

LIST OF FIGURES

Figure 1.1 Research Method	5
Figure 2.1 Satellite Communications Applications	7
Figure 2.2 Satellite Network Segments	8
Figure 2.3 Types of Satellite Orbit	8
Figure 2.4 Traditional Satellite and High-Throughput Satellite Differences	10
Figure 2.5 Satria-1 Satellite Illustrations.....	11
Figure 2.6 Satria-1 Gateway Locations	12
Figure 2.7 Satria-1 Gateway Illustrations	12
Figure 2.8 Starlink Satellite Illustrations.....	13
Figure 2.9 Starlink Network Configuration from Internet to Satellite.....	14
Figure 2.10 Starlink Network Configuration from Satellite to User Access Point	14
Figure 2.11 Inter-Satellite Links Illustrations.....	16
Figure 2.12 Beam Radius Calculations	20
Figure II.13 Frequency Reuse Factors	22
Figure 3.1 Research Flow.....	26
Figure 3.2 Research Design Scheme.....	28
Figure 3.3 Satria-1 Frequency Allocations.....	29
Figure 3.4 Starlink Frequency Allocations.....	30
Figure 4.1 Scenario 1 Total Cost Required per Year	43
Figure 4.2 Scenario 1 Cumulative Cost per Year	44
Figure 4.3 Scenario 2 Total Cost Required per Year	46
Figure 4.4 Scenario 2 Cumulative Costs per Year.....	46
Figure 4.5 All Scenarios Combined Cumulative Costs.....	47
Figure 4.6 Starlink Inter-Satellite Links over Indonesia	50