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**KEY=CLUSTER - JULIAN KNOX**

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## The Life Cycle of Clusters

### A Policy Perspective

**One-size-fits-all cluster policies have been rightly criticized in the literature. One promising approach is to focus cluster policies on the specific needs of firms depending on the stage of development (emergence, growth, sustainment or decline) their cluster is in. In this highly insightful book, these stage-specific cluster policies are analysed and evaluated. Moreover, several chapters also focus on smart specialization policies to promote regional development by taking into account the emergence and adaptation of clusters and industries.**

## Actioning the Global Goals for Local Impact

### Towards Sustainability Science, Policy, Education and Practice

*Springer Nature* **This book highlights the value of sustainability science in newly emerging and innovative approaches to research, education, capacity building and practice in order to transform rhetoric into impact sustainability. Presenting case studies from various industries, sectors and geographical contexts targeting the seventeen (Sustainable development Goals (SDGs) outlined in the 2030 Agenda, it provides insightful recommendations to create sustainable impact while at the same time achieving the global goals. The book addresses the fundamental question of how sustainability rhetoric can be transformed into impact sustainability research, education and capacity building and as a result, how existing approaches in science, curricula and practice are mitigating the demands emerging from addressing global sustainable development in an impactful and innovative manner. Providing recommendations for impact sustainability in science, curriculum on how to address pressing sustainability issues and contribute toward achieving the SDGs, this book is an essential reference for both academics and professionals.**

## Human Development Report 2015

### Work for Human Development

*United Nations* **This report takes a broad view of the link between work and human development. Work is a critical tool for economic growth and security, poverty reduction and gender equality. It enables full participation in society while affording people a sense of dignity and worth. Humans working together not only increase their material well-being, they also accumulate a wide body of knowledge that serves as the basis for cultures and civilizations. The report finds that work enhances human development when policies are taken to expand productive, remunerative and satisfying work opportunities. Workers' skills and potentials are enhanced, their well-being in terms of rights, safety and benefits are ensured with targeted interventions, and an agenda incorporating decent work, a new Social Contract and a Global Deal is pursued.**

## The Capacity to Innovate

# Cluster Policy and Management in the Biotech Sector

*University of Toronto Press* "In *The Capacity to Innovate*, Sarah Giest provides insight into the collaborative and absorptive capacities needed to provide public support to local innovation through cluster organizations. The book offers a detailed view of the vertical, multi-level, and horizontal dynamics in clusters and cluster policy and addresses how they are managed and supported. Using the biotechnology field as an example, Giest highlights challenges in the collaborative efforts of public bodies, private companies, and research institutes to establish a successful eco-system of innovation in this sector. The book argues that cluster policy in collaboration with cluster organizations should focus on absorptive and collaborative capacity elements missing in the cluster context in order to improve performance. Currently, governments operate at different levels--local to supranational--in order to support clusters, and cluster policies are often pursued in parallel to other programs. As the book shows, this can lead to uncoordinated efforts and ineffective cluster strategies. Relational dynamics are often overlooked when working backwards from performance indicators, since their effects are largely indirect but Giest demonstrates that both the cluster organization and the cluster eco-system play a role. *The Capacity to Innovate* advocates for a coordinated effort by government and cluster organizations to support capacity elements lacking within the specific cluster context."

## Bringing Together Physical and Mental Health

## A New Frontier for Integrated Care

## Global Nutrition Report 2016

## From Promise to Impact: Ending Malnutrition by 2030

*Intl Food Policy Res Inst* Few challenges facing the global community today match the scale of malnutrition, a condition that directly affects 1 in 3 people. Malnutrition manifests itself in many different ways: as poor child growth and development; as individuals who are skin and bone or prone to infection; as those who are carrying too much weight or whose blood contains too much sugar, salt, fat, or cholesterol; or those who are deficient in important vitamins or minerals. Malnutrition and diet are by far the biggest risk factors for the global burden of disease: every country is facing a serious public health challenge from malnutrition. The economic consequences represent losses of 11 percent of gross domestic product (GDP) every year in Africa and Asia, whereas preventing malnutrition delivers \$16 in returns on investment for every \$1 spent. The world's countries have agreed on targets for nutrition, but despite some progress in recent years the world is off track to reach those targets. This third stocktaking of the state of the world's nutrition points to ways to reverse this trend and end all forms of malnutrition by 2030.

