

BRIDGING THE
DIGITAL DIVIDE,
ONE CONNECTION
AT A TIME...**TOGETHER**



RURAL PARTNERSHIP & NAAS
INTRODUCTION

2023-2024



NURAN & MNO'S – CHANGING THE WORLD, ONE CONNECTION AT A TIME.

As leading MNOs, put more emphasis on sustainable goals – equal human rights, a cleaner, more responsible planet and an overall better tomorrow – as their primary focus, we at NuRAN have decided to support and simplify this route by making our rural solutions easily accessible no matter the project scale, allowing MNOs to meet and exceed objectives.

We've painstakingly found ways to dramatically cut the cost of our wireless solutions without compromising quality of the end product. We've put together a build-to-own, Network as a Service business model and raised substantial funds, allowing MNOs to preserve capital and human resources for their core business. We've developed partnerships in various sectors making for rapid deployment of towers, end to end. We've invested in the best Geo Marketing team and software to maximize ROI, and most of all, we've already begun subsidiary procedures in potential operating countries to accelerate the project rollout.

We at NuRAN, like you, believe that no village is too small to deserve 21st-century technology such as mobile services and present you this Rural Partnership Proposal. We're confident that our proven solutions, technical expertise as well as our social impact will resonate with your company values and goals, and will surpass your expectations.

NuRAN is ready! May this be the beginning of a powerful and life-changing partnership, the first step to a better world for ALL.



WHO WE ARE &
WHY WE'RE HERE



NuRAN Wireless is a leading rural NAAS mobile telecommunications company that meets the growing demand for wireless network coverage in remote and rural regions around the globe. With its affordable and innovative scalable solutions of 2G, 3G, and 4G technologies, **NuRAN** offers a new possibility for more than one billion people to communicate effectively over long distances efficiently and affordably.

WHO WE ARE

HOW WE GOT HERE

FOUNDED IN 1983 AS AN
ENGINEERING SERVICE COMPANY

BLUE-CHIP CLIENTS INCLUDED BMW,
TEXAS INSTRUMENTS, XILINX...

A BUSINESS SHIFT FROM
ENGINEERING SERVICE TO SOFTWARE
DEFINED RADIO IN 2011

FIRST ORIGINAL DESIGN
MANUFACTURER (ODM) CONTRACT
FOR DELIVERY OF INDOOR 2G BASE
STATIONS IN 2012

NAME CHANGE TO NURAN WIRELESS
AND CONCURRENT PUBLIC LISTING IN
2015

FACEBOOK PARTNERSHIP IN
CONJUNCTION WITH THE TELECOM
INFRA PROJECT IN 2016

INTRODUCTION OF 2G CARRIER-GRADE
RADIO ACCESS NETWORK (RAN)
SOLUTION IN 2016

PILOTS WITH TIER ONE MOBILE
NETWORK OPERATORS (MNO'S)
INCLUDING MTN, ORANGE, VODAFONE,
GLOBE TELECOM.... IN 2017



WHY NURAN'S BUSINESS MODEL

NURAN OFFERS TO TAKE CHARGE OF THE RURAL MARKETS ON BEHALF OF MNOS, ENGINEER A SOLUTION, DEPLOY AND OPERATE A NETWORK AND CREATE THE SERVICE THAT WILL ALLOW MNOS TO REACH ITS AMBITIOUS OBJECTIVES IN TERMS OF REVENUE, MARKET SHARE AND REGULATOR'S OBLIGATIONS WITHOUT HAVING TO DEDICATE AMPLE SCALE RESOURCES; FINANCIAL, MATERIAL AND HUMAN TO THIS TASK.

