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There is a great need to strengthen land-use planning in ape-range states, to improve the management of protected areas and to design more sustainable infrastructure. Near-term trends are alarming, with China leading infrastructure schemes in Asia, Africa and Europe, with a focus on extractive industries like mineral, oil and timber exploitation.

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Sustainable Infrastructure • Financing is available for construction, operation, maintenance, expansion, and renewal • Social and economic benefits are sufficient for society to support continued operations and expansion • Environmental impacts are limited, and the necessary resources are available

Sustainable Infrastructure: Project Evaluation for ...

Toward More Sustainable Infrastructure: Project Evaluation for Planners and Engineers provides readers a framework for understanding and evaluating infrastructure projects to improve their performance and sustainability, taking into account not only the financial and economic issues, but also the social and environmental impacts that affect the sustainability of infrastructure.

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The Sustainable Development Goals (SDGs) or Global Goals are a collection of 17 interlinked goals designed to be a "blueprint to achieve a better and more sustainable future for all". The SDGs were set in 2015 by the United Nations General Assembly and are intended to be achieved by the year 2030. They are included in a UN Resolution called the 2030 Agenda or what is colloquially known as ...

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Sustainable Development Goals - Wikipedia

Furthermore, FPT Industrial, IVECO and Snam plan to collaborate on sustainable mobility projects in the field of local public transport and public utility. Within this context, further initiatives combining engagement and advocacy with institutions at a regional, national and European level will aim to facilitate the expansion of sustainable mobility solutions based on natural gas and hydrogen.

Toward More Sustainable Infrastructure: Project Evaluation for Planners and Engineers provides readers a framework for understanding and evaluating infrastructure projects to improve their performance and sustainability, taking into account not only the financial and economic issues, but also the social and environmental impacts that affect the sustainability of infrastructure. Based on a course designed developed by the author over ten years at M.I.T., this text demonstrates how to apply the basic methods of engineering economics in evaluating major infrastructure projects and also demonstrates how these same techniques can be useful with many routine business and personal decisions. It introduces students to project management, system performance, concepts of sustainability, methods of engineering economics, and provides numerous case studies, examples, and exercises based upon real world problems. This text fills a void in the education of many planners and engineering students, namely an understanding of why major infrastructure projects are undertaken, how they are structured and evaluated, and how they are financed. Toward More Sustainable Infrastructure: Project Evaluation for Planners and Engineers prepares readers to evaluate projects based upon an appreciation of the needs of society, the potential for sustainable development, and recognition of the problems that may result from poorly conceived or poorly implemented projects and programs.

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This book examines complex challenges in managing major strategic economic and social infrastructure projects. It is divided into four primary themes: value-based approach to infrastructure systems appraisal, enabling planning and execution, financing and contracting strategies for infrastructure systems and digitising major infrastructure delivery. Within these four themes, the chapters of the book cover: the value and benefits of infrastructure projects planning for resilient major infrastructure projects sustainable major infrastructure development and management, including during mega events improving infrastructure project financing stakeholder engagement and multi-partner collaborations delivering major infrastructure projects effectively and efficiently whole-life-cycle performance, operations and maintenance relationship risks on major infrastructure projects public-private partnerships, design thinking principles, and innovation and technology. By drawing on insights from their research, the editors and contributors bring a fresh perspective to the transformation of major strategic infrastructure projects. This text is designed to help policymakers and investors select and prioritise their infrastructure needs beyond the constraining logic of political cycles. It offers a practical set of recommendations for

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governments on attracting private capital for infrastructure projects while creating clear social and economic value for their citizens. Through theoretical underpinning, empirical data and in-depth informative global case studies, the book presents an essential resource for students, researchers, practitioners and policymakers interested in all aspects of strategic infrastructure planning, project management, construction management, engineering and business management.

As more factors, perspectives, and metrics are incorporated into the planning and building process, the roles of engineers and designers are increasingly being fused together. Sustainable Infrastructure explores this trend with in-depth look at sustainable engineering practices in an urban design as it involves watershed master-planning, green building, optimizing water reuse, reclaiming urban spaces, green streets initiatives, and sustainable master-planning. This complete guide provides guidance on the role creative thinking and collaborative team-building play in meeting solutions needed to affect a sustainable transformation of the built environment.

The continued growth of any nation depends largely on the development of their built infrastructures and communities. By creating stable infrastructures, countries can more easily thrive in competitive international markets. Sustainable Infrastructure: Breakthroughs in Research and Practice examines sustainable development through the lens of transportation, waste management, land use planning, and governance. Highlighting a range of topics such as sustainable development, transportation planning, and regional and urban infrastructure planning, this publication is an ideal reference source for engineers, planners, government officials, developers, policymakers, legislators, researchers, academicians, and graduate-level students seeking current research on the latest trends in sustainable infrastructure.

Sustainable Construction Technologies: Life-Cycle Assessment provides practitioners with a tool to help them select technologies that are financially advantageous even though they have a higher initial cost. Chapters provide an overview of LCA and how it can be used in conjunction with other indicators to manage construction. Topics covered include indoor environment quality, energy efficiency, transport, water reuse, materials, land use and ecology, and more. The book presents a valuable tool for construction professionals and researchers that want to apply sustainable construction techniques to their projects. Practitioners will find the international case studies and discussions of worldwide regulation and standards particularly useful. Provides a framework for analyzing sustainable construction technologies and economic viability Introduces key credit criteria for different sustainable construction technologies Covers the most relevant construction areas Includes technologies that can be employed during the process of construction, or to the product of the

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construction process, i.e. buildings Analyzes international rating systems and provides supporting case studies

In a world on the brink of a global recession caused by the COVID-19 global pandemic, the infrastructure efforts of today and tomorrow are more crucial than ever. For one, they are an indispensable countercyclical tool to mitigate the negative effects of the economic paralysis. But they also constitute a pivotal component for a country's development, raising its competitiveness in the long term. That is why infrastructure will continue to play a critical role even when the pandemic crisis has been tamed. Rapid demographic growth, increasing urbanization, especially in developing countries, coupled with the mounting challenge posed by climate change, are trends that are not going to disappear with the virus. How to cope with these global, long-term trends? How to finance the increasing need for infrastructure? Which major international actors will take the lead? And what role will technology play in shaping the future of infrastructure?

This edited collection brings together leading theoretical and applied research with the intent to design a sustainable global financial future. The contributors argue that our world cannot move toward sustainability, address climate change, reverse environmental degradation, and improve human well-being without aligning the financial system with sustainable development goals like those outlined by the United Nations. Such a system would: a) be environmentally and socially responsible; b) align with planetary boundaries; c) manage natural resources sustainably; d) avoid doing more harm than good; and e) be resilient and adaptable to changing conditions. The overarching theme in this collection of chapters is a response to the worldwide, supranational sustainable finance discussions about how we can transition to a new socio-ecological system where finance, human well-being, and planetary health are recognized as being highly intertwined.

Construction Project Management provides a thorough understanding of construction project management techniques with the help of various concepts, practical insight, real-life examples and skills to execute large and small projects. Broadly, this comprehensive book is organized in 5 parts: ? Introducing Construction Project Management ? Developing Project Construction Time Schedule ? Developing Project Resources Plans ? Planning and Budgeting Construction Costs ? Controlling Project Construction Plan Focusing on project planning, scheduling and controlling techniques, the 3rd Edition covers the practical application of the knowledge and skills required to plan and control construction project scope, time, resources, cost, risk and integration using project management technique.

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