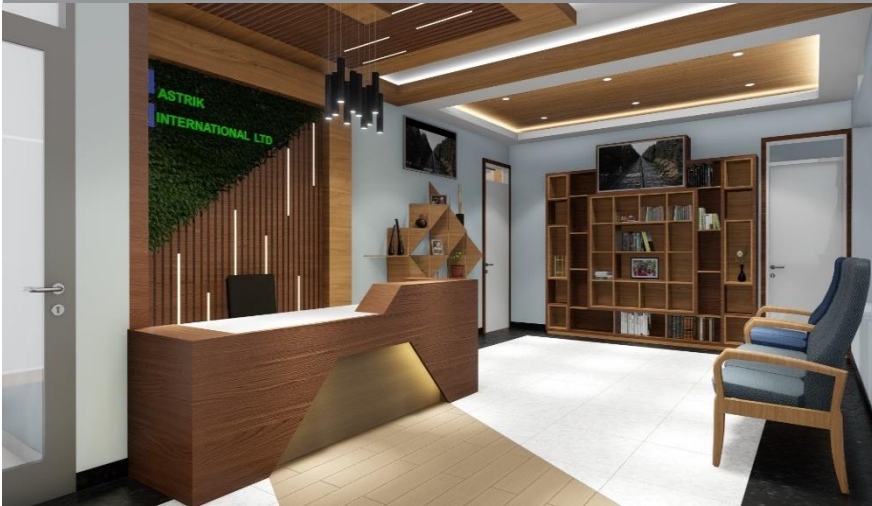


COMPANY PROFILE



www.astrik ltd.com
info@astrik ltd.com



Eng, Dr Twagira Elias
(PhD, Pr. Eng, FIER)
Managing Director (MD)

Astrik is proud to be at the interface of Client and communities in providing quality professional engineering services. Over the past years since its establishment in 2014, Astrik have learned much about the industry and the nature of the business and how we can most effectively harness this engine to drive engineering, research and capacity building to meet both immediate and long-term needs of end-users.

Astrik's Management, staff and Board of Advisors have developed a strategic business plan that is both aspirational and sound. The plan calls upon all of the Staff, stakeholders, and partners to build upon current momentum and ensure progress that is both efficient and effective. This Company profile provide insight on the Astrik core business and capability to offers appropriate technologic solutions which is economical and sustainable to both public and private sectors.

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- BUILDING AND URABANIZATION
- WATER AND SANITATION
- IRRIGATION AND DAMS
- ENVIRONMENTAL AND CLIMATE RESILIENT
- NICHE AND SECTOR SPECIFIC

iv. Our Clients and Partners

v. Completed Projects

Core Competence



Road and Transportations



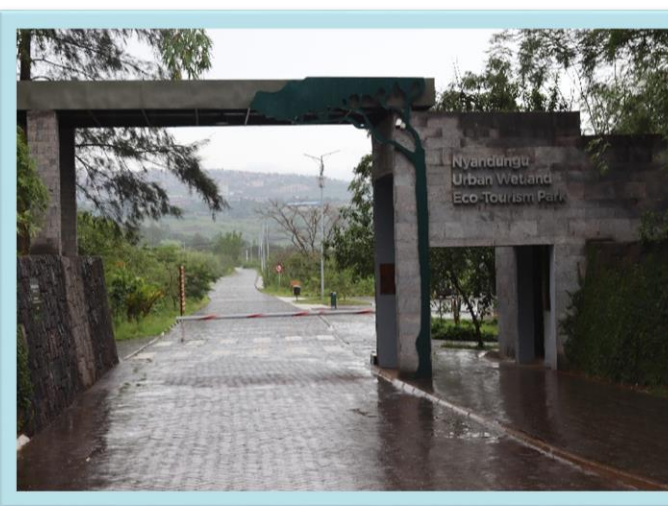
Building and Urbanization



Water and Sanitation



Irrigations and Dams



Environmental and Climate Resilient



Niche Sector Specific

Who we are

We are Astrik International

ASTRIK International Ltd is an experienced, privately owned Engineering Consulting Company with its office based in Kigali City of Kigali, Rwanda. Since its incorporation in January 2014, the Company has entered into partnerships with highly recognized International Organizations/Institutions, which operate at the forefront of technical excellence in developing professional engineering service and infrastructure solutions globally.



