

**EVIDENCE BASED FUND ALLOCATION SYSTEM FOR
PROVINCIAL ROAD NETWORKS IN SRI LANKA**

AJITH PANAGODA

168334V

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DECLARATION OF THE CANDIDATE AND THE SUPERVISOR

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Ajith Panagoda

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Prof. J.M.S.J. Bandara

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ABSTRACT

Sri Lanka has faced an unprecedented economic crisis during the year 2022 and the entire infrastructure development sector is now experiencing severe adverse effects. Under prevailing conditions, a cost-effective fund allocation system for all infrastructure development activities has become a mandatory requirement. Road infrastructure plays a pivotal role in sustainable development by providing required facilities for all other sectors. It can be shown that more benefits could be derived from the provincial and rural road improvement projects and road maintenance works if the funds are allocated in a scientific and logical manner.

Provincial road development planning needs more research and the main objective of this research paper is to fill at least part of the widening gap between economic aspects and the technical matters related to the development of the provincial roads. Unlike trunk roads and other high-mobility roads, provincial and local roads mainly serve a predefined population group living in the command area. However, those people living in the command area do not enjoy the benefits of a proper transport system mainly due to the substandard condition that prevailed on the roads. This can be directly attributed to the ineffective fund distribution among the provincial roads. The proposed fund allocation system is based on benefits-assets criteria.

Finally, it can be shown that net annual financial benefits derived from a single person living in the command area per km, is more than 500 LKR. In addition to trips generated by the people living in the command area, tourist destinations and industrial and agricultural areas are also served by the provincial roads. Part of provincial roads is used as shortcuts by minimizing the traffic congestion on the main roads.

Implementing Evidence-based fund allocation for provincial roads makes a strong foundation for sustainable economic development. This research deals with the development of a cost-effective fund allocation system for the provincial road system in Sri Lanka.

Key Words: Provincial, Roads, Evidence, Fund Allocation, Sustainable, development,

DEDICATION

Who made every possible attempt to make my life successful specially my teachers,
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TABLE OF CONTENT

ABSTRACT.....	ii
DEDICATION.....	iii
ACKNOWLEDGEMENTS.....	iv
TABLE OF CONTENT.....	v
LIST OF TABLES.....	x
TABLE OF FIGURES.....	xii
LIST OF ABBRIVIATINS.....	xiv
CHAPTER 1: Introduction.....	15
1.1 General Background.....	15
1.2 Research and Development work related to highway project planning.....	18
1.3 Research Objectives.....	19
1.4 Scope of the study.....	19
1.5 Research Problem.....	19
1.6 Research area.....	20
1.7 Research Methodology.....	20
1.8 Structure of the report.....	20
CHAPTER 2: Literature Review.....	22
2.1 Introduction.....	22
2.2 Present funds allocation system in Sri Lankan Provincial Roads.....	22
2.2.1 Present fund allocation system practiced in Sabaragamuwa Province.....	23
2.3 Evidence Based Monitoring and Evaluation system.....	25
2.3.1 Role of PFC in fund allocation process.....	26
2.3.2 Evidence Based Monitoring and Evaluation.....	26
2.3.3 Practical application of World Bank guidelines.....	29
2.3.4 Key Performance indicators of the research project.....	31

2.4 Reviving the general funds allocation criteria proposed the PFC and Central Bank	32
2.4.1 Present Economic Status of the Country	32
2.4.2 Contribution to the Social welfare by means of infrastructure development ...	33
2.4.3 PFC data analysis and Recommendation for year 2021	33
2.4.5 Mass flow direction in provincial roads(Direction of freight movement).....	35
2.4.6 Trip generation by the provincial roads users	35
2.4.7 Land use plan and road improvements	35
2.5 Pavement management theory applicable to provincial roads	36
2.5.1 Relationship between maintenance cost and assets value	37
2.6 International Roughness index (IRI) measurement in provincial roads.....	39
2.6.1 General Definition of IRI	39
2.6.2 Available research findings related to IRI Values of provincial roads.....	40
CHAPTER 3 : Methodology and outline of the case Study.....	42
3.1 Introduction	42
3.2 Road Network system in Sri Lanka.....	42
3.2.1 Schematic diagram of road network system.....	42
3.2.2 Accessibility- mobility level comparison of provincial roads.....	45
3.2.3 Comparison of benefits derived from different roads in the road Network	45
3.2.4 Comparison of the funds allocated for major and minor roads	46
3.3 Economic Analysis.....	47
3.2.1Formulation of Economic theories related to the research	47
3.2.2 Capital Investment Program	48
3.2.3 Foreign funded projects	49
3.4 Valuation of road assets	49

