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Successful Response Starts with a Map
Cross-border Cooperation (CBC) Strategies for Sustainable Development
Research and Theory in Advancing Spatial Data Infrastructure Concepts
Building European Spatial Data Infrastructures
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Building European Spatial Data Infrastructures

GIS Worlds
Building European Spatial Data Infrastructures, third edition, explores the efforts of the European Union (EU) to create a framework for a multinational infrastructure for spatial information in the European Community (INSPIRE). This framework will enable the EU to exploit the myriad opportunities created by modern GIS technologies. This edition presents an overview of the innovative activities being performed by both the public and private sectors to comply with the INSPIRE Directive and explains the rationale and the processes involved in spatial data infrastructure (SDI) development and implementation. Designed as a reference for GIS professionals and decision makers, the chapters promote a general understanding of SDI concepts and provide examples of practical applications.

National Spatial Data Infrastructure Partnership Programs
Traditional methods for handling spatial data are encumbered by the assumption of separate origins for horizontal and vertical measurements. Modern measurement systems operate in a 3-D spatial environment. The 3-D Global Spatial Data Model: Foundation of the Spatial Data Infrastructure offers a new model for handling digital spatial data, the global spatial data model or GSDM. The GSDM preserves the integrity of three-dimensional spatial data while also providing additional benefits such as simpler equations, worldwide standardization, and the ability to track spatial data accuracy with greater specificity and convenience. This groundbreaking spatial model incorporates both a functional model and a stochastic model to connect the physical world to the ECEF rectangular system. Combining horizontal and vertical data into a single, three-dimensional database, this authoritative monograph provides a logical development of theoretical concepts and practical tools that can be used to handle spatial data more efficiently. The book clearly describes procedures that can be used to handle both ECEF and flat-Earth rectangular components in the context of a rigorous global environment.

Toward a Coordinated Spatial Data Infrastructure for the Nation

Manual of Digital Earth
The book includes examples of how instrumental SDIs can be in disaster preparedness and poverty management, and it examines the integration of intellectual property rights within the framework of international SDI collaboration. --BOOK JACKET.

Handbook on Geospatial Infrastructure in Support of Census Activities

Spatial Data Infrastructures at Work
"This book explores new trends in border areas dynamics and management as well as how cross-border cooperation could or not influences the
sustainable development"--Provided by publisher"--

Down to Earth This book contains papers presented at the first Open Source Geospatial Research Symposium held in Nantes City, France, 8-10 July, 2009. It brings together insights and ideas in the fields of Geospatial Information and Geoinformatics. It demonstrates the scientific community dynamism related to open source and free software as well as in defining new concepts, standards or tools.

Spatial Data on Water

Geospatial Free and Open Source Software in the 21st Century In describing the emergence of the spatial data infrastructure (SDI) phenomenon, this book covers the diffusion and evolution of SDIs around the world, and indicates the countries in which SDIs are far along, and those in which more work is needed. The implementation of SDIs from a practical perspective and a method of institution building for regional, continental, and global SDIs is outlined. This guide offers recommendations about how SDI stakeholders around the world can leverage the work already done and maintain the momentum that is currently driving the global SDI phenomenon.

Advancing Strategic Science The challenge of growth in transport, especially in freight transport, and scarce resources in money, landscape and local opposition against new infrastructure investment require new solutions from transport policy. This book deals with these issues taking as an example the transport corridor Rotterdam-Genoa, one of the most heavily used in Europe. In 2010 the INTERREG project Code24 with partners from five European countries started with the aim to develop a transnational strategy to strengthen and to develop the corridor. The main objective was to accelerate and jointly develop the transport capacity of the entire corridor by ensuring optimal economic benefits and spatial integration while reducing negative impacts on the environment at local and regional level. These issues are highlighted in the book from an interdisciplinary perspective, taking into account spatial, economic, environmental and political aspects.

Developing Spatial Data Infrastructures Written by one of the world’s leading experts on spatial data infrastructures (SDIs), this book explores existing European SDIs and the efforts of the European Union to create a framework for a multinational Infrastructure for Spatial Information in Europe (INSPIRE) in order to exploit the many opportunities being created by modern geographic information technologies. The institutional and decision-making context within which SDIs must be developed requires partnerships between the public and private sectors, and concerted government action will play a key role in helping INSPIRE overcome political and institutional barriers. The author discusses the steps needed to create a legal framework for the wide-ranging project and identifies key strategic issues for future SDI development.