Our Philosophy is to;

- Put our Client's needs and quality as our first priority
- Transform knowledge into value for our clients', staff' and communities' benefit;
- With full dedication, strive to conduct our business in a more integrity and independent way;
- Recognize that our client's needs are paramount;



Our Core Values

The Core values are Integrity, Professionalism, Innovation, Accountability, Passion, diversity and Social Responsibility to forge change that will deliver our mission and achieve our vision,



To be a leading Engineering firm offering modern technological based solutions on public and private infrastructure that meets customer's requirements and promoting engineering profession through skill and knowledge transfer

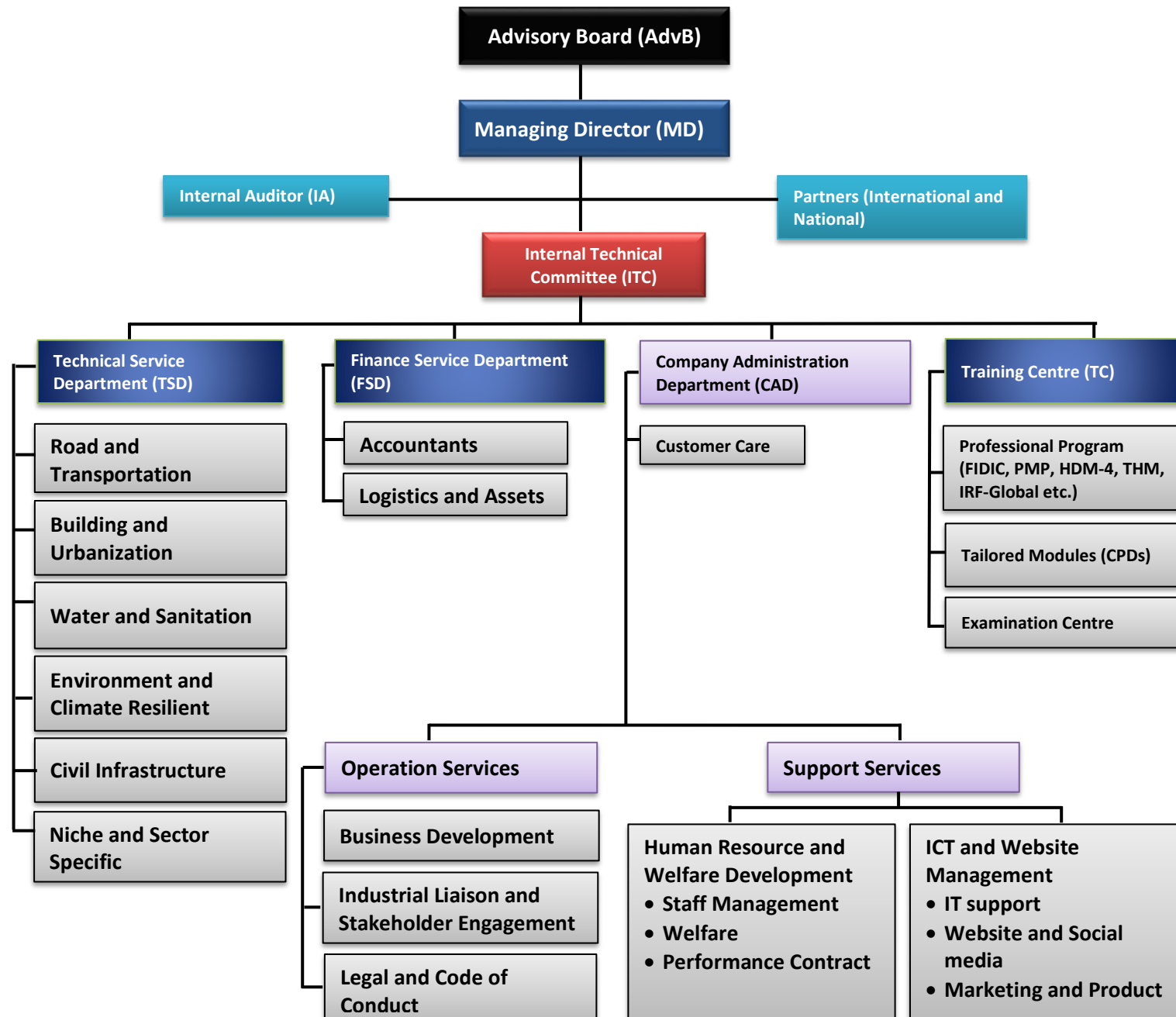


To provide profession services by promoting the use of modern technological solutions for efficiency, sustainability and affordable public and private infrastructure (development and maintenance) and enhance skills through capacity building of practitioners to ensure their competent and competitive on their job or market (Nationally and internationally).



To help Client achieve their business objectives by providing innovative, best-in-class consulting, Technological solutions and services. To make it a joy for all stakeholders to work with us

Our Company Structure



Our Services

ASTRIK International Ltd is an experienced consulting Firms, with **core competence** on professional Engineering service by providing highly qualified, team of experts both Nationals and International in delivering quality services by utilising best available resources.

The Firm has successful delivered multi-disciplinary projects in both Public and private Clients funded by the different National and Multination Agencies.

The main professional services includes but not limited to;

- The Feasibility studies (including reconnaissance survey and field investigation and data collection using modern equipment and software
