

Contents

	Page
Chapter 1. Summary	1
Chapter 2. Federal Scientific and Technical Information and the U.S. Competitive Edge	7
STI and Science and Technology Policy	7
STI and Science Education	9
STI and Research and Development	10
STI and Product Development and Manufacturing	13
STI and International Leadership on Global Issues	15
STI and International Competitiveness: A Summation	17
Chapter 3. Reaching Consensus on Principles of Federal Scientific and Technical Information Dissemination	19
Federal Role in Information Dissemination	19
Principles of STI Dissemination	23
Chapter 4. Reaching Consensus on the Open Flow and Governmentwide Dissemination of Federal STI	33
Open Flow of STI	33
Role of Governmentwide Dissemination and Archival Agencies in STI	36
Chapter 5. Framework for a Presidential Initiative on Scientific and Technical Information	43
Strengthening the OSTP Role	43
Establishing Advisory Committees on STI	46
Redeeming OSTP-OMB Working Relationships on STI	47
Upgrading Agency STI Management	49
Developing Standards and Directories for SKI	49
Launching an STI Education Initiative	52
Improving International Exchange of SKI	55
Appendix A. Technological Opportunities for Managing and Disseminating Federal Scientific and Technical Information	57
Appendix B. List of Acronyms	67
Index	68

Tables

Table	Page
1. Cost Breakdown for illustrative National Geophysical Data Center CD-ROM Products . . .	28
2. Illustrative Use of Federal STI as Science Education Course Supplements	53
3. Illustrative Weaknesses in Current Global Change Data Management	56