Increase market share

Gain mobile users

Avoid license obligation penalties

Expand mobile coverage

Increase EBITDA

Connecting the unconnected

Start low and grow

Easy upgrade capacity/technology

Beat the competition

Be first

Offset tariff reduction

Income from green field rural

Improve corporate brand

Major social impact

Focus on your core business

Focus while Nuran drives coverage

OUR EDGE OVER COMPETITORS



**PRE-ARRANGED FINANCIAL
FACILITIES WITH
DEVELOPMENT FINANCIAL
INSTITUTIONS (DFI)**

**MEET YOUR OBJECTIVES
WITH ZERO
INVESTMENT**

SECURED FINANCING FOR RAPID DEPLOYMENT

ESTABLISHED IN-COUNTRY OPCOs

- Telecom and Logistic Experienced staff
- Facilitate material movement
- Speed-up logistics
- Quality commissioning
- Solidify partnership with local pre-approved contractors

VALUE ADDED SERVICES

- Proven financing track record
- Full Turnkey Solution
- Environmental and Social Governance responsible
- Flexible and adapted site configuration
- Adaptative technology
- Multiple Business model

NAAS MODEL



The One-Stop-Shop for MNOs to build, optimize and operate their rural networks efficiently. Every step is carefully thought of and executed, from planning to financing from integration to operations.



RESPONSIBILITY MATRIX

DESCRIPTION	MNO	NURAN
Rural site location planning	✓	✓
Site infrastructure		✓
Power solution		✓
Radio solution		✓
Backhaul transmission solution		✓
Radio networking planning		✓
Radio single site verification		✓
Implementation service		✓
Managed service		✓
Network optimisation service		✓
Ems & oss solution		✓
Integration of EMS & OSS into MNO maps system (optional)	✓	✓

MNOs expand / upgrade their networks to meet coverage obligations and capacity requirements without capital investment

MNOs pay a service fee, either a revenue-share or fixed-open model with guaranteed minimums set to cover in-country operating costs

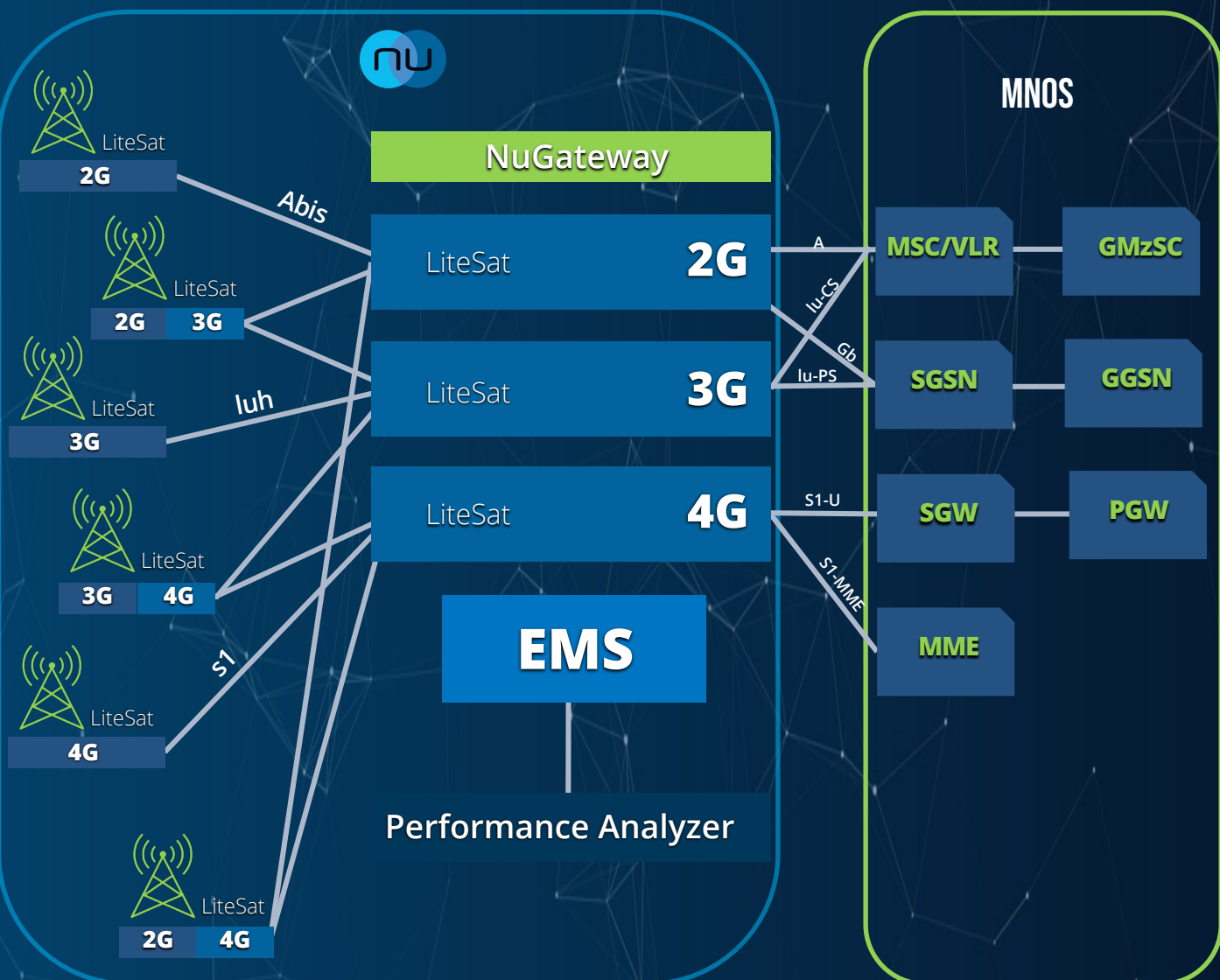
Contracts span up to 10 years.



