



Connecting the Unconnected

**Investor Presentation
July 2018**

CSE:NUR
FSE:1RN
OTC:NRRWF

Connecting the Unconnected

We deliver the **world's most affordable, lowest power consumption** and **easiest to deploy** mobile and broadband wireless infrastructure solutions.

The company provides specialized solutions for outdoor coverage:

- Full site to connect rural areas (tower, solar panel, network)
- End-to-end Radio Access Network (RAN)
- Private mobile networks or custom solutions for specific markets such as Internet of Things (IoT), public safety, emergency or crisis communications



Company Overview - Corporate Structure



For over 33 years and across two entities, NuRAN has delivered the best in class technology, product innovation and deployable solutions in wireless.

NuRAN Wireless Inc.

FSE:1RN
CSE: NUR
OTC: NRRWF

Connecting the Unconnected

The world's most affordable, lowest power consumption and easiest to deploy wireless solutions

Nutaq Innovations Inc.

Innovation today for tomorrow

A wholly owned subsidiary
of NuRAN Wireless

CONNECTING EVERYONE, EVERYTHING, EVERYWHERE

Nutaq Innovations Inc.

Wholly owned subsidiary



Nutaq is the technology development arm of NuRAN Wireless

- Leading provider of advanced digital signal processing (“DSP”) solutions and wireless technologies, including software defined radios (“SDR”). The Company also provides Engineering Services.
- Focus on testbed and lab equipment for 4G LTE-A, IoT and 5G Massive MIMO
- Nutaq successfully filed in February 2017 a 5G International Process Patent Application
- **Nutaq holds a Canadian Patent on its proprietary 5G Massive MIMO technology**
- Collaboration with u-blox on a NB-IoT project

Nutaq customers include:



- **Martin Bedard –President & Director**

- Martin has 15 years of experience in business and management. His company took over the operations of Nutaq in 2011. Martin is an attorney and holds an LL.B from Sherbrooke University. He is also a member of the Quebec Bar Association.

- **Francis Létourneau – Vice President, Sales & Marketing**

- Francis joined Nutaq now Nuran Wireless in 2003 and is currently responsible for the Company's sales and marketing functions, including implementing the Company's wireless product strategy and positioning the Company as a market leader for SDRs in the wireless sector. Francis was also involved in the Company's rebranding to Nutaq Innovation following the acquisition of Lyrtech, the predecessor company to Nutaq and building the Company's current sales and marketing team. Prior to his role as Vice President of Sales and Marketing, Francis held various other roles at Nutaq including, Business Development Manager. Francis holds a BA from Laval University and is a registered CMA.

