

Thomas HOMER-DIXON

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The  
**INGENUITY  
GAP**

CAN WE  
SOLVE THE  
PROBLEMS  
OF THE  
FUTURE?

# Ingenuity Gap The

**Robert R. Redfield**



## **Ingenuity Gap The:**

**The Ingenuity Gap** Thomas Homer-Dixon, 2001-05-15 Human beings have been smart enough to turn nature to their ends generate vast wealth for themselves and double their average life span But are they smart enough to solve the problems of the 21st century Thomas Homer Dixon In *The Ingenuity Gap* Thomas Homer Dixon global guru the Toronto Star asks is our world becoming too complex too fast paced to manage The challenges facing us converge intertwine and remain largely beyond our ken Most of suspect the experts don't really know what's going on that as a species we've released forces that are neither managed nor manageable We are fast approaching a time when we may no longer be able to control a world that increasingly exceeds our grasp This is the ingenuity gap the term coined by Thomas Homer Dixon the critical gap between our need for practical innovative ideas to solve complex problems and our actual supply of those ideas Through gripping narrative stories and incidents that exemplify his arguments he takes us on a world tour that begins with a heartstopping description of the tragic crash of United Airlines Flight 232 from Denver to Chicago and includes Las Vegas in its desert a wilderness beach in British Columbia and his solitary search for a little girl in Patna India He shows how in our complex world while poor countries are particularly vulnerable to ingenuity gaps our own rich countries are not immune and we are caught between a requirement for ingenuity and an increasingly uncertain supply When the gap widens political disintegration and violent upheaval can result reaching into our own economies and daily lives in subtle ways In compelling lucid prose he makes real the problems we face and suggests how we might overcome them *The Ingenuity Gap* Maren Leed, 2010 American officers are the bedrock of military success They face a whirlwind of change that is picking up speed yet their preparation is dictated by a system based on stability and predictability that if they ever existed certainly do not exist today Others have identified many of the same problems and have offered some of the same solutions explored in much greater depth than we were able to accomplish here Yet strikingly few changes have been made This reluctance primarily cultural and institutional cannot persist Failing to adapt the officer management system to better align with the future will put U S officers at a growing disadvantage placing more and more of a burden upon them as individuals to overcome a bureaucracy that ideally would be dedicated to supporting their success The ingenuity gap is real and growing and our officers are caught in it DOD should immediately implement changes to officer management to close this gap **The Ingenuity Gap** Thomas Homer-Dixon, 2002-08-13 Despite all of society's advances our problems proliferate Wars abound environmental degradation accelerates economies topple overnight and pandemics such as AIDS and tuberculosis continue to spread The Internet and other media help to disseminate knowledge but they've also created an info glut and left us too little time to process it What's more advances in technology have made the world so bewilderingly fast paced and complex that fewer people are able even to grasp the problems let alone generate solutions That space between the problems that arise and our ability to solve them is the ingenuity gap and as we careen towards an increasingly harried and hectic future the gap

seems only to widen As he explores the possible consequences of this gap Thomas Homer Dixon offers an absorbing assessment of the state of the world and our ability to fix it Culling from an astounding array of fields from economics to evolution political science to paleontology computers to communications he integrates his vast knowledge into an accessible and engaging argument This is a book with profound implications for everyone that we can ill afford to ignore The Ingenuity Gap Thomas F. Homer-Dixon,2002 **Reinventing Discovery** Michael Nielsen,2020-04-07 Reinventing Discovery argues that we are in the early days of the most dramatic change in how science is done in more than 300 years This change is being driven by new online tools which are transforming and radically accelerating scientific discovery Prologue and Chapter 1 Careening Into the Future: The Ingenuity Gap Thomas Homer-Dixon, **Digital Bridges** John Senyo C. Afele,2003 Globalization and global equity are built on the premise of peace The causes of many divisions and tensions in human communities lie in the imagined or real gain of financial or material assets of some elements of the community to be at the expense of others The global community however lacks clear definitions and methods of stability whether political economic or social Digital Bridges Developing Countries in the Knowledge Economy provides insight into the methods and theories behind the globalization of information technologies *Braving the New World* Thomas Michael Joseph Bateman,Manuel Mertin,David Martin Thomas,1999-12 Confronting Civil War Luka Biong Deng,2002 Civil wars have become endemic to many African countries since the end of the Cold War The risk of civil wars in much of Africa stands now as the leading contributory cause of vulnerability This upsurge of civil wars has posed a compelling need to improve understanding for better policy direction Most of the current studies on civil wars tend to focus on macro issues with limited relevance and conceptualisation at micro level The dearth of understanding of household livelihood strategies in the war zone has made the existing studies in risk and livelihood literature unwittingly equating these strategies with those in the context of other risk events or even ruled out any rational household risk management behaviour In this regard this study is an attempt to gain a nuanced understanding of the subde household livelihood strategies in the context of civil war In an attempt to unravel and better understand household risk related behaviours in the context of civil war this thesis set out a framework called the Risk Livelihood Approach that links risk events in a systematic way to household livelihood strategies and their outcomes The framework provides the basis for fonnulating the main four hypotheses of the thesis which are related to characteristics of risk events livelihood strategies and diversification social capital and vulnerability In an attempt to provide a better understanding of these hypotheses comparative empirical inquiries were undertaken at household level in Bahr el Ghazal region in southern Sudan which has been exposed to a protracted civil war The major empirical findings from a general case study of Sudan s civil war and three specific case studies of households exposed to different types of counter insurgency warfare and drought all point to complexity and context specificity The thesis clearly shows the significance of specific characteristics of counter insurgency warfare in understanding household livelihood strategies and vulnerability In