OUR PRODUCTS & SOLUTIONS

NETWORK SOLUTIONS

Voici un texte qui explique le dessin en bas.
 Jfkdkjh idfjfskds djihjkzs jhidhkjdhska dishkjd
 sdhfsjkn dhkdsjks zkjhckds chjds njdk
 snjdkhjkskjhcjksdh kj jshdjks.



NURAN'S OWN TECHNOLOGY

NuRAN surpasses the competition by having its in-house expertise. Our team of engineers and R&D are continuously working on new solutions and technology to maintain our status of leading experts in the rural market. With analysis provided by existing towers, engineers can monitor the technology and trace calculated roadmaps for future equipment.



GSM LITECELL

2G Network

22km max. range

Populations of 1,000 to
20,000

**56 Watts Power
Consumption**

OC-2G

2G Network

4km max. range

Populations of 300 to
2,000

**14 Watts Power
Consumption**

LITECELL XG

2G, 3G, 4G, Wi-Fi
Networks

22km max. range

Populations of 4,000 to
40,000

**150 Watts Power
Consumption**



LITECELL

XG

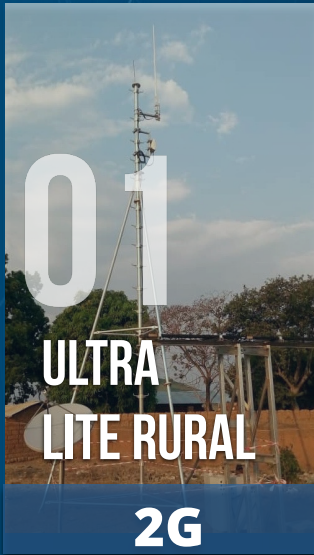
2G + 3G AND/OR 4G

**FUTURE
PROOF
INFRASTRUCTURE**

- State of the art, software-defined radio access network
- Operates multiple standards simultaneously
- Maximizes device compatibility
- Seamlessly evolves service to meet subscriber demand over time; no site intervention is required
- Seamless integration to operators' core (Ericsson, Huawei, Nokia)

