



Knowledge Economics: Emerging Principles, Practices and Policies

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Knowledge economics is the new focus for the 21st century.

Peter Drucker

The purpose of this book is to provide readings in order to educate the new generation of researchers, professors, teachers, industrial and government leadership professionals.

The principles of knowledge economics ought to be endorsed as a revolutionary change - an opportunity to provide a solid foundation, rationale and vision to substitute something more sustainable than the old regime of traditional economics. Intelligent and innovative explorations of computer capabilities help optimise individual and collective work of employees and the entrepreneur.

The book is divided into three major sections - each providing a facet of the new thinking.

Part I: Principles/Standards

We are witnessing an acceleration of experimentation and adoption of progressive management approaches at every level of the economic – micro, meso, and macro-economic. This section will illuminate some of the broader scheme context and sense-making approaches to initiatives of the new Knowledge Economy. Topical areas include trend analysis, modern economic principles, emerging standards, etc.

Knowledge Partnerships for a Sustainable, Equitable, and Stable Society
Thomas F. Malone, North Carolina State University, and Gary W. Yohe, Wesleyan University

Driving Force for Sustainable Development: Principles of Harmony and Balance

Jin Zhouying, Chinese Academy of Social Sciences

Dynamic Model of Production and the Evolution of Knowledge Economy

Darius Mahdjoubi, University of Texas at Austin

A Biosoma Precis

George Bugliarello, Foreign Secretary of the U.S. National Academy of Engineering



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The Six Facets of Innovation Management

Edna Pasher, Edna Pasher Associates, and Ron Dvir, Innovation Ecology

Some Emerging Perspectives of Leadership for Value Creation

Leif Edvinsson, UNIC and the University of Lund

Knowledge Pattern Recognition

Bryan Davis, Kaieteur Institute for Knowledge Management

A Knowledge Management Success Story Using Social Cybernetics

W. De Gregori, UCC: Universidad Cooperativa de Colombia

Stories, Mental Models and Situation-Handling

Karl M. Wiig, Knowledge Research Institute, Inc.

A Global Knowledge Agenda Based on Capital Systems

F. Javier Carrillo, World Capital Institute

Part II: Practices

This section identifies management approaches that are enabling institutions to take advantage of the new models of organization structures, real-time learning mechanisms, foundations for cultural evolution, performance incentives, environmental considerations, ecological practices, country and company restructuring, and the use of technology.

Liberating the Innovation Value of Communities of Practice

George Pór, Researcher at London School of Economics and Chairman, Community Intelligence Ltd. in collaboration with Erik van Bekkum, Senior Consultant, Community Intelligence Ltd.

Extended Enterprises Based on Knowledge: CONEX

Angel Arbonies and Carlos Fernandez, Mondragón Innovation and Knowledge

Enterprise Transformation Using Knowledge and Innovation Strategies

Lynne Schneider, ESSI, Inc.

The Knowledge Management Strategy Vee: A Framework for Creating a New Strategic Direction

Xenia Stanford, KnowMap

Learning Leverage: Managing Knowledge for Competitive Advantage

John Milton-Smith, School of Management, Curtin University of Technology, Perth, Western Australia



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In Search of Permanency: Internet Biologists and Continuity in a Virtual Knowledge Network

Chin Hoon Lau, Lagenda Knowledge Systems

Global Knowledge Innovation at Work: The Computer Seen as an Intelligent Assistant of Humans in the Global Process

Eunika Mercier-Laurent, EML Conseil K&IM, IAE Lyon, University of Innovation, Marseille, France

Human Resources Management in the Web Economy

Jean-Marc Le Duc, Transinnova, Ministry of Resarch and Technology, France

Part III: Policy, Governance and Measurement

The policy section outlines how the emphasis on policy guiding procedures for action, as well as on governance and measurement, can effect significant managerial innovations: changing - or better - abandoning the old rules, thereby producing new and viable principles of economic and corporate policy. This is a counterpart to the principles of self-organizing systems in that there may be ways to architect, via policy-change initiatives, the potential output of an innovation system.

Knowledge-Relevant Economic Policy: Analyzing Knowledge Policymaking in Managed- and Free-Market Economies

Piero Formica, Abu Dhabi Higher Colleges of Technology and University of Tartu

Regional Technology Policy and the Emergence of an R&D System in the Basque Country

Monica Moso, Knowledge Cluster, and Mikel Olazaran, Department of Sociology, Faculty of Social and Communication Sciences, University of the Basque Country

Shaping Innovation Policy of Small Transition Economy: Global Leverage of Knowledge and Competencies

Tõnis Mets, Faculty of Economics and Business Administration, University of Tartu

Transparency: A Foundation for Modern Leadership/Governance

Doug Macnamara, Banff Executive Leadership Inc.

Moving beyond Compliance and Control: Building a Values-Based Corporate Governance Culture. A Culture of Mutual Accountability

Eleisa Sundrum, eCultureTeam

Collaboredge: The Key to Development

Gülgün Kayakutlu, İstanbul Commerce University and Faculty of Engineering, Turkey



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Intellectual Capital Efficiency (ICE) Index- New Implications for GDP
Ante Pulic, International Business Efficiency Consulting LLC, USA
Croatian Chamber of Economy, Intellectual Capital Association

National Intellectual Capital Index: The Benchmarking of Arab Countries
Nick Bontis, DeGroote Business School, McMaster University

In the Knowledge Zone: Architecting a Blueprint for the World Trade of Ideas
Debra M. Amidon, ENTOVATION International. Ltd