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Most of the papers of this book were presented in the "IGU-LUCC 2003 Moscow Workshop on Global and Regional Land Use/Cover Changes" and at International Conference "Society and Environment Interaction Under Global and Regional Changes" which was held in Barnaul (Altai), Russia in summer 2003. Published in collaboration with the Consensus Building Institute, this book calls for a mutual gains approach to land disputes. The authors detail techniques that allow stakeholders with conflicting interests to collaborate, voice concerns constructively, and reach successful agreements that benefit all parties involved in zoning, planning, and development. This book reconciles competing and sometimes contradictory forms of land use, while also promoting sustainable land use options. It highlights land use planning, spatial planning, territorial (or regional) planning, and ecosystem-based or environmental land use planning as tools that strengthen land governance. Further, it demonstrates how to use these types of land-use planning to improve economic opportunities based on sustainable management of land resources, and to develop land use options that strike a balance between conservation and development objectives. Competition for land is increasing as demand for multiple land uses and ecosystem services rises. Food security issues, renewable energy and emerging carbon markets are creating pressures for the conversion of agricultural land to other uses such as reforestation and biofuels. At the same time, there is a growing demand for land in connection with urbanization and recreation, mining, food production, and biodiversity conservation. Managing the increasing competition between these services, and balancing different stakeholders' interests, requires efficient allocation of land resources. This Encyclopedia of Land Use, Land Cover and Soil Sciences is a component of the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Land is one of our most precious assets. It represents space, provides food and shelter, stores and filters water, and it is a base for urban and industrial development, road construction, leisure and many other social activities. Land is, however not unlimited in extent, and even when it is physically available its use is not necessarily free, either because of natural limitations (too cold, too steep, too wet or too dry, etc.) or because of constraints of access or land tenure. This 7-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It carries state-of-the-art knowledge in the fields of Land Use, Land Cover and Soil Sciences and is aimed, by virtue of the several applications, at the following five major target audiences: University

and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs. "Modeling the Dynamics and Consequences of Land System Change" introduces an innovative three-tier architecture approach for modeling the dynamics and consequences of land system change. It also describes the principle, modules and the applications of the three-tier architecture model in detail. The approach holds strong potential for accurate predictions of the land use structure at the regional level, simulating the land use pattern at pixel level and evaluating the consequences of land system change. The simulation results can be used for the planning of land use, urban development, regional development, environmental protection, and also serve as valuable information for decision making concerning land management and optimal utilization of land resources. The book is intended for the researchers and professionals in land use or land systems, regional environmental change, ecological conservation, as well as the land resource administrative agencies and environmental protection agencies. Professor Xiangzheng Deng is a senior research fellow at the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China. Transportation, Land Use, and Environmental Planning examines the practices and policies linking transportation, land use and environmental planning needed to achieve a healthy environment, thriving economy, and more equitable and inclusive society. It assesses best practices for improving the performance of city and regional transportation systems, looking at such issues as public transit and non-motorized travel investments, mixed use and higher density urban development, radically transformed vehicles, and transportation systems. The book lays out the growing need for greater integration of transportation, land use, and environmental planning, looking closely at changing demographic needs, public health concerns, housing affordability, equity, and livability. In addition, strategies for achieving these desired outcomes are presented, including urban design and land use planning, regional and corridor-level transit plans, bike and pedestrian improvements, demand management strategies, and emerging technologies and services. The final part of the book examines implementation challenges, considering lessons from the US and around the globe at both local and regional levels. Introduces never-before-published research Offers best practices for transit, cycling, urban design and housing provision Assesses emerging developments, such as smart cities, new vehicle technologies, automated highways and transportation sharing Examines the institutional and political dimensions of sustainability planning at the urban and regional levels Utilizes case studies from around the world that show alternative ways forward Land use and land cover (LULC) as well as its changes (LUCC) are an interplay between bio-geophysical characteristics of the landscape and climate as well as the complex human interaction including its different patterns of utilization superimposed on the natural vegetation. LULC is a core information layer for a variety of scientific and administrative