

Educational Research And Innovation Measuring Innovation In Education A New Perspective Educational Research Innovation

The introduction and tracking of reference to people or individuals, known as referential movement, is a central feature of coherence, and accounts for “about every third word of discourse”. Located at the intersection of pragmatics and grammar, reference is now proving a rich and enduring source of insight into second language development. The challenge for second language (L2) learners involves navigating the selection and positioning of reference in the target language, continually shifting and balancing the referential means used to maintain coherence, while remaining acutely sensitive to the discourse and social context. The present volume focuses on how L2 learners meet that challenge, bringing together both eminent and up-and-coming researchers in the field of L2 acquisition. The chapters address a range of problems in second language acquisition (SLA) (e.g., form-function mapping, first language [L1] influence, developmental trajectories), and do so in relation to various theoretical approaches to reference (e.g., Accessibility Theory, Givenness Hierarchy). The global outlook of these studies relates to the L2 acquisition of English, French, Japanese, Korean, and Spanish and covers a diverse range of situational contexts including heritage language learning, English as a medium of instruction, and the development of sociolinguistic competence.

This book provides a set of principles for fostering innovation in people (workers and

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consumers), in firms and in government, taking an in-depth look at the scope of innovation and how it is changing, as well as where and how it is occurring.

How do we objectively measure scientific activities? What proportion of economic activities should a society devote to research and development? How can public-sector and private-sector research best be directed to achieve social goals? Governments and researchers from industrial countries have been measuring science and technology for more than eighty years. This book provides the first comprehensive account of the attempts to measure science and technology activities in Western countries and the successes and shortcomings of statistical systems. Godin guides readers through the historical moments that led to the development of statistics on science and technology and also examines the socio-political dynamics behind social measurement. This enlightening account will be of interest to students and academics investigating science measurement as well as policy makers working in this burgeoning field. Action research continues to see a growth in interest both internationally and across disciplines. This book demonstrates the diversity in settings and focus for action research and provides a guide to its core aspiration: to achieve principled change. Written by authors from a range of countries and range of disciplines (including education, health care, palliative care, social work and community development), this book answers these key questions: How can action research be used to achieve principled change? How has action research been applied in various disciplines and in different countries? What can be learnt about the conduct of action research from these diverse settings? By means of detailed case studies of successful projects and discussions that challenge and raise theoretical questions, this book explores some of the contemporary cutting edge applications and conceptualisations of action research. Action

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research paves the way for the empowerment of people involved in social action, and the examples of successful change processes that are the core of this book will prove inspirational and provide practical advice. Written by a range of leading international researchers in the field, this book will define the future for action research for years to come.

Measuring innovation in education and understanding how it works is essential to improve the quality of the education sector. Monitoring systematically how pedagogical practices evolve would considerably increase the international education knowledge base. We need to examine whether, and how ...

"This book covers the basics of traditional educational testing, measurement, and evaluation theory and methodology, as well as sociopolitical issues and trends influencing the future of that research and practice"--Publisher's description.

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional

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learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. *Transforming the Workforce for Children Birth Through Age 8* offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

This book explores the innovative and research methods of the teaching-learning process in Engineering field. It focuses on the use of technology in the field of education. It also provides a platform to academicians and educationalists to share their ideas and best practices. The book includes specific pedagogy used in engineering education. It offers case studies and classroom practices which also include those used in distance mode and during the COVID-19 pandemic. It provides comparisons of national and international accreditation bodies, directions on cost-effective technology, and it discusses advanced technologies such as VR and augmented reality used in education. This book is intended for research scholars who are

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pursuing their masters and doctoral studies in the engineering education field as well as teachers who teach undergraduate and postgraduate courses to engineering students. The National Center for Science and Engineering Statistics (NCSES), at the U.S. National Foundation, is 1 of 14 major statistical agencies in the federal government, of which at least 5 collect relevant information on science, technology, and innovation activities in the United States and abroad. The America COMPETES Reauthorization Act of 2010 expanded and codified NCSES's role as a U.S. federal statistical agency. Important aspects of the agency's mandate include collection, acquisition, analysis, and reporting and dissemination of data on research and development trends, on U.S. competitiveness in science, technology, and research and development, and on the condition and progress of U.S. science, technology, engineering, and mathematics (STEM) education. Improving Measures of Science, Technology and Innovation: Interim Report examines the status of the NCSES's science, technology, and innovation (STI) indicators. This report assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators designed to better reflect fundamental and rapid changes that are reshaping global science, technology and innovation systems. The book also determines the international scope of STI indicators and the need for developing new indicators that measure developments in innovative activities in the United States and abroad, and Offers foresight on the types of data, metrics and indicators that will be particularly influential in evidentiary policy decision-making for years to come. In carrying out its charge, the authoring panel undertook a broad and comprehensive review of STI indicators from different countries, including Japan, China, India and several countries in Europe, Latin America and Africa. Improving Measures of Science, Technology, and Innovation makes

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recommendations for near-term action by NCSES along two dimensions: (1) development of new policy-relevant indicators that are based on NCSES survey data or on data collections at other statistical agencies; and (2) exploration of new data extraction and management tools for generating statistics, using automated methods of harvesting unstructured or scientometric data and data derived from administrative records.

