# Economic Analysis Competitiveness Assessment of the Wireless Telecommunication Network by the Stratospheric Platform.

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## Abstract

Most of project selection and evalution decision are to be made under conditions of uncertainty, with insufficient and often unreliable information and with only vague knowledge of risk involved and opportunities available. Discounted Cash Flow (DCF) method which is considered as one of the prominent methodologies in that field, has a drawback in incorporating qualitative factors, since it assumes that all the factors can be changed into quantitative cash floes. Analytic Hierarchy Process (AHP) developed by Saaty, has been devised to consider qualitative factors as well as quantitative ones.

This paper studies economic analysis of the Wireless Telecommunication Network by the Stratospheric Platform, Which is proposed to deliver broadband wireless local loop service including voice/picture mobile service, internet/intranet service, leased line service. An attempt is made to assess the competitiveness of the network using AHP.

Under the pessimistic, most favorable and optimistic scenarios, the IRRs(Internal Rate of Returns) of the business have turned out to be 10%, 17%, 31%, respectively. And superior factors and conditions to terrestrial and satellite-based networks are identified.