tasks(e.g. hydrological modelling, climate models, land use planning).In particular in the context of climate change with its impacts on socio-economic, socio-ecologic systems as well as ecosystem services precise information on LULC and LUCC are mandatory baseline datasets required over large areas. Remote sensing can provide such information on different levels of detail and in a homogeneous and reliable way. Hence, LULC mapping can be regarded as a prototype for integrated approaches based on spaceborne and airborne remote sensing techniques combined with field observations. The book provides for the first time a comprehensive view of various LULC activities focusing on European initiatives, such as the LUCAS surveys, the CORINE land covers, the ESA/EU GMES program and its resulting Fast-Track- and Downstream Services, the EU JRC Global Land Cover, the ESA GlobCover project as well as the ESA initiative on Essential Climate Variables. All have and are producing highly appreciated land cover products. The book will cover the operational approaches, but also review current state-of-the-art scientific methodologies and recommendations for this field. It opens the view with best-practice examples that lead to a view that exceeds pure mapping, but to investigate into drivers and causes as well as future projections. Comprehensive exploration of how land use interacts with the atmosphere and carbon cycle, for advanced students, researchers and policy makers. This book presents the spatial and temporal dynamics of land use and land cover in the central Tibetan Plateau during the last two decades, based on various types of satellite data, long-term field investigation and GIS techniques. Further, it demonstrates how remote sensing can be used to map and characterize land use, land cover and their dynamic processes in mountainous regions, and to monitor and model relevant biophysical parameters. The Tibetan Plateau, the highest and largest plateau on the Earth and well known as “the roof of the world,” is a huge mountainous area on the Eurasian continent and covers millions of square kilometers, with an average elevation of over 4000 m. After providing an overview of the background and an introduction to land use and land cover change, the book analyzes the current land use status, dynamic changes and spatial distribution patterns of different land-use types in the study area, using various types of remotely sensed data, digital elevation models and GIS spatial analysis methods to do so. In turn, it discusses the main driving forces, based on the main physical environment variables and socioeconomic data, and provides a future scenario analysis of land use change using a Markov chain model. Given its scope, it provides a valuable reference guide for researchers, scientists and graduate students working on environmental change in mountainous regions around the globe, and for practitioners working at government and non-government agencies. This book discusses the impact of climate change, land use and land cover, and socio-economic dynamics on landslides in Asian countries. Scholars recently have brought about a shift in their focus regarding triggering factors for landslides, from rainfall or earthquake to claiming rapid urbanization, extreme population pressure, improper land use planning, illegal hill cutting for settlements and indiscriminate deforestation. This suggests that the occurrence or probabilities of landslides are shaped by both climate-related and non-climate-related anthropogenic factors. Among these issues, land use and land cover change or improper land use planning is one of the key factors. Further climate change shapes the rainfall pattern and intensity in different parts of the world, and consequently rainfall-triggered landslides have increased. These changes cause socio-economic changes. Conversely, socio-economic and lifestyle changes enhance inappropriate land use and climate change. All these changes in land use, climate and socio-economic aspects are dynamics in nature and shape landslide risks in Asian countries, where they are given serious attention by governments, disaster management professionals, researchers and academicians. This book comprises 21 chapters divided into three major sections highlighting the effect of climate change on landslide incidence with the influence on vegetation and socio-economic aspects. The sections address how climate change and extreme events have triggered landslides. The advances in geospatial techniques with the focus on land use and land cover change along with the effect on socio-economic aspects are also explored. This book is a major contribution to the debate on future land development strategies, as well as helping to supporting land use decision making at all levels. Scientists from across Europe installed the Landscape Tomorrow network to prepare for upcoming challenges in research on sustainable land development. The book’s interdisciplinary perspective analyses, among other things, the general principles of land use multifunctionality and reports on a variety of success stories. Population, Land Use, and Environment: Research Directions offers recommendations for future research to improve understanding of how changes in human populations affect the natural environment by means of changes in land use, such as deforestation, urban development, and development of coastal zones. It also features a set of state-of-the-art papers by leading researchers that analyze population-land useenvironment relationships in urban and rural settings in developed and underdeveloped countries and that show how remote sensing and other observational methods are being applied to these issues. This book will serve as a resource for researchers, research funders, and students. The patterns of land use that have evolved in Europe reflect the boundaries set by the natural