

# Table of Contents

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| <b>1 Introduction.....</b>                                      | <b>1</b>  |
| 1.1 Motivation .....                                            | 1         |
| 1.2 Background .....                                            | 2         |
| 1.3 Problem statement .....                                     | 4         |
| 1.4 Aims and Objectives of this Research.....                   | 5         |
| <b>2 Usability, Customer Satisfaction and Models View .....</b> | <b>7</b>  |
| 2.1 Introduction .....                                          | 7         |
| 2.2 Usability .....                                             | 7         |
| 2.3 Customer Satisfaction.....                                  | 15        |
| 2.4 Definitions Usability and Customer Satisfaction: .....      | 17        |
| 2.5 Usability and Customer Satisfaction .....                   | 17        |
| 2.6 Models Review .....                                         | 18        |
| <b>3 System Dynamics Methodology .....</b>                      | <b>29</b> |
| 3.1 Introduction .....                                          | 29        |
| 3.2 System Dynamics Basics.....                                 | 29        |
| <b>4 Practical Part: Model Implementation .....</b>             | <b>34</b> |
| 4.1 Introduction .....                                          | 34        |
| 4.2 System Dynamic Tools.....                                   | 35        |
| 4.2.1 Causal Loop Diagram (CLD) .....                           | 35        |
| 4.2.2 Flow Diagram.....                                         | 46        |
| <b>5 Result &amp; Discussion .....</b>                          | <b>50</b> |
| 5.1 Introduction .....                                          | 50        |
| 5.2 Amazon Scenarios .....                                      | 50        |
| 5.2.1 First Scenario.....                                       | 50        |
| 5.2.2 Second Scenario .....                                     | 52        |
| 5.3 Jawwal Scenarios .....                                      | 54        |
| 5.3.1 First Scenario.....                                       | 54        |
| 5.3.2 Second Scenario .....                                     | 56        |
| 5.4 Comparison and Recommendation.....                          | 58        |
| <b>6 Conclusion &amp; Future Work .....</b>                     | <b>60</b> |
| <b>References.....</b>                                          | <b>61</b> |