

## DAFTAR GAMBAR

|                                                                         |    |
|-------------------------------------------------------------------------|----|
| Gambar 2.1 Evolusi Jaringan seluler.....                                | 20 |
| Gambar 2.2 5G <i>Stand Alone Network</i> .....                          | 22 |
| Gambar 2.3 5G <i>Non Stand Alone Network</i> .....                      | 24 |
| Gambar 2.4 Faktor yang mempengaruhi <i>Link Budget</i> .....            | 37 |
| Gambar 3.1 Diagram alur penelitian .....                                | 54 |
| Gambar 3.2 Peta wilayah .....                                           | 53 |
| Gambar 3.3 Alur perencanaan <i>Coverage</i> .....                       | 58 |
| Gambar 3.4 Ilustrasi d2D .....                                          | 60 |
| Gambar 3.5 alur perencanaan <i>Capacity</i> .....                       | 61 |
| Gambar 5.1 Simulasi <i>coverage signal level SS-RSRP</i> .....          | 79 |
| Gambar 5.2 hasil simulasi <i>coverage signal level SS-RSRP</i> .....    | 80 |
| Gambar 5.3 <i>Generate Report signal level SS-RSRP</i> .....            | 81 |
| Gambar 5.4 simulasi <i>coverage signal level SS-SINR</i> .....          | 81 |
| Gambar 5.5 hasil simulasi <i>coverage signal level SS-SINR</i> .....    | 82 |
| Gambar 5.6 <i>Genarate report signal level SS-SINR</i> .....            | 83 |
| Gambar 5.7 simulasi <i>coverage signal level Througput</i> .....        | 84 |
| Gambar 5.8 hasil simulasi <i>coverage signal level Througput</i> .....  | 84 |
| Gambar 5.9 <i>Generate report signal level Througput</i> .....          | 85 |
| Gambar 5.10 simulasi <i>capacity signal level SS-RSRP</i> .....         | 86 |
| Gambar 5.11 hasil simulasi <i>capacity signal level SS-RSRP</i> .....   | 86 |
| Gambar 5.12 <i>Generate Report capacity signal level SS-RSRP</i> .....  | 87 |
| Gambar 5.13 Simulasi <i>Capacity signal level SS-SINR</i> .....         | 88 |
| Gambar 5.14 hasil simulasi <i>capacity signal level SS-SINR</i> .....   | 88 |
| Gambar 5.15 <i>Generate report capacity level signal SS-SINR</i> .....  | 89 |
| Gambar 5.16 simulasi <i>capacity level signal Througput</i> .....       | 90 |
| Gambar 5.17 hasil simulasi <i>capacity level signal througput</i> ..... | 90 |
| Gambar 5.18 <i>Genarate report level signal Througput</i> .....         | 91 |
| Gambar 5.19 hasil optimasi <i>capacity SS-RSRP</i> .....                | 92 |
| Gambar 5.20 grafik signal SS-RSRP .....                                 | 92 |

|                                                             |     |
|-------------------------------------------------------------|-----|
| Gambar 5.21 <i>Genarate report SS-RSRP</i> .....            | 93  |
| Gambar 5.22 hasil optimasi <i>capacity SS-SINR</i> .....    | 94  |
| Gambar 5.23 grafik signal SS-SINR.....                      | 94  |
| Gambar 5.24 <i>Genarate report SS-SINR</i> .....            | 95  |
| Gambar 5.25 hasil optimasi <i>capacity Throughput</i> ..... | 96  |
| Gambar 5.26 grafik signal Throughput.....                   | 96  |
| Gambar 5.27 <i>Genarate report Throughput</i> .....         | 97  |
| Gambar 5.28 biaya OPEX.....                                 | 98  |
| Gambar 5.29 diagram <i>Net Present Value</i> .....          | 100 |
| Gambar 5.30 diagram <i>ROI</i> .....                        | 101 |