environment and socio-economic responses to the needs of the population. Over the centuries man has been able to overcome increasingly the constraints placed on land use by the natural environment through the development of new technologies and innovations, driven by an increasing population and rising material expectations. However, activities are still ultimately constrained by natural limitations such as climatic characteristics and associated edaphic and vegetational features. A major problem for land management, in its broadest sense, can be a reluctance to foresee the consequent ecological changes. This means that mitigating strategies will not be implemented in time to prevent environmental degradation and social hardship, although in many parts of Europe, over some centuries, demands have been met in a sustainable way, by sound, prudent and temperate expectations that have dictated management regimes. The management of land in Europe has always been a complex challenge: land is the primary, though finite resource. DeciSions regarding the use of land and manipulation of ecosystem dynamics today may affect the long-term primary productivity of the resource. Decisions to change land use may be virtually irreversible; urbanization is an illustration of the influence of population

density on the land resource. Filling the need for a comprehensive book that covers both theory and application, Remote Sensing of Land Use and Land Cover: Principles and Applications provides a synopsis of how remote sensing can be used for land-cover characterization, mapping, and monitoring from the local to the global scale. With contributions by leading scientists from aro Across Europe, land is constantly the subject of enormous and widely varied pressures. The land we have is shrinking in area due to numerous reasons, including those that are directly related to climate change and migration. In fact all disciplines that have responsibilities for the husbandry use, management, and administration of the land are forced to address the problems of how to plan and how to utilise this increasingly valuable resource. The papers contained within this book emerge from two symposia held in 2014 and 2015, which now have been arranged along four general themes reflecting the multi-disciplinary nature of the disciplines concerned with land. The first part is dedicated to the interpretation of key terms in their context and the dissimilar conceptual approaches in the governance of different states. It is followed by papers that identify the process of decision-taking: how to organize and co-operate. One large section addresses the identification of land pattern changes and the reason for it. The papers in the final cluster deal with the general theme of strategies and measures used to steer future evolution in land policies. The publication addresses various needs that have to be balanced: the tasks of living space in the face of societal and demographic changes, infrastructure supply, challenges of an increasingly urbanised region, food production, ‘green energy’, natural hazards, habitats and cultural landscapes protection. This volume is a synthesis of the NASA funded work under the Land-Cover and Land-Use Change Program. Hundreds of scientists have worked for the past eight years to understand one of the most important forces that is changing our planet-human impacts on land cover, that is land use. Its contributions span the natural and the social sciences, and apply state-of-the-art techniques for understanding the earth: satellite remote sensing, geographic information systems, modeling, and advanced computing. It brings together detailed case studies, regional analyses, and globally scaled mapping efforts. This is the most organized effort made to understand the dominant force that has been responsible for changing the Earth’s biosphere. Audience: This publication will be of interest to students, scientists, and policy makers. This volume includes a CD-ROM containing full color images of a selection of illustrations which are printed in black-and-white in the book. Mapping and Forecasting Land Use: The Present and Future of Planning is a comprehensive reference on the use of technologies to map land use, focusing on GIS and remote sensing applications and methodologies for land use monitoring. The book addresses transversal topics such as urbanization, biodiversity loss, climate change, ecosystem services, and participatory planning, with pros and cons of a variety of aerial technologies in mapping and land use. The book has specifically been developed with a multidisciplinary approach in mind and provides opinions and evidence from leading researchers working in academic institutions across the globe. The second half of the book moves from theory and research advancement into case studies, compiling global examples to provide real-world context and evidence of the techniques and applications. Mapping and Forecasting Land Use: The Present and Future of Planning is a useful guide for graduates, academics and researchers in the fields of geography, geographic information science and land use science, who want to effectively apply GIS and remote sensing capabilities to mapping or wider land studies. Researchers in Geosciences, Environmental Science and Agriculture will also find this of value in utilizing 21st century technologies to their field. Provides a guide to land use mapping technologies including GIS and remote sensing Covers a wide field of interdisciplinary subjects related to GIS applications in land use Features global case studies alongside exploring theory and current research in the field The intensive increase in land use change is considered both a source of richness and a serious problem to landscape sustainability. In this scenario, although land use change plays a very important role for societal development, the impact of