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## **KEY=AND - RAFAEL OSBORN**

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**Global Trends 2040 A More Contested World** *Cosimo Reports "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.*

**Global Trends 2030 Alternative Worlds** Createspace Independent Publishing Platform This publication covers global megatrends for the next 20 years and how they will affect the United States. This is the fifth installment in the National Intelligence Council's series aimed at providing a framework for thinking about possible futures and their implications. The report is intended to stimulate strategic thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories during the next 15-20 years by identifying critical trends and potential discontinuities. The authors distinguish between megatrends, those factors that will likely occur under any scenario, and game-changers, critical variables whose trajectories are far less certain. NIC 2012-001. Several innovations are included in *Global Trends 2030*, including: a review of the four previous *Global Trends* reports, input from academic and other experts around the world, coverage of disruptive technologies, and a chapter on the potential trajectories for the US role in the international system and the possible the impact on future international relations. Table of Contents: Introduction 1 Megatrends 6 Individual Empowerment 8 Poverty Reduction 8 An Expanding Global Middle Class 8 Education and the Gender Gap 10 Role of Communications Technologies 11 Improving Health 11 A MORE CONFLICTED IDEOLOGICAL LANDSCAPE 12 Diffusion of Power 15 THE RISE AND FALL OF COUNTRIES: NOT THE SAME OLD STORY 17 THE LIMITS OF HARD POWER IN THE WORLD OF 2030 18 Demographic Patterns 20 Widespread Aging 20 Shrinking Number of Youthful Countries 22 A New Age of Migration 23 The World as Urban 26 Growing Food, Water, and Energy Nexus 30 Food, Water, and Climate 30 A Brighter Energy Outlook 34 Game-Changers 38 The Crisis-Prone Global Economy 40 The Plight of the West 40 Crunch Time Too for the Emerging Powers 43 A Multipolar Global Economy: Inherently More Fragile? 46 The Governance Gap 48 Governance Starts at Home: Risks and Opportunities 48 INCREASED FOCUS ON EQUALITY AND OPENNESS 53 NEW GOVERNMENTAL FORMS 54 A New Regional Order? 55 Global Multilateral Cooperation 55 The Potential for Increased Conflict 59 INTRASTATE CONFLICT: CONTINUED DECLINE 59 Interstate Conflict: Chances Rising 61 Wider Scope of Regional Instability 70 The Middle East: At a Tipping Point 70 South Asia: Shocks on the Horizon 75 East Asia: Multiple Strategic Futures 76 Europe: Transforming Itself 78 Sub-Saharan Africa: Turning a Corner by 2030? 79 Latin America: More Prosperous but Inherently Fragile 81 The Impact of New Technologies 83 Information Technologies 83 AUTOMATION AND MANUFACTURING TECHNOLOGIES 87 Resource Technologies 90 Health Technologies 95 The Role of the United States 98 Steady US Role 98 Multiple Potential Scenarios for the United States' Global Role 101 Alternative Worlds 107 Stalled Engines 110 FUSION 116 Gini-out-of-the-Bottle 122 Nonstate World 128 Acknowledgements 134 GT2030 Blog References 137 Audience: Appropriate for anyone, from businesses to banks, government agencies to start-ups, the technology sector to the teaching sector, and more. This publication helps anticipate where the world will be: socially, politically, technologically, and culturally over the next few decades. Keywords: *Global Trends 2030 Alternative Worlds, global trends 2030, Global Trends series, National Intelligence Council, global trajectories, global megatrends, geopolitics,*

*geopolitical changes* **Global Trends 2030 Alternative Worlds : a Publication of the National Intelligence Council** U.S. Government Printing Office 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. **Climate Change Evidence and Causes** National Academies Press Climate Change: Evidence and Causes is a jointly produced publication of The US National Academy of Sciences and The Royal Society. Written by a UK-US team of leading climate scientists and reviewed by climate scientists and others, the publication is intended as a brief, readable reference document for decision makers, policy makers, educators, and other individuals seeking authoritative information on the some of the questions that continue to be asked. Climate Change makes clear what is well-established and where understanding is still developing. It echoes and builds upon the long history of climate-related work from both national academies, as well as on the newest climate-change assessment from the United Nations' Intergovernmental Panel on Climate Change. It touches on current areas of active debate and ongoing research, such as the link between ocean heat content and the rate of warming. **Global Business Driven HR Transformation: The Journey Continues (Print Edition)** Lulu.com **Our Common Agenda - Report of the Secretary-General** United Nations 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. **Climate Change 2007 - Impacts, Adaptation and Vulnerability Working Group II Contribution to the Fourth Assessment Report of the IPCC** Cambridge University Press The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group II volume provides a completely up-to-date scientific assessment of the impacts of climate change, the vulnerability of natural and human environments, and the potential for response through adaptation. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers,

