

CONTENTS

1. Connected and automated transport: The road ahead	1
2. Approach and key areas of focus: The near-term impacts of connected and automated vehicles on the European city	7
2.1 Aim of this study	8
2.2 Study design	9
2.3 Research approach and methodology	11
3. Status quo: How the shift to new mobility is changing the European city	13
3.1 Social change as a development framework for mobility	15
3.2 The European city: An analytical framework and model for policy/planning decisions	21
3.3 New mobility: Developments, opportunities and risks	26
3.4 Experts' impact assessment of connected and automated mobility	33
3.5 Development of transport and settlement policy: London, Randstad, Vienna	47
4. Connected and automated transport in the Long Level 4: Settlement development, transport policy and planning during the transition period	57
4.1 Technological developments in connected and automated vehicles: What is the status quo?	58
4.2 Settlement and infrastructure aspects of spatially selective implementation	66
4.3 Current state of research on fully automated vehicles' impacts on the city	72
4.4 Automated drivability: A nuanced picture of the spatial deployment of connected and automated vehicles	80
4.5 Transition management in pioneering regions around the globe	84
4.6 Negotiating a dominant narrative about connected and automated mobility in Europe	90
4.7 Planning approaches that proactively shape urban futures with connected and automated vehicles	93
5. Scenarios: Shaping change at the local level during the transition period	99
5.1 Scenario development and structure	100
5.2 Key factor: Ways to steer policy and planning	101
5.3 Market-driven scenario	104
5.4 Policy-driven scenario	111
5.5 Civil Society-driven scenario	117
5.6 Tabular comparison of the three scenarios	125
5.7 Stakeholders' assessment of the scenarios	131
5.8 In-depth consideration of spatial dynamics in the Long Level 4	133

6. Action plans: How connected and automated vehicles can shape the mobility shift	141
6.1 Re-evaluating the possible impacts of connected and automated vehicles in the context of a Long Level 4	142
6.2 Strategies for sustainable transport and urban (district) development	144
6.3 Approaches to proactively shaping action plans, concepts and measures for connected and automated transport	146
7. Research team	159
8. Bibliography.....	165