land use changes on economic, social, and ecological functions requires special attention. The new environmental paradigms associated with globalization and progressive climate change will certainly intensify the entropy and the instability in most of the existing land-uses. In this regard, this book aims to highlight a body of knowledge related to the discussion of the opportunities and challenges associated with the development of new sustainable landscapes, considering current and future challenges related to land-use changes and planning. This book contributes to broadening the interdisciplinary knowledge basis for the description, analysis and assessment of land use practices. It presents conceptual advances grounded in empirical case studies on four main themes: distal drivers, competing demands on different scales, changing food regimes and land-water competition. Competition over land ownership and use is one of the key contexts in which the effects of global change on social-ecological systems unfold. As such, understanding these rapidly changing dynamics is one of the most pressing challenges of global change research in the 21st century. This book contributes to a deeper understanding of the manifold interactions between land systems, the economics of resource production, distribution and use, as well as the logics of local livelihoods and cultural contexts. It addresses a broad readership in the geosciences, land and environmental sciences, offering them an essential reference guide to land use competition. This book provides a full overview of land-use change simulation modelling, a wide range of applications, a mix of theory and practice, a synthesis of recent research progress, and educational material for students and teachers. This volume is an indispensable guide for anyone interested in the state-of-the-art of land-use modelling, its background and its application. Land resources in the country are limited and are declining due to increasing population, land degradation and land conversions. Today, the availability of information on land use/land cover in the form of thematic maps, records and statistical figures are inadequate and are not up to date on the changing land use patterns and processes. The national Conference on land Use/land Cover & Management practices, while recognizing the importance of two way relationships between Land Use/Land Cover change and the land Management Practices, believe dire need for generating valuable actions (i) data information & monitoring systems, (ii) land Use change processes and their measurements (iii) Land use management plans and their impacts and (iv) Capability building and institutional arrangements. Poor land management has degraded vast amounts of land, reduced our ability to produce enough food, and is a major threat to rural livelihoods in many developing countries. This book provides a thorough analysis of the multifaceted impacts of land use on soils. Abundantly illustrated with full-color images, it brings together renowned academics and policy experts to analyze the patterns, driving factors and proximate causes, and the socioeconomic impacts of soil degradation. Urban Transport and Land Use Planning: A Synthesis of Global Knowledge, Volume Nine in the Advances in Transport Policy and Planning series assesses practices and policies from around the world. Chapters in this updated release include TOD and travel behavior research: A bibliographical review, Mass transit investments and land use in Latin America: A review of recent developments and research findings, TODness and its impacts on TOD performance, Corridor and networked TODs: Concept and planning support tools, Rail-centered accessibility: Concept, policy, and practice, Smart growth and travel behavior: A synthesis, Advances in integrated land use transport modeling, and much more. Other sections cover Residential self-selection in the relationship between the built environment and travel behavior: a literature review and research agenda, Threshold and synergistic effects in land use-travel research, Parking requirements: How land use policy acts as transport policy, The shifting coalition for transportation/land-use policy reform, and Compact urban development in Norway: Spatial changes and underlying policies. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Transport Policy and Planning series This work analyzes the effects of one of the most dramatic changes of entire societies that the world has ever witnessed. It explores the collapse of socialist governance and management systems on land cover and land use in various parts of Eastern Europe. As readers will discover, this involved rapid and unprecedented changes such as widespread agricultural abandonment. Changes in the countries of the former Soviet block, former Soviet Union republics, and European Russia are compared and contrasted. Contributing authors cover topics such as the carbon cycle and the environment, effects of institutional changes on urban centers and agriculture, as well as changes in wildlife populations. The volume includes analysis of the drivers of agricultural land abandonment, forest changes in Black Sea region, an extreme drought event of 2010, impacts of fires on air quality and other land-cover/land-use issues in Eastern Europe. Satellite data used were mostly from optical sensors including night lights observations, with both coarse and medium spatial resolution. Ultimately, this work highlights the importance of understanding socioeconomic shocks: that is, those brief periods during which societies change rapidly resulting in significant impact on land use and the environment. Thus it shows that change is often abrupt rather than gradual and thereby much harder to predict. This book is a truly international and interdisciplinary effort, written by a team of scientists from the USA, Europe, and Russia.

