

Americas Most Sustainable Cities And Regions Surviving The 21st Century Megatrends

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The Ocean and Cryosphere in a Changing Climate Intergovernmental Panel on Climate Change (IPCC) 2022-04-30 The Intergovernmental Panel on Climate Change (IPCC) is the leading international body for assessing the science related to climate change. It provides policymakers with regular assessments of the scientific basis of human-induced climate change, its impacts and future risks, and options for adaptation and mitigation. This IPCC Special Report on the Ocean and Cryosphere in a Changing Climate is the most comprehensive and up-to-date assessment of the observed and projected changes to the ocean and cryosphere and their associated impacts and risks, with a focus on resilience, risk management response options, and adaptation measures, considering both their potential and limitations. It brings together knowledge on physical and biogeochemical changes, the interplay with ecosystem changes, and the implications for human communities. It serves policymakers, decision makers, stakeholders, and all interested parties with unbiased, up-to-date, policy-relevant information. This title is also available as Open Access on Cambridge Core.

Introduction to Energy and Climate Julie

Kerr 2017-08-09 The purpose of this textbook is to provide a well-rounded working knowledge of both climate change and environmental sustainability for a wide range of students.

Students will learn core concepts and methods to analyze energy and environmental impacts; will understand what is changing the earth's climate, and what that means for life on earth now and in the future. They will also have a firm understanding of what energy is and how it can be used. This text intends to develop working knowledge of these topics, with both technical and social implications. Students will find in one volume the integration and careful treatment of climate, energy, and sustainability.

Case Studies in Suburban Sustainability Sandra J. Garren 2020-10-06 Choice Outstanding Academic Title The first volume to focus on suburbs and sustainability in the United States, this collection approaches the topic through regionally diverse case studies. Departing from the more widely examined issue of urban sustainability, contributors argue that the suburbs present a unique and important challenge given their greater land mass, lower population density, lower tax rates, and more limited government services. The studies featured in this volume analyze the impact of planning, social and economic concerns,

environmental factors such as air pollution and climate change, and water management on suburban communities. Areas of focus include suburbs of New York City, Seattle, Pittsburgh, Los Angeles, Phoenix, New Orleans, and Tampa. In these examples, contributors show that activism and leadership are currently advancing a strong sustainability agenda in regions many would have believed unlikely. Through these case studies, this volume demonstrates that the suburbs are a crucial nexus for sustainability in the United States. Because suburbs have been overlooked in most green initiatives, and because they play such a vital role in the future of American housing and development, these essays call for more research and continued creative innovation in these areas. Contributors: Troy D. Abel | Simon A. Andrew | Viney P. Aneja | Miles Ballogg | William H. Battye | Casey D. Bray | Vaswati Chatterjee | Stacy Clauson | Craig E. Colten | Sarah Combs | Yonn Dierwechter | Richard C. Feiock | Michael H. Finewood | Melissa M. Grigione | John Harner | Mathew K. Huxel | Mike Johnson | Gabrielle R. Lehigh | Elizabeth Mattiuzzi | Sean McGreevey | Susan M. Opp | Michaela C. Peterson | Benjamin L. Ruddell | Richard R. Rushforth | Debra Salazar | Ronald Sarno | Mallory Thomas | Carolina A. Urrea | Pornpan Uttamang | E. Christian Wells

Global Trends 2025: A Transformed World
Office of the Director of National Intelligence (U.S.) 2013-08-15 "Global Trends 2025: A Transformed World" is the fourth unclassified report prepared by the National Intelligence Council (NIC) in recent years that takes a long-term view of the future. It offers a fresh look at how key global trends might develop over the next 15 years to influence world events. Our report is not meant to be an exercise in prediction or crystal ball-gazing. Mindful that there are many possible "futures," we offer a range of possibilities and potential discontinuities, as a way of opening our minds to developments we might otherwise miss. (From the NIC website)