## The State of African Cities 2014

## Re-Imagining Sustainable Urban Transitions

*United Nations* The African continent is currently in the midst of simultaneously unfolding and highly significant demographic, economic, technological, environmental, urban and socio-political transitions. Africa's economic performance is promising, with booming cities supporting growing middle classes and creating sizable consumer markets. Despite significant overall growth, the continent continues to suffer under very rapid urban growth accompanied by massive urban poverty and many other social problems. These seem to indicate that the development trajectories followed by African nations since post-independence may not be able to deliver on the aspirations of broad based human development and prosperity for all. This report, therefore, argues for a bold re-imagining of prevailing models in order to steer the ongoing transitions towards greater sustainability based on a thorough review of all available options. That is especially the case since the already daunting urban challenges in Africa are now being exacerbated by the new vulnerabilities and threats associated with climate and environmental change.

## OECD Economic Surveys: Luxembourg 2015

*OECD Publishing* This OECD Economic Survey of Luxembourg examines recent economic developments, policies and prospects. Special chapters cover of the financial sector and diversification of the economy.

## Industrial Development Report 2016

## The Role of Technology and Innovation in Inclusive and

# Sustainable Industrial Development

*United Nations* This report looks at how technology and innovation achieves inclusive and sustainable industrial development (ISID). Its main finding is that ISID is feasible and technology can simultaneously serve all three dimensions of sustainability, including economic, social and environmental. Rapid inclusive and sustainable industrialization can happen more frequently provided that policymakers firmly steer the industrialization process with opportune policies and avoid past mistakes. In some cases, the spread of technology has not materialized in concrete growth opportunities because of the lack of technological capabilities. Innovation needs to be supported by interventions strengthening the process from invention to adoption, as capabilities are developed and high tech manufacturing sectors are created, seeing higher rates of sustainable growth.

## Computing Science, Communication and Security

### First International Conference, COMS2 2020, Gujarat, India, March 26–27, 2020, Revised Selected Papers

*Springer Nature* This book constitutes revised selected papers of the First International Conference on Computing Science, Communication and Security, COMS2 2020, held in March 2020. Due to the COVID-19 pandemic the conference was held virtually. The 26 full papers and 1 short paper were thoroughly reviewed and selected from 79 submissions. Papers are organised according to the topical sections on artificial intelligence and machine learning; network, communication and security; computing science.

## Flood and Coastal Erosion Risk Management

### A Manual for Economic Appraisal

*Routledge* A new 'Multi-Coloured Manual' This book is a successor to and replacement for the highly respected manual and handbook on the benefits of flood and coastal risk management, produced by the Flood Hazard Research Centre at Middlesex University, UK, with support from Defra and the Environment Agency. It builds upon a previous book known as the "multi-coloured manual" (2005), which itself was a synthesis of the blue (1977), red (1987) and yellow manuals (1992). As such it expands and updates this work, to provide a manual of assessment techniques of flood risk management benefits, indirect benefits, and coastal erosion risk management benefits. It has three key aims. First it provides methods and data which can be used for the practical assessment of schemes and policies. Secondly it describes new research to update the data and improve techniques. Thirdly it explains the limitations and complications of Benefit-Cost Analysis, to guide decision-making on investment in river and coastal risk management schemes.

