Transitions to Sustainable Development New directions in the Study of Long Term Transformative Change

Editors: John Grin, Jan Rotmans, Johan Schot, in collaboration with Frank Geels and Derk Loorbach

Table of contents

List of figures List of tables List of Textboxes Foreword: CARLOTA PEREZ	ix xi xiii xv
Preface	xvii
Introduction: From Persistent Problems to System Innovations And Transitions Authors: John Grin, Jan Rotmans and Johan Schot	
Part I:	
The Dynamics of Transitions: A Socio-Technical Perspective Authors: Frank Geels and Johan Schot	
1.1 Introduction: Exploration of the Research Topic	11
1.2 A Multi-Level Perspective on Transitions	18
1.3 Theoretical Backgrounds: Science and Technology Studies, Evolutionary Economics and Sociology	29
1.4 A Typology of Transition Pathways	54
1.5 Managing Sustainable Innovation Journeys	80
1.6 Reflections: Process Theory, Causality and Narrative Explanation	93
Part II:	
Towards a Better Understanding of Transitions and Their Governance: A Systemic and Reflexive Approach Authors: Jan Rotmans and Derk Loorbach	
2.1 Introduction	105
2.2 A Complex Integrated Systems Perspective	114
2.3 Conceptual Framework for Analyzing Transitions	126
2.4 Research into the Governance of Transitions: A Framework	

for Transition Management	140
2.5 Case Study I: Parkstad Limburg: Regional Transition Management	161
2.6 Case Study II: The Dutch Energy Transition	180
2.7 Self-Evaluation of the Development and Prospects of Transition Management	199
PART III:	
Understanding Transitions from a Governance Perspective <i>Author John Grin</i>	
3.1 Introduction	223
3.2 Contemporary Process of Institutional Change	237
3.3 Modernization Process in Dutch Agriculture, 1886 to the Present	249
3.4 The Governance of Transitions: An Agency Perspective	265
3.5 Modernization as Multi-Level Dynamics: Lessons From Dutch Agriculture	285
3.6 Governance of Transitions: An Analytical Perspective	315
Conclusion: How to Understand Transitions? How to Influence Them? Synthesis and Lessons for Further Research. Authors: John Grin, Jan Rotmans and Johan Schot	
Notes References About the Authors Index	339 345 379 383

(Published in 2010)