- Project Management
- Technical Detailed Engineering Design
- Tender Preparation and Technical Assistance
- Monitoring, Supervision and Contract Management
- Operation and Maintenance
- Policy formation and Institution organization
- Training and Capacity Building (Transfer of Skills and Knowledge)

Our Services

BUILDING AND URBANIZATIONS

We provide a multi-disciplinary urban planning, landscaping and beautifications and building technology service to complement our wide range of construction and consultancy service. We deliver end-to-end building and civil engineering services, with our highly skill team incorporating, structural, mechanical, and electrical and IT services. All our design takes into consideration the maintenance strategies in the project life cycles.



- Building Concept, 3-D model architectural design
- Industrial building design. Permit and Supervision
- Urban settlement accessibility studies and community engagement
- Landscaping, greening and beatification design and supervision
- Urban drainage system planning and design and supervision
- Flood assessment mitigation and retentions
- Urban parking design, (on-street and Off street), Signage's and street light, street addressing
- Urban Master plan and settlement development/ real estates
- Technical maintenance services

Our Services

WATER AND SANITATIONS

To achieve the SDGs and to support safe, healthy urban living environments, sanitation services must be organized into public service systems. We provide unrivalled specialist know-how in designing state-of-the-art water and sanitation facilities from the initial planning stage through to completion and further add value by our commitment to a sustainable design agenda. Support PPP infrastructure-investment focused "solutions" to service focused mandates, accountability systems, and resource planning and financial management.

