Index

Chapter 1. Introducción 27
1.1. Introduction 29
1.2. Objective 31
1.3. Structure 32
1.4. Data and methods 36
1.4.1. Data 36
1.4.2. Methods 37
1.5. Other contributions of the thesis 39
1.6. References 40
Chapter 2. Innovation facilitators and sustainable development: a country comparative approach 43
2.1. Introduction 48
2.2. Theoretical framework 51
2.2.1. The SDGs as a sustainable development agenda 51
2.2.2. Sustainable development: other approaches 53
2.3. Research model: selected innovation facilitators and their link to sustainable development 56
2.4. Data and method 61
2.5. Results 63
2.5.1. Multiple linear regression analysis 63
2.5.2. Comparative analysis: a cluster analysis of similar groups 66
2.5.3. Evolution of SDGs and innovation 68
2.6. Conclusions 72
2.6.1. Implications 74
2.6.2. Limitations 75
2.6.3. Future research possibilities 75
2.7. References 76

2.8. Appendices 85
Appendix 1: Multiple linear regression analysis 85
Appendix 2: Cluster analysis 88
Chapter 3. Driving research on eco-innovation systems: Crossing the boundaries of innovation systems 91
3.1. Introduction 96
3.2. Theoretical framework 98
3.2.1. National and regional innovation systems 98
3.2.2. Eco-innovation 99
3.3. Method and data 101
3.4. Results: identifying patterns in the literature 105
3.5. Conclusions 115
3.6. References 117
Chapter 4. Factors driving national eco-innovation: New routes to sustainable development 125
4.1. Introduction 130
4.2. Theoretical framework 132
4.2.1. Innovation systems 132
4.2.2. The role of governance 133
4.2.3. Human capital capacity: Education, awareness, skills, and capabilities 134
4.2.4. Universities and research institutions 135
4.2.5. Public and private R&D investment 136
4.3. Method and data 137
4.4. Results of fsQCA analysis of eco-innovation 141
4.4.1. Necessary and sufficient conditions for eco-innovation 141
4.4.2. Necessary and sufficient conditions for the absence of eco-innovation 146
4.5. Discussion 149
4.6. Conclusions 153

4.7. References 156
Chapter 5. Are European countries favoring or jeopardizing their eco-innovation performance? 169
5.1. Introduction 172
5.2. Theoretical framework 174
5.3. Method and data 179
5.4. Results of the evolution of eco-innovation from 2014 to 2021 183
5.4.1. Necessity analysis of stronger or weaker national eco-innovation 183
5.4.2. Sufficient conditions for improved eco-innovation 184
5.4.3. Sufficient conditions for worsened eco-innovation performance ... 188
5.5. Conclusions 191
5.6. References 193
Chapter 6. Conclusions and discussion 203
6.1. General conclusions 205
6.2. Summary remarks per chapter 208
6.2.1. Chapter 2: Innovation facilitators and sustainable development: a country comparative approach 208
6.2.2. Chapter 3: Driving research on eco-innovation systems: Crossing the boundaries of innovation systems 209
6.2.3. Chapter 4: Factors driving national eco-innovation: New routes to sustainable development 210
6.2.4. Chapter 5: Are European countries favoring or jeopardizing their eco-innovation performance? 211
6.3. The relevance of local and national contexts 212
6.3.1. Policy implications and recommendations 214
6.3.2. Alignment with the SDGs and the 2030 Agenda 217
6.4. Limitations and future research possibilities 219
6.5. References 221