students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide. **The Regional Impacts of Climate Change An Assessment of Vulnerability** Cambridge University Press Cambridge, UK : Cambridge University Press, 1998. **World Social Report 2020 Inequality in a Rapidly Changing World** United Nations 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. **U.S. Health in International Perspective Shorter Lives, Poorer Health** National Academies Press The United States is among the wealthiest nations in the world, but it is far from the healthiest. Although life expectancy and survival rates in the United States have improved dramatically over the past century, Americans live shorter lives and experience more injuries and illnesses than people in other high-income countries. The U.S. health disadvantage cannot be attributed solely to the adverse health status of racial or ethnic minorities or poor people: even highly advantaged Americans are in worse health than their counterparts in other, "peer" countries. In light of the new and growing evidence about the U.S. health disadvantage, the National Institutes of Health asked the National Research Council (NRC) and the Institute of Medicine (IOM) to convene a panel of experts to study the issue. The Panel on Understanding Cross-National Health Differences Among High-Income Countries examined whether the U.S. health disadvantage exists across the life span, considered potential explanations, and assessed the larger implications of the findings. U.S. Health in International Perspective presents detailed evidence on the issue, explores the possible explanations for the shorter and less healthy lives of Americans than those of people in comparable countries, and recommends actions by both government and nongovernment agencies and organizations to address the U.S. health disadvantage. **Our Common Future Millennium Development Goals Report 2015** This report presents the yearly assessment of global progress towards the Millennium Development Goals (MDGs), determining the areas where progress has been made, and those that are lagging behind. The report is based on a master set of data compiled by the Inter-Agency and Expert group on MDG indicators led by the Statistics Division of the Department of Economic and Social Affairs. **Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation Special Report of the Intergovernmental Panel on Climate Change** Cambridge University Press This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster

risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be developed at any scale, local to international. Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change, including policymakers, the private sector and academic researchers. **A Safe and Just Space for Humanity: Can we live within the doughnut?** Oxfam **Global Report on Trafficking in Persons 2020** UN The 2020 UNODC Global Report on Trafficking in Persons is the fifth of its kind mandated by the General Assembly through the 2010 United Nations Global Plan of Action to Combat Trafficking in Persons. It covers more than 130 countries and provides an overview of patterns and flows of trafficking in persons at global, regional and national levels, based primarily on trafficking cases detected between 2017 and 2019. As UNODC has been systematically collecting data on trafficking in persons for more than a decade, trend information is presented for a broad range of indicators. **Disease Control Priorities, Third Edition (Volume 9) Improving Health and Reducing Poverty** World Bank Publications As the culminating volume in the DCP3 series, volume 9 will provide an overview of DCP3 findings and methods, a summary of messages and substantive lessons to be taken from DCP3, and a further discussion of cross-cutting and synthesizing topics across the first eight volumes. The introductory chapters (1-3) in this volume take as their starting point the elements of the Essential Packages presented in the overview chapters of each volume. First, the chapter on intersectoral policy priorities for health includes fiscal and intersectoral policies and assembles a subset of the population policies and applies strict criteria for a low-income setting in order to propose a "highest-priority" essential package. Second, the chapter on packages of care and delivery platforms for universal health coverage (UHC) includes health sector interventions, primarily clinical and public health services, and uses the same approach to propose a highest priority package of interventions and policies that meet similar criteria, provides cost estimates, and describes a pathway to UHC. **No Ordinary Disruption The Four Global Forces Breaking All the Trends** Hachette UK 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.

**Environmental Health From Global to Local** John Wiley & Sons "Environmental Health: From Global to Local, Third Edition by Howard Frumkin is a comprehensive and contemporary introductory core text for students in public health, preventive medicine, community health, other health sciences, and environmental health.