## ECIC2015-7th European Conference on Intellectual Capital

### ECIC 2015

*Academic Conferences and publishing limited* These proceedings represent the work of presenters at the 7th European Conference on Intellectual Capital (ECIC 2015). This year the conference is being hosted by The Technical University of Cartagena, Spain on the 9-10 April 2015. The Conference Co-Chairs are Dr. Eva Martinez Caro, Dr. María Eugenia Sánchez & Dr. David Cegarra Leiva from the Technical University of Cartagena and the Programme Chair is Dr. Juan Gabriel Cegarra Navarro also from the Technical University of Cartagena. The opening keynote address is by Constantin Bratianu, Bucharest University of Economic Studies, Romania on the topic of "A Dynamic Perspective on Intellectual Capital" Dr Scott Erickson from the School of Business, Ithaca College and Dr Helen Rothberg, Marist College, Poughkeepsie, USA will address the topic "Does intellectual capital have a role in making the big strategic decisions? On the second day of the conference Dr José Maria Viedma Marti from the Polytechnic University of Catalonia in Barcelona, Spain will talk about xxxx. The primary aim of this conference is to contribute to the further advancement of intellectual capital theory and practice. The conference provides a platform for presenting findings and ideas for the intellectual capital community and associated fields. The range of people, issues and the mix of approaches followed will ensure an interesting two days. 115 abstracts were received for this conference. After the double blind, peer review process there are 43 academic papers, 13 PhD papers and 2 Masters Research Papers and 1 Work In Progress Paper published in these Conference Proceedings. These papers represent truly global research from some xx different countries, including the Albania, Australia, Austria, Canada, Czech Republic, Espana, Finland, France, Germany, Hungary, Indonesia, Italy, Kazakhstan, Malaysia Netherlands, Nigeria, Pakistan, Portugal, Romania, Russia, Slovakia, Spain Thailand, United Arab Emirates, UK and the USA

## The Fourth Industrial Revolution

*Penguin UK* The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In *The Fourth Industrial Revolution*, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.

## Marketing in Customer Technology Environments

### Prospective Customers and Magical Worlds

*Emerald Group Publishing* With the rise of virtual reality, augmented reality, the internet of things and more, customers are more engaged, more involved, and easier to reach than ever; while being inundated with increasing amounts of marketing material. This straightforward guide takes you through these new technologies and shows how to leverage them to reach new markets.

## Knowledge Economy in the Megalopolis

### Interactions of innovations in transport, information, production and organizations

*Routledge* In recent decades urban regions around the world have engaged in a new process of development based on the creation of new knowledge. Amidst the globalization of economic activities and the arrival of transformative technologies, knowledge has become the key driver of competitiveness and is profoundly reshaping the patterns of economic growth and activity. This book offers a comprehensive new model of the rise of a Knowledge Economy and its evolutionary development in the Megalopolis. These regions are developing new institutions and governance mechanisms to adapt, disseminate, and utilize available knowledge to promote continuing development of their Knowledge Economies. However, such developments are accompanied by increasing inequalities in incomes and in urban services. This book examines the resilience of some urban regions and their recent emergence as vibrant Knowledge Economies. It also reviews the recent renewal and growth in the Megalopolis-- stretching along the Atlantic Seaboard along the metropolitan areas of Boston, New York, Philadelphia, Baltimore and Washington DC. This book will appeal to researchers and professionals interested in urban and regional development, and to business groups interested in economic development.

## Innovation, Alliances, and Networks in High-Tech Environments

*Routledge* Recent years have seen a growth in strategic alliances, mergers and acquisitions and collaborative networks involving knowledge-intensive and hi-tech industries. However, there have been relatively few studies looking at this form of collaboration as a strategy to drive firms' innovative performances. This book specifically focuses on the role of strategic alliances, M&A and innovation networks, providing insights on if and how they contribute to boosting firms' innovation performances. The book has a double purpose. Firstly, it investigates at an industry level the role played by the alliance, M&As and networks in high-tech environments such as biotechnology, pharmaceutical, software and nanotechnology in creating, transforming and reshaping the dynamics inside and between industries. Secondly, it explores the impact at the firm level of factors such as cognitive distance, management capabilities, and relational and social capabilities, on firms' global innovation capacity, measured as innovation quantity, innovation quality and innovation novelty. The book will be of interest to scholars working on the economics of innovation, innovation management studies, strategic management, regional science and evolutionary economics, among other areas.

## Industrial Clusters, Institutions and Poverty in Nigeria

# The Otigba Information and Communications Technology Cluster

*Springer* This book provides a systematic examination of the relationship between industrial clusters and poverty, which is analyzed using a multidimensional framework. It examines the often-neglected concept of social protection as a means of mitigating the risks and vulnerabilities faced by workers and citizens in poor countries. By analyzing the case of the Otigba Information and Communications Technology cluster in Lagos, Nigeria, the author shows under which conditions firms in productive clusters can pass on benefits to workers in ways that improve their living standards in the wider socio-economic and spatial context of the region. The results presented provide substantial evidence of opportunities for economic development, helping planners to explore different avenues for integrating firm-driven social protection into social policy.