Ethical Cities Brendan F.D. Barrett 2020-12-06 Combining elements of sustainable and resilient cities agendas, together with those from social justice studies, and incorporating concerns about good governance, transparency and accountability, the book presents a coherent

conceptual framework for the ethical city, in which to embed existing and new activities within cities so as to guide local action. The authors' observations are derived from city-specific surveys and urban case studies. These reveal how progressive cities are promoting a diverse range of ethically informed approaches to urbanism, such as community wealth building, basic income initiatives, participatory budgeting and citizen assemblies. The text argues that the ethical city is a logical next step for critical urbanism in the era of late capitalism, characterised by divisive politics, burgeoning inequality, widespread technology-induced disruptions to every aspect of modern life and existential threats posed by climate change, sustainability imperatives and pandemics. Engaging with their communities in meaningful ways and promoting positive transformative change, ethical cities are well placed to deliver liveable and sustainable places for all, rather than only for wealthy elites. Likewise, the aftermath of shocks such as the 2008 Global Financial Crisis and the Covid-19 pandemic reveals that cities that are not purposeful in addressing inequalities, social problems, unsustainability and corruption face deepening difficulties. Readers from across physical and social sciences, humanities and arts, as well as across policy, business and civil society, will find that the application of ethical principles is key to the pursuit of socially inclusive urban futures and the potential for cities and their communities to emerge from or, at least, ameliorate a diverse range of local, national and global challenges.

Social-Ecological-Technological Effects of Hurricane María on Puerto Rico Ariel E. Lugo 2018-12-06 This book deals with the immediate effects of, and response to, Hurricane María on the social, ecological, and technological systems (SETS) of Puerto Rico. The SETS approach to analyzing hurricane effects places into historical context the role of social and technological factors, and compares social and ecological resilience on the same temporal scales. Written from the perspective of a Puerto Rican scientist who experienced Maria's wrath first-hand, the book uses extensive empirical knowledge of the ecological effects of hurricanes on Caribbean forests and combines that knowledge with a

detailed analysis of the effects of Hurricane María on the social and technological fabric of Puerto Rico. The comparison suggests that the effects of extreme events are dictated not only by the strength of the physical event, but also by the conditions of affected SETS at the time when the event exerts influence over them. Moreover, SETS have historical legacies that influence how resilient they can be when affected by an extreme event. Therefore, preparation and response to extreme events require an integrated social, ecological, and technological effort, known as the SETS response. The SETS response requires an understanding of the energetics of extreme events and their effects on the economy, which in turn determines social and technological resilience. Hurricane María demonstrated that the social and technological systems of Puerto Rico were not adapted to dealing with extreme events, in contrast with the ecological systems, which were. Hurricane María's effect on Puerto Rico can be used as an example from which valuable lessons emerge for making SETS more adaptable and resilient to extreme events.

Urban Crisis M. Nadarajah 2007

Unprecedented urban growth makes sustainability in cities a crucial issue for policy makers, scholars and business leaders. This emerging urban crisis challenges environment-based and economic-based approaches to sustainability, and highlights the complex and critical role that culture plays in ensuring that cities are viable for future generations. This publication assesses the use of cultural indicators as a tool for policymakers, drawing on case studies of Patan (Nepal), Penang (Malaysia), Cheongju (South Korea), and Kanazawa (Japan), and offers fresh insights into the role of culture in fostering community development, environmental awareness and balanced economic growth.

Latin American Economic Outlook 2021 Working Together for a Better Recovery

OECD 2021-12-02 The Latin American Economic Outlook 2021: Working Together for a Better Recovery aims to analyse and provide policy recommendations for a strong, inclusive and environmentally sustainable recovery in the region. The report explores policy actions to improve social protection mechanisms and

increase social inclusion, foster regional integration and strengthen industrial strategies, and rethink the social contract to restore trust and empower citizens at all stages of the policy-making process.

Urban Dependency Gregory M. Fulkerson 2020-11-15 Urban Dependency investigates the risks of urban populations that cannot survive without the massive consumption of basic rural products like food, textiles, fossil fuels, and other energy-rich goods that are harvested by a shrinking rural base. Thomas and Fulkerson argue that though essential, rural workers and communities are poorly compensated for their labor that is both dangerous and highly exploitative. While the rural population is already shrinking, the authors predict that harsh political-economic conditions will only fuel further rural-urban migration, worsening the problem of urban dependency. The authors apply their theory of the energy economy to explore a balance between the supply and demand of energy resources that promotes rural justice.