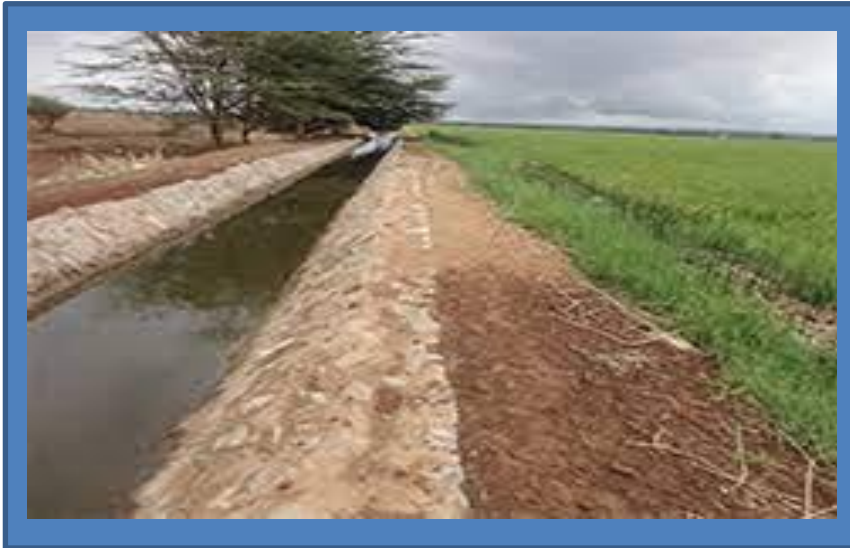


- Improve Water quality Wastewater Treatment and Safe reuse
- Sanitation support to Local Community and urban areas planning, design, and supervision (National, Urban, Rural)
- Liquid waste/Sewage system planning, design and Sewerage Treatment plant (STP) equipment, disposal and maintenance strategies
- Water and Sanitation residential and industrial infrastructure planning, design, and construction.
- Solid Waste Disposal system, transfer stations and dumping site
- Biomedical waste management
- ICT waste management

Our Services

IRRIGATION AND DAMS

We provide full range of professional service for the planning, budgeting and detailed design on the most technical accepted, economic and financial viability of irrigation either on marshland or hillside command area within the Valley as well as dams for the supply of water to livestock within the area

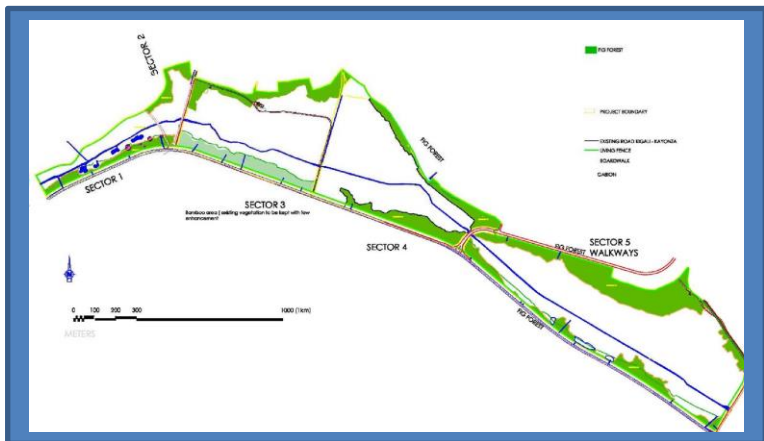


- Development of Irrigation and dam Master Plan
- **Irrigation and Drainage** system design and supervision.
- **Catchment assessment and evaluation and plans**
- **Soil stabilization, Dam/Dyke structure**, flood control, planning, design, and supervision
- **Wetland zoning** and piping installations and water supply
- **SMES development on irrigation management** system design and supervision
- **Dyke maintenance strategies** and Hydraulic modeling using generated flood profiles and flood scenarios.
- Development of **PPP projects** in the irrigation and dam project
- **Preparation of the O& M of existing irrigation networks and equipment**

Our Services

ENVIRONMENTAL AND CLIMATE RESILIENT

We evaluate and identify mitigation of environmental and community risks, advising our clients on how to make sustainable business improvements, helping them to manage their reputation when it comes to the environment. Our teams of experts operate at both a local and regional level, enabling us to have an understanding of the implications of the East Africa region's approaches to planning and the associated legislative requirements.



- Wetland restoration and Rehabilitation planning and design
- Development of Urban greening and recreational park planning and construction supervision
- Assessment of environmental risks and sustainable mitigations
- Environmental scoping and management plans
- Socio-economic consulting services
- Wetland mapping and GIS
- Land use and zoning planning
- Climate resilient infrastructure assessment and Management

Our Services

CIVIL INFRASTRUCTURE

We provide a full range of field investigation and data collection using the most state-of-the-art equipment and software Owned by the Company for civil infrastructure design and supervision. We are able to provide our clients with the most ancient methods of field data collection and layout work in the following areas:



- Topography survey and establishment of Photogrammetric Ground Control (DGPS, Total Station, Dumpy level and GPS)
- Geotechnical investigation and design
- Field investigation and data collection Equipment (DCP, Gamin video, travel speed garget etc.)
- Hydraulic investigation and design (bridge, Box culvert and Pipes culvert)
- Retaining structure (Road works, building and landscaping)
- Geographic Information Systems / GIS Management
- Asset management system (data collection and data management)