## International Business

*John Wiley & Sons* Leveraging their extensive background at multi-national corporations, co-authors Shad Morris and James Oldroyd created an International Business course that is current, concise, and easy to implement. As instructors themselves, the authors focused on engaging pedagogy that prepares students for the global marketplace and created interactive resources to deepen the learning experience. This second edition of International Business includes extensive updates including coverage on important topics like COVID-19, Brexit and the US-China trade war. Additionally, the WileyPLUS course provides just-in-time resources like chapter introductory videos, whiteboard animations, cases/case application problems, adaptive practice, and more to help students apply their learning and think critically.

## Co-Designing Science in Africa

## First Steps in assessing Sustainability Science approach on the Ground

*UNESCO Publishing*

## Banning the Bomb, Smashing the Patriarchy

*Rowman & Littlefield* After decades of campaigning, with the help of activists and diplomats, in 2017 the United Nations in New York signed the Nuclear Weapon Ban Treaty. This book covers the story of their collective activism--a story of courage and hope, as well as lessons learned, that will inform and inspire others working for social justice.

## Delivery and Adoption of Cloud Computing Services in Contemporary Organizations

*IGI Global* The ubiquity of technology has not only brought the need for computer knowledge to every aspect of the modern business world; it has also increased our need to safely store the data we are now creating at a rate never experienced before. *Delivery and Adoption of Cloud Computing Services in Contemporary Organizations* brings together the best practices for storing massive amounts of data. Highlighting ways cloud services can work effectively in production and in real time, this book is an essential reference source for professionals and academics of various disciplines, such as computer science, consulting, information technology, information and communication sciences, healthcare, and finance.

## Youth on the Move

## Views from Below on Ethiopian International Migration

*Oxford University Press* At a time when policies are increasingly against it, international migration has become the subject of great public and academic attention. This book departs from the dominant approach of studying international migration at macro level, and from the perspective of destination countries. The contributors here seek to do more than 'scratch the surface' of the migration process, by foregrounding the voices and views of Ethiopian youth-potential migrants and returnees-and of their sending communities. The volume focuses on the perspective and agency of these young people, both potential migrants and returnees, to better understand migration decision-making, experiences and outcomes. It brings together rarely documented cases of young men and women from several communities across Ethiopia, migrating to the Gulf and South Africa. Explaining the agency of local actors-prospective

migrants, brokers and sending families—*Youth on the Move* illuminates the pervasive, persistent failure of state attempts to regulate migration. Moreover, it examines the financing of migration and the sharing of remittances, within a culturally situated moral economy. While accounts centered on economics and political violence are important, the contributors demonstrate compellingly that these factors alone cannot provide a full understanding of migration's complexity, nor of its social realities.

## PISA for Development Assessment and Analytical Framework Reading, Mathematics and Science

### Reading, Mathematics and Science

*OECD Publishing* "What is important for citizens to know and be able to do?" The OECD Programme for International Student Assessment (PISA) seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills. As more countries join its ranks, PISA ...

## Nature's Wild Ideas

### How the Natural World is Inspiring Scientific Innovation

*Greystone Books Ltd* A lively and endlessly fascinating deep-dive into nature and the many groundbreaking human inventions inspired by the wild. "Fans of Helen Scales won't want to miss this."—Publishers Weekly ★ When astronomers wanted a telescope that could capture X-rays from celestial bodies, they looked to the lobster. When doctors wanted a medication that could stabilize Type II diabetic patients, they found their muse in a lizard. When scientists wanted to drastically reduce emissions in cement manufacturing, they observed how corals construct their skeletons in the sea. This is biomimicry in action: taking inspiration from nature to tackle human challenges. In *Nature's Wild Ideas*, Kristy Hamilton goes behind the scenes of some of our most unexpected innovations. She traverses frozen waterfalls, treks through cloudy forests, discovers nests in the Mojave desert, scours intertidal zones and takes us to the deepest oceans and near volcanoes to introduce us to the animals and plants that have inspired everything from cargo routing systems to non-toxic glues, and the men and women who followed that first spark of "I wonder" all the way to its conclusion, sometimes against all odds. While the joy of scientific discovery is front and center, *Nature's Wild Ideas* is also a love letter to nature—complete with a deep message of conservation: If we are to continue learning from the creatures around us, we must protect their untamed homelands.