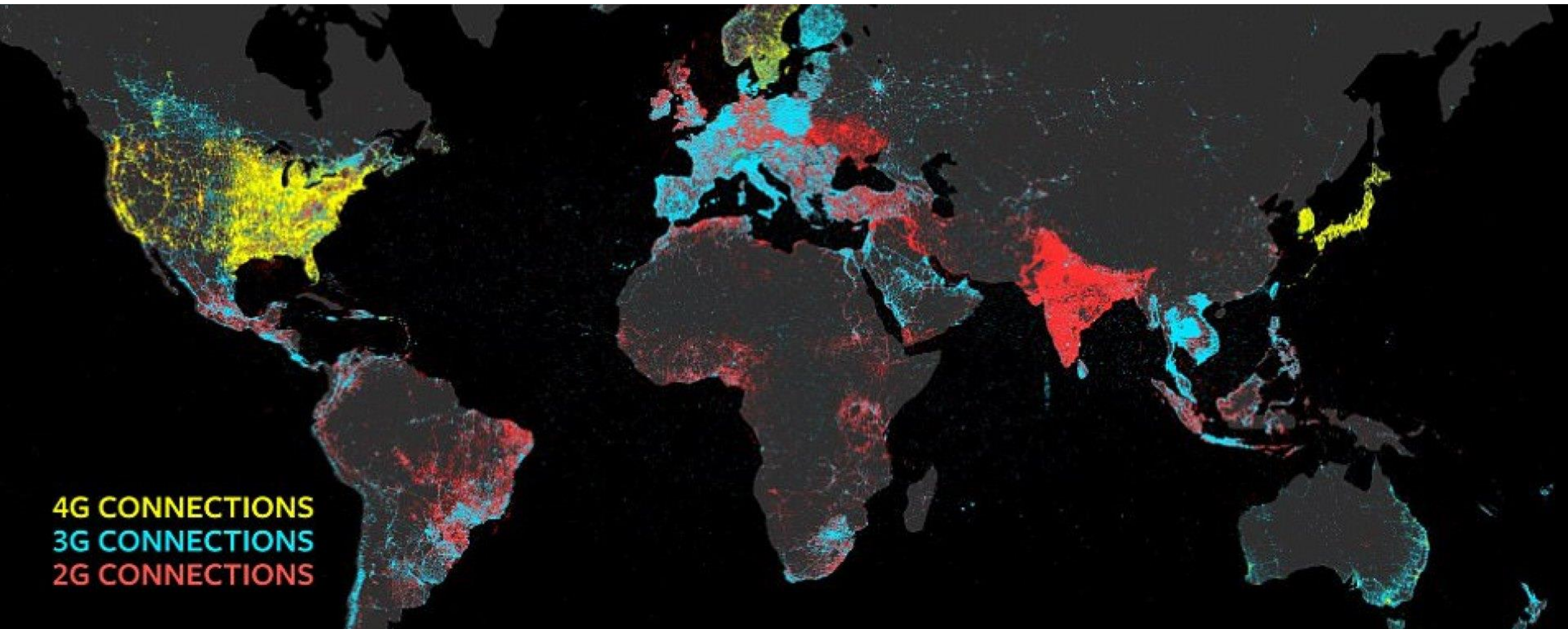
- **Thierry Cases – Vice President, Operations and Research & Development**

- Thierry joined Nutaq in 2001 and is currently Vice President of Operations, overseeing purchasing, logistics, customer service, technical support and production functions at the Company. In addition, Thierry serves as the main interface between the Operations/R&D and the Accounting/Finance departments. Thierry has held several positions at Nutaq over the past 12 years including, Product Division Director, Special Project Manager, Software Product and Project Manager and Technical Support Manager. Thierry holds a B.Sc. in Electrical Engineering from Laval University and is pursuing an MBA at Laval University

- **Maxime Dumas – Vice President, Strategy and Corporate Development**

- Maxime Dumas is a founding member of NuRAN Wireless Inc. Mr Dumas helped define NuRAN's vision and played a key role in establishing the company as a leading supplier of mobile and broadband wireless solutions. He also built flourishing partner relationships with key industry players such as Facebook, and positioned NuRAN at the forefront of the Telecom Infra Project. Mr Dumas's role is to execute the company's vision and define the strategies that ensure sustained growth. Prior to NuRAN, Mr Dumas held several technical and business development positions within Nutaq with involvement in software-defined radio, small cells, next-gen wireless, electronic warfare, high-energy physics, and life sciences.

Industry Overview – The Challenge



Over **3.7 billion people** do not have Internet Connectivity or Cellular coverage.
In rural areas, this represents **70% of the population**.

- Global connectivity is still very low (below 70%)
 - Many do own a Mobile device, but are unable to connect regularly
- Prior to NuRAN, the technology available was simply **too expensive for operators to deploy in those markets**
- Over 3.7 billion people do not have Internet Connectivity or Cellular coverage.
 - In rural areas, this represents 70% of the population.
- Only developed regions use advanced technologies
- The growth of IoT (Internet of Things) demands more coverage at a lower cost structure.