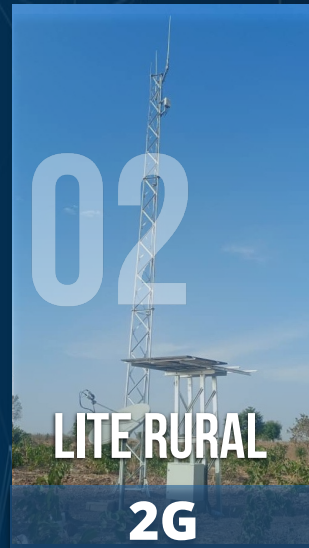
TOWER CATEGORIES

CUSTOM DESIGN TO SUIT POPULATION DENSITY



01
ULTRA
LITE RURAL
2G

Tower: 10 m, 12m
BTS OC2G
1 TRX @ 630 mW
Antenna: 10 dBi Omni
Exclusively solar powered
VSAT Backhaul
24 hours Average power consumption: 64W
Coverage radius:
Up to 2 km
**Populations covered:
Approx. 2500
inhabitants**



02
LITE RURAL
2G

Tower: 15 m, 20m
BTS LiteCell
2 TRX @ 10W
Antenna: 10 dBi Omni
Exclusively solar powered
VSAT Backhaul
24 hours Average power consumption: 115W
Coverage radius:
Up to 7 km
Populations covered: Approx. 5000 inhabitants



03
LITE RURAL
2G 3G

Tower: 20 m, 30m
BTS LiteCell 2Gx2:
4 TRX, @ 10W
Antenna: 10 dBi Omni
Exclusively solar powered
Terrestrial or VSAT backhaul
24 hours Average power consumption: 170W
Coverage radius:
Up to 7 km
**Populations covered:
Approx. 10000+
inhabitants**



04
RURAL
2G 3G 4G

Tower: 20 m, 30m
BTS LiteCell 2G & xG:
2 TRX, 2 carrier @ 10W
Antenna: 10 dBi Omni
Exclusively solar powered
Terrestrial backhaul
24 hours Average power consumption: 260W
Coverage radius:
Up to 7 km
Populations covered: Approx. 10000 + inhabitants



UPGRADABILITY:



MORE SITE CATEGORIES EXAMPLES ONLINE!



OUR SOCIAL MISSION & COMMITEMENT TO **SDGS**

SOCIAL MISSION



By offering the possibility to communicate via a mobile network, NuRAN aims to be a strategic actor in the well-being of ultra rural & rural communities. We believe that mobile connection in these areas is the first step toward social inclusion and, thus, a better quality of life.



THE COMMUNITY



Access to vital public and private services (e.i. Health, security, education and banking)



Enable important social inclusion and economic change in the community.



Generate micro and macro business climates within the community.



Improve the community's quality of life and increase opportunities.

SDG'S



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



7 AFFORDABLE AND CLEAN ENERGY



4 QUALITY EDUCATION



SUSTAINABLE DEVELOPMENT GOALS

11 SUSTAINABLE CITIES AND COMMUNITIES



1 NO POVERTY



13 CLIMATE ACTION



17 PARTNERSHIPS FOR THE GOALS



NURAN

CURRENTLY CONTRIBUTES TO

8 SDGs

THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT AS THE GSMA ADOPTED BY ALL UNITED NATIONS MEMBER STATES IN 2015, PROVIDES A SHARED BLUEPRINT FOR PEACE AND PROSPERITY FOR PEOPLE AND THE PLANET, NOW AND INTO THE FUTURE. AT ITS HEART ARE THE 17 SUSTAINABLE DEVELOPMENT GOALS (SDGS).



TO FULLY ENGAGE IN AT LEAST 11 OF THE 17 SDGS BY YEAR 2025



OUR ENVIRONMENTAL PROMISE

To continue using green energy on all our projects and minimize our carbon footprint using the lowest energy consuming products available and partnering with local vendors when possible.

The world's lowest power consumption products

Powered by solar panel energy

Sites built with minimal environmental disruption

13 CLIMATE ACTION





QUESTIONS? CONTACT

OUR TEAM

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