## Attachments to War

### Biomedical Logics and Violence in Twenty-First-Century America

*Duke University Press* In *Attachments to War* Jennifer Terry traces how biomedical logics entangle Americans in a perpetual state of war. Focusing on the Afghanistan and Iraq wars between 2002 and 2014, Terry identifies the presence of a biomedicine-war nexus in which new forms of wounding provoke the continual development of complex treatment, rehabilitation, and prosthetic technologies. At the same time, the U.S. military rationalizes violence and military occupation as necessary conditions for advancing medical knowledge and saving lives. Terry examines the treatment of war-generated polytrauma, postinjury bionic prosthetics design, and the development of defenses against infectious pathogens, showing how the interdependence between war and biomedicine is interwoven with neoliberal ideals of freedom, democracy, and prosperity. She also outlines the ways in which military-sponsored biomedicine relies on racialized logics that devalue the lives of Afghan and Iraqi citizens and U.S. veterans of color. Uncovering the mechanisms that attach all Americans to war and highlighting their embeddedness and institutionalization in everyday life via the government, media, biotechnology, finance, and higher education, Terry helps lay the foundation for a more meaningful opposition to war.

## Painting by Numbers

### Data-Driven Histories of Nineteenth-Century Art

*Princeton University Press* "An innovative application of economic methods to the study of art history, demonstrating that new insights can be uncovered by using quantitative and qualitative methods together, which sheds light on longstanding disciplinary inequities"--

# Advances in Comparative Survey Methods Multinational, Multiregional, and Multicultural Contexts (3MC)

*John Wiley & Sons* Covers the latest methodologies and research on international comparative surveys with contributions from noted experts in the field **Advances in Comparative Survey Methodology** examines the most recent advances in methodology and operations as well as the technical developments in international survey research. With contributions from a panel of international experts, the text includes information on the use of Big Data in concert with survey data, collecting biomarkers, the human subject regulatory environment, innovations in data collection methodology and sampling techniques, use of paradata across the survey lifecycle, metadata standards for dissemination, and new analytical techniques. This important resource: Contains contributions from key experts in their respective fields of study from around the globe Highlights innovative approaches in resource poor settings, and innovative approaches to combining survey and other data Includes material that is organized within the total survey error framework Presents extensive and up-to-date references throughout the book Written for students and academic survey researchers and market researchers engaged in comparative projects, this text represents a unique collaboration that features the latest methodologies and research on global comparative surveys.

## Global Reconstructions of Vocational Education and Training

*Routledge* Vocational education and training (VET) can be difficult to define since it is set in a turbulent and volatile environment marked by national and regional specificities. It can be delivered at different levels and by a variety of providers, including community colleges, colleges of further education, polytechnics and universities, as well as, importantly, private providers. This collection reflects the shifting and often messy conceptualisations of VET. On one level VET can be associated with the education and training of craft/skilled workers, or of those who are being prepared for a particular occupational destiny and specific position in the labour market. In this instance, notions of skill, knowledge and dispositions are significant. On another level, it can raise questions over power and class formation, in addition to the way in which these are mediated or intersect with race and gender. Moreover, there are important political questions addressing the significance of VET in furthering social cohesion and economic regeneration in times of austerity when neoliberalism is hegemonic. The chapters in this book are not all of a piece, but each in its turn raises important questions about VET, its relationship to the economy, as well as its global setting. This book was originally published as a special issue of *Globalisation, Societies and Education*.

## Global Innovation Index 2020

### Who Will Finance Innovation?

*WIPO* The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges - including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

## Emerging Methods in Predictive Analytics: Risk Management and Decision-Making

### Risk Management and Decision-Making

*IGI Global* Decision making tools are essential for the successful outcome of any organization. Recent advances in predictive analytics have aided in identifying particular points of leverage where critical decisions can be made. **Emerging Methods in Predictive Analytics: Risk Management and Decision Making** provides an interdisciplinary approach to predictive analytics; bringing together the fields of business, statistics, and information technology for effective decision making. Managers, business professionals, and decision makers in diverse fields will find the applications and cases presented in this text essential in providing new avenues for risk assessment, management, and predicting the future outcomes of their decisions.

