Record Nr. UNINA9910456175103321 Network dynamics in emerging regions of Europe [[electronic resource] **Titolo** /] / [edited by] David A Dyker Pubbl/distr/stampa London, : Imperial College Press Singapore; ; Hackensack, NJ, : Distributed by World Scientific, c2010 **ISBN** 1-282-75988-4 9786612759888 1-84816-374-6 Descrizione fisica 1 online resource (416 p.) Altri autori (Persone) DykerDavid A Disciplina 338/.064094 Soggetti System theory - Social aspects Business networks - Europe Social networks - Europe Information networks - Social aspects - Europe Electronic books. Europe Economic conditions 21st century Europe Social conditions 21st century 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. Acknowledgements; CONTENTS; List of Tables; List of Figures; List of Nota di contenuto Contributors; Introduction; Chapter 1 Alignment, Misalignment and Dynamic Network-Based Capabilities Nick von Tunzelmann; 1. Introduction - The Tasks Facing Network Alignment; 2. Antecedents of Network Alignment; 3. Systemic Approaches; 3.1. National systems of innovation; 3.2. Governance systems; 3.3. Complex systems; 4. Capabilities and Learning; 4.1. Sources of learning; 4.2. The functions of the firm; 4.3. The capabilities of government; 4.4. Gauging network alignment; 5. Conclusions and Implications; References Section 1 Innovation Networks Chapter 2 The UK Innovation System, from a Misalignment Perspective Nick von Tunzelmann; 1. Introduction; 2. The UK Record in Technology Performance Since the 1970's 3; 2.1.

Biases in technological change - Sectors, factor inputs and firm sizes; 2.2. S&T performance and funding; 2.2.1. R&D performance - GERD,

BERD and HERD; 2.2.2. R&D funding; 2.2.3. Patenting; 2.2.4. Science - Publications and citations; 2.2.5. 'Hidden innovation'; 2.3. Summary of the UK's technological performance; 3. Misalignments in the UK System: The Private Sector; 3.1. 'Value chain' failures

- 3.2. Spillovers and sectoral systems 3.3. Organisational/governance issues; 3.4. Summary of private-sector weaknesses and strengths; 4. The Public Sector and Technology Policy; 4.1. Changes in governance; 4.2. The 1970's and 1980's; 4.3. Policy design in later years; 5. Conclusions; References; Chapter 3 Still Divided by Transformation? Characteristic Features of the German Innovation System and the Barriers to Extending It to East Germany Peter Franz; 1. Introduction; 2. Preliminary Remarks on Methodology; 3. Basic Features of the German Innovation System
- 4. The Evolution of the East German Innovation System 5. Conclusions and Policy Options; References; Chapter 4 The Governance and Management of Technical Change in Transition Countries David A. Dyker; 1. Introduction; 2. The Institutional Structure of R&D in the Transition Countries Today; 2.1. Foreign companies; 2.2. Domestic companies; 2.3. State research institutes and universities; 2.4. Private research institutes10; 3. Critical Weaknesses in the Chain of Governance in Transition R&D and Innovation Systems; 3.1. The multinationals The limits to corporate vision
- 3.2. Domestic firms The burden of the past and the limits to ambition 3.3. State research institutes and universities A failure of restructuring; 4. Conclusions; References; Chapter 5 Mutual Perception of Science and Industry in Innovation Networks Evidence from East Germany Jutta Gunther and Cornelia Lang; 1. Introduction; 2. Introductory Remarks on the German Innovation System; 2.1. Scientific organisations; 2.1.1. Universities and universities of applied sciences; 2.1.2. The extramural science institutes (Außeruniversitare
- 2.1.3. University research centres(An-Institute)

Forschungsinstitute)

Sommario/riassunto

This important book focuses on post-Lisbon Agenda issues of alignment and misalignment on different dimensions of European society and the European economy, including industrial systems, R&D systems, educational systems and job markets. It also looks in particular at the peripheral regions of Europe - the less developed parts of 'old' Europe, the parts of old Europe that are outside or only half-inside the EU, the new member-states of the EU, and Turkey as the most important EU candidate country. It takes as its methodological starting point the theory of network alignment as developed in SPRU