

HIGHWAY ENGINEERING

LECTURE # 2

HANDOUTS

INTENDED LEARNING OUTCOME

1. Discuss the different aspects of highway project study
2. Calculate of net present value, benefit cost ratio and internal rate of return.

DIFFERENT ASPECT OF HIGHWAY PROJECT STUDY

1. ENGINEERING ASPECT

- This aspect deals with the construction and the operation of the project. This also includes the estimation of the capital and the operation cost.

2. MANAGERIAL ASPECT

- Deals with the management and staffing problems involving in the construction and operation of the project.

3. FINANCIAL ASPECT

- Deals with the cost and income of the enterprise for the project.

4. ECONOMIC ASPECT

- Deals with the economic cost and benefit of the project to the whole country.

FACTORS AFFECTING TOTAL TRANSPORTATION COST

1. CONSTRUCTION COST

- These are the cost that deals with the engineering aspect such as design, surveying, investigation, supervision etc.

2. MAINTENANCE COST

- Costs that will come from the continues repairs that will be done after the construction.

3. ROAD USER COST

FACTORS AFFECTING THE ROAD USER COST

1. Roadway Factor

- Pavement Width
- Surface Type and Riding quality
- Vertical Profile
- Horizontal Geometry

2. Vehicle Factor

- Type
- Make
- Engine

Methods For Evaluating Highway Improvements

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Methods For Evaluating Highway Improvements:

Methods for Evaluating Highway Improvements ,1988 **Methods for Evaluating Highway Improvements** ,1974 *Economic Impact of Highway Improvement* United States. Bureau of Public Roads,1967 *Federally Coordinated Program of Highway Research and Development* , *Department of Transportation and Related Agencies Appropriations for 1975* United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Transportation and Related Agencies Appropriations,1974 *1973 Highway Legislation, Hearings ...*, 93-1 United States. Congress. House. Public Works,1973 **Procedures and Guidelines for Rehabilitation of Existing Freeway-arterial Highway Interchanges: Research report** ,1982 *Assessing the Effects of Highway-widening Improvements on Urban and Suburban Areas* Thomas Nelson Harvey,1996 This synthesis will be of interest to highway environmental specialists particularly those concerned with assessing social and economic impacts design engineers planners utility managers and others responsible for the planning design and implementation of highway widening improvements Information is presented on the reasons for highway widening projects the nature of the projects and the methods and practices for application of analytical techniques used to measure the potential or actual impacts of the projects on people and the physical environment Mitigation measures are also discussed This report of the Transportation Research Board describes the most recent widening projects as reported by states or other transportation agencies as well as the most frequently encountered issues in highway widening Selected examples of widening projects are included as is some recognition of the need for additional information and research in the areas of social and economic impact measurement 1973 Highway Legislation (highway Safety). United States. Congress. House. Committee on Public Works. Subcommittee on Transportation,1973 **Highway Research and Development Studies Using Federal-aid Research and Planning Funds** ,1964 **Federally Coordinated Program of Research and Development in Highway Transportation: Improved highway design and operation for safety** ,1973 A Procedure for Assessing and Planning Nighttime Highway Construction and Maintenance James E. Bryden,Douglas J. Mace,2002 **The Effect of Highway Improvement Upon the Value of Agricultural Land** Oswald Milton Elvehjem,1925 *Highway Research and Development Studies, Using Federal-aid Research and Planning Funds* United States. Bureau of Public Roads,1964 **Highway Research and Development Studies Using Federal-aid Research and Planning Funds** United States. Bureau of Public Roads. Office of Research and Development,1966 Highway Safety Literature ,1976 **Research and Technology Program** ,1994 **Improved highway design and operation for safety** United States. Federal Highway Administration,1973 A Policy on Road User Benefit Analysis for Highway Improvements American Association of State Highway Officials,1951 An Assessment of Optimizing Highway Improvement Prioritization J. M. Witkowski,D. R. Shropshire,1982

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