As part of the Organisation for Economic Cooperation and Development project on international educational indicators, four networks were formed to represent different domains. This collection contains background papers that were prepared to deal with some of the fundamental questions about process indicators examined by Network "C," the network that, under the leadership of The Netherlands, was given the task of measuring indicators of schools and school processes. The following papers are included: (1) "Internationally Comparable Indicators of Educational Programmes and Processes: Identification, Measurement and Interpretation" (Jaap Scheerens); (2) "Comparer les structure de decision des systemes educatifs: un bilan de l'approche quantitative (Comparison of Decision-Making Structures in Education Systems: A Review of the Quantitative Approach)" (Denis Meuet, Jacques Prod'hom, and Eugen Stocker); (3) "The Selection and Definition of International Indicators on Teachers" (Jaap Scheerens); (4) "Curriculum Indicators in International Comparative Research" (Willem J. Pelgrum, Joke Voogt, and Tjeerd Plomp); (5) "Process Indicators on School Functioning and the Generalisability of School Factor Models across Countries" (Bert Creemers); (6) "The Development of Indicators on Equity in Education" (Alan Gibson and Denis Meuret); (7) "The Search for Indicators on the Effective Functioning of Tertiary Education Institutions" (Alan Gibson); (8) "The Use of Performance Indicators in

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School Improvement and Accountability" (Carmo Climaco); (9) "Perspectives on Decision-Making in Education Systems and the Development of the Network C Locus of Decision-Making Survey" (Darrel Drury, Laura Hersh Salganik, and Marilyn M. McMillen); (10) "La mise en place d'un dispositif d'indicateurs pour le pilotage des établissements secondaires français (Implementation of a System of Indicators for the Steering of French Secondary Schools)" (Jean-Calude Emin); and (11) "Interpretation and Use of Education Indicators" (Erik Wallin). Each chapter contains references. (Contains 2 boxes, 17 figures, and 19 tables.) (SLD)

Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments-assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning. Knowing What Students Know essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to

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assessment. These advances suggest ways that the targets of assessment-what students know and how well they know it-as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored. With the promise of a productive research-based approach to assessment of student learning, *Knowing What Students Know* will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates.

This report serves as the background report to the third Global Education Industry Summit which was held on 25-26 September 2017 in Luxembourg.

Because of the role of innovation as a driver of economic productivity and growth and as a mechanism for improving people's well-being in other ways, understanding the nature, determinants, and impacts of innovation has become increasingly important to policy makers. To be effective, investment in innovation requires this understanding, which, in turn, requires measurement of the underlying inputs and subsequent outcomes of innovation processes. In May 2016, at the request of the National Center for Science and Engineering Statistics of the National Science Foundation, the Committee on National Statistics of the National Academies of Sciences, Engineering, and Medicine convened a workshop - bringing together academic researchers, private and public sector experts, and representatives from public policy agencies - to develop strategies for broadening and modernizing innovation information systems. This publication summarizes the presentation and discussion of the event. Measuring innovation is a challenging task, both for researchers and for national statisticians,

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and it is increasingly important in light of the ongoing digital revolution. National accounts and many other economic statistics were designed before the emergence of the digital economy and the growth in importance of intangible capital. They do not yet fully capture the wide range of innovative activity that is observed in modern economies. This volume examines how to measure innovation, track its effects on economic activity and on prices, and understand how it has changed the structure of production processes, labor markets, and organizational form and operation in business. The contributors explore new approaches to and data sources for measurement, such as collecting data for a particular innovation as opposed to a firm and using trademarks for tracking innovation. They also consider the connections between university-based R&D and business start-ups and the potential impacts of innovation on income distribution. The research suggests strategies for expanding current measurement frameworks to better capture innovative activity, including developing more detailed tracking of global value chains to identify innovation across time and space and expanding the measurement of innovation's impacts on GDP in fields such as consumer content delivery and cloud computing.

