination results in four distinct business models, each with different capabilities. The book then sets out six driving questions, in separate chapters, that help managers and executives clarify where they are currently in an increasingly digital business landscape and highlight what's needed to move toward a higher-value digital business model. Filled with straightforward self-assessments, motivating examples, and sharp financial analyses of where profits are made, this smart book will help you tackle the threats, leverage the opportunities, and create winning digital strategies.

Technological Revolutions and Financial Capital presents a novel interpretation of the good and bad times in the economy, taking a long-term perspective and linking technology and finance in an original and convincing way.

Jeff Lawson, software developer turned CEO of Twilio, creates a new playbook for unleashing the full potential of software developers in any organization, showing how to help management utilize this coveted and valuable workforce to enable growth, solve a wide range of business problems and drive digital transformation. From banking and retail to insurance and finance, every industry is turning digital, and every company needs the best software to win the hearts and minds of customers. The landscape has shifted from the classic build vs. buy question, to one of build vs. die. Companies have to get this right to survive. But how do they make this

transition? Software developers are sought after, highly paid, and desperately needed to compete in the modern, digital economy. Yet most companies treat them like digital factory workers without really understanding how to unleash their full potential. Lawson argues that developers are the creative workforce who can solve major business problems and create hit products for customers—not just grind through rote tasks. From Google and Amazon, to one-person online software companies—companies that bring software developers in as partners are winning. Lawson shows how leaders who build industry changing software products consistently do three things well. First, they understand why software developers matter more than ever. Second, they understand developers and know how to motivate them. And third, they invest in their developers' success. As a software developer and public company CEO, Lawson uses his unique position to bridge the language and tools executives use with the unique culture of high performing, creative software developers. *Ask Your Developer* is a toolkit to help business leaders, product managers, technical leaders, software developers, and executives achieve their common goal—building great digital products and experiences. How to compete in the digital economy? In short: *Ask Your Developer*.

"Creating channels with application programming interfaces"--Cover.

The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in building new customer experiences, rather than forcing models for architecture and development that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers.

A practical guide to the new economy that is transforming the way we live, work, and play. Uber. Airbnb. Amazon. Apple. PayPal. All of these companies disrupted their markets when they launched. Today they are industry leaders. What's the secret to their success? These cutting-edge businesses are built on platforms: two-sided markets that are revolutionizing the way we do business. Written by three of the most sought-after experts on platform businesses, *Platform Revolution* is the first authoritative, fact-based book on platform models. Whether platforms are connecting sellers and buyers, hosts and visitors, or drivers with people who need a ride, Geoffrey G. Parker, Marshall W. Van Alstyne, and Sangeet Paul Choudary reveal the what, how, and why of this revolution and provide the first "owner's manual" for creating a successful platform business. *Platform Revolution* teaches newcomers how to start and run a successful platform business, explaining ways to identify prime markets and monetize networks. Addressing current business leaders, the authors reveal strategies behind some of today's up-and-coming platforms, such as Tinder and SkillShare, and explain how traditional companies can adapt in a changing marketplace. The authors also cover essential issues concerning security, regulation, and consumer trust, while examining markets that may be ripe for a platform revolution, including healthcare, education, and energy. As digital networks increase in ubiquity, businesses that do a better job of harnessing the power of the platform will

win. An indispensable guide, Platform Revolution charts out the brilliant future of platforms and reveals how they will irrevocably alter the lives and careers of millions.

Web APIs are everywhere, giving developers an efficient way to interact with applications, services, and data. Well-designed APIs are a joy to use; poorly-designed APIs are cumbersome, confusing, and frustrating. The Design of Web APIs is a practical, example packed guide to crafting extraordinary web APIs. Author Arnaud Lauret demonstrates fantastic design principles and techniques you can apply to both public and private web APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

API is technology and digital product used for artificial intelligence, platform economy, and internet. It has the capability to change business models dramatically. APIs (application programming interfaces) are becoming a major competitive factor for companies. This book takes on the fundamental questions of API Economy and approaches the subject pragmatically and clearly without technical jargon. The book clarifies the birth and shape of the API Economy with numerous practical examples. This is the first API Economy book based on scientific references. Originally this popular book was written in Finnish. It is a great start for students and advanced professionals alike. After reading this book, you will understand what it is all about and how to move forward and grow your business with APIs. The authors are leading Finnish API-experts with an abundance of experience from API and platform economy as authors, researchers, and lecturers and consultants.