Our Services

NICHE AND SECTOR SPECIFIC

A niche service and Sector Specific is a segment of a larger market that can be defined by its own unique needs, preferences, or identity that makes it different from the market at large. We provide unrivalled specialist know-how in management services, community SMEs development for the road maintenance and rehabilitation from the initial planning stage through to completion and further add value by our commitment to a sustainable design agenda. We develop concept notes for virgin markets such as road safety campaigns to the road user in association with National Police. We provide modern aerial survey using unmanned aerial vehicles (UAV- drone) in partnership with the renowned drone company in Rwanda. We use modern equipment for the underground utilities investigation and mapping.



LABOR BASED TECHNOLOGY



- IT IS AN APPROACH IN WHICH MAJOR MEANS OF PRODUCTION OR INPUT OF LABOR IS PERFORMED WITH NON-MECHANICAL TOOLS
- FOR THOSE ACTIVITIES THAT CANNOT BE PERFORMED EFFICIENTLY OR EFFECTIVELY BY LABOR ALONE SIMPLE OR INTERMEDIATE EQUIPMENT IS DEPLOYED

- Project Management planning, budgeting and life cycle strategies
- Community SMES development for the road maintenance and rehabilitation in the urban and rural areas
- Construction Contract Management advisory
- Utilities investigation and mapping
- Unmanned Aerial Survey (UAV-Drone)

Our Services

TRAINING AND CAPACITY BUILDING (ASTRIK TRAINING CENTRE, (ASTC)

Astrik Training Centre, (ASTC) is located on the 2nd Floor of Astrik International Building. We offers various training and capacity building programs, skill development & field investigation modules which are internationally accredited. The training are presented by the Accredited Trainers who are renowned and recognized worldwide. Many of these courses are sponsored by the Government Agencies, Private Companies and individuals. The offered learning programs create opportunities for practitioners in the Construction Industry to acquire, on-job skill and share, and apply global and local knowledge and experiences in their job activities. There are two ways of imparting training and capacity building the most preferred is through face-to –face interactions between trainer and participants. The other is by using on-line (virtual) training. The Centre is equipped with mordent training equipment (computers i11, modelling software, sound system, smart screen (all in one)) which create a pleasant studying environment in both face-to face and on-line training method. The Centre also a restaurant which offers delicious menu to the participants during the training.



PROJECT MANAGEMENT PROFESSIONAL (PMP®) TRAINING PROGRAMME

Kigali - Rwanda

COURSE CONTENT

- MODULE 1: Project Management Framework / Processes
- MODULE 2: Project Integration Management
- MODULE 3: Project Scope Management
- MODULE 4: Project Time Management
- MODULE 5: Project Cost Management
- MODULE 6: Project Quality Management
- MODULE 7: Project Human Resource Management
- MODULE 8: Project Communications Management
- MODULE 9: Project Risk Management
- MODULE 10: Project Procurement Management
- MODULE 11: Project Stakeholder Management
- MODULE 12: Professional and Social Responsibility

PROGRAMME CONTENT

- System
- Self copies of course materials
- Material for the PMP exam
- Free Course access certificate
- PMP Registration support
- PMP Credential application support

Sigma Strat
Sigma Strategic System Consult Limited
www.sigmastrat.com

FIDIC TRAINING PROGRAM
ASTRIK TRAINING CENTRE (ASTC)

BEGINNER INTERMEDIATE ADVANCED

FIDIC TRAINING MODULES

- Module 1: FIDIC Contract Books
- Module 2: Claims and Dispute Resolution under FIDIC
- Module 3: International Law

PROGRAMME CONTENT

- System
- Self copies of course materials
- Material copy of Red & Yellow Books
- Free FIDIC Subscription Access letter
- FIDIC Accredited Training Certificate

FIDIC
INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS
www.fidic.org

INTERNATIONAL ROAD FEDERATION

Training on Road Implementing Pavement Systems

Training on Road Network Safety Management and Audit

Training on Roadwork Work Zone Safety

PROGRAMME CONTENT

- System
- Self copies of course materials
- Material for the International Roadwork Safety
- FIDIC Registration support
- FIDIC Credential application support
- FIDIC Accredited Training Certificate