# Human Development Report 2015 (Arabic language)

## Work for Human Development

*United Nations* Twenty five years ago the first Human Development Report in 1990 began with a simple notion: that development is about enlarging people's choices—focusing broadly on the richness of human lives rather than narrowly on the richness of economies. This Report starts with a fundamental question—how can work enhance human development? The Report takes a broad view of work, going beyond jobs and taking into account such activities as unpaid care work, voluntary work and creative work—all of which contribute to the richness of human lives. The Report highlights impressive progress on human development over the past quarter century.

## Measuring African Development

### Past and Present

*Routledge* The chief economist for the World Bank's Africa region, Shanta Devarajan, delivered a devastating assessment of the capacity of African states to measure development in his 2013 article "Africa's Statistical Tragedy". Is there a "statistical tragedy" unfolding in Africa now? If so then examining the roots of the problem of provision of statistics in poor economies is certainly of great importance. This book on measuring African development in the past and in the present draws on the historical experience of colonial French West Africa, Ghana, Sudan, Mauritania and Tanzania and the more contemporary experiences of Ethiopia and the Democratic Republic of Congo. The authors each reflect on the changing ways statistics represent African economies and how they are used to govern them. This book as published as a special issue of the Canadian Journal of Development Studies.

## The Dyslexia Debate

*Cambridge University Press* An examination of how we use the term 'dyslexia' and how this may undermine aid for struggling readers.

## Black Swan Start-ups

## Understanding the Rise of Successful Technology

### Business in Unlikely Places

*Springer* This book explores startups that have thrived against the odds in places where startup success was deemed to be unlikely. Discussing a number of technology startups from around the world that have succeeded without state backing nor local venture and seed capital, Black Swan Start Ups provides unique insights into unsung models of success beyond the two dominant narratives of Asia's 'Tiger Economies' and America's Silicon Valley miracle. The author describes these stories of success as 'black swan events' and ascribes their achievements to the ability of entrepreneurs to leverage the 'place surplus' of their locations, while building connections to support networks outside their immediate geographies. Including case studies such as Skype in Estonia, SoundCloud in Germany and Bayt.Com in Dubai, this insightful book gives a holistic and wide-ranging view of how technology startups have, and can, succeed in less likely places.

## Capturing Change in Science, Technology, and Innovation

## Improving Indicators to Inform Policy

*National Academies Press* Since the 1950s, under congressional mandate, the U.S. National Science Foundation (NSF) - through its National Center for Science and Engineering Statistics (NCSES) and predecessor agencies - has produced regularly updated measures of research and development expenditures, employment and training in science and engineering, and other indicators of the state of U.S. science and technology. A more recent focus has been on measuring innovation in the corporate sector. NCSES collects its own data on science, technology, and innovation (STI) activities and also incorporates data from other agencies to produce indicators that are used for monitoring purposes - including comparisons among sectors, regions, and with other countries - and for identifying trends that may require policy attention and generate research needs. NCSES also provides extensive tabulations and microdata files for in-depth analysis. Capturing Change in Science, Technology, and Innovation assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators of STI activities that would enable NCSES to

respond to changing policy concerns. This report also identifies and assesses both existing and potential data resources and tools that NCSES could exploit to further develop its indicators program. Finally, the report considers strategic pathways for NCSES to move forward with an improved STI indicators program. The recommendations offered in *Capturing Change in Science, Technology, and Innovation* are intended to serve as the basis for a strategic program of work that will enhance NCSES's ability to produce indicators that capture change in science, technology, and innovation to inform policy and optimally meet the needs of its user community.