Disruptive technology is one of the defining economic trends of our age, transforming one major industry after another. But what is the true impact of such disruption on the world's economies, and does it really have the potential to solve global problems such as low growth, inequality and environmental degradation? The provocative answer is that such disruption could indeed solve many of these issues, but that it won't... at least, not on its current trajectory. A Good Disruption highlights some of the huge costs that are at stake, and argues that managing such disruption will be the defining business challenge of the next decade. In order for us to meet that challenge, the book sets out a bold and inspirational vision for a more robust and sustainable economic model. Rich in relevant case studies, and incorporating industry examples from around the world, A Good Disruption accomplishes the remarkable feat of synthesizing key contemporary trends into a coherent world view of how to seize the potential of our collective futures. This is essential reading for policy makers, politicians, business executives and social scientists, as well as anyone who wants a deeper understanding of the impact of disruptive technology and how it can be transformed into a major force for the global good.

The winners of the Nobel Prize show how economics, when done right, can help us solve the thorniest social and political problems of our day. Figuring out how to deal with today's critical economic problems is perhaps the great challenge of our time. Much greater than space travel or perhaps even the next revolutionary medical breakthrough, what is at stake is the whole idea of the good life as we have known it. Immigration and inequality, globalization and technological disruption, slowing growth and accelerating climate change--these are sources of great anxiety across the world, from New Delhi and Dakar to Paris and Washington, DC. The resources to address these challenges are there--what we lack are ideas that will help us jump the wall of disagreement and distrust that divides us. If we succeed, history will remember our era with gratitude; if we fail, the potential losses are incalculable. In this revolutionary book, renowned MIT economists Abhijit V. Banerjee and Esther Duflo take on this challenge, building on cutting-edge research in economics explained with lucidity and grace. Original, provocative, and urgent, Good Economics for Hard Times makes a persuasive case for an intelligent interventionism and a society built on compassion and respect. It is an extraordinary achievement, one that shines a light to help us appreciate and understand our precariously

balanced world.

This book constitutes the proceedings of the 22nd International Conference on Coordination Models and Languages, COORDINATION 2020, which was due to be held in Valletta, Malta, in June 2020, as part of the 15th International Federated Conference on Distributed Computing Techniques, DisCoTec 2020. The conference was held virtually due to the COVID-19 pandemic. The 12 full papers and 6 short papers included in this volume were carefully reviewed and selected from 30 submissions. They are presented in this volume together with 2 invited tutorials and 4 tool papers. The papers are organized in the following topical sections: tutorials; coordination languages; message-based communication; communications: types & implementations; service-oriented computing; large-scale decentralized systems; smart contracts; modelling; verification & analysis.

Taking the lessons learned from his years studying the rise and fall of the modern music industry, Spotify's Chief Economist has crafted "a compelling and generous read" (Scott Galloway) that provides the tools to recognize and adapt to disruption in any industry. As the chief economist at Spotify, Will Page has had the best seat in the house for witnessing—and harnessing—the power of disruptive change. Music has often been the canary in the coal mine for major technological and societal shifts, and if there's one thing Page learned from the digital revolution, it's that businesses must be ready to pivot. Drawing practical lessons from a variety of fresh case studies covering Radiohead, Starbucks, and even Groucho Marx, Page examines the eight principles that disruption has thrown into sharp relief as keys to survival in any sector. Businesses need to be ready and willing to change and, if necessary, be prepared to rebuild entire organizations and business models to do so. Pivoting through disruption has everything to do with being able to see the revolutionary changes around the corner, recognizing your strengths, and having the confidence to let go of the old vine of doing business and grab onto the new. A rare book of economics offering actionable takeaways in easy-to-understand language, *Tarzan Economics* is the must-read book for anyone staring at their own Napster moment and wishing they knew how to fail-safe their business.

