

Introduction

Large-Scale Construction Projects as Drivers of Innovation?

Introduction to the Book

8

Joachim Thiel/Venetsiya Dimitrova/Johanna Ruge

Studying Innovation in Construction

Framing Construction Innovation

19

Joachim Thiel

Situating the Research Project at the Intersection of

22

Multi-Disciplinary Debates

Monika Grubbauer

Case Studies as a Research Strategy: Data and Methods

28

Lennart Fahnenmüller/Joachim Thiel

The Case Studies

33

Venetsiya Dimitrova/Johannes Dreher/Johanna Ruge

Foto Series I

Passerelle de la Paix: Materializing Innovation

46

Michael Zimmermann

Large-Scale Construction Projects and Innovation: The Research Results

Large-Scale Projects as “Frame Changers” in the Construction Industry?

61

Joachim Thiel/Venetsiya Dimitrova/Johannes Dreher

How Small Deviations Can Trigger Greater Transformations.

Comparing Innovation Biographies in the Construction Industry

79

Response by Werner Rammert

Mobile Knowledge, Sticky Products: Geographies of Innovation in Large-Scale Projects	86
Johannes Dreher/Joachim Thiel/Gernot Grabher/Monika Grubbauer	
 <i>Advancing Geographies of Innovation in Large-Scale Construction Projects</i>	105
<i>Response by Maude Brunet/Patrick Cohendet</i>	
 Embracing Temporal Ambiguities? Innovation and the Temporalities of Large-Scale Projects	111
Joachim Thiel/Gernot Grabher	
 <i>Temporal Ambiguities in Large-Scale Projects</i>	127
<i>Response by Jonas Söderlund</i>	
 What Was the Problem Again? How Problem Formulation Affects Innovativeness in Large-Scale Projects	133
Lennart Fahnenmüller/Johanna Ruge/Annette Bögle	
 <i>Innovations in Bridge Design?</i>	150
<i>Response by Steffen Marx</i>	
 Dealing with Materiality: The Role of Engineering Thinking and Material Knowledge for Innovation in Construction	153
Johanna Ruge/Annette Bögle	
 <i>A Synthesis of the Arts: The Materialization of Artistic and Architectural Concepts for the Wehrhahn Line</i>	169
<i>Response by Heike Klussmann</i>	
 Large-Scale Projects as Arenas for Interaction: Negotiating Professional Cultures of Architects and Engineers	176
Venetsiya Dimitrova/Monika Grubbauer/Johanna Ruge/Annette Bögle	
 <i>Interacting In and Out of the Box. A Knowledge-Sociological Perspective</i>	194
<i>Response by Silke Steets</i>	

Foto Series II

Yesterday's Tomorrows. The Demolition of City-Hof	200
Hagen Stier	

Synthesis

How Large-Scale Projects Drive Innovation in the Construction Industry: Concluding Remarks	214
Joachim Thiel/Venetsiya Dimitrova/Johanna Ruge	

Contributors

Authors	223
Photographers	224