IRF
www.irf.global



- FIDIC conditions of contract (red, yellow, green, silver and pink books)
- Project Management for Professional (PMP)
- Road safety and Technical Audit
- On-job training on pavement technology, (materials, recycling for rehabilitation, upgrading,) NMT, Lab and field testing
- Labour Based Technology (LBT) for Road maintenance, rehabilitation
- Construction Equipment and Modern Technology
- Other Tailored Made Modules as per the Specific Need (Leadership for Managers, Modelling software

Our Clients & funder & Partners

Agencies	Ministry	Multi-lateral Funders
		
Private Contractor	Current National and Regional Partners	Current International
		

Completed Projects



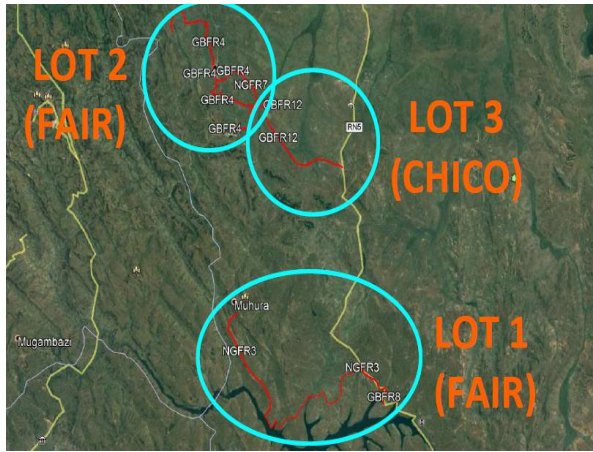
Project Details:

Detailed design of the selected roads (25Km) in the urban areas of the City of Kigali, the design was constructed as presented in phot above: Contract no. 00002/C/ICB/2017/2018/CoK Lot 1 (25Km)

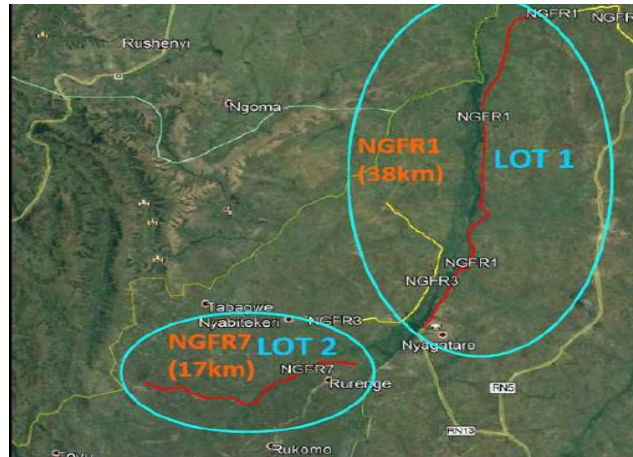
STATUS: Completed

Completed Projects

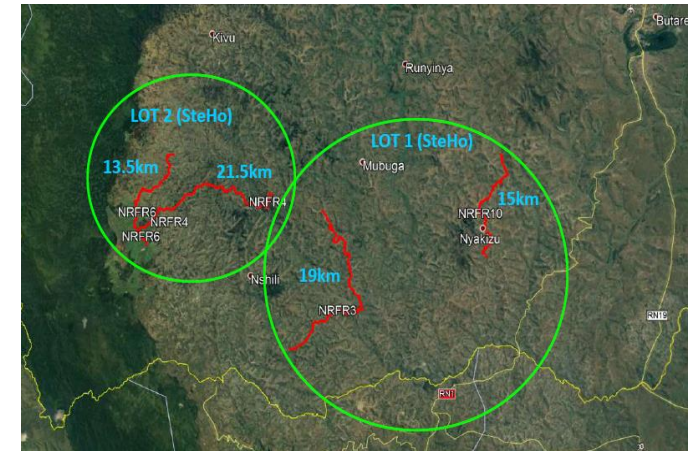
GATSIBO FEDEER ROADS



NYAGATRE FEDEER ROADS



NYARUGURU FEDEER ROADS



Project Details:
Design Review and Supervision for rehabilitation, upgrading and multi-year maintenance of indicative feeder roads in Gatsibo, Nyagatare and Nyaruguru Districts (207km): Contract RW-RTDA-CS-QCBS-58030
STATUS: Completed GATSIBO and NYAGATARE