Our Common Agenda - Report of the Secretary-General United Nations 2021-09-10 On the seventy-fifth anniversary of the United Nations, the world has faced its biggest shared test since the Second World War in the coronavirus disease (COVID-19) pandemic. Yet while our welfare, and indeed the permanence of human life, depend on us working together, international cooperation has never been harder to achieve. This report answers a call from UN Member States to provide recommendations to advance our common agenda and to respond to current and future challenges. Its proposals are grounded in a renewal of the social contract, adapted to the challenges of this century, taking into account younger and future generations, complemented by a new global deal to better protect the global commons and deliver global public goods. Through a deepening of solidarity—at the national level, between generations, and in the multilateral system—Our Common Agenda provides a path forward to a greener, safer and better future.

Jewish Megatrends Sid Schwarz 2013 A collection of essays detailing the challenges the American Jewish community faces as it tries to adapt to a new social landscape and a new

generation.

New Realities in Foreign Affairs Volker Stanzel
2019-07-08 Moderne Diplomatie wirkt heute in viele Bereiche des modernen Lebens hinein. Sie ist zugleich selbst neuen Einflüssen ausgesetzt. Faktoren, die unsere Gesellschaften verändern, verändern auch unser Regierungshandeln, auch in der Außenpolitik, seien es Digitalisierung, emotionalisierte Sensibilitäten unserer Öffentlichkeiten oder nicht-staatliche internationale Akteure. Derartige Entwicklungen müssen von der Diplomatie aufgenommen werden, damit sie weiter als Instrument einer Regierung funktionieren kann. Regierungen sollten Wege finden, zwischen den neuen Bedürfnissen der Gesellschaft und den Notwendigkeiten legitimen Regierungshandelns zu vermitteln. Das Ziel sollte sein, als souveräner Staat handeln zu können und zugleich das Potential der tiefgreifenden gesellschaftlichen Veränderungen zu nutzen. Mit Beiträgen von Volker Stanzel, Sascha Lohmann, Andrew Cooper, Christer Jönsson, Corneliu Bjola, Emillie V. de Keulenaar, Jan Melissen, Karsten D. Voigt, Kim B. Olsen, Hanns W. Maull und R. S. Zaharna

Coasts and Estuaries Eric Wolanski
2019-01-24 Coasts and Estuaries: The Future provides valuable information on how we can protect and maintain natural ecological structures while also allowing estuaries to deliver services that produce societal goods and benefits. These issues are addressed through chapters detailing case studies from estuaries and coastal waters worldwide, presenting a full range of natural variability and human pressures. Following this, a series of chapters written by scientific leaders worldwide synthesizes the problems and offers solutions for specific issues graded within the framework of the socio-economic-environmental mosaic. These include fisheries, climate change, coastal megacities, evolving human-nature interactions, remediation measures, and integrated coastal management. The problems faced by half of the world living near coasts are truly a worldwide challenge as well as an opportunity for scientists to study commonalities and differences and provide solutions. This book is centered around the proposed DAPSI(W)R(M) framework, where drivers of basic human needs requires activities

that each produce pressures. The pressures are mechanisms of state change on the natural system and Impacts on societal welfare (including well-being). These problems then require responses, which are the solutions relating to governance, socio-economic and cultural measures (Scharin et al 2016). Covers estuaries and coastal seas worldwide, integrating their commonality, differences and solutions for sustainability Includes global case studies from leading worldwide contributors, with accompanying boxes highlighting a synopsis about a particular estuary and coastal sea, making all information easy to find Presents full color images to aid the reader in a better understanding of details of each case study Provides a multi-disciplinary approach, linking biology, physics, climate and social sciences

