

LIST OF FIGURES

Figure 1.1 Cost comparison Fixed and Wireless Broadband	11
Figure 1.2 Scissor Effect	12
Figure 1.3 Indonesia Broadband Plan Objectives 2014 - 2019	13
Figure 1.4 Broadband Penetration Outlook.....	13
Figure 1.5 5G FWA Subscriptions Outlook.....	14
Figure 2.1 Fiber Network Architecture	17
Figure 2.2 Fiber Network Topology	19
Figure 2.3 Passive Optical Network Roadmap	20
Figure 2.4 5G Services	21
Figure 2.5 5G Roadmap Timeline.....	22
Figure 2.6 5G network deployment options.....	24
Figure 2.7 Spectrum Bands Layers	25
Figure 2.8 Global 5G Network Launch.....	26
Figure 2.9 Wireline access and wireless access comparison	27
Figure 2.10 FWA TCO Comparison with FTTX.....	27
Figure 2.11 5G FWA architecture with 4G interworking to a 5GC.....	29
Figure 2.12 Capital Budgeting Techniques.....	30
Figure 2.13 National Radio Frequency Allocation Diagram	31
Figure 3.1 Systematic Research	32
Figure 3.2 Masterplan of Cikupa Citra Raya Tangerang	34
Figure 3.3 Citra Raya Cikupa Subscriber Forecast	35
Figure 3.4 Link Budget Profile for Coverage Dimensioning.....	36
Figure 4.1 NPV Comparison for 5G FWA Deployment.....	49
Figure 4.2 Sensitivity Analysis from Number of Customer Change	51
Figure 4.3 Sensitivity Analysis from Cost per GB Change	52
Figure 4.4 Sensitivity Analysis from HDLP for 5G mmW.....	52
Figure 4.5 Extended C Band utilization in Indonesia	54
Figure 4.6 New allocation of the C-band in Hongkong	55