3.4.1 Deviation from normal road assets value criteria	50
3.5 Calculation of benefits derived from a provincial road segment.	52
3.5.1 Calculation of the number of people served by a provincial road segment	52
3.5.2 Worst case scenario analysis - provincial roads.	57
3.6 Grouping road segment according to combined Assets and Benefits criteria.....	60
3.7 Primary fund allocation criteria.....	60
CHAPTER 4 :Case Study- Formulation of funds allocation criteria for Sabaragamuwa Provincial road network.....	63
4.1 Introduction	63
4.1.1 Sabaragamuwa Provincial Road Network	63
4.1.2 Main Objectives of the case study	64
4.2 Data Collection.....	64
4.2.1 Household connectivity to highway systems- Data analysis	64
4.2.2 Collection of Road segment data.....	66
4.3 Calculation of value of Road asset in a given segment.....	68
4.3.1 Right of way [ROW] values defined by RDA.....	69
4.3.2 Calculation of A(i,j) for a road segment.....	70
4.3.2.1 Land value calculation.....	70
4.3.2.2 Approximate valuation of earthworks	70
4.3.2.3 Cost of Pavements	71
4.3.2.4 Drainage system and protective structures cost.....	73
4.3.2.5 Valuation of Bridges.....	73
4.4 Calculation of B(i,j) for Sample Provincial Road Segments in Sabaragamuwa Province.....	74
4.5 IRI value prediction for different types of Provincial Roads.....	82
4.6 Average speed of a road segment.....	83

4.7 Driving Cycle for provincial roads.....	83
4.8 Fuel saving benefits.....	84
4.9 Value of time saving	84
4.10 Effects of heavily loaded trucks	84
4.11 Other reasons for pavement deterioration	86
CHAPTER 5: Presentation of Results (Output of the case study).....	87
5.1 Introduction	87
5.2 Population Served by the Provincial Roads	87
5.3 Road Asset values A(i,j) –Final result for the sample roads segments	88
5.4 Benefits Derived –Final Result for the selected sample	90
5.4.1 Population served by road segments	90
5.4.2 Trip Generation (design PCU value for a road segment)	91
5.4.3 Grouping roads segments according to combined benefit-assets.....	93
5.4.4 (B,A) Groups	93
5.5 Right of Way [ROW], Carriageway width , Revised ROW,	93
5.5.1 Right of Way	93
5.5.2 Carriageway width.....	95
5.5.3 Revised ROW values for Provincial Roads.....	98
5.6 IRI values measurement in provincial road segments.....	98
5.7 Land acquisition for road improvement works	100
5.8 Repairs under the natural disasters.....	100
5.9 Annual recurrent and mid-term fund allocation plan for Sabaragamuwa Province	100
5.10 Hard shoulder construction in provincial roads	103
5.11 Selection of roads for roads widening program	105
CHAPTER 6 :Recommendations and Conclusion.....	106

6.1 Recommendations	106
6.2 Conclusion.....	107
REFERENCES	110
APPENDIX: A.....	114
A.1Details of approach path survey	114
A.2 Detail of the selected road Sample	126
APPENDIX : B.....	128
B.1 Non peril estate road.....	128
B.2 Kuruwira Erathna Road	129
B.3 Morahela Amupitiya road junction.....	129
B.4 Eheliyagoda –Paleegala road D009	130
B.5 Padawigampoal Gal Messa.....	130
B.6 Higgassena via Devipahala Demeda road - Bopath Ella Approach road	131
B.7 Restricted ROW in Udawela- Akarella-Ambawila Road.....	131
B.8 Embilipitiya concrete yard road	132
B.9 Road Tunnel in South Korea Example for the most effective land use planning.	133
APPENDIX : C.....	134
C.1 IRI Value measurement of the Provincial roads.....	134
C.2Driving Cycle	139

LIST OF TABLES

Table 2. 1: Funds allocation for Sabaragamuwa provincial Roads	23
Table 2. 2: Detail of Section labor expenditure statement 2017-2022	25
Table 2. 3 Structure of the research paper in accordance with World Bank guidelines. ..	29
Table 2. 4 Life cycle Benefits with different maintenance strategies.....	38
.Table 2. 5 :Appropriate speed ranges with different IRI values	40
Table 3. 1 Comparision of benefits derived from different roads.....	45
Table 3. 2: Comparison of the asset value of different road segments	47
Table 3. 3 : Classification of Road Segments According to Total Assets Values	50
Table 3. 4 $A^*(i,j)$ value deviation with land prices.....	51
Table 3. 5 : Variation of land assest value with ROW	51
Table 3. 6 Actual and Calculated number of people served.	54
Table 3. 7: Net financial benefits to government based on the average vehicle moving speed	58
Table 3. 8: Classification According to the Benefits Derived	59
Table 3. 9: Monitory benefits for different classes	60
Table 3. 10: Road Segment Classified Under Combined Benefit Assets classes ($B\beta, A\alpha$)	60
Table 4. 1 Comparison of road network details in different regions	63
Table 4. 2: Different way approaching Households from National Network.....	65
Table 4. 3:Detail of Selected Sample of Roads	67
Table 4. 4: Summary of the provincial roads in Sabaragamuwa	67
Table 4. 5 : Road data /and calculated parameters.....	68
Table 4. 6 : Cross sectional detail of conventional road.....	69
Table 4. 7 : Estimated Values of Earth Works.....	71
Table 4. 8 : Valuation of Road assets in Kuruwita- Erathna Road.	73
Table 4. 9 : Sample data collected from Google maps , Censes and statistic department publications Kuruwita -Erathna Road	77

