1. Record Nr. UNINA9910736026303321 Autore Lane Joseph P. Titolo The ABC's of Science, Technology & Innovation (STI) Policy: Spelling Out Problems, Consequences and Viable Solutions / / by Joseph P. Lane Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2023 Pubbl/distr/stampa **ISBN** 3-031-34463-4 [1st ed. 2023.] Edizione 1 online resource (226 pages) Descrizione fisica Disciplina 338.926 509.1821 Soggetti Technological innovations Knowledge management Innovation and Technology Management Knowledge Management **Economics of Innovation** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Aristotle's Three States of Knowledge -- Vannevar Bush's Fateful Nota di contenuto Omission -- Coalition Eisenhower Didn't Foresee -- Development vs Research -- Everett Roger's Innovation Definition -- Federal Laboratory Consortium -- Government Bias in Funding -- Project Hindsight vs TRACES -- Idea Factory Lessons -- Juggling STI Terminology --Knowledge Communication -- Logic Models at Work -- Multiplier Effect -- National Science Foundation -- Orphan Product Approach -- Push vs Pull -- Equations for National Innovation -- Rhetoric vs Reality --Subordinating Engineering to Science -- Technology Transfer Offices -- University as a Free Enterprise -- Valuation of Invention Claims --New Net Wealth -- Xi Jinping's China Strategy -- Why STI Fallacies Persist -- Zero Sum Game -- What comes after Z?... Sommario/riassunto Innovation is a widely applied yet poorly understood term in the context of public policies and practices among Western nations. Technological innovations specifically have and will continue to advance civilization, shape modern society, and drive the economic health and geo-political standing of nations. This book offers a unique

interpretation of science, technology & innovation (STI) policies in

Western nations, particularly in regard to government-sponsored programs. The author challenges established thinking, directly addressing numerous myths that cloud our understanding of innovation and proposes a fresh perspective grounded in fundamental logic and analysis. Written in short chapters and presented in an alphabetically organized framework, this book addresses what is working and what isn't working in current STI policies and suggests that the most efficient and effective way to generate technological innovations that yield the desired socio-economic benefits, is for national governments to sponsor directed scientific research and directed engineering development, and align both with the requirements of carefully managed commercial production. The book also features examples drawn from government data, scholarly literature, practitioner anecdotes and the author's personal experience.