1. Record Nr. UNINA9910220157903321

Titolo	The global technology revolution, China, in-depth analyses : emerging technology opportunities for the Tianjin Binhai new area (TBNA) and the Tianjin technological development area (TEDA) / / Richard Silberglitt, Anny Wong ; with S. R. Bohandy ... [et al.]
Pubbl/distr/stampa	Santa Monica, CA, : Rand, 2009
ISBN	1-282-45124-3 9786612451249 0-8330-4868-6
Descrizione fisica	1 online resource (251 p.)
Collana	Technical report Rand : transportation, space, and technology
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Disciplina	338/.0640951154
Soggetti	Research, Industrial - China - Tianjin Technological innovations - China - Tianjin Economic development - China - Tianjin Technology and state - China - Tianjin Binhai Xinqu (Tianjin, China)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Sponsored by the Tianjin Binhai New Area and the Tianjin Economic-Technological Development Area". "TR-649-TBNA/TEDA"--P. [4] of cover.
Nota di bibliografia	Includes bibliographical references (p. 173-213).
Nota di contenuto	Cover; Preface; Contents; Figures; Tables; Summary; Acknowledgments; Abbreviations; Chapter One - Introduction; TBNA: An Ambitious Vision for the Future; The Role of TEDA; Achieving the State Council's Vision for TBNA Through Foresight; Road Map of This Report; Part One - The Most-Promising Opportunities for TBNA and TEDA in Scienceand Engineering; Chapter Two - The Most-Promising Technology Applications for TBNA and TEDA for 2020; How We Selected the Most-Promising Technology Applications for TBNAand TEDA Chapter Three - The Foundation for TBNA's Growth into a Leading-Edge Science and Engineering CenterTBNA's Mission as a Special Pilot

Zone; China's National Needs and the Push for Cutting-Edge R&D and Innovation; National Drivers of and Barriers to Cutting-Edge R&D and Innovation; Capacity Available to TBNA and TEDA: R&D, Manufacturing, and S&TCommercialization; Part Two - Analysis of the Most-Promising Technology Applications for TBNA and TEDA; Chapter Four - Cheap Solar Energy; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects
Relevant Capacity Available to TBNA and TEDADrivers and Barriers; A Possible Path Forward; Chapter Five - Advanced Mobile-Communication and RFID Applications; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Relevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Chapter Six - Rapid Bioassays; Importance to TBNA and TEDA; Chapter Seven - Membranes, Filters, and Catalysts for Water Purification; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Capacity Available to TBNA and TEDA
Drivers and BarriersA Possible Path Forward; Chapter Eight - Molecular-Scale Drug Design, Development, and Delivery; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Relevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Chapter Nine - Electric and Hybrid Vehicles; Importance to TBNA and TEDA; Current Scientific and Market Status and Future Prospects; Relevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Chapter Ten - Green Manufacturing; Importance to TBNA and TEDA
Current Scientific and Market Status and Future ProspectsRelevant Capacity Available to TBNA and TEDA; Drivers and Barriers; A Possible Path Forward; Part Three - Building for TBNA's Future; Chapter Eleven - Toward Making TEDA a State-of-the-Art Science and EngineeringCenter; Positioning TBNA and TEDA for the Future by Building on the Present; Integrating Specific Action Plans into an Overarching Strategic Plan; Appendix A - RAND Workshop on TBNA Science and Technology Vision,August 8-9, 2007; Appendix B - TEDA Meeting Agenda, December 5, 2007, and List of Participants
Appendix C - Green Chemistry Awards of National Governments

Sommario/riassunto

In 2007, the Tianjin Binhai New Area (TBNA) and one of its administrative zones, the Tianjin Economic-Technological Development Area (TEDA), in northeast China commissioned the RAND Corporation to perform a technology-foresight study to help them develop and implement a strategic vision and plan for economic growth through technological innovation. The principal objectives were to identify the most-promising emerging technology applications for TBNA and TEDA to pursue as part of their plan for growth, to analyze the drivers and barriers they would face in each case, and to recommend action pla