Educational Research and Innovation Measuring Innovation in Education 2019 What Has Changed in the Classroom? What Has Changed in the Classroom? OECD Publishing
This report highlights key issues to facilitate understanding of how a systemic approach to technology-based school innovations can contribute to quality education for all while promoting a more equal and effective education system.

An approach to performance-based assessments that embeds assessments in digital games in order to measure how students are progressing toward targeted goals. To succeed in today's

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interconnected and complex world, workers need to be able to think systemically, creatively, and critically. Equipping K-16 students with these twenty-first-century competencies requires new thinking not only about what should be taught in school but also about how to develop valid assessments to measure and support these competencies. In *Stealth Assessment*, Valerie Shute and Matthew Ventura investigate an approach that embeds performance-based assessments in digital games. They argue that using well-designed games as vehicles to assess and support learning will help combat students' growing disengagement from school, provide dynamic and ongoing measures of learning processes and outcomes, and offer students opportunities to apply such complex competencies as creativity, problem solving, persistence, and collaboration. Embedding assessments within games provides a way to monitor players' progress toward targeted competencies and to use that information to support learning. Shute and Ventura discuss problems with such traditional assessment methods as multiple-choice questions, review evidence relating to digital games and learning, and illustrate the stealth-assessment approach with a set of assessments they are developing and embedding in the digital game *Newton's Playground*. These stealth assessments are intended to measure levels of creativity, persistence, and conceptual understanding of Newtonian physics during game play. Finally, they consider future research directions related to stealth assessment in education.

"The challenges facing agriculture are plenty. Along with the world's growing population and diminishing amounts of water and arable land, the gradual increase in severe weather presents new challenges and imperatives for producing new, more resilient crops to feed a more crowded planet in the twenty-first century. Innovation has historically helped agriculture keep

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pace with earth's social, population, and ecological changes. In the last 50 years, mechanical, biological, and chemical innovations have more than doubled agricultural output while barely changing input quantities. The ample investment behind these innovations was available because of a high rate of return: a 2007 paper found that the median ROI in agriculture was 45 percent between 1965 and 2005. This landscape has changed. Today many of the world's wealthier countries have scaled back their share of GDP devoted to agricultural R&D amid evidence of diminishing returns. Universities, which have historically been a major source of agricultural innovation, increasingly depend on funding from industry rather than government to fund their research. As Upton Sinclair wrote of the effects industry influences, "It is difficult to get a man to understand something when his salary depends upon his not understanding it." In this volume of the NBER Conference Report series, editor Petra Moser offers an empirical, applied-economic framework to the different elements of agricultural R&D, particularly as they relate to the shift from public to private funding. Individual chapters examine the sources of agricultural knowledge and investigate challenges for measuring the returns to the adoption of new agricultural technologies, examine knowledge spillovers from universities to agricultural innovation, and explore interactions between university engagement and scientific productivity. Additional analysis of agricultural venture capital point to it as an emerging and future source of resource in this essential domain"--

Higher education is a linchpin of the American economy and society: teaching and research at colleges and universities contribute significantly to the nation's economic activity, both directly and through their impact on future growth; federal and state governments support teaching and research with billions of taxpayers' dollars; and individuals, communities, and the nation gain

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from the learning and innovation that occur in higher education. In the current environment of increasing tuition and shrinking public funds, a sense of urgency has emerged to better track the performance of colleges and universities in the hope that their costs can be contained without compromising quality or accessibility. Improving Measurement of Productivity in Higher Education presents an analytically well-defined concept of productivity in higher education and recommends empirically valid and operationally practical guidelines for measuring it. In addition to its obvious policy and research value, improved measures of productivity may generate insights that potentially lead to enhanced departmental, institutional, or system educational processes. Improving Measurement of Productivity in Higher Education constructs valid productivity measures to supplement the body of information used to guide resource allocation decisions at the system, state, and national levels and to assist policymakers who must assess investments in higher education against other compelling demands on scarce resources. By portraying the productive process in detail, this report will allow stakeholders to better understand the complexities of--and potential approaches to--measuring institution, system and national-level performance in higher education.