Expert contributors discuss the major issues in environmental health: air, water, food safety, occupational health, radiation, chemical and physical hazards, environmental disasters, vector control, and environmental justice. Major changes to the third edition: - More global focus - New chapter on vulnerable populations, covering children, poor/minority communities, elderly, others - New chapter on sustainability - Shorten most chapters and eliminate redundancies throughout the book - Much more creative, engaging discussion questions "--Provided by publisher. **Environment and**

**Development Basic Principles, Human Activities, and Environmental Implications** Elsevier *Environment and Development: Basic Principles, Human Activities, and Environmental Implications* focuses on the adverse impact that human activities, developments, and economic growth have on both natural and inhabited environments. The book presents the associated problems, along with solutions that can be used to achieve a harmonic, sustainable development that provides for the co-existence of man and natural life. Chapters provide detailed information on a range of environments including: atmospheric, aquatic, soil, natural, urban, energy, and extraterrestrial, as well as the relationship between the environment and development. In addition, this comprehensive book presents the latest research findings and trends in global environmental policy for each issue. Offers a discussion of the extraterrestrial environment and waste in earth orbit as one of the distinctive topics of the book Addresses global environmental policy issues and policies Presents tabulated data to support the analysis and explain the issues presented Includes case studies covering many topics of current interest Analyzes environmental issues and proposes solutions grounded in recent research findings Discusses the various interpretations of the development concept as well as alternative pathways to sustainable development **Review of the Draft Fourth**

**National Climate Assessment** National Academies Press Climate change poses many challenges that affect society and the natural world. With these challenges, however, come opportunities to respond. By taking steps to adapt to and mitigate climate change, the risks to society and the impacts of continued climate change can be lessened. The National Climate Assessment, coordinated by the U.S. Global Change Research Program, is a mandated report intended to inform response decisions. Required to be developed every four years, these reports provide the

most comprehensive and up-to-date evaluation of climate change impacts available for the United States, making them a unique and important climate change document. The draft Fourth National Climate Assessment (NCA4) report reviewed here addresses a wide range of topics of high importance to the United States and society more broadly, extending from human health and community well-being, to the built environment, to businesses and economies, to ecosystems and natural resources. This report evaluates the draft NCA4 to determine if it meets the requirements of the federal mandate, whether it provides accurate information grounded in the scientific literature, and whether it effectively communicates climate science, impacts, and responses for general audiences including the public, decision makers, and other stakeholders.

**Guiding Principles on Business and Human Rights Implementing the United Nations "Protect, Respect and Remedy" Framework** United Nations Publications "This publication contains the 'Guiding Principles on Business and Human Rights: Implementing the United Nations Protect, Respect and Remedy Framework', which were developed by the Special Representative of the Secretary-General on the issue of human rights and transnational corporations and other business enterprises. The Special Representative annexed the Guiding Principles to his final report to the Human Rights Council (A/HRC/17/31), which also includes an introduction to the Guiding Principles and an overview of the process that led to their development. The Human Rights Council endorsed the Guiding Principles in its resolution 17/4 of 16 June 2011."--P. iv.

**World Migration Report 2020** United Nations Since 2000, IOM has been producing world migration reports. The World Migration Report 2020, the tenth in the world migration report series, has been produced to contribute to increased understanding of migration throughout the world. This new edition presents key data and information on migration as well as thematic chapters on highly topical migration issues, and is structured to focus on two key contributions for readers: Part I: key information on migration and migrants (including migration-related statistics); and Part II: balanced, evidence-based analysis of complex and emerging migration issues.

**Climate Change Evidence and Causes: Update 2020** National Academies Press Climate change is one of the defining issues of our time. It is now more certain than ever, based on many lines of evidence, that humans are changing Earth's climate. The Royal Society and the US National Academy of Sciences, with their similar missions to promote the use of science to benefit society and to inform critical policy debates, produced the original *Climate Change: Evidence and Causes* in 2014. It was written and reviewed by a UK-US team of leading climate scientists. This new edition, prepared by the same author team, has been updated with the most recent climate data and scientific analyses, all of which reinforce our understanding of human-caused climate change. Scientific information is a vital component for society to make informed decisions about how to reduce the magnitude of climate change and how to adapt to its impacts. This booklet serves as a key reference document for decision makers, policy makers, educators, and others seeking authoritative answers about the current state of climate-change science.

**Handbook of Local and Regional Development** Routledge The Handbook of Local and Regional Development provides a comprehensive statement and reference point for local and regional development. The scope of this Handbook's coverage and

contributions engages with and reflects upon the politics and policy of how we think about and practise local and regional development, encouraging dialogue across the disciplinary barriers between notions of 'local and regional development' in the Global North and 'development studies' in the Global South. This Handbook is organized into seven inter-related sections, with an introductory chapter setting out the rationale, aims and structure of the Handbook. Section one situates local and regional development in its global context. Section two establishes the key issues in understanding the principles and values that help us define what is meant by local and regional development. Section three critically reviews the current diversity and variety of conceptual and theoretical approaches to local and regional development. Section four address questions of government and governance. Section five connects critically with the array of contemporary approaches to local and regional development policy. Section six is an explicitly global review of perspectives on local and regional development from Africa, Asia-Pacific, Europe, Latin America and North America. Section seven provides reflection and discussion of the futures for local and regional development in an international and multidisciplinary context. With over forty contributions from leading international scholars in the field, this Handbook provides critical reviews and appraisals of current state-of-the-art conceptual and theoretical approaches and future developments in local and regional development.

