



# The National Transport Master Plan of Liberia

**Imprint / Content**

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## Imprint

The Transport Master Plan of Liberia, 2012

Part of “Capacity Development for the Transport Sector in Liberia”, PN 07.2152.2-001.00

Financed by the German Government through the German Federal Ministry for Economic Cooperation and Development (BMZ)

## Note on the National Transport Master Plan

This Transport Master Plan (TMP) is part of the programme “Capacity development for the transport sector in Liberia” which is financed by the German Government through the German Federal Ministry for Economic Cooperation and Development (BMZ) and implemented by GIZ.

The document has been prepared by GIZ and its contractor GOPA Consultants based on the analyses, studies, and surveys implemented together with the Government of Liberia (GoL), primarily the Ministry of Transport and the Ministry of Public Works. If not otherwise stated, source of all data is GIZ and its contractor GOPA Consultants.

The National Transport Master Plan is intended to provide guidance for policy and decision makers in the GoL, especially in the transport sector.

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- Appendix B: Motorisation rates in Africa
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- Appendix D: Primary and secondary roads: Link/segment lengths and traffic - 2009 (dry season) and 2010 (wet season)
- Appendix E: Summary of classified counts (dry season/wet season)
- Appendix F: RED Model User Manual
- Appendix G: Proposed new road links
- Appendix H: Concession law check list
- Appendix I: Rule No. 14/2005/UEMOA on axle load standards
- Appendix K: National Road Register
- Appendix L: County-to-county AADT dry and wet season
- Appendix M: Recommendations on classified traffic counts and O/D surveys
- Appendix N: RED Model data

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# Abbreviations

<b>4WD</b>	.....	4 Wheel Drive
<b>AADT</b>	.....	Annual Average Daily Traffic
<b>ACC</b>	.....	Airport Consultative Committee
<b>ACC</b>	.....	Accra Airport (IATA Code)
<b>ADT</b>	.....	Average Daily Traffic
<b>AfCAC</b>	.....	African Civil Aviation Commission
<b>AMP</b>	.....	Airport Master Plan
<b>ArcGIS</b>	.....	A suite consisting of a group of geographic information system (GIS) software products produced by ESRI
<b>ATC</b>	.....	Air Traffic Control
<b>AU</b>	.....	African Union
<b>BJL</b>	.....	Banjul Airport (IATA Code)
<b>BMC</b>	.....	Bong Mining Company
<b>BMZ</b>	.....	Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung
<b>BRE</b>	.....	Buchanan Renewable Energy
<b>CD</b>	.....	Chart datum
<b>CDS</b>	.....	Comfortable Driving Speeds
<b>CET</b>	.....	Common External Tariff
<b>CKY</b>	.....	Conakry Airport (IATA Code)
<b>CMN</b>	.....	Casablanca Airport (IATA Code)
<b>CPA</b>	.....	Harper Airport (IATA Code)
<b>CPO</b>	.....	Crude Palm Oil
<b>CTC</b>	.....	Centralised Traffic Control
<b>DOM</b>	.....	Domestic/Rural Airports in Liberia (designation used in this document)
<b>DSO</b>	.....	Direct Shipping Ore
<b>Dwt</b>	.....	Deadweight Tonnage
<b>EBA</b>	.....	Everything But Arms
<b>EC</b>	.....	European Community
<b>ECOWAS</b>	.....	Economic Community of West African States
<b>EIA</b>	.....	Environmental Impact Assessment
<b>EIRR</b>	.....	Economic Internal Rate of Return
<b>EPA</b>	.....	Economic Partnership Agreement
<b>EU</b>	.....	European Union
<b>FAO</b>	.....	Food and Agriculture Organization
<b>FIRR</b>	.....	Financial Internal Rate of Return
<b>FMC</b>	.....	Forest Management Contracts
<b>FNA</b>	.....	Freetown Airport (IATA Code)
<b>GDP</b>	.....	Gross Domestic Product
<b>GIS</b>	.....	Geographical Information System
<b>GNI</b>	.....	Gross National Income
<b>GoL</b>	.....	Government of Liberia
<b>GOPA</b>	.....	Gesellschaft für Organisation, Planung und Ausbildung (GOPA) mbH
<b>GPS</b>	.....	Global Positioning System
<b>GIZ</b>	.....	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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<b>GVW</b>	.....Gross Vehicle Weight
<b>HDM-4</b>	.....Highway Development and Management Model
<b>HEP</b>	.....Hydro Electric Power
<b>HGV</b>	.....Heavy Good Vehicles
<b>HQ</b>	.....Headquarters
<b>IATA</b>	.....International Air Transport Association
<b>IBRD</b>	.....International Bank for Reconstruction and Development
<b>ICAO</b>	.....International Civil Aviation Organization
<b>ID</b>	.....Identification Code
<b>IFR</b>	.....Instrument Flight Rules
<b>IIU</b>	.....Infrastructure Implementation Unit
<b>ILS</b>	.....Instrument Landing System
<b>IMF</b>	.....International Monetary Fund
<b>IMO</b>	.....International Maritime Organization
<b>IQL</b>	.....Information Quality Level
<b>IRI</b>	.....International Roughness Index
<b>ITCS</b>	.....Incremental Train Control System
<b>JICA</b>	.....Japan International Cooperation Agency
<b>JV</b>	.....Joint Venture
<b>LAA</b>	.....Liberia Airports Authority
<b>LAC</b>	.....Liberian Agricultural Company
<b>LAMCO</b>	.....Liberian American Mining Company
<b>LCAA</b>	.....Liberia Civil Aviation Authority
<b>LIMINCO</b>	.....Liberia Iron Mining Corporation
<b>LISGIS</b>	.....Liberia Institute of Statistics and Geo-Information Services
<b>LM</b>	.....Lockheed Martin Corporation
<b>LMC</b>	.....Liberia Mining Company
<b>LOS</b>	.....Lagos Airport (IATA Code)
<b>LPRC</b>	.....Liberia Petroleum Refining Corporation
<b>LRD</b>	.....Liberian Dollar
<b>MDA</b>	.....Mineral Development Agreement
<b>MLW</b>	.....Monrovia James Spriggs Payne Airport (IATA Code)
<b>MoPEA</b>	.....Ministry of Planning and Economic Affairs
<b>MoPW/MPW</b>	Ministry of Public Works
<b>MoT</b>	.....Ministry of Transport
<b>MRU</b>	.....Mano River Union
<b>MTA</b>	.....Monrovia Transit Authority
<b>Mtpa</b>	.....Million tonnes per annum
<b>MV</b>	.....Multipurpose Vessel
<b>MW</b>	.....Mega Watt
<b>NDB</b>	.....Non-Directional [navigational] Beacon
<b>NGO</b>	.....Non-Governmental Organization
<b>NIOC</b>	.....National Iron Ore Company
<b>NPA</b>	.....National Ports Authority
<b>NPV</b>	.....Net Present Value
<b>NTA</b>	.....National Transit Authority

