TABLE OF CONTENTS

03 Management Summary

05 Foreword

1. Introduction **15**
1.1 Study objectives 16
1.2 Study structure 16

2. Motivation **18**

3. Methodological approach **22**
3.1 Desk research 23
3.2 Nominal group technique 25
3.3 Expert interviews with practitioners 26

SECTION A: Key study results

4. Practitioner's guide **30**

5. Volatility sources **34**
5.1 Shipper 36
5.2 LSP 37
5.3 Market 38
5.4 Exogenous factors 39

6. Management of volatility **40**
6.1 Dimensions 41
6.2 Stages 43
6.3 Actors 44

7. Logistics scenarios **45**
7.1 Sea freight 46
7.2 Road freight 57
7.3 Rail freight 69
7.4 Air freight 80

8. Mini Cases & Russia-Ukraine Special **91**

SECTION B: Index and company profiles

9. Classification of indices and digital business models **101**
9.1 Indices 102
9.2 Digital business models in freight 104

10. Discussion **108**
10.1 Contribution 109
10.2 Limitations 109

11. Conclusion **111**

112 Bibliography

115 Appendix