## Science, the State and the City

### Britain's Struggle to Succeed in Biotechnology

*Oxford University Press* The book examines the evolution of one of the most important technologies that has emerged in the last fifty years: biotechnology - the use of living organisms, or parts thereof to create useful products and services. The most important application of biotechnology has been in medicine, in the development of new drugs. The central purpose of the book is to explain how firms based in the US took the lead in commercialising the technology, and why it has been so difficult for firms in other countries to match what the leading American companies have achieved. The book looks at the institutions and policies which have underpinned US success in biotechnology. This is the US innovation "ecosystem," and it is made up of several interlocking elements which constitute a powerful competitive advantage for US biotechnology firms. These include, a higher education system which has close links with industry, massive support from the Federal government for biomedical research, and a financial system which is well equipped to support young entrepreneurial firms in a science-based industry. In the light of US experience the book examines in detail the performance of UK biotechnology firms over the past forty years, starting with the creation of the UK's first dedicated biotech firm, Celltech, in 1980. The book shows how the UK made a promising start in the 1980s and 1990s but failed to build on it. Several leading firms failed, and after an initial burst of enthusiasm investors lost confidence in the British biotech sector. It is only the last few years that the sector has staged a revival, attracting fresh investment from the US as well from the UK. The story told in this book, based on extensive interviews with industry participants, investors, and policy makers in the UK, Continental Europe, and the US, sheds new light on one of the central issues facing governments in the advanced industrial countries - how to create and sustain new science-based industries.

## Humanizing the Laws of War

*Cambridge University Press* Over the past 150 years, the International Committee of the Red Cross (ICRC) has been one of the main drivers of progressive development in international humanitarian law, whilst assuming various roles in the humanization of the laws of war. With select contributions from international experts, this book critically assesses the ICRC's unique influence in international norm creation. It provides a detailed analysis of the workings of the International Red Cross, Red Crescent Movement and ICRC by addressing the milestone achievements as well as the failures, shortcomings and controversies over time. Crucially, the contributions highlight the lessons to be learnt for future challenges in the development of international humanitarian law. This book will be of particular interest to scholars and students of international law, but also to practitioners working in the field of international humanitarian law at both governmental and non-governmental organizations.

## Addressing Adversity

### Prioritising adversity and trauma-informed care for children and young people in England.

*YoungMinds / Health Education England / Human-Experience* / An edited collection of papers published by YoungMinds and funded by Health Education England. With 1 in 3 adult mental health conditions related directly to adverse childhood experiences, it is vital that we understand the impact that adversity and trauma can have on the mental health and wellbeing of young people, and how we can strengthen resilience and support recovery. Addressing Adversity presents evidence, insight, direction and case studies for commissioners, providers and practitioners in order to stimulate further growth in adversity and trauma-informed care, and spark innovation and good practice across England. Section 1: Understanding adversity, trauma and resilience includes evidence and analysis of the impact that adverse childhood experiences and trauma have on children and young people's mental health and wider outcomes across the lifecourse. Section 2: Addressing childhood adversity and trauma includes insights from the NHS in England, organisations and clinicians working with children and young people who have experienced forms of adversity and trauma. Section 3: Emerging good practice includes insight, case studies and working examples of adversity and trauma-informed service models being developed across England. The collection ends with an agenda for change, calling on all Directors of Public Health, commissioners and providers to make adversity and trauma-informed care a priority in their locality.

# Handbook of Emerging Economies

*Routledge* A major new volume in the Routledge International Handbooks series analysing emerging and newly emerged economies, including the BRICS countries (Brazil, Russia, India, China and South Africa) and other likely (Turkey, Indonesia, Mexico, and South Korea) as well as possible (Vietnam, The Philippines, Nigeria, Pakistan, Egypt, Colombia and Argentina) candidates for emerging economy status. Chapters on theories surrounding emerging markets (including the Beijing/Washington Consensus debate) offer an overview of current issues in development economics, in addition to providing an integrated framework for the country case studies. Written by experts, this handbook will be invaluable to academics and students of economics and emerging economies, as well as to business people and researchers seeking information on economic development and the accelerating pace of globalization.

## Responsive Landscapes

# Strategies for Responsive Technologies in Landscape Architecture

*Routledge* The sensing, processing, and visualizing that are currently in development within the environment boldly change the ways design and maintenance of landscapes are perceived and conceptualised. This is the first book to rationalize interactive architecture and responsive technologies through the lens of contemporary landscape architectural theory. Responsive Landscapes frames a comprehensive view of design projects using responsive technologies and their relationship to landscape and environmental space. Divided into six insightful sections, the book frames the projects through the terms; elucidate, compress, displace, connect, ambient, and modify to present and construct a pragmatic framework in which to approach the integration of responsive technologies into landscape architecture. Complete with international case studies, the book explores the various approaches taken to utilise responsive technologies in current professional practice. This will serve as a reference for professionals, and academics looking to push the boundaries of landscape projects and seek inspiration for their design proposals.