

## ABSTRACT

Develop extension wireline need big investment and a long time to sufficient. This problem make PT. TELKOM release the new service called *TELKOMFlexi*, that representing technology wireless being based on CDMA 2000 1x. This Technology not only developed by as mobile seluler/cellular make a move but also as fixed cellular/cellular remain to.

Network planning is very important to improve the quality and service amount specially at area which not have been coverage. This final project will be explain about planning of network *TELKOMFlexi* at Baleendah with GIS (Geography Information System) application.

From the data table of cutomer showed that Baleendah have more customer when it compared to other dissimilar region and not covered better from STO Banjaran. Therefore needed planning of network *TELKOMFlexi* at Baleendah.

Until 2010 amount of cutomer *TELKOMFlexi* as much 2937 . To serve the cutomer required 2 BTS, that is placed in Chief of village of Baleendah and Chief of village Manggahang.

*Keyword : BTS, GIS*