The Power of the API Economy Rethinking Disruption and Becoming a Digital Business IBM Press

Few figures are more crucial to understanding the upheavals of our contemporary era than Karl Polanyi. In a world riven by social and economic crises, from rising inequality to the decay of democratic institutions and profound technological disruption, Polanyi's path-breaking account of the dynamics of market capitalism and his defence of society and nature against the dangerous tendencies of the market capitalist system are more relevant than ever. This book brings together Polanyi's most important articles and essays to give a unique selection of his essential shorter writings, mixing classic texts with significant but previously little-known pieces. It highlights the coherence and richness of Polanyi's theoretical and political approach, making it indispensable for understanding his overarching intellectual contribution. The volume includes his interwar writings, which deal with the world economic crisis and the socialist alternative to conservative and fascist developments; his reflection on political theory and the international situation after the war; and his comparative studies of economic institutions. Polanyi's political writings are complemented and supported by the critique of economic determinism and what he termed 'our obsolete market mentality'. This book is an invaluable companion to Polanyi's masterpiece, *The Great Transformation*, and an essential resource for students and scholars of political economy, sociology, history and political philosophy.

Based on eight years of research visiting dozens of startups, tech companies and incumbents, Harvard Business School professor Thales Teixeira shows how and why consumer industries are disrupted, and what established companies can do about it—while highlighting the specific strategies potential startups use to gain a competitive edge. There is a pattern to digital disruption in an industry, whether the disruptor is Uber, Airbnb, Dollar Shave Club, Pillpack or

one of countless other startups that have stolen large portions of market share from industry leaders, often in a matter of a few years. As Teixeira makes clear, the nature of competition has fundamentally changed. Using innovative new business models, startups are stealing customers by breaking the links in how consumers discover, buy and use products and services. By decoupling the customer value chain, these startups, instead of taking on the Unilevers and Nikes, BMW's and Sephoras of the world head on, peel away a piece of the consumer purchasing process. Birchbox offered women a new way to sample beauty products from a variety of companies from the convenience of their homes, without having to visit a store. Turo doesn't compete with GM. Instead, it offers people the benefit of driving without having to own a car themselves. Illustrated with vivid, indepth and exclusive accounts of both startups, and reigning incumbents like Best Buy and Comcast, as they struggle to respond, *Unlocking the Customer Value Chain* is an essential guide to demystifying how digital disruption takes place – and what companies can do to defend themselves.

The API Economy is key to accelerating business value by uncovering more profitable opportunities, reaching more profitable customers, and establishing more profitable partnerships. The cloud, ubiquitous mobility, Big Data analytics, the Internet of Things, software defined networking, and social platforms are fueling the hyper-growth of API-centric, business-as-a-service economies, in which entire businesses are digitized, and entirely new forms of business and consumer interaction emerge. Using these technologies, you can become easier to do business with, foster new channels, reach new markets, and radically improve your ability to collaborate. To achieve these goals, you must understand powerful new market dynamics, important ways in which your customers' lives are changing, and radically new technologies. But understanding isn't enough: you must plan and execute an effective response. In *The Power of the API Economy*, IBM Fellow Kerrie Holley covers all of this: ideas, implications, roadmaps, and execution. Holley demystifies both the technological and business trends driving the API economy, and offers a complete action plan for leveraging its torrent of new opportunities (and managing its many new risks). He offers clear, practical answers to key questions such as: What is the "API economy," and why should I care? How are digital platforms transforming business ecosystems, interactions, and my customers' lives and expectations? Which of my offerings are threatened most immediately, and what should I do? How can I use APIs to innovate at the speed of cloud and Internet-era companies - and create value at the same speed? How can I drive strategic advantage from "purpose-driven platforms" such as Facebook, Salesforce, iTunes, and Amazon? What happens when everyone's engaged with everything, and everyone's both a partner and a competitor? What do I do now? How will I know if it's working? Whether you're a CxO-level executive, line-of-business leader, technologist, strategist, marketer, or consultant, *The Power of the API Economy* will help you capture value and serve customers in ways you could have never imagined before -- because, until now, they simply didn't exist!

The CIO Insight columnist author of *Unleashing the Killer App* assesses the morally ambiguous edge of modern technology and the law's ability to keep up with it, exploring the ramifications of such everyday innovations as licensing agreements, digital music, and phone apps.