The Clean Energy Transition Daniel J. Fiorino
2022-09-12 Is the goal of a transition to clean energy at all realistic? If so, how could it be accomplished? Climate change poses a formidable challenge for twenty-first-century governments. Unless they can move to a clean energy system built on efficiency, renewables, electrification, and possibly complementary technologies like nuclear energy and carbon capture and storage, it will be all but impossible to avoid the worst impacts of climate change. In this book, Daniel Fiorino provides a comprehensive introduction to the politics and policies of a clean energy transition and how it may unfold nationally and globally. Across its nine chapters, he explores the current energy landscape and the different pathways and pitfalls on the road to decarbonization. All scenarios for decarbonizing, he argues, rely on aggressive efficiency, the rapid scale-up of renewables, and the electrification of most of what is left. Yet this transition has to be accelerated and done effectively. There is little time left for second chances if we are to decarbonize later this century. The Clean Energy Transition will be an indispensable resource for students of energy politics, environmental studies, and public policy, as well as anyone interested in the energy issues of the day.

World Urbanization Prospects United Nations Publications 2019-10-18 The report presents findings from the 2018 revision of World Urbanization Prospects, which contains the

latest estimates of the urban and rural populations or areas from 1950 to 2018 and projections to 2050, as well as estimates of population size from 1950 to 2018 and projections to 2030 for all urban agglomerations with 300,000 inhabitants or more in 2018. The world urban population is at an all-time high, and the share of urban dwellers, is projected to represent two thirds of the global population in 2050. Continued urbanization will bring new opportunities and challenges for sustainable development.

America's Most Sustainable Cities and Regions

John W. Day 2016-01-23 This book takes you on a unique journey through American history, taking time to consider the forces that shaped the development of various cities and regions, and arrives at an unexpected conclusion regarding sustainability. From the American Dream to globalization to the digital and information revolutions, we assume that humans have taken control of our collective destinies in spite of potholes in the road such as the Great Recession of 2007-2009. However, these attitudes were formed during a unique 100-year period of human history in which a large but finite supply of fossil fuels was tapped to feed our economic and innovation engine. Today, at the peak of the Oil Age, the horizon looks different. Cities such as Los Angeles, Phoenix and Las Vegas are situated where water and other vital ecological services are scarce, and the enormous flows of resources and energy that were needed to create the megalopolises of the 20th century will prove unsustainable. Climate change is a reality, and regional impacts will become increasingly severe. Economies such as Las Vegas, which are dependent on discretionary income and buffeted by climate change, are already suffering the fate of the proverbial canary in the coal mine. Finite resources will mean profound changes for society in general and the energy-intensive lifestyles of the US and Canada in particular. But not all regions are equally vulnerable to these 21st-century megatrends. Are you ready to look beyond "America's Most Livable Cities" to the critical factors that will determine the sustainability of your municipality and region? Find out where your city or region ranks according to the forces that will impact our lives

in the next years and decades. Find out how:

- resource availability and ecological services shaped the modern landscape
- emerging megatrends will make cities and regions more or less livable in the new century
- your city or region ranks on a "sustainability" map of the United States
- urban metabolism puts large cities at particular risk
- sustainability factors will favor economic solutions at a local, rather than global, level
- these principles apply to industrial economies and countries globally.

This book should be cited as follows: J. Day, C. Hall, E. Roy, M. Moersbaecher, C. D'Elia, D. Pimentel, and A. Yanez. 2016. *America's most sustainable cities and regions: Surviving the 21st century megatrends*. Springer, New York. 348 p.

Transforming the Future (Open Access) Riel Miller 2018-04-27 People are using the future to search for better ways to achieve sustainability, inclusiveness, prosperity, well-being and peace. In addition, the way the future is understood and used is changing in almost all domains, from social science to daily life. This book presents the results of significant research undertaken by UNESCO with a number of partners to detect and define the theory and practice of anticipation around the world today. It uses the concept of 'Futures Literacy' as a tool to define the understanding of anticipatory systems and processes - also known as the Discipline of Anticipation. This innovative title explores:

- new topics such as Futures Literacy and the Discipline of Anticipation;
- the evidence collected from over 30 Futures Literacy Laboratories and presented in 14 full case studies;
- the need and opportunity for significant innovation in human decision-making systems.

