1. Record Nr. UNINA9910779415903321 Autore Dolata Ulrich Titolo The transformative capacity of new technologies: a theory of sociotechnical change / / Ulrich Dolata Abingdon, Oxon:,: Routledge,, 2013 Pubbl/distr/stampa **ISBN** 1-135-08989-2 0-203-07008-9 1-299-38680-6 1-135-08990-6 Descrizione fisica 1 online resource (152 p.) Collana Routledge advances in sociology;; 96 303.48/3 Disciplina Soggetti Technological innovations - Social aspects Technology - Social aspects Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Front Cover; The Transformative Capacity of New Technologies; Nota di contenuto Copyright Page; Contents; 1. The transformative capacity of new technologies: an introduction; 2. Technology and sectors; 2.1. Business sectors as sociotechnical fields; 2.2 Surveying and mapping the functional elements of sectors; 2.3 The full picture: sectoral modes of regulation; 3. Types of innovation and sociotechnical transformation; 3.1 Starting point: types of innovation and their effects; 3.2 Basic concepts: periods of mismatch, sociotechnical transformations, and transition pathways 3.3 Specifications: transformative capacity, adaptability, gradual transformation4. New technologies and their transformative capacity; 4.1 Structuration and transformation through technology; 4.2 The contexts in which new technologies emerge and are applied: endogenous vs. exogenous technologies; 4.3 Variant I: low transformative capacity; 4.4 Variant II: high transformative capacity; 4.5 Transformative capacity as a pragmatic research approach; 5. New technologies and sectoral adaptability; 5.1 Transformative impulses from technology and how sectors cope with them

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## Sommario/riassunto

Scientific concepts on the co-evolution of technology and society, as well as recent sociotechnical system approaches, focus on the general interrelations between technology, socioeconomic structures, and institutions. Their aim is to study and explain processes and modes of technological change. Rarely, however, have answers been put forward on the related question of processes of socioeconomic and institutional change, provoked by emerging new technological opportunities and constraints. The Transformative Capacity of New Technologies redresses this imbalance, explori