Why our economy is cheating the future—and what we can do about it The world's leading economies are facing not just one but many crises. The financial meltdown may not be over, climate change threatens major global disruption, economic inequality has reached extremes not seen for a century, and government and business are widely distrusted. At the same time, many people regret the consumerism and social corrosion of modern life. What these crises have in common, Diane Coyle argues, is a reckless disregard for the future—especially in the way the economy is run. How can we achieve the financial growth we need today without sacrificing a decent future for our children, our societies, and our planet? How can we realize what Coyle calls "the Economics of Enough"? Running the economy for tomorrow as well as

today will require a wide range of policy changes. The top priority must be ensuring that we get a true picture of long-term economic prospects, with the development of official statistics on national wealth in its broadest sense, including natural and human resources. Saving and investment will need to be encouraged over current consumption. Above all, governments will need to engage citizens in a process of debate about the difficult choices that lie ahead and rebuild a shared commitment to the future of our societies. Creating a sustainable economy—having enough to be happy without cheating the future—won't be easy. But *The Economics of Enough* starts a profoundly important conversation about how we can begin—and the first steps we need to take.

The world economy is experiencing a very strong but uneven recovery, with many emerging market and developing economies facing obstacles to vaccination. The global outlook remains uncertain, with major risks around the path of the pandemic and the possibility of financial stress amid large debt loads. Policy makers face a difficult balancing act as they seek to nurture the recovery while safeguarding price stability and fiscal sustainability. A comprehensive set of policies will be required to promote a strong recovery that mitigates inequality and enhances environmental sustainability, ultimately putting economies on a path of green, resilient, and inclusive development. Prominent among the necessary policies are efforts to lower trade costs so that trade can once again become a robust engine of growth. This year marks the 30th anniversary of the *Global Economic Prospects*. The *Global Economic Prospects* is a World Bank Group Flagship Report that examines global economic developments and prospects, with a special focus on emerging market and developing economies, on a semiannual basis (in January and June). Each edition includes analytical pieces on topical policy challenges faced by these economies.

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.

Streaming data is a big deal in big data these days. As more and more businesses seek to tame the massive unbounded data sets that pervade our world, streaming systems have finally reached a level of maturity sufficient for mainstream adoption. With this practical guide, data engineers, data scientists, and developers will learn how to work with streaming data in a conceptual and platform-agnostic way. Expanded from Tyler Akidau's popular blog posts "Streaming 101" and "Streaming 102", this book takes you from an introductory level to a nuanced understanding of the what, where, when, and how of processing real-time data streams. You'll also dive deep into watermarks and exactly-once processing with co-authors Slava Chernyak and Reuven Lax. You'll explore: How streaming and batch data processing patterns compare The core principles and concepts behind robust out-of-order data processing How watermarks track progress and completeness in infinite datasets How exactly-once data processing techniques ensure correctness How the concepts of streams and tables form the foundations of both batch and streaming data processing The practical motivations behind a powerful persistent state mechanism, driven by a real-world example How time-varying relations provide a link between stream processing and the world of SQL and relational algebra Technology provides accessibility otherwise unavailable to the people who can benefit from it

the most. As new digital tools become less expensive and more widely available, research and real-world cases that examine the union between emergent countries and information systems are essential in determining the next steps for these nations. The Handbook of Research on Managing Information Systems in Developing Economies is a pivotal reference source that explores the effects of technological data handling within developing economies. Covering a broad range of topics such as emerging digital technologies, socio-economic development, and technology startups, this book is ideally designed for software programmers, policymakers, practitioners, educators, academicians, students, and researchers.

A trio of experts on high-tech business strategy and innovation reveal the principles that have made platform businesses the most valuable firms in the world and the first trillion-dollar companies. Managers and entrepreneurs in the digital era must learn to live in two worlds—the conventional economy and the platform economy. Platforms that operate for business purposes usually exist at the level of an industry or ecosystem, bringing together individuals and organizations so they can innovate and interact in ways not otherwise possible. Platforms create economic value far beyond what we see in conventional companies. The Business of Platforms is an invaluable, in-depth look at platform strategy and digital innovation. Cusumano, Gawer, and Yoffie address how a small number of companies have come to exert extraordinary influence over every dimension of our personal, professional, and political lives. They explain how these new entities differ from the powerful corporations of the past. They also question whether there are limits to the market dominance and expansion of these digital juggernauts. Finally, they discuss the role governments should play in rethinking data privacy laws, antitrust, and other regulations that could reign in abuses from these powerful businesses. Their goal is to help managers and entrepreneurs build platform businesses that can stand the test of time and win their share of battles with both digital and conventional competitors. As experts who have studied and worked with these firms for some thirty years, this book is the most authoritative and timely investigation yet of the powerful economic and technological forces that make platform businesses, from Amazon and Apple to Microsoft, Facebook, and Google—all dominant players in shaping the global economy, the future of work, and the political world we now face.