This book will be of great interest to scholars, researchers, policy-makers and students, as well as activists working on sustainability issues and innovation, future studies and anticipation studies. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9781351047999>, has been made available under a Attribution-NonCommercial-NoDerivs 3.0 IGO (CC-BY-NC-ND 3.0 IGO) license.

Global Trends 2030 National Intelligence Council (U.S.) 2012 This report is intended to stimulate thinking about the rapid and vast geopolitical changes characterizing the world

today and possible global trajectories over the next 15 years. As with the NIC's previous Global Trends reports, we do not seek to predict the future, which would be an impossible feat, but instead provide a framework for thinking about possible futures and their implications. In-depth research, detailed modeling and a variety of analytical tools drawn from public, private and academic sources were employed in the production of Global Trends 2030. NIC leadership engaged with experts in nearly 20 countries, from think tanks, banks, government offices and business groups, to solicit reviews of the report.

Global Megatrends Stefan Hajkovicz 2015-05 A scarcity of natural resources. The challenge to protect biodiversity and the global climate. Rapid economic growth and urbanisation in Asia and the developing world. Changing demographics and an ageing population. The impact of new digital technologies. Consumer expectations for services, experiences and social interaction. An imperative to innovate. Megatrends are gradual yet powerful trajectories of change that have the potential to throw companies, individuals and societies into freefall. In *Global Megatrends* author Stefan Hajkovicz identifies these seven patterns of global change and tells a story about how the world will change over the next 20 years. The book captures the thinking of many dedicated scientists and researchers who have devoted their careers to exploring and understanding change. The change heralded by megatrends lies beyond our direct control but not beyond our influence. By getting a picture of how the world is changing and what these megatrends are, we can alter our destiny.

Promessas Não Cumpridas Inter-American Dialogue (Organization) 2019 The volume takes a broad view of recent social, political, and economic developments in Latin America. It contains six essays, focused on salient and cross-cutting themes, that try to construct a thread or narrative about the highly diverse region, highlighting its main idiosyncrasies and analyzing where it might be headed in coming years. While the essays recognize considerable advances, they also point out setbacks and missed opportunities that have stood in the way of sustained progress. Strengthening state

capacity emerges as a significant challenge. *The Well-Tempered City* Jonathan F. P. Rose 2016-09-13 2017 PROSE Award Winner: Outstanding Scholarly Work by a Trade Publisher In the vein of Jane Jacobs's *The Death and Life of Great American Cities* and Edward Glaeser's *Triumph of the City*, Jonathan F. P. Rose—a visionary in urban development and renewal—champions the role of cities in addressing the environmental, economic, and social challenges of the twenty-first century. Cities are birthplaces of civilization; centers of culture, trade, and progress; cauldrons of opportunity—and the home of eighty percent of the world's population by 2050. As the 21st century progresses, metropolitan areas will bear the brunt of global megatrends such as climate change, natural resource depletion, population growth, income inequality, mass migrations, education and health disparities, among many others. In *The Well-Tempered City*, Jonathan F. P. Rose—the man who “repairs the fabric of cities”—distills a lifetime of interdisciplinary research and firsthand experience into a five-pronged model for how to design and reshape our cities with the goal of equalizing their landscape of opportunity. Drawing from the musical concept of “temperament” as a way to achieve harmony, Rose argues that well-tempered cities can be infused with systems that bend the arc of their development toward equality, resilience, adaptability, well-being, and the ever-unfolding harmony between civilization and nature. These goals may never be fully achieved, but our cities will be richer and happier if we aspire to them, and if we infuse our every plan and constructive step with this intention. A celebration of the city and an impassioned argument for its role in addressing the important issues in these volatile times, *The Well-Tempered City* is a reasoned, hopeful blueprint for a thriving metropolis—and the future.