particular the thesis demonstrates that the standard pattern of vulnerability and household responses to drought is similar to that in the context of exogenous counter insurgency warfare while a different pattern of vulnerability and household responses to endogenous shocks such as endogenous counter insurgency warfare is identified Specifically the thesis surprisingly finds a positive link between level of vulnerability and initial high level of household wealth in the context of endogenous counter insurgency warfare A future research agenda in the area of vulnerability might need to focus on developing a greater understanding of the nature and characteristics of risk events such as endogenous shocks

**Just Transitions** Mark Swilling, Eve Annecke, 2012 Current economic growth strategies around the world are rapidly depleting natural resources and eco systems Just Transitions provides an overview of these challenges from a Global South perspective How do developing countries eradicate poverty via economic development while encountering the consequences of global warming and dwindling supplies of clean water productive soils cheap oil minerals and other resources How do they address widening inequalities as well as the need to rebuild ecosystem services and natural resources This book considers a just transition which reconciles the sustainable use of natural resources with a pervasive commitment to sufficiency where over consumers are satisfied with less so that under consumers can secure enough It synthesises a range of different literatures to illuminate new ways of thinking from a sustainability perspective It rethinks development with special reference to the greening of the developmental state explores the key role that cities could play in the transition to a more sustainably urbanised world highlights the neglect of soils and examines the potential of sustainable agriculture to feed the world Case studies drawn from Africa detail the challenges but they are set in the context of global trends The authors conclude with their experience of building a community that aspires to live sustainably

*International Security Challenges in a Changing World* Kurt R. Spillmann, Joachim Krause, 1999 Bern Berlin Bruxelles Frankfurt M New York Wien 1999

**Discussion Paper**, 2000 Homeland Security: Borders and points of entry James J. F. Forest, 2006 *Quill & Quire*, 2005 *Growth, Human Development, Social Cohesion* Canada. Privy Council Office. Policy Research Committee, Jim Lahey, Alan Nymark, 1996 The Policy Research Committee was created in July 1996 as part of a project to understand the policy environment over the medium term and to begin planning for the next decade The mandate of the Committee is to prepare a report on the pressure points likely to arise in Canadian society by the year 2005 as a result of economic demographic and social trends and to make recommendations regarding an interdepartmental research agenda and work program to address gaps in knowledge This interim report presents the Committee s overview and interpretation along with suggestions on what policy makers will need to know in the future Chapter 1 reviews medium term pressure points with regard to underlying forces growth human development and social cohesion Chapters 2 12 focus on individual topics such as sustainable development the fiscal environment productivity the labour market health Aboriginal issues culture and values and regions and communities The final chapter considers options for an interdepartmental framework and process to co ordinate policy

research **Zeitschrift der Deutschen Gesellschaft für Geowissenschaften** ,2008 *Social Problems*, 98-99 Harold A. Widdison,1998 *Adbusters* ,2002 **Exploring Social Change** Charles L. Harper, Kevin T. Leicht,2002 This introduction to social change focuses on theories that explain social change innovation social movements and revolutions The last part of the book shifts explicitly to the global level to analyze population and environmental issues and globalization Within this framework the book discusses topics about change and its problems familiar in sociology and social science *Hurry Up and Slow Down* Paul Faris,2003 To explore the idea of education to close the ingenuity gap I use Thomas Homer Dixon s work to define ingenuity The notion that the supply of ingenuity to solve our technical and social problems is not keeping pace with the ingenuity required to solve those problems is called the ingenuity gap Man made technological developments are increasing the density intensity and pace of globalisation People must reorganise decision making organisations and problem solving methods to pragmatically combat the growing ingenuity gap John Dewey s work illustrates the fundamental attitudes for the thinking and judgment associated with educating for ingenuity Howard Gardner s idea that truth beauty and morality ought to form the core values and tenets of the philosophy of educating for ingenuity is integral to this thesis The act of teaching facilitates the invitation to the communication necessary to foster ingenuity John Novak discusses the five relationships of educational leadership that enhance an environment of ingenuity The International Baccalaureate IB is an existing model of global education one that defines some of the school experiences and academic development of core values of educating for ingenuity Expanding upon the structure of the IB and other research within this thesis I speculate upon what my school where educating for ingenuity so as to close the ingenuity gap is the goal would be like

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