1.	Record Nr.	UNINA9910254897503321
	Autore	Miles Ian
	Titolo	Foresight for Science, Technology and Innovation / / by Ian Miles, Ozcan Saritas, Alexander Sokolov
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
	ISBN	3-319-32574-4
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (279 p.)
	Collana	Science, Technology and Innovation Studies, , 2570-1509
	Disciplina	330
	Soggetti	Economic policy
		Management
		Industrial management
		Public administration
		Operations research
		Decision making
		R & D/Technology Policy
		Innovation/Technology Management
		Public Administration
		Operations Research/Decision Theory
	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.
	Nota di contenuto	1 Introduction -- 2 Foresight for STI - What and Why -- 3 Initiation-Scoping and Managing ForSTI -- 4 Interaction - Participation and Recruitment -- 5 Intelligence - Environmental and Horizon Scanning -- 6 Intelligence - Delphi -- 7 Imagination - Scenarios and Alternative Futures -- 8 Integration - Modelling -- 9 From Integration to Interpretation - Translating ForSTI into Strategies -- 10 Intervention and Impact - Outcomes, Action and Evaluation -- 11 Conclusion. .
	Sommario/riassunto	Decision-makers at all levels are being confronted with novel complexities and uncertainties and face long-term challenges which require foresight about long-term future prospects, assumptions, and strategies. This book explores how foresight studies can be systematically undertaken and used in this context. It explicates why and how methods like horizon scanning, scenario planning, and

roadmapping should be applied when dealing with high levels of uncertainty. The scope of the book moves beyond "narrow" technology foresight, towards addressing systemic interrelations between social, technological, economic, environmental, and political systems. Applications of foresight tools to such fields as energy, cities, health, transportation, education, and sustainability are considered as well as enabling technologies including nano-, bio-, and information technologies and cognitive sciences. The approaches will be illustrated with specific actual cases.