Global Trends 2030 National Intelligence Council 2018-02-07 This important report, *Global Trends 2030-Alternative Worlds*, released in 2012 by the U.S. National Intelligence Council, describes megatrends and potential game changers for the next decades. Among the megatrends, it analyzes: - increased individual empowerment - the diffusion of power among

states and the ascent of a networked multi-polar world - a world's population growing to 8.3 billion people, of which sixty percent will live in urbanized areas, and surging cross-border migration - expanding demand for food, water, and energy It furthermore describes potential game changers, including: - a global economy that could thrive or collapse - increased global insecurity due to regional instability in the Middle East and South Asia - new technologies that could solve the problems caused by the megatrends - the possibility, but by no means the certainty, that the U.S. with new partners will reinvent the international system Students of trends, forward-looking entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades will find this essential reading.

Energy Return on Investment Charles A.S. Hall 2016-11-29 This authoritative but highly accessible book presents the reader with a powerful framework for understanding the critical role of the energy return on investment (EROI) in the survival and well-being of individuals, ecosystems, businesses, economies and nations. Growth and development are fundamental and ubiquitous processes at all scales, from individuals to food crops to national economies. While we are all familiar with the concepts of economic growth and living standards as measured by gross domestic product (GDP), we often take for granted the energy use that underpins GDP and our expectations for year-on-year growth. In this book, you will learn how these measures of "progress" are completely dependent on the balance that can be achieved between energy costs (inputs) and gains. Nothing is made or moved without an energy surplus, and it is the EROI of available energy sources more than any other single factor that determines the shape of civilization. Nearly all politics and economics assume that policy and market forces are the levers upon which future outcomes will hinge. However, this book presents many examples of historical and current events that can be explained much more clearly from an energetic perspective. In addition, a future scenario is developed that gives a central place to EROI in assessing the potential of governmental and private initiatives to substitute so-called

renewable energy sources for diminishing stocks of fossil fuels. When cheap fossil fuels are no longer available in the abundance needed to mask economic problems and power business as usual, it will be EROI more than the plethora of "green" technologies that creates the boundary conditions for a sustainable future.

The Future Is Rural Jason Bradford 2019-02-19 The Future is Rural challenges the conventional wisdom about the future of food in our modern, globalized world. It is a much-needed reality check that explains why certain trends we take for granted-like the decline of rural areas and the dependence of farming and the food system on fossil fuels-are historical anomalies that will reverse over the coming decades. Renewable sources of energy must replace fossil fuels, but they will not power economies at the same scale as today. Priorities will profoundly shift, and food will become a central concern. Lessons learned from resilience science and alternatives to industrial agriculture provide a foundation for people to transition to more rural and locally focused lives. Jason Bradford, a biologist and farmer, offers a deeply researched report on the future of food that reveals key blind spots in conventional wisdom on energy, technology, and demographics. The Future Is Rural presents Bradford's analysis from his career in ecology and agriculture, as well as a synthesis of the historical and scientific underpinnings of the astonishing changes that will transform the food system and society as a whole.

Global Trends 2040 National Intelligence Council 2021-03 "The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." - Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. -

Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.

Climate Change and the Future of Seattle

Yonn Dierwechter 2021-03-25 Seattle is one of the most politically progressive and economically dynamic cities in the contemporary United States. This book explores Seattle's current climate policy agenda and future climate challenges within the context of its historical, bio-regional, and metropolitan settings. While practitioners and academics have lauded Seattle's urban sustainability and climate action efforts for many years, the analysis here focuses especially on mounting political concerns with social equity, income polarization, and racial justice in a "high-tech" city-region already experiencing the deleterious effects of global climate change. Drawing on a framework first suggested by the Urban Climate Change Research Network, the discussion considers major research themes like mitigation and adaptation policies; Seattle's regional, national and international participation in climate action networks; disaster risk reduction and risk assessment; and the impacts of climate change and climate policy formation on the city's most disadvantaged populations. *Climate Change and the Future of Seattle* will, therefore, be of wider interest to scholars and students at all levels in urban planning, human geography, political science, urban studies, public administration, and sustainability studies.