'A great book to understand and foster innovation at all levels: a truly innovative piece of work.' Enrico Giovannini, Minister of Labour and Social Policies, Italy 'This book brings together original contributions from world leading experts on innovation indicators and is unique in several respects. First, the focus is upon innovation in terms of commercialized products and processes and not on secondary indicators of research or patenting. Second, it combines academic perspectives with user perspectives from industry and international organizations. Third, it strikes a good balance between old and new indicators, opening up new dimensions of

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innovation for measuring. It is a book worth reading for scholars studying innovation, for policy makers and, not least, for innovation managers in the private sector.' Bengt-Åke Lundvall, Aalborg University, Denmark and Sciences-Po, Paris, France This Handbook comprehensively examines indicators and statistical measurement related to innovation (as defined in the OECD/Eurostat Oslo Manual). It deals with the development and the use of innovation indicators to support decision-making and is written by authors who are practitioners, who know what works and what does not, in order to improve the development of indicators to satisfy future policy needs. This unique volume presents: the historical and geographical context for innovation indicators and measurement practical examples of how measurement is actually undertaken new areas of innovation indicators and measurement, including consumer innovation, public sector innovation and social innovation. This informative Handbook will appeal to policy makers in government departments, statistical offices and research institutes and international organizations such as the EU, OECD and the UN, as well as university departments of economics, sociology, law, science and technology, and public policy. This report explores the association between school innovation and different measures related to educational objectives.

The Routledge International Handbook of Innovation Education is the international reference work on innovation education and potentially opens an entirely new direction in education. The overall goal of the handbook is to address the question of how to develop innovators in general and how to develop the innovative potential of today's young people with exceptional talents in science, technology, engineering, and maths (STEM) disciplines in particular. Today many governments around the world are interested in the development of STEM innovators. This

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handbook provides the first and most comprehensive account available of what should be done in order to develop innovators and how to do it successfully. It includes chapters by leading specialists from around the world responsible for much of the current research in the fields of innovation, gifted education, scientific talent, science education, and high ability studies. Based on the latest research findings and expert opinion, this book goes beyond mere anecdotes to consider what science can tell us about the development of innovators. By enlisting chapters from innovation experts, educators, psychologists, policy makers, and researchers in the field of management The Routledge International Handbook of Innovation Education will allow all of these scholars to speak to each other about how to develop innovators via innovation education, including such issues as: the nature of innovation education, its basis, main components and content, its criteria and specificity in various domains and contexts, societal demands placed upon it. This ground-breaking and potentially field defining work will thus serve as the first authoritative resource on all aspects of theory, research, and practice of innovation education.

Across OECD countries, almost one in every five students does not reach a basic minimum level of skills. This book presents a series of policy recommendations for education systems to help all children succeed.

Artificial intelligence (AI) and robotics are major breakthrough technologies that are transforming the economy and society. The OECD's Artificial Intelligence and the Future of Skills (AIFS) project is developing a programme to assess the capabilities of AI and robotics, and their impact on education and work.

This book brings together the lessons of research on both the nature of learning

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and different educational applications, and it summarises these as seven key concluding principles.

Using data from PISA 2006, this book analyzes to what extent investments in technology enhance educational outcomes. It finds that beyond access to technology, competence in using the technology is also needed for success. Measuring innovation in education and understanding how it works is essential to improve the quality of the education sector. Monitoring systematically how pedagogical practices evolve would considerably increase the international education knowledge base. We need to examine whether, and how, practices are changing within classrooms and educational organisations and how students use learning resources. We should know much more about how teachers change their professional development practices, how schools change their ways to relate to parents, and, more generally, to what extent change and innovation are linked to better educational outcomes. This would help policy makers to better target interventions and resources, and get quick feedback on whether reforms do change educational practices as expected. This would enable us to better understand the role of innovation in education. This new edition of Measuring Innovation in Education examines what has (or has not) changed for students over the past decade in OECD education systems. It reviews no fewer than 150

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educational practices. The report casts light on systemic innovation in primary and secondary education, with a focus on pedagogical innovation. Has the use of technology spread? Have assessments become more important in pedagogical practices? Are students given more agency in their learning? Are they still asked to memorise facts and procedures? Do teachers increasingly engage students in peer learning activities? These are some of the questions this book seeks to answer. This report also presents some preliminary findings about the links between innovation and educational performance. This book will offer precious insights to policy makers, the education community and all those who seek to understand how educational practices are evolving.

Since the 1950s, under congressional mandate, the U.S. National Science Foundation (NSF) - through its National Center for Science and Engineering Statistics (NCSES) and predecessor agencies - has produced regularly updated measures of research and development expenditures, employment and training in science and engineering, and other indicators of the state of U.S. science and technology. A more recent focus has been on measuring innovation in the corporate sector. NCSES collects its own data on science, technology, and innovation (STI) activities and also incorporates data from other agencies to produce indicators that are used for monitoring purposes - including comparisons

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among sectors, regions, and with other countries - and for identifying trends that may require policy attention and generate research needs. NCSES also provides extensive tabulations and microdata files for in-depth analysis. Capturing Change in Science, Technology, and Innovation assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators of STI activities that would enable NCSES to respond to changing policy concerns. This report also identifies and assesses both existing and potential data resources and tools that NCSES could exploit to further develop its indicators program. Finally, the report considers strategic pathways for NCSES to move forward with an improved STI indicators program. The recommendations offered in Capturing Change in Science, Technology, and Innovation are intended to serve as the basis for a strategic program of work that will enhance NCSES's ability to produce indicators that capture change in science, technology, and innovation to inform policy and optimally meet the needs of its user community.