**WHO Guidelines for Indoor Air Quality Selected Pollutants** World Health

Organization This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

**Human Geography Places and Regions in Global Context, Global Edition** For courses in Human Geography. A distinctly modern look at human geography Described as "fresh, innovative, and intelligent," Human Geography: Places and Regions in Global Context is acclaimed for its global approach, conceptual rigor, engaging real-world applications, and outstanding visual program. Knox and Marston foster awareness of current issues and developing trends from a geographic perspective, and provide a solid foundation in the fundamentals of human geography. The authors integrate compelling local, regional, and global viewpoints to give meaning to people and places. By providing access to the latest ideas, concepts, and theories, the text deepens students' understanding of the interdependence of places and regions in a globalizing world. The Seventh Edition extends Knox/Marston's modern approach, integrating new technology as well as new visual and thematic features relevant to human geography today. MasteringGeography™ not included. Students, if MasteringGeography is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MasteringGeography should only be purchased when

required by an instructor. Instructors, contact your Pearson representative for more information. MasteringGeography is an online homework, tutorial, and assessment product designed to personalize learning and improve results. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts.

**Arctic Human Development Report Regional Processes and Global Linkages** Nordic Council of Ministers The goals of the second volume of the AHDR - Arctic Human Development Report: Regional Processes and Global Linkages - are to provide an update to the first AHDR (2004) in terms of an assessment of the state of Arctic human development; to highlight the major trends and changes unfolding related to the various issues and thematic areas of human development in the Arctic over the past decade; and, based on this assessment, to identify policy relevant conclusions and key gaps in knowledge, new and emerging Arctic success stories. The production of AHDR-II on the tenth anniversary of the first AHDR makes it possible to move beyond the baseline assessment to make valuable comparisons and contrasts across a decade of persistent and rapid change in the North. It addresses critical issues and emerging challenges in Arctic living conditions, quality of life in the North, global change impacts and adaptation, and Indigenous livelihoods. The assessment contributes to our understanding of the interplay and consequences of physical and social change processes affecting Arctic residents' quality of life, at both the regional and global scales. It shows that the Arctic is not a homogenous region. Impacts of globalization and environmental change differ within and between regions, between Indigenous and non-Indigenous northerners, between genders and along other axes.

**World Economic Situation and Prospects 2020** United Nations This is the United Nations definitive report on the state of the world economy, providing global and regional economic outlook for 2020 and 2021. Produced by the Department of Economic and Social Affairs, the five United Nations regional commissions, the United Nations Conference on Trade and Development, with contributions from the UN World Tourism Organization and other intergovernmental agencies.

**Education for Sustainable Development A Roadmap UNESCO Publishing Survey of Economic and Social Developments in the Arab Region 2015-2016** United Nations The economic and political uncertainty which has characterized the Arab region in the wake of the 2011 transitions and upheaval continues to restrain the region's prospects for growth, job creation and stability. Economic expansion remains stalled, with persistently low global oil prices adding a further burden to the regional economy and constraining the growth and fiscal balances of those countries that had been top-performers due to energy exports. While some progress on social indicators such as gender representativeness can be noted, countries in and affected by political transition and conflict have regressed on a plethora of socioeconomic indicators. These trends can be noted for the past five years, and with this in mind, the 2015-16 Survey will utilize recent data in order to take stock of the impact of instability and conflict, and address the foregone growth and output and destructive effects of this period. It also draws on recent research of ESCWA regarding migration, social developments, the impact of conflict, women's empowerment, and specific country-level analysis.