Bright Green Lies Derrick Jensen 2021-03-16 "This disturbing but very important book makes clear we must dig deeper than the normal solutions we are offered."—Yvon Chouinard, founder of Patagonia Works "Bright Green Lies exposes the hypocrisy and bankruptcy of leading environmental groups and their most prominent cheerleaders. The best-known environmentalists are not in the business of speaking truth, or even holding up rational solutions to blunt the

impending ecocide, but instead indulge in a mendacious and self-serving delusion that provides comfort at the expense of reality. They fail to state the obvious: We cannot continue to wallow in hedonistic consumption and industrial expansion and survive as a species. The environmental debate, Derrick Jensen and his coauthors argue, has been distorted by hubris and the childish desire by those in industrialized nations to sustain the unsustainable. All debates about environmental policy need to begin with honoring and protecting, not the desires of the human species, but with the sanctity of the Earth itself. We refuse to ask the right questions because these questions expose a stark truth—we cannot continue to live as we are living. To do so is suicidal folly. 'Tell me how you seek, and I will tell you what you are seeking,' the German philosopher Ludwig Wittgenstein said. This is the power of *Bright Green Lies*: It asks the questions most refuse to ask, and in that questioning, that seeking, uncovers profound truths we ignore at our peril."—Chris Hedges, Pulitzer Prize-winning journalist and author of *America: The Farewell Tour* *Pathways to Urban Sustainability* National Academies of Sciences, Engineering, and Medicine 2016-10-11 Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this study examines specific examples that cut across geographies and scales and that feature a range of urban

sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga, TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors.

Education for Sustainable Development

Goals Rieckmann, Marco 2017-03-20

Sustainability in a Digital World Thomas

Osburg 2017-05-17 This book offers a comprehensive introduction to the different emerging concepts in the innovative area of sustainability and digital technology. More than 20 leading thinkers from the fields of digitalization, strategic management, sustainability and organizational development share clearly structured insights on the latest developments, advances and remaining challenges concerning the role of sustainability in an increasingly digital world. The authors not only introduce a profound and unique analysis on the state-of-the art of sustainability and digital transformation, but also provide business leaders with practical advice on how to apply the latest management thinking to their daily business decisions. Further, a number of significant case studies exemplify the issues discussed and serve as valuable blueprints for decision makers.

Pathways to Urban Sustainability National Academies of Sciences, Engineering, and Medicine 2016-11-11 Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth

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World Social Report 2020 Department of Economic and Social Affairs 2020-02-14 This report examines the links between inequality and other major global trends (or megatrends), with a focus on technological change, climate change, urbanization and international migration. The analysis pays particular attention to poverty and labour market trends, as they mediate the distributional impacts of the major trends selected. It also provides policy recommendations to manage these megatrends in an equitable manner and considers the policy implications, so as to reduce inequalities and support their implementation.

The Fourth Industrial Revolution Klaus Schwab 2017-01-03 World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial

intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

The Post-Pandemic World John Erik Meyer 2022-03-15 The Covid-19 pandemic is a repeating biophysical shock yet one for which our current socio-economic structure was not prepared. Climate change, scarcity, depletion of natural resources, and the inevitable transition to renewable energy are one time events. Taken together, they present an existential threat to human society. This book is a guide to navigating these megatrends, which confront us now but whose consequences will unfold over decades. By presenting clear options on the path to a renewable energy future, this book gives readers a broad perspective as well as detailed, well-illustrated examples to weigh in making decisions which will secure stability and prosperity for their families, their communities and their nations.

Emerging Risks in the 21st Century An Agenda for Action OECD 2003-04-24 This book explores the implications of newly developing risks such as hugely damaging hurricanes, new diseases, terrorist attacks, and disruptions to critical

infrastructures.

Gloom to Boom Andrea Bonime-Blanc 2019-10-16 Leaders – whether in business, government or the nonprofit sector – take risks but often without fully understanding risk at a strategic level. Expanding upon the well-known "ESG" risks, this book explains the key nonfinancial (environmental, social, governance and technological or ESGT) risks. For many leaders (including board members), taking risk without knowledge or preparation can lead to organizational crisis, scandal and value destruction. For those who are prepared, resilience follows and so does the ability to transform ESGT risk into opportunity and value for stakeholders. In this book, global governance, risk, ethics and cyber strategist, author and board member, Andrea Bonime-Blanc, shows practitioners at all levels how to effectively identify and manage their top ESGT risks to avoid crises and transform risk into sustainable long-term resilience and value. *Gloom to Boom* is a book for everyone – from the highest levels of leadership in an organization (the board, CEO and C-suite), to other senior leaders (the chief risk officer, CFO, general counsel, head of CSR and sustainability, CISO, CHRO), and midlevel leaders, students and folks simply interested in current affairs and the role and impact of strategic risk and opportunity on their lives.