Volunteered Geographic Information and the Future of Geospatial Data The International Symposium on Spatial Data Handling is the premier research forum for Geographic Information Science. The Symposium is particularly strong in respect to identifying significant new developments in this field. The papers published in this volume are carefully refereed by an international programme committee composed of experts in various areas of GIS who are especially renowned for their scientific innovation.

The 3-D Global Spatial Data Model Initiatives, such as INSPIRE and the US DHS Geospatial Data Model, are working to develop a rich set of standards that will create harmonized models and themes for the spatial information infrastructure. However, this is only the first step. Semantically meaningful models must still be developed in order to stimulate interoperability. Creating Spatial Information Infrastructures (SII) presents solutions to the problems preventing the launch of a truly effective SII. Leading experts in SII development present a complete overview of SII, including use and application needs, theoretical and technological foundations, and examples of realized working SII’s. The book includes semantic applications in each discussion and explains their importance to the future of geo-information standardization. Offering practical solutions to technical and nontechnical obstacles, this book provides the tools needed to take the next step toward a working semantic web—one that will revolutionize the way the world accesses and utilizes spatial information.

Spatial Data Infrastructure and Development The Association of Geographic Information Laboratories for Europe (AGILE) was established in early 1998 to promote academic teaching and research on GIS at the European level. AGILE seeks to ensure that the views of the geographic information teaching and research community are fully represented in the discussions that take place on future European - search agendas and it also provides a permanent scientific forum where geographic information researchers can meet and exchange ideas and - periences at the European level. In 2007 AGILE provided - for the first time since its existence - a book constituting a collection of scientific papers that were submitted as fu-
papers to the annual AGILE conference and went through a competitive and thorough review process. Published in the Springer Lecture Notes in Geoinformation and Cartography this first edition was well received within AGILE and within the European Geoinformation Science community as a whole. Thus, the decision was easily made to establish a Springer th Volume for the 11 AGILE conference held 2008 in Girona, Spain, and led to what you now hold in your hands.

Hybrid Collectives for Effective Spatial Data Infrastructure Development in the Global South Public and private institutions are committing resources and making important long-term decisions concerning the collection, management, and use of spatial data. Although these actions are influenced by current pressures, priorities, and opportunities, their ultimate success depends on how these spatial data activities will be relevant to future needs and demands. The Mapping Science Committee, in cooperation with the Federal Geographic Data Committee, convened a workshop in April 1996 to examine societal and technological changes that might occur within the next 15 years. The purpose was to consider within the context of spatial data activities a series of long-term visions and to identify societal forces and changes that would make those visions more or less likely. The workshop provided a framework for thinking about the future of U.S. spatial data activities.

Strategic Plan for Development and Deployment of Idaho’s Spatial Data Infrastructure, Version 1.0 Geographic data is a valuable source of information in modern society. By utilizing alternative sources of this data, the availability and potential applications of geographic information systems can be increased. Volunteered Geographic Information and the Future of Geospatial Data is a pivotal reference source for the latest scholarly research on information gathering from volunteers, as opposed to official agencies and private companies, to compile geospatial data. Highlighting a range of pertinent topics such as regional landscape mapping, road safety, and land usage, this book is ideally designed for researchers, academics, students, professionals, and practitioners interested in the growing area of volunteered geographic information.

The European Information Society This book presents a selection of manuscripts submitted to the 2017 International Cartographic Conference held in Washington, DC at the beginning of July and made available at the conference. These manuscripts have been selected by the Scientific Program Committee and represent the wide-range of research that is done in the discipline. It also forms an important international collection representing research from at least 30-40 countries.

National Geo Data Policy Forum Science is increasingly driven by data, and spatial data underpin the science directions laid out in the 2007 U.S. Geological Survey (USGS) Science Strategy. A robust framework of spatial data, metadata, tools, and a user community that is interactively connected to use spatial data in an efficient and flexible way--known as a spatial data infrastructure (SDI)--must be available for scientists and managers to find, use, and share spatial data both within and beyond the USGS. Over the last decade, the USGS has conducted breakthrough research that has overcome some of the challenges associated with implementing a large SDI. Advancing Strategic Science: A Spatial Data Infrastructure Roadmap for the U.S. Geological Survey is intended to ground those efforts by providing a practical roadmap to full implementation of an SDI to enable the USGS to conduct strategic science.