**Carbon Dioxide Capture and Storage Special Report of the Intergovernmental Panel on Climate Change** Cambridge

University Press IPCC Report on sources, capture, transport, and storage of CO<sub>2</sub>, for researchers, policy-makers and engineers. **Planetary Health Human Health in an Era of Global Environmental Change** CABI Planetary Health - the idea that human health and the health of the environment are inextricably linked - encourages the preservation and sustainability of natural systems for the benefit of human health. Drawing from disciplines such as public health, environmental science, evolutionary anthropology, welfare economics, geography, policy and organizational theory, it addresses the challenges of the modern world, where human health and well-being is threatened by increasing pollution and climate change. A comprehensive publication covering key concepts in this emerging field, Planetary Health reviews ideas and approaches to the subject such as natural capital, ecological resilience, evolutionary biology, One Earth and transhumanism. It also sets out through case study chapters the main links between human health and environmental change. Providing an extensive overview of key theories and literature for academics and practitioners who are new to the field, this engaging and informative read also offers an important resource for students of a diverse range of subjects, including environmental sciences, animal sciences, geography and health. **Pandemic Influenza Preparedness and Response A WHO Guidance Document** World Health Organization "Influenza pandemics are unpredictable but recurring events that can have severe consequences on societies worldwide. This revised WHO guidance publication on pandemic influenza preparedness and response acknowledges that pandemic preparedness is centered around health sectors planning but must also be broader. WHO therefore advocates a "whole-of-society" approach to sustainable and ethical pandemic preparedness while focusing in more detail on the role of the health sector. The roles of WHO and national governments are outlined to create a better understanding of how health and non-health sectors, both public and private, all contribute to pandemic preparedness"-- Publisher's description. **World Cities Report 2016 Urbanization and Development - Emerging Futures** United Nations The analysis of urban development of the past twenty years presented in this maiden edition of the World Cities Report shows, with compelling evidence, that there are new forms of collaboration and cooperation, planning, governance, finance and learning that can sustain positive change. The Report unequivocally demonstrates that the current urbanization model is unsustainable in many respects. It conveys a clear message that the pattern of urbanization needs to change in order to better respond to the challenges of our time, to address issues such as inequality, climate change, informality, insecurity, and the unsustainable forms of urban expansion. **The Precautionary Principle Protecting Public Health, the Environment and the Future of Our Children** The purpose of this publication is to provide the background rationale and support for WHO's working paper Dealing with uncertainty - how can the precautionary principle help protect the future of our children?, prepared for the Fourth Ministerial Conference on Environment and Health held in Budapest, Hungary, in June 2004. The debate around the precautionary principle has provided many insights into how to improve public health decision-making under conditions of uncertainty. This publication should further support approaches to attaining the concurrent goals of protecting adults, children and future generations

and the ecosystems on which we depend and enhancing economic development, sustainability and innovation in science, research and policy. [Ed.] **OECD Insights Human Capital How what you know shapes your life** How what you know shapes your life OECD Publishing This book explores the impact of education and learning on our societies and lives and examines what countries are doing to provide education and training to support people throughout their lives. **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. **Strengthening Forensic Science in the United States A Path Forward** National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators. **To Err Is Human Building a Safer Health System** National Academies Press Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from motor vehicle accidents, breast cancer, or AIDS--three causes that receive far more public attention. Indeed, more people die annually from medication errors than from workplace injuries. Add the financial cost to the human tragedy, and medical error easily rises to the top ranks of urgent, widespread public problems. *To Err Is Human* breaks the silence that has surrounded medical errors and their consequence--but

not by pointing fingers at caring health care professionals who make honest mistakes. After all, to err is human. Instead, this book sets forth a national agenda--with state and local implications--for reducing medical errors and improving patient safety through the design of a safer health system. This volume reveals the often startling statistics of medical error and the disparity between the incidence of error and public perception of it, given many patients' expectations that the medical profession always performs perfectly. A careful examination is made of how the surrounding forces of legislation, regulation, and market activity influence the quality of care provided by health care organizations and then looks at their handling of medical mistakes. Using a detailed case study, the book reviews the current understanding of why these mistakes happen. A key theme is that legitimate liability concerns discourage reporting of errors--which begs the question, "How can we learn from our mistakes?" Balancing regulatory versus market-based initiatives and public versus private efforts, the Institute of Medicine presents wide-ranging recommendations for improving patient safety, in the areas of leadership, improved data collection and analysis, and development of effective systems at the level of direct patient care. *To Err Is Human* asserts that the problem is not bad people in health care--it is that good people are working in bad systems that need to be made safer. Comprehensive and straightforward, this book offers a clear prescription for raising the level of patient safety in American health care. It also explains how patients themselves can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital administrators, medical educators and students, health caregivers, health journalists, patient advocates--as well as patients themselves. First in a series of publications from the Quality of Health Care in America, a project initiated by the Institute of Medicine

**Humanitarian Local and Regional Development Sustainability and Conflict Prevention in the Information Age** Edward Elgar Publishing Critically reviewing major factors that disrupt local and regional development, Mustafa Dinc provides a transparent interpretation of the circular and cumulative relationship between these disruptions and development, highlighting ways to help interrupt this cycle. The book emphasizes the role and responsibility of individuals in the development process by exploring a humanist approach to local and regional development.