Terra Incognita Ian Goldin 2020-08-27 'Amazing. It would be my desert island choice' Martin Rees 'Fascinating, beautiful, alarming and revelatory use of mapping and infographics' Stephen Fry on EarthTime maps 'An indispensable read' Arianna Huffington From the global impact of the Coronavirus to exploring the vast spread of the Australian bushfires, join authors Ian Goldin and Robert Muggah as they trace the ways in which our world has changed and the ways in which it will continue to change over the next hundred years. Map-making is an ancient impulse. From the moment homo sapiens learnt to communicate we have used them to make sense of our surroundings. But as Albert Einstein once said, 'you can't use old maps to explore a new world.' And now, when the world is changing faster than ever before, our old maps are no longer fit for purpose. Welcome to Terra Incognita. Based on decades

of research, and combining mesmerising, state-of-the-art satellite maps with enlightening and passionately argued analysis, Ian and Robert chart humanity's impact on the planet, and the ways in which we can make a real impact to save it, and to thrive as a species. Learn about: fires in the arctic; the impact of sea level rise on cities around the world; the truth about immigration - and why fears in the West are a myth; the counter-intuitive future of population rise; the miracles of health and education that are waiting around the corner, and the reality about inequality, and how we end it. The book traces the paths of peoples, cities, wars, climates and technologies, all on a global scale. Full of facts that will confound you, inform you, and ultimately empower you, Terra Incognita guides readers to a new place of understanding, rather than to a physical location.

Betrayal of Trust Laurie Garrett 2011-05-10 In this "meticulously researched" account (New York Times Book Review), a Pulitzer Prize-winning author examines the dangers of a failing public health system unequipped to handle large-scale global risks like a coronavirus pandemic. The New York Times bestselling author of *The Coming Plague*, Laurie Garrett takes on perhaps the most crucial global issue of our time in this eye-opening book. She asks: is our collective health in a state of decline? If so, how dire is this crisis and has the public health system itself contributed to it? Using riveting detail and finely-honed storytelling, exploring outbreaks around the world, Garrett exposes the underbelly of the world's globalization to find out if it can still be assumed that government can and will protect the people's health, or if that trust has been irrevocably broken. "A frightening vision of the future and a deeply unsettling one . . . a sober, scary book that not only limns the dangers posed by emerging diseases but also raises serious questions about two centuries' worth of Enlightenment beliefs in science and technology and progress." -- Michiko Kakutani, *The New York Times*

Creating Livable Asian Cities Bambang Susantono 2021-04-01 This book explores how Asia's fast-growing cities can fulfil their potential as engines of economic prosperity and provide a livable environment for all citizens. But for this to happen, major challenges that reduce urban

communities' quality of life and economic opportunities must be addressed. These include poor planning, a lack of affordable housing, inequalities, pollution, climate vulnerabilities, and urban infrastructure deficits. The book's 19 articles unwrap these challenges and present solutions focused on smart and inclusive planning, sustainable transport and energy, innovative financing, and resilience and rejuvenation.

Engineering for Sustainable Development

International Centre for Engineering Education 2021-03-02 The report highlights the crucial role of engineering in achieving each of the 17 SDGs. It shows how equal opportunities for all is key to ensuring an inclusive and gender balanced profession that can better respond to the shortage of engineers for implementing the SDGs. It provides a snapshot of the engineering innovations that are shaping our world, especially emerging technologies such as big data and AI, which are crucial for addressing the pressing challenges facing humankind and the planet. It analyses the transformation of engineering education and capacity-building at the dawn of the Fourth Industrial Revolution that will enable engineers to tackle the challenges ahead. It highlights the global effort needed to address the specific regional disparities, while summarizing the trends of engineering across the different regions of the world.

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