Completed Projects

KARONGI ROADS



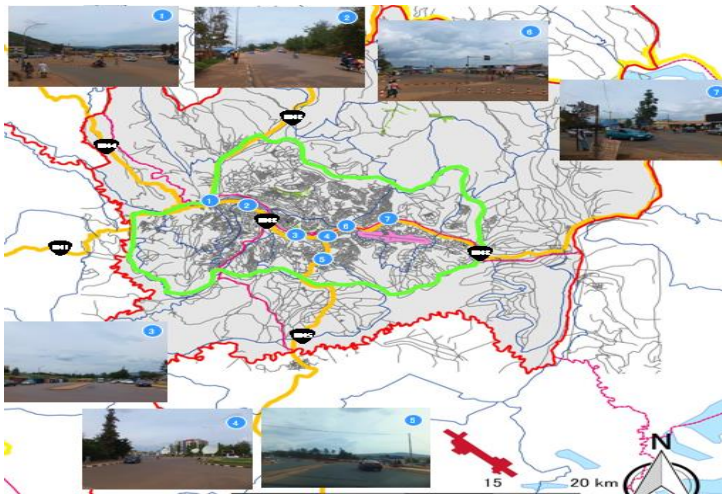
KIREHE ROADS



Project Details:
Feasibility study for the construction works of two roads in Karongi (50.08km) and Kirehe (74.35km):
Contract 00-000002/C/ICB/2019/2020/SPIUMINEMA

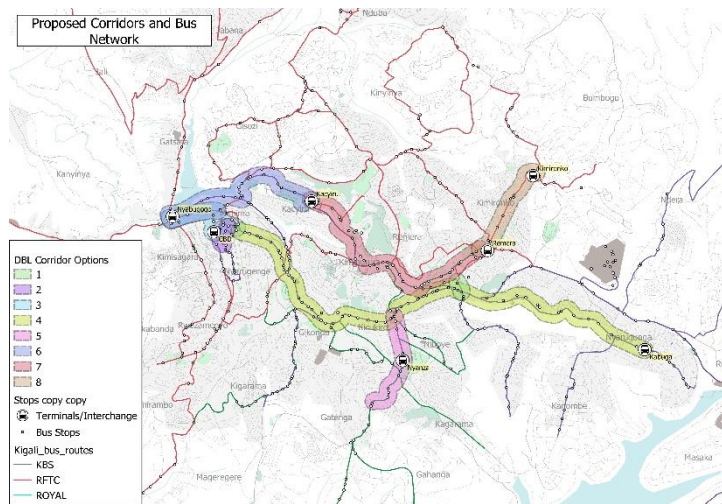
STATUS: Design Completed

Completed Projects



Project Details:
Detailed Traffic data collection survey for Feasibility study for development of urban mobility in the City of Kigali: Contract 0012/NK-JICA/CONS/2018

