Contents

List of figures vii
List of tables viii
Acknowledgements ix

Introduction 1

PART I
Grand challenges, smart everything and smart cities 11

1 Grand challenges of the 21st century and the smart everything paradigm 13

2 Smart cities, innovation and problem-solving over cyber-physical spaces 34

PART II
Platforms, smart ecosystems and connected intelligence 61

3 Smart city ecosystems triggering connected intelligence 63

4 The effectiveness of smart city platforms and applications 87

PART III
Smart growth: externality platforms and disruptive innovation 113

5 Smart growth: connecting innovation and digital worlds 115

6 Platforms for smart growth in urban and regional policy 140

PART IV
Safety and security: engagement platforms and social innovation 171

7 Social innovation in smart city ecosystems 173

8 Engagement platforms, social innovation and safer cities 196

PART V
Sustainability: awareness platforms and eco-innovation 223

9 Environmental sustainability: under the smart everything–smart city paradigm 225

10 Conclusions: platform interoperability and connected intelligence 251

Index 275