## *ABSTRACT*

*Telkom is one of telecommunication company in Indonesia which cover almost all copper cable network in Indonesia. Globalization has created a new system of the world where everything move faster to become an efficient and transparant market, this has made the need of telecommunication service is growing rapidly.*

*"Commited 2U" is the motto of Telkom which shows the meaning of services to customer for Telkom. One of them is by fullfilling the demand of telephone line or wireline fix phone and it has become a target that must be improved. Meanwhile, Telkom still considers the efficiency of cost in reaching the target.*

*In this final project, the development of cable network potency to fullfill the wireline fixed phone demand is designed by using Geography Information System. GIS can analyze which cable has not been terminated to Distribution Point (DP) so that can be used to fullfill the demand. By developing this cable network potency, an adition network is not needed anymore which can reduce cost. In the past Telkom Regional Bandung did not pay attention on the existing cable network in fullfilling the demand but focused on how to overcome the demand as soon as possible.The biggest effect to the company are the wasting of potential cable network maintenance cost and the losing of money as much as the value of the cable in the potential cable network.*

*The development of cable network potency to fullfill the wireline fixed phone demand will optimize the effectivity of Telkom's equipment and the cost spent in order to cover the demand. In the past if there was no secondary cable from DP to cover the demand, Telkom usually used the addition network by using PCM and DPG technic, now it can be minimized or completely erase the possibility. This is because there are still many potency of cable network, which is the secondary cable, that have not been terminated yet. There are about 29% stubb cable line of a maximum secondary capacity that can be optimized on every RK area service.By optimizing the existing stubb cable network it can directly optimize the earning of Telkom which has been wasted all this long. The maintenance and new network addition cost which are not effective can be minimized too.*



*Key words : Additional Network, Cable Network Potency, Stubb, GIS*



STTELKOM