# ABSTRACT

Growth of demand hight internet access services is business chance that should be taken seriously with provide the infrastructure access that good and proper. Fulfilling the request of internet access can be accelerated by implementing Wimax (IEEE 802.16d). Wimax is a technology BWA (Broadband Wireless Access), which likely will be excellent in providing broadband access solutions to customers.

In this Thesis, techno-economic study conducted for the implementation of Wimax (IEEE 802.16d) using wireless MAN in Bandung city.

Methodology is done by doing study the technical and business. In the technical study is to calculation link budget, where this is to determine the coverage of service and determine the capacity of users. While in the business study is conducted the feasibility of the investment analysis and the sensitivity analysis toward these implementation.

From the research that has been done, so if Wimax held in Bandung from the techno-economic side provide Net Present Value Rp 1.168.912.302, Internal Rate of Return of 32%, and Payback Period 2 years and 9 months. Or in other words, this Wimax business economically feasible.