Table 4. 10 Semi Empirical equation for calculation of number of peoples served and design Traffic flow	78
Table 4. 11 : Population served and design PCU for different road segments- Class C Roads	80
Table 4. 12 : Population served and design PCU for different road segments- Class D Roads	81
Table 4. 13: IRI Values for different types of pavements.....	82
Table 4. 14 : Effects of Heavy Axle Loads on Road Pavement	85
Table 5. 1: Roads Assets Values and Essential land acquisition cost.....	89
Table 5. 2: Statistical analysis of population served and designs PCU	91
Table 5. 3 Roads Segments with combined (B,A).....	93
Table 5. 4 Dimensions of the alternative cross sections	98
Table 5. 5 Tentative Fund allocation chart for SPMR year 2021	101
Table 5. 6: Tentative recurrent fund allocation plan for SPMR year 2022.....	104
Table 5. 7: Possible investment under the different IRR values.....	105
Table A.1. 1 : Details of approach path survey.....	114
Table A.1 2: Details of the selected road sample.....	126
Table C: 1 IRI value measurements in Kuruwita Gorakaela road	134

TABLE OF FIGURES

Figure 2. 1: Results Chain.....	27
Figure 2. 2: Results Based Monitoring and Evaluation Cycle	27
Figure 2. 3 Ten Steps in the results based M&E system	28
Figure 2. 4 Increase in life cycle cost due to non-attendance of routing maintenance	37
Figure 2. 5 IRI value variation with type of pavements and speed limits- Original source Little Book of profiling (1998)	39
Figure 3. 1 Schematic diagram of roads network in Sri Lanka RDA roads network	43
Figure 3. 2 : National Roads [RDA roads] Network in Sri Lanka.....	44
Figure 3. 3 Accessibility mobility function of different roads.....	45
Figure 3. 4 Graph showing population density along the road.....	53
Figure 3. 5 Regression analysis results for number of persons served	56
Figure 3. 6 Flow Chart showing the methodology	62
Figure 4. 1 Typical Road cross Sections original source RDA geometric design standard Original Source: Geometric Design Standard of RDA 2008	69
Figure 4. 2: Population map of Ratnapura and Kegalle Districts	75
Figure 4. 3 Google Map with GN division overlaying showing Ratnapura and Kegalle districts and selected roads segments	76
Figure 4. 4 People served vs Distance (Kuruwita – Erathna Road).....	79
Figure 4. 5 Design PCU vs Distance (Kuruwita – Erathna Road).....	79
Figure 4. 6 Design PCU vs Distance (Kuruwita – Gorakaela Road): People served Vs Distance km	80
Figure 5. 1 Showing the people served by different road combinations	87
Figure 5. 2 Peoples served by different road combinations.....	88
Figure 5. 3 Value of Road Segment in LKR millions.....	90

Figure 5. 4: Population directly served by the Provincial Roads segments. (Frequency chart).....	92
Figure 5. 5: Design PCU value of Road segments.....	92
Figure 5. 6: Showing the ROW values.	94
Figure 5. 7: Showing the Carriageway width. (Frequency Diagram).....	95
Figure 5. 8: Alternative cross section Type 1-(Original source-Standard Drawings Ministry of highways Thailand.....	96
Figure 5. 9: Alternative Cross Section Type 11-(Original source-Standard Drawings Ministry of highways Thailand.....	96
Figure 5. 10 Alternative cross Sections designed by PESD(Sabaragamuwa)	97
Figure 5. 11 Predicted IRI values by R.M.K. Sandamal and Pasindu method	99
Figure 5. 12 : Estimated IRI Value frequency distribution chart.....	99
Figure 5. 13 Godagama -Handurukanda road Hard shoulder construction	103

LIST OF ABBRIVIATINS

Abbreviation	Description
AADT	Average Annual Daily Traffic
ADB	Asian Development Bank
CBG	Criteria Based Grant
DVA	Direct Vehicle Access
FAO	Foods and Agriculture Organization
FPA	Foot Path Access
GND	Grama Niladari division
IMF	International Monetary Fund
IRI	International Roughness Index
IRR	Internal Rate of Return
JICA	Japan International Corporation Agency
KPI	Key performance Indicators
LGR	Local Government Road
LR	Local Road
NTC	National Transport Commission
PCU	Passenger Car Unit
PFC	Public Finance Commission
PSDG	Provincial Specific Development Grant
RDA	Road Development Authority
SDG	Sustainable Development Goals
SPC/SPMR	Sabaragamuwa Provincial Council/Ministry of Roads
RDA	Road Development Authority
TCAMP	Transport Connectivity Assets Management Project
UN	United Nations
VOT	Value of Time
WB	World Bank