Record Nr. UNINA9910458849403321 Autore Stevens Renee Titolo Engineering mega-systems: the challenge of systems engineering in the information age / / Renee Stevens Boca Raton, Fla.:,: CRC Press,, 2010 Pubbl/distr/stampa 0-429-13170-4 **ISBN** 1-4200-7667-1 Edizione [1st edition] Descrizione fisica 1 online resource (256 p.) Collana Complex and enterprise systems engineering Disciplina 620.001/171 Soggetti Systems engineering Large scale systems Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front cover; Dedication; Contents; List of Figures; List of Tables; List of Acronyms; Acknowledgments; About the Author; Part I: Setting the Stage; Chapter 1: Introduction; Chapter 2: Context and Trends; Part II: Concepts and Frameworks; Chapter 3: Mega-System Concepts; Chapter 4: A Framework for Exploring Mega-Systems; Chapter 5: Engineering and Acquiring Mega-Systems; Chapter 6: Introduction to Mega-System Case Studies; Chapter 7: Single Integrated Air Picture; Chapter 8: Developing the ElectronicProduct Code Network; Chapter 9: Observations from the Case Studies: Part IV: The Way Ahead Chapter 10: The Way AheadChapter 11: Postscript: Profilinga ComplexAcquisition Program; References; Index; Back cover Sommario/riassunto With their ability to cross traditional boundaries and achieve a level of functionality greater than their component elements, mega-systems have helped corporations and government organizations around the world resolve complex challenges that they otherwise couldn't address with stand-alone systems. Engineering Mega-Systems: The Challenge of Systems Engineering in the Information Age provides a clear understanding of the engineering of this class of systems-a process

that demands consideration of increasing program scale and the rapid

change of underlying technologies.