<b>NTMP</b>	.....	National Transport Master Plan
<b>NTPS</b>	.....	National Transport Policy and Strategy
<b>NTPSIP</b>	.....	National Transport Policy and Strategy & Investment Plan
<b>OD</b>	.....	Origin and Destination
<b>ORCO</b>	.....	Operational Coordinators
<b>OREX</b>	.....	Operational Executives
<b>Pax</b>	.....	Passengers
<b>PHP</b>	.....	Peak-hour Passenger
<b>PPP</b>	.....	Private-Public-Partnership
<b>PRS</b>	.....	Poverty Reduction Strategy
<b>PTB</b>	.....	Passenger Terminal Building
<b>R&amp;FF</b>	.....	Rescue and Fire Fighting
<b>RCS</b>	.....	Road Condition Survey
<b>RED</b>	.....	Roads Economic Decision Model
<b>RMMS</b>	.....	Road Maintenance Management Systems
<b>RMS</b>	.....	Road Maintenance System
<b>ROB</b>	.....	Roberts International Airport (IATA Code)
<b>ROMAPS</b>	.....	Roughton International's Maintenance Planning System
<b>SNV</b>	.....	Stichting Nederlandse Vrywilligers (Dutch Volunteer Service)
<b>SSATP</b>	.....	Sub-Saharan African Transport Policy Program
<b>STOL</b>	.....	Short Take-off & Landing
<b>TEU</b>	.....	Twenty-Foot Equivalent Unit
<b>TSC</b>	.....	Trade Sales Contracts
<b>UEMOA</b>	.....	Union Économique et Monétaire Ouest Africaine
<b>UN</b>	.....	United Nations
<b>UNDP</b>	.....	United Nations Development Program
<b>UNMIL</b>	.....	United Nations Mission in Liberia
<b>USAID</b>	.....	United States Agency for International Development
<b>VFR</b>	.....	Visual Flight Rules
<b>VOC</b>	.....	Vehicle Operating Cost
<b>WB</b>	.....	World Bank
<b>WMO</b>	.....	World Maritime Organization
<b>WTO</b>	.....	World Trade Organization



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