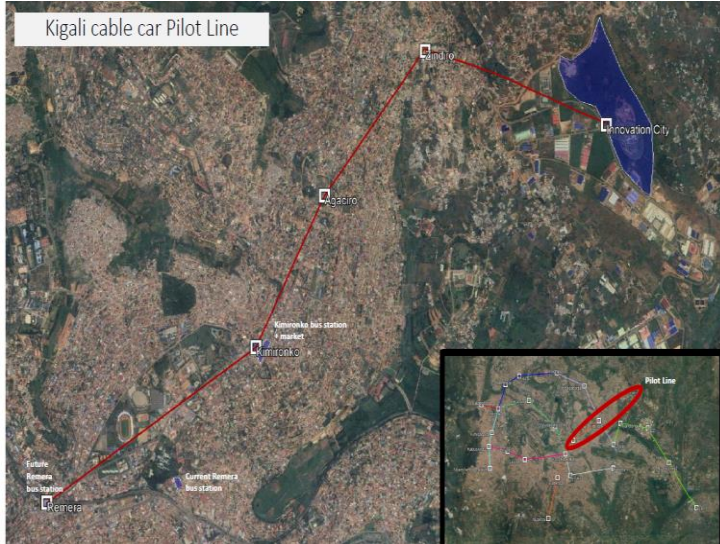
STATUS: Data collection Completed



Project Details:
Detailed Traffic data collection survey for Introduction of Bus Dedicated lane (BDL) in the City of Kigali: Contract 0017/ITP-UK/Cons/2021

STATUS: Data Collection Completed

Completed Projects



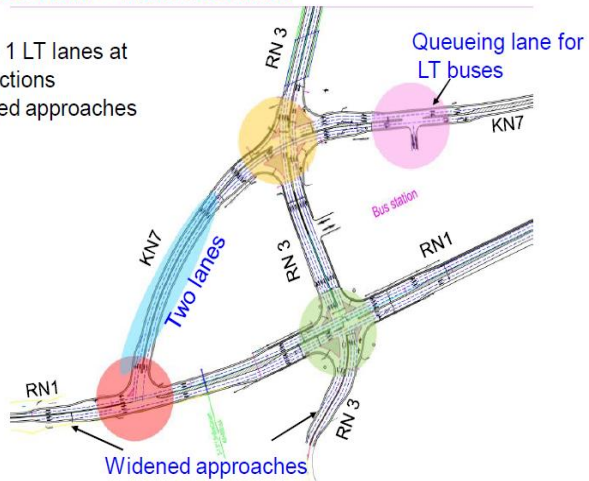
Project Details:

Detailed Traffic data collection survey for Introduction of Cable Car Pilot line in the City of Kigali: Contract 0017egis-France/Cons/2022

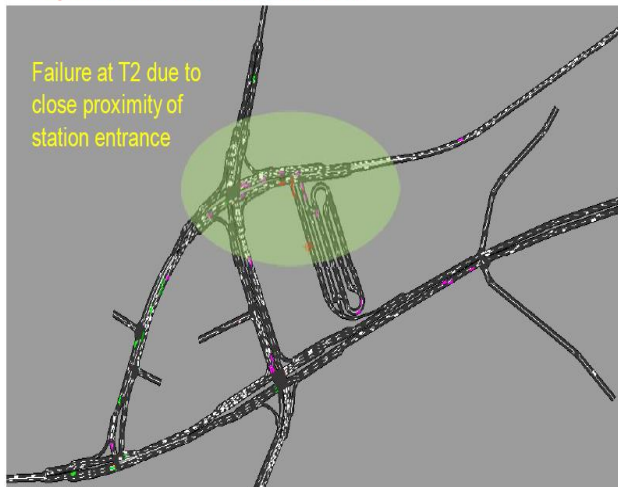
STATUS: Data Collection Completed

Improved Plan – Main Features

- 2 TH + 1 LT lanes at intersections
- Widened approaches



Operations with Planned BRT



Project Details:

Traffic operation study and simulation for Nyabugogo bus station and Design of all Major intersections: Contract 0007/CRBC/Cons/2018

STATUS: Design simulation Completed



SUSTAINABLE ENGINEERING SOLUTIONS AND CAPACITY DEVELOPMENT

WHO WE ARE

Consulting engineers offer professional engineering services and expertise to both public and private sector organizations

OUR SERVICES



Transportation



Building and Urbanization



Water and Sanitation



Irrigation and Dams



Construction Management

CONTACT US

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 Tel office: +250733304735
 training@astrik ltd.com
 www.astrik ltd.com



ASTRIK TRAINING CENTRE (ASTC)

WE PROMOTE
NEW TECHNOLOGIES
AND ON-JOB SKILL
DEVELOPMENT

PROJECT MANAGEMENT
PROFESSIONAL (PMP®)

FIDIC
TRAINING PROGRAM

INTERNATIONAL
ROAD FEDERATION

ASPHALT
INSTITUTE

HDM-4 VERSION 2
TRAINING COURSES



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