

# Contents

<b>Introduction</b>	<b>5</b>
<b>1. Supply chain management and related theoretical frameworks</b>	<b>7</b>
<b>1.1 Theories related to supply chain management and supply chain disruptions</b>	<b>7</b>
<b>1.2 Transaction cost economics</b>	<b>11</b>
1.2.1 Transaction cost economics from past to recent studies	11
1.2.2 Dynamic transaction cost economics	15
<b>1.3 Resource-based view</b>	<b>17</b>
1.3.1 Resources, capabilities, and performance	17
1.3.2 Capabilities in SCM and a dynamic view of resource-based theory	20
1.3.3 Natural-resource-based view of the firm	24
<b>1.4 Porter's framework</b>	<b>28</b>
1.4.1 Logistics and procurement as sources of competitive advantage	29
1.4.2 The integration of value-adding activities	32
<b>1.5 Contingency theory</b>	<b>34</b>
<b>1.6 Bullwhip Effect</b>	<b>37</b>
<b>1.7 Transaction cost economics in international operations – A Case Study of international removal company</b>	<b>42</b>
<b>2. Supply chain disruptions and the sources of supply chain risk</b>	<b>47</b>
<b>2.1 Defining supply chain risk and main sources of risks</b>	<b>47</b>
<b>2.2 Identifying the causes of risks</b>	<b>51</b>
<b>2.3 Geopolitical risks</b>	<b>54</b>
2.3.1 Managing supply chain disruptions caused by the war in Ukraine	55
<b>2.4 Natural disasters and climate change</b>	<b>58</b>
<b>2.5 Risks on the supply and the demand sides</b>	<b>61</b>
<b>2.6 Transportation risks</b>	<b>63</b>
<b>2.7 Cyber risk</b>	<b>68</b>
<b>2.8 Cyber threats and proactive and reactive measures – A case study of DHL Group</b>	<b>71</b>
<b>2.9 The impact of large-scale disruptions – A case study of the COVID-19 pandemic and its impact on the automotive industry in Central European countries</b>	<b>73</b>
<b>3. Building resilient and sustainable supply chain</b>	<b>89</b>
<b>3.1 Defining and measuring supply chain resilience</b>	<b>89</b>
3.1.1 Increasing resilience – A case study of supply chains hit by the Ukraine-Russia war	91

3.2	<b>Reacting to supply chain disruptions</b>	94
3.3	<b>Supply chain (re)engineering</b>	103
3.4	<b>Supply chain agility and visibility</b>	106
3.5	<b>Communication and digitalisation</b>	110
3.6	<b>Supply chain collaboration</b>	112
3.7	<b>Supply chain risk management culture supported by leadership and education</b>	116
3.8	<b>Sustainable and resilient supply chain</b>	118
3.9	<b>Armed attacks causing disruptions to ocean freight – A case study</b>	124
4.	<b>Characteristics and hidden vulnerability of Central European supply chains</b>	131
4.1	<b>Trade in value-added</b>	133
4.2	<b>Studying vulnerability to external shocks through hidden exposure identification</b>	138
4.3	<b>Czechia</b>	141
4.4	<b>Hungary</b>	143
4.5	<b>Poland</b>	145
4.6	<b>Slovakia</b>	147
	<b>Summary</b>	149
	<b>References</b>	153
	<b>List of figures</b>	177
	<b>List of tables</b>	179
	<b>Index</b>	181