Pedagogy is at the heart of teaching and learning. Preparing young people to become lifelong learners with a deep knowledge of subject matter and a broad set of social skills requires a better understanding of how pedagogy influences learning. Focusing on pedagogies shifts the perception of ...

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OECD's Innovation Strategy calls upon all sectors in the economy and society to innovate in order to foster productivity, growth and well-being. Education systems are critically important for innovation through the development of skills that nurture new ideas and technologies.

This book analyses systemic innovation in education by looking at the ways in which educational systems encourage innovation, the knowledge base and processes used, and the procedures and criteria used to assess progress and evaluate outcomes.

Education is the key to economic, social and environmental progress, and governments around the world are looking to improve their education systems. Measuring Innovation is a major step towards evidence-based innovation policy making. It complements traditional "positioning"-type indicators with ones that show how innovation is, or could be, linked to policy.

Innovation in higher education is a process of institutional adaptation to changes in the environment that enables higher education institutions to improve their existing practice and to be innovative at different levels and in different forms. Moreover, innovativeness is also related to internal characteristics of higher education institutions. Innovation in higher education can be observed as a result of the changing contexts in which higher education institutions function.

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Adjacently, a comprehensive approach to considering innovativeness is needed in order to enable the examination of different elements of innovativeness in higher education, that is, to identify the key factors that (de)stimulate innovations and affect their interactions with other relevant stakeholders at the national level and beyond. The Handbook of Research on Enhancing Innovation in Higher Education Institutions is a critical scholarly book that examines innovativeness in higher education and its complications and diversity. Starting from the view that higher education is currently confronted by global forces that require new research ideas, the publication suggests that comprehensive understanding of innovativeness is imperative for higher education's institutions in the 21st century. Analyzing the recognized trends within the publication and concluding which aspects should be taken to improve innovativeness in higher education, this reference book outlines quality and innovation in teaching, innovative university-business cooperation, institutional framework and governance of higher education institutions, knowledge management, and leadership and organizational culture. It is ideal for curriculum designers, administrators, researchers, policymakers, academicians, professionals, and students. This book is about measuring innovation, not just in the business sector but in every sector of the economy, using, for the first time, an internationally agreed

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general definition of innovation. The resulting indicators can be used to inform policy development, and offer a better understanding of the impact of the innovation policy of governments, the strategy of businesses and the practice of households, in a more digital economy. Innovation is a systems phenomenon and systems provide a structure throughout the book.

'The Impact of School Infrastructure on Learning: A Synthesis of the Evidence provides an excellent literature review of the resources that explore the areas of focus for improved student learning, particularly the aspiration for “accessible, well-built, child-centered, synergetic and fully realized learning environments.†? Written in a style which is both clear and accessible, it is a practical reference for senior government officials and professionals involved in the planning and design of educational facilities, as well as for educators and school leaders. --Yuri Belfali, Head of Division, Early Childhood and Schools, OECD Directorate for Education and Skills This is an important and welcome addition to the surprisingly small, evidence base on the impacts of school infrastructure given the capital investment involved. It will provide policy makers, practitioners, and those who are about to commission a new build with an important and comprehensive point of reference. The emphasis on safe and healthy spaces for teaching and learning is particularly welcome. --Harry Daniels, Professor of

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Education, Department of Education, Oxford University, UK This report offers a useful library of recent research to support the, connection between facility quality and student outcomes. At the same time, it also points to the unmet need for research to provide verifiable and reliable information on this connection. With such evidence, decisionmakers will be better positioned to accurately balance the allocation of limited resources among the multiple competing dimensions of school policy, including the construction and maintenance of the school facility.

--David Lever, K-12 Facility Planner, Former Executive Director of the Interagency Committee on School Construction, Maryland Many planners and designers are seeking a succinct body of research defining both the issues surrounding the global planning of facilities as well as the educational outcomes based on the quality of the space provided. The authors have finally brought that body of evidence together in this well-structured report. The case for better educational facilities is clearly defined and resources are succinctly identified to stimulate the dialogue to come. We should all join this conversation to further the process of globally enhancing learning-environment quality! --David Schrader, AIA, Educational Facility Planner and Designer, Former Chairman of the Board of Directors, Association for Learning Environments (A4LE)

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