Principles of Spatial Data Infrastructure The Department of Economic and Social Affairs of the United Nations Secretariat is a vital interface between global policies in the economic, social and environmental spheres and national action. The Department works in three main interlinked areas: (i) it compiles, generates and analyses a wide range of economic, social and environmental data and information on which States Members of the United Nations draw to review common problems and to take stock of policy options; (ii) it facilitates the negotiations of Member States in many intergovernmental bodies on joint courses of action to address ongoing or emerging global challenges; and (iii) it advises interested Governments on the ways and means of translating policy frameworks developed in United Nations conferences and summits into programmes at the country level and, through technical assistance, helps build national capacities. The designations used and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries. The term "country" as used in this publication also refers, as appropriate, to territories or areas. The designations "developed regions" and "developing regions" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Symbols of United Nations documents are composed of capital letters combined with figures. Mention of such a symbol indicates a reference to a United Nations document.
Geospatial Infrastructure, Applications and Technologies: India Case Studies Spatial Data on Water: Geospatial Technologies and Data Management focuses on the worldwide corroborated difficulties in accessing data, a major hindrance in conducting water related studies in several domains. Presents examples of research focused on water resource management. Includes a guide on how to manage water data using a geographic information system and a spatial data infrastructure. Provides several ideas and techniques to support integrated water data management.

Geographic Information Systems to Spatial Data Infrastructures

Geospatial Thinking Spatial data, also known as geospatial data or geographic information, identifies the geographic location of natural and constructed features and boundaries on Earth, and has become increasingly important in various administrative practices. In order to facilitate access, use, and sharing of spatial data among organizations, information is brought together in clustered initiatives known as Spatial Data Infrastructures (SDIs). In Spatial Data Infrastructures at Work, Ezra Dessers introduces spatial enablement as a key concept to describe the realization of SDI objectives in the context of individual public sector processes. Drawing on four years of research, Dessers argues that it has become essential, even unavoidable, to manage and (re)design interorganizational process chains in order to further advance the role of SDIs as an enabling platform for a spatially enabled society. Detailed case studies illustrate that the process he describes is the setting in which one can see the SDI at work. This book is must-read material for academics, practitioners, and policymakers dealing with SDI and spatial enablement. By extension, the book will also be of great interest to anyone confronted with societal issues that call for an integrated approach, implying in-depth cooperation between multiple organizations.

World Development Report, 1984 In the past few years the United States has experienced a series of disasters, such as Hurricane Katrina in 2005, which have severely taxed and in many cases overwhelmed responding agencies. In all aspects of emergency management, geospatial data and tools have the potential to help save lives, limit damage, and reduce the costs of dealing with emergencies. Great strides have been made in the past four decades in the development of geospatial data and tools that describe locations of objects on the Earth’s surface and make it possible for anyone with access to the Internet to witness the magnitude of a disaster. However, the effectiveness of any technology is as much about the human systems in which it is embedded as about the technology itself. Successful Response Starts with a Map assesses the status of the use of geospatial data, tools, and infrastructure in disaster management, and recommends ways to increase and improve their use. This book explores emergency planning and response; how geospatial data and tools are currently being used in this field; the current policies that govern their use; various issues related to data accessibility and security; training; and funding. Successful Response Starts with a Map recommends significant investments be made in training of personnel, coordination among agencies, sharing of data and tools, planning and preparedness, and the tools themselves.

Advancing Strategic Science Spatial data infrastructures (SDIs) are being established across the globe in the most diverse political, institutional, and legal settings. The ultimate objectives of the SDI initiatives are promoting economic development, stimulating better cooperation and government, and fostering environmental sustainability. The book provides an overview of SDI policies, concepts, and practices associated with the design and implementation of an SDI to support spatially enabled societies. Technical aspects such as standards, networks, metadata, and clearinghouse concepts focus on developed and developing countries.

The Future of Spatial Data and Society Long-term needs and sustained effort are underlying themes in this year’s report. As with most of its predecessors, it is divided into two parts. The first looks at economic performance, past and prospective. The second part is this year devoted to population - the causes and consequences of rapid population growth, its link to development, why it has slowed down in some developing countries. The two parts mirror each other: economic policy and performance in the next decade will matter for population growth in the developing countries for several decades beyond. Population policy and change in the rest of this century will set the terms for the whole of development strategy in the next. In both cases, policy changes will not yield immediate benefits, but delay will reduce the room for maneuver that policy makers will have in years to come.