Portfolio of Solutions

World's Lowest Cost, Lowest Consumption Infrastructure



GSM LiteCell (voice & basic data)

- Up to 22 km radius (or about 13.6 miles)
- Population: 2,000 - 20,000
- Power Consumption: 56 Watts



OC-2G (voice & basic data)

- Up to 4 km radius (or about 2.5 miles)
- Population: 200 - 2,000
- Power Consumption: 14 Watts

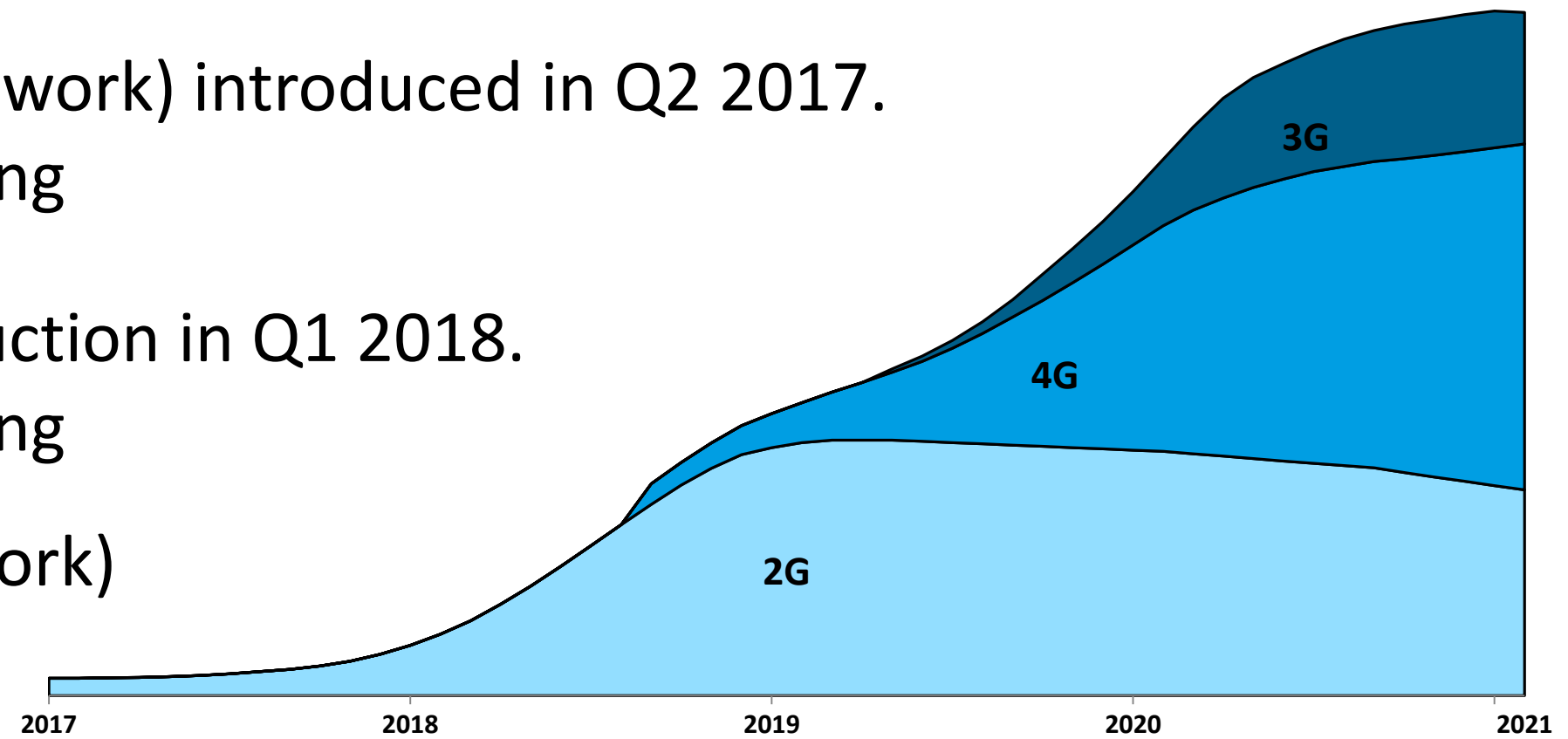


OC-LTE (broadband data)