It will be of interest to a broad range of scientists at all levels within natural and social sciences, including those studying recent and ongoing changes in Europe. In particular, it will appeal to geographers, environmental scientists, remote sensing specialists, social scientists and agricultural scientists. Land Use and Society is a unique and compelling exploration of interactions among law, geography, history, and culture and their joint influence on the evolution of land use and urban form in the United States. Originally published in 1996, this completely revised, expanded, and updated edition retains the strengths of the earlier version while introducing a host of new topics and insights on the twenty-first century metropolis. This new edition of Land Use and Society devotes greater attention to urban land use and related social issues with two new chapters tracing American city and metropolitan change over the twentieth century. More emphasis is given to social justice and the environmental movement and their respective roles in shaping land use and policy in recent decades. This edition of Land Use and Society by Rutherford H. Platt is updated to reflect the 2000 Census, the most recent Supreme Court decisions, and various topics of current interest such as affordable housing, protecting urban water supplies, urban biodiversity, and "ecological cities." It also includes an updated conclusion that summarizes some positive and negative outcomes of urban land policies to date. Climate and Land Use Impacts on Natural and Artificial Systems: Mitigation and Adaptation provides in-depth information on the linkages between climate change and land use, how they are related, how land use is shifting over time, and the major global regions at risk for climate and land use changes. This comprehensive resource discusses climatic factors and processes that impact natural and artificial systems, as well as the relationship between climate change and both natural and man-made hazards. The book includes case studies and original maps to provide real-life examples of climate change and land use over regions around the globe. In addition, the book presents future perspectives on mitigation and adaptation of the climate change impact. Summarizes current research on land use and climate change Provides future perspectives on climate change using climate models Includes case studies to provide real-life examples from various countries Incorporates high level graphics, images, and maps to support reviews and case studies Thirteen years ago, the first edition of Land-Use Planning for Sustainable Development examined the question: is the environmental doomsday scenario inevitable? It then presented the underlying concepts of sustainable land-use planning and an array of alternatives for modifying conventional planning for and regulation of the development of land. This second edition captures current success stories, showcasing creative, resilient strategies for fundamentally changing the way we alter our landscape. See What’s New in the Second Edition: Explains the relationship between innovative land-use planning and nature’s impartial, inviolate biophysical principles that govern the outcome of all planning Focuses on how decision making that flows from and aligns with nature’s biophysical principles benefits all generations by consciously protecting and maintaining social-environmental sustainability Proposes an alternative framework for municipal comprehensive plans framing the community as a living system Written by two experienced professionals in sustainable development planning, the second edition revisits the successes as well as barriers to progress associated with establishing new community development models, such as EcoMunicipalities. The authors emphasize the necessity and potency of citizen involvement and initiatives. They provide proposals for alternative approaches that rest on lessons from history as well as the research, wisdom, and vision of many individuals and communities whose work they have studied. The book supplies a sturdy platform on which to continually build and innovate progress in sustainable land use planning. The purpose of this book is to introduce land planners to the principles of remote sensing and to the applications remote sensing has to the land planning process. The potential applications to land planning are many and varied. For example, remote sensing techniques, and aerial photography in particular, can provide planners with an overview of their communities they can obtain in no other way. These same techniques can also provide planners with a whole variety of land resource data and have the capability of updating these data on a syste matic basis. Maps, too, can be produced from a combination of remote sensing and cartographic techniques - engineering maps, topographic maps, property maps, and a host of other thematic maps. These maps and the photos from which they are made can be used by planners to explain proposed land use or zoning changes at public meetings. They may also be introduced as