National Spatial Data Infrastructure Collaboration This book draws on author’s wealth of knowledge working on numerous projects across many countries. It provides a clear overview of the development of the SDI concept and SDI worldwide implementation and brings a logical chronological approach to the linkage of GIS technology with SDI enabling data. The theory and practice approach help understand that SDI development and implementation is very much a social process of learning by doing. The author masterfully selects main historical developments.
and updates them with an analytical perspective promoting informed and responsible use of geographic information and geospatial technologies for the benefit of society from local to global scales. Features Subject matter spans thirty years of the development of GIS and SDI. Brings a social science perspective into GIS and SDI debates that have been largely dominated by technical considerations. Based on a world-wide perspective as a result of the author’s experience and research in the USA, Australia, Canada, Brazil, Peru, China, India, Korea, Malaysia, and Japan as well as most European countries. Draws upon professional and academic experience relating to pioneering UK and European GIS research initiatives. Includes updated historical material with an analytical perspective explaining what was done right, and what didn’t work.

Towards Strategy of Spatial Data Infrastructure Development with Focus on the Private Sector Involvement Spatial data is a vital national resource necessary for a country’s efficient and sustainable economic, social and environmental development, and so must be properly developed and managed. In the Kingdom of Saudi Arabia (KSA), there is lack of knowledge and no clear framework describing the optimal way for stakeholders, users, providers or administrators, to collaborate effectively in establishing a National Spatial Data Infrastructure (NSDI). Moreover, the complex, multi-layer and multi-jurisdiction system of government leads to competing interests and mandates in coordinating spatial activity. Previous studies on NSDI in KSA focused on technical infrastructure strategy. However, there is a need to study institutional/organisational issues affecting collaboration in NSDI for KSA. This research presented in this book leads to recommendations for a best practice, collaboration initiative for Saudi NSDI, and contributes to advancing the goals and implementation of NSDI in KSA.

Promoting the National Spatial Data Infrastructure Through Partnerships Geospatial data, information, and technologies are becoming more important and more common tools throughout the world because of their capacity to improve government and private sector decision making. Geospatial information is developed, used, maintained and shared in a range of application areas, including: transportation, environment, natural resources, agriculture, telecommunications, mapping, health, emergency services, research, and national security. Sharing geospatial data in such applications helps improve the management of public infrastructures and natural resources and produces numerous other benefits. Many nations and regions around the world are developing Spatial Data Infrastructures (SDIs) to help facilitate cooperative production, use, and sharing of geospatial information. An SDI usually encompasses policies, standards, technologies and procedures for organizations to cooperatively produce and share geographic data. The Global Spatial Data Infrastructure (GSDI) is a fairly recent international collaboration that promotes the development of SDIs throughout the world. Like other SDIs, GSDI is focusing on the development of policies and processes to enable efficient geospatial data sharing and use. GSDI is being advanced through the leadership of many nations and organizations represented by a GSDI Steering Committee, which includes representatives from all continents, and from government, academia, and the private sector. At this point, GSDI consists mostly of dedicated volunteers, modeled on national SDIs, with small amounts of funding from various governments.

Advances in Cartography and GIScience For the fourth consecutive year, the Association of Geographic Information Laboratories for Europe (AGILE) promoted the edition of a book with the collection of the scientific papers that were submitted as full-papers to the AGILE annual international conference. Those papers went through a th competitive review process. The 13 AGILE conference call for pu- papers of original and unpublished fundamental scientific research resulted in 54 submissions, of which 21 were accepted for publication in this - lume (acceptance rate of 39%). Published in the Springer Lecture Notes in Geoinformation and Car- th graphy, this book is associated to the 13 AGILE Conference on G- graphic Information Science, held in 2010 in Guimarães, Portugal, under the title “Geospatial Thinking”. The efficient use of geospatial information and related technologies assumes the knowledge of concepts that are fundamental components of Geospatial Thinking, which is built on reasoning processes, spatial conc- tualizations, and representation methods. Geospatial Thinking is associated with a set of cognitive skills consisting of several forms of knowledge and cognitive operators used to transform, combine or, in any other way, act on that same knowledge. The scientific papers published in this volume cover an important set of topics within Geoinformation Science, including: Representation and Visualisation of Geographic Phenomena; Spatiotemporal Data Analysis; Geo-Collaboration, Participation, and Decision Support; Semantics of Geoinformation and Knowledge Discovery; Spatiotemporal Modelling and Reasoning; and Web Services, Geospatial Systems and Real-time Appli- tions.