Our intuition on how the world works could well be wrong. We are surprised when new competitors burst on the scene, or businesses protected by large and deep moats find their defenses easily breached, or vast new markets are conjured from nothing. Trend lines resemble saw-tooth mountain ridges. The world not only feels different. The data tell us it is different. Based on years of research by the directors of the McKinsey Global Institute, No Ordinary Disruption: The Four Forces Breaking all the Trends is a timely and important analysis of how we need to reset our intuition as a result of four forces colliding and transforming the global economy: the rise of emerging markets, the accelerating impact of technology on the natural forces of market competition, an aging world population, and accelerating flows of trade, capital and people. Our intuitions formed during a uniquely benign period for the world economy—often termed the Great Moderation. Asset prices were rising, cost of capital was falling, labour and resources were abundant, and generation after generation was growing up more prosperous than their parents. But the Great Moderation has gone. The cost of capital may rise. The price of everything from grain to steel may become more volatile. The world's labor force could shrink. Individuals, particularly those with low job skills, are at risk of growing up poorer than their parents. What sets No Ordinary Disruption apart is depth of analysis combined with lively writing informed by surprising, memorable insights that enable us to quickly grasp the disruptive forces at work. For evidence of the shift to emerging markets, consider the startling fact that, by 2025, a single regional city in China—Tianjin—will have a GDP equal to that of the Sweden, of that, in the decades ahead, half of the world's economic growth will come from 440 cities including Kumasi in Ghana or Santa

Carina in Brazil that most executives today would be hard-pressed to locate on a map. What we are now seeing is no ordinary disruption but the new facts of business life— facts that require executives and leaders at all levels to reset their operating assumptions and management intuition.

In recent years, API adoption has exploded among developers, for reasons that this book will examine. But the purpose of this book is not to discuss how to deliver an API but to rather how to scale the business side to meet this rising developer demand. Written by someone with an engineering and a business background, *The Business of APIs* also aims to bridge the technical and the business aspects of API development. This book serves to help people understand what APIs are, who uses them, and the different types of APIs that are available. As the title suggests, this is a business-oriented book. Nonetheless it does seek to educate users about what types of technologies go into popular Web APIs. The book also surveys the history of modern Web APIs and examines how they've been used successfully. If you are considering launching an API, this book should help you understand the common stumbling blocks that have been faced by many API owners -- then hopefully you can avoid them. The book will also identify common building blocks used by API owners, building blocks that should be fundamental for your API planning and development. *The Business of APIs* highlights what it takes to be successful in providing quality Web APIs and points to some of the innovative steps new businesses are taking with their APIs -- all in an effort to build vibrant API ecosystems and healthy businesses.

Most economists would agree that a thriving economy is synonymous with GDP growth. The more we produce and consume, the higher our living standard and the more resources available to the public. This means that our current era, in which growth has slowed substantially from its postwar highs, has raised alarm bells. But should it? Is growth actually the best way to measure economic success—and does our slowdown indicate economic problems? The counterintuitive answer Dietrich Vollrath offers is: No. Looking at the same facts as other economists, he offers a radically different interpretation. Rather than a sign of economic failure, he argues, our current slowdown is, in fact, a sign of our widespread economic success. Our powerful economy has already supplied so much of the necessary stuff of modern life, brought us so much comfort, security, and luxury, that we have turned to new forms of production and consumption that increase our well-being but do not contribute to growth in GDP. In *Fully Grown*, Vollrath offers a powerful case to support that argument. He explores a number of important trends in the US economy: including a decrease in the number of workers relative to the population, a shift from a goods-driven economy to a services-driven one, and a decline in geographic mobility. In each case, he shows how their economic effects could be read as a sign of success, even though they each act as a brake of GDP growth. He also reveals what growth measurement can and cannot tell us—which factors are rightly correlated with economic success, which tell us nothing about significant changes in the economy, and which fall into a conspicuously gray area. Sure to be controversial, *Fully Grown* will reset the terms of economic debate and help us think anew about what a successful economy looks like.

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