evidence in courts of law if later the results of these changes are contested by individual or groups of landowners. Since land planning tends to be conducted at local levels, the discussion in this book focuses on the uses of aerial photography - the most effective tool for small area analysis. The discussion is also directed at those who are not regular users of remote sensing techniques. The book identifies the changing land use pattern and associated environmental and planging problems due to the haphazard urban growth. It is one of the finest demonstrations of utillizations of Satellite Remote Sensing Technology in monitoring and mapping land used and change detection for urban and land use planging. Land Use and Abuse in America is a call to action. It is intended to inspire everyone involved in land transformation from rural to city center -- residents, business leaders, community officials and professionals -- determined to make a difference. In the past, all across America, at every level of geography and at every scale of community, the natural land has been treated harshly and unwisely with adverse consequences. Facing the inevitability of change and growth, and aware of past mishaps, there is urgent need for more insightful planning. As detailed in this book, a vast opportunity exists to do it well going forward. America shows distinct signs of relinquishing its world hegemony in military power, diplomatic influence, and economic solidity. As these transitions occur, we must utilize precious capital and time to improve our approach to new settlement, to upgrading our existing communities and infrastructure, and to the preservation and conservation of natural and built resources. There are promising signs. A new generation is becoming aware that the old systems of land use and abuse will not provide a sustainably desirable future. A shift in emphasis is detectable as responsible residents, business leaders and elected officials abandon long held assumptions that resource will never give out, that there is always another unspoiled place to settle, that everything will last forever. In this first decade of the twenty-first century, a half century after the environmental consciousness-raising years of the 1960s, a more aware generation is ascending to community, corporate and government leadership. Professionals in the land use arena have the opportunity to inform and to assist these more enlightened stakeholders. Well trained and well intentioned experts are in a better position than ever before to revise out-dated practices. Cities, towns, suburbs, and exurban development currently consumes only 7% of the U.S. land area. As the population expands and economies evolve, much more land will be transformed, and built-up areas will be reconfigured. Everyone working in the domain of land use transformation is at the center of a long-run epic. Whatever happens in the physical world affects land use, and land use affects everything that happens in the natural world, often over a very long time span. It is my view that enlightened land use planning and building induces a positive measurable ripple effect far beyond the appearance of the physical world. As the resources available to the nation become recognized as finite, there is no better way than through wise, bold, creative and fresh land use initiatives to enhance the social, economic, environmental and humanistic encounters that collectively compose our daily experience. Each community is like a distinct, complex corporation. It has vast assets -- all of the real property in town, and all of the human energy and good-will of its residents. Ideally, each resident comes to understand that he or she is a stakeholder in the quality of the overall physical place, way beyond next door and the neighborhood -- a shareholder in the total enterprise. Barriers to comprehensive and innovative land use planning have been weakened by long delayed public alarm about our degrading physical environment and our simultaneous looming shortage of capital, credit, energy, and natural resources. While these matters now roil financial markets, stir scientific inquiry, and engender political debate, they underscore the imperative for wiser use, and diminished abuse, of the land. This book presents recent estimates on the rate of change of major land classes. Aggregated globally, multiple impacts of local land changes are shown to significantly affect central aspects of Earth System functioning. The book offers innovative developments and applications in the fields of modeling and scenario construction. Conclusions are also drawn about the most pressing implications for the design of appropriate intervention policies. Contributed articles presented at a workshop. The system of land use planning in the UK dates back to the 1947 Town and Country Planning Act. This title examines government's proposals against economic evaluation criteria. It discusses various options for change to the land use planning system primarily designed to introduce voluntary trading and the privatization of development decisions.