Integrated Spatial and Transport Infrastructure Development Science is increasingly driven by data, and spatial data underpin the science directions laid out in the 2007 U.S. Geological Survey (USGS) Science Strategy. A robust framework of spatial data, metadata, tools, and a user community that is interactively connected to use spatial data in an efficient and flexible
way--known as a spatial data infrastructure (SDI)--must be available for scientists and managers to find, use, and share spatial data both within and beyond the USGS. Over the last decade, the USGS has conducted breakthrough research that has overcome some of the challenges associated with implementing a large SDI. Advancing Strategic Science: A Spatial Data Infrastructure Roadmap for the U.S. Geological Survey is intended to ground those efforts by providing a practical roadmap to full implementation of an SDI to enable the USGS to conduct strategic science.

Spatial Data Infrastructures in Context Expert perspectives on SDI theory and practice The spatial data infrastructure (SDI) concept continues to evolve and become an increasingly important element of the infrastructure that supports economic development, environmental management, and social stability. Because of its dynamic and complex nature, however, it remains a fuzzy concept

Spatial Data Infrastructure and Policy Development in Europe and the United States Successful Response Starts with a Map This book is a valuable resource for the increasing body of researchers and practitioners in the field of geospatial technologies. Written by leading researchers and experts it is designed in such a way that technical achievements and challenges of geospatial computing applications are followed by various applications developed for society. As such, they serve as a bridge between technologists and solution developers, which is critical in the context of developing countries. There have been significant advances in geospatial technologies in India in the last decade, including advances in spatial data infrastructures, geocomputation and spatial databases, and innovative applications in natural resource development. Ranging from LIDAR standards, to data integration using ontologies, and mobile computing, such progress enhances the utility of the technology for both urban and rural development. This book discusses these achievements and considers the way forward.

Cross-border Cooperation (CBC) Strategies for Sustainable Development The National Spatial Data Infrastructure (NSDI) is the means to assemble geographic information that describes the arrangement and attributes of features and phenomena on the Earth. This book advocates the need to make the NSDI more robust. The infrastructure includes the materials, technology, and people necessary to acquire, process, store, and distribute such information to meet a wide variety of needs. The NSDI is more than hardware, software, and data; it is the public foundation on which a marketplace for spatial products will evolve.

Research and Theory in Advancing Spatial Data Infrastructure Concepts This book covers some of the most prevalent policy issues evolving around spatial data infrastructure. First, the book addresses a variety of European SDI projects aiming at the creation of regional spatial data infrastructure. Secondly, the Dutch and American situation are described, providing insights on how two rather different legal and economic SDI settings can still allow for and serve very similar infrastructure functions. Keywords: spatial data infrastructures, development, legal and economic, Europe, United States, Netherlands.

Building European Spatial Data Infrastructures In 1992, world leaders adopted Agenda 21, the work program of the 1992 U.N. Conference on Environment and Development. This landmark event provided a political foundation and action items to facilitate the global transition toward sustainable development. The international community marked the tenth anniversary of this conference in Johannesburg, South Africa, in August 2002. Down to Earth, a component of the U.S. State Department's “Geographic Information for Sustainable Development” project for the World Summit, focuses on sub-Saharan Africa with examples drawn from case-study regions where the U.S. Agency for International Development and other agencies have broad experience. Although African countries are the geographic focus of the study, the report has broader applicability. Down to Earth summarizes the importance and applicability of geographic data for sustainable development and draws on experiences in African countries to examine how future sources and applications of geographic data could provide reliable support to decision-makers as they work towards sustainable development. The committee emphasizes the potential of new technologies, such as satellite remote-sensing systems and geographic information systems, that have revolutionized data collection and analysis over the last decade.

Lessons for the Global Spatial Data Infrastructure: International Gase Study Analysis In the wake of the so-called information technology revolution, many stakeholders from the public and private sectors (including citizens) have indeed grown accustomed to the promise and usability of spatial data infrastructures (SDI) for data access, use, and sharing. Analyzing the obstacles as well as the processes and mechanisms of integration and implementation, Spatial Data Infrastructures in Context: North and South investigates the technological and the non-technological aspects of the widespread adoption of spatial data infrastructures. Supporting
theoretical issues with empirical studies, the editors pay particular attention to the non-technological aspects of organizational, financial, and legal issues including owner rights, liability, copyrights, and compatibility with precedent and supercedent laws. The authors also highlight the importance of understanding the local environment and circumstances in the process of tailoring the approaches to the conditions that characterize societies of different cultural, institutional, and economic settings. Designed to improve the accessibility, interoperability, and affordability of spatial data, the book focuses on the increasing challenges associated with integrating individuals and organizations into a network to support (1) public authorities and administrations at various levels, (2) thematic user communities, (3) enterprises, and (4) citizen-oriented society as a whole. It addresses the implementation and development of spatial data infrastructures for a wide range of themes, applicable technical standards and protocols, and specific organizational issues unique to data policy. Highlighting the potential for profound changes to the access, use, and exchange of spatial data for citizens, organizations, and geographically related applications, and therefore to the role and interaction of the stakeholders from the public and private sectors, this timely contribution provides new insights into improving our understanding of the increasing relevance, applicability, and value of spatial data infrastructures.

Developments in Spatial Data Handling This open access book offers a summary of the development of Digital Earth over the past twenty years. By reviewing the initial vision of Digital Earth, the evolution of that vision, the relevant key technologies, and the role of Digital Earth in helping people respond to global challenges, this publication reveals how and why Digital Earth is becoming vital for acquiring, processing, analysing and mining the rapidly growing volume of global data sets about the Earth. The main aspects of Digital Earth covered here include: Digital Earth platforms, remote sensing and navigation satellites, processing and visualizing geospatial information, geospatial information infrastructures, big data and cloud computing, transformation and zooming, artificial intelligence, Internet of Things, and social media. Moreover, the book covers in detail the multi-layered/multi-faceted roles of Digital Earth in response to sustainable development goals, climate changes, and mitigating disasters, the applications of Digital Earth (such as digital city and digital heritage), the citizen science in support of Digital Earth, the economic value of Digital Earth, and so on. This book also reviews the regional and national development of Digital Earth around the world, and discusses the role and effect of education and ethics. Lastly, it concludes with a summary of the challenges and forecasts the future trends of Digital Earth. By sharing case studies and a broad range of general and scientific insights into the science and technology of Digital Earth, this book offers an essential introduction for an ever-growing international audience.

Creating Spatial Information Infrastructures The National Spatial Data Infrastructure (NSDI) was envisioned as a way of enhancing the accessibility, communication, and use of geospatial data to support a wide variety of decisions at all levels of society. The goals of the NSDI are to reduce redundancy in geospatial data creation and maintenance, reduce the costs of geospatial data creation and maintenance, improve access to geospatial data, and improve the accuracy of geospatial data used by the broader community. At the core of the NSDI is the concept of partnerships, or collaborations, between different agencies, corporations, institutions, and levels of government. In a previous report, the Mapping Science Committee (MSC) defined a partnership as “a joint activity of federal and state agencies, involving one or more agencies as joint principals focusing on geographic information.” The concept of partnerships was built on the foundation of shared responsibilities, shared costs, shared benefits, and shared control. Partnerships are designed to share the costs of creation and maintenance of geospatial data, seeking to avoid unnecessary duplication, and to make it possible for data collected by one agency at a high level of spatial detail to be used by another agency in more generalized form. Over the past seven years, a series of funding programs administered by the Federal Geographic Data Committee (FGDC) has stimulated the creation of such partnerships, and thereby promoted the objectives of the NSDI, by raising awareness of the need for a coordinated national approach to geospatial data creation, maintenance, and use. They include the NSDI Cooperative Agreements Program, the Framework Demonstration Projects Program, the Community Demonstration Projects, and the Community-Federal Information Partnerships proposal. This report assesses the success of the FGDC partnership programs that have been established between the federal government and state and local government, industry, and academic communities in promoting the objectives of the National Spatial Data Infrastructure.

Building European Spatial Data Infrastructures Cooperation and partnerships for spatial data activities among the federal government, state and local governments, and the private sector will be essential for the development of a robust National Spatial Data Infrastructure (NSDI). This book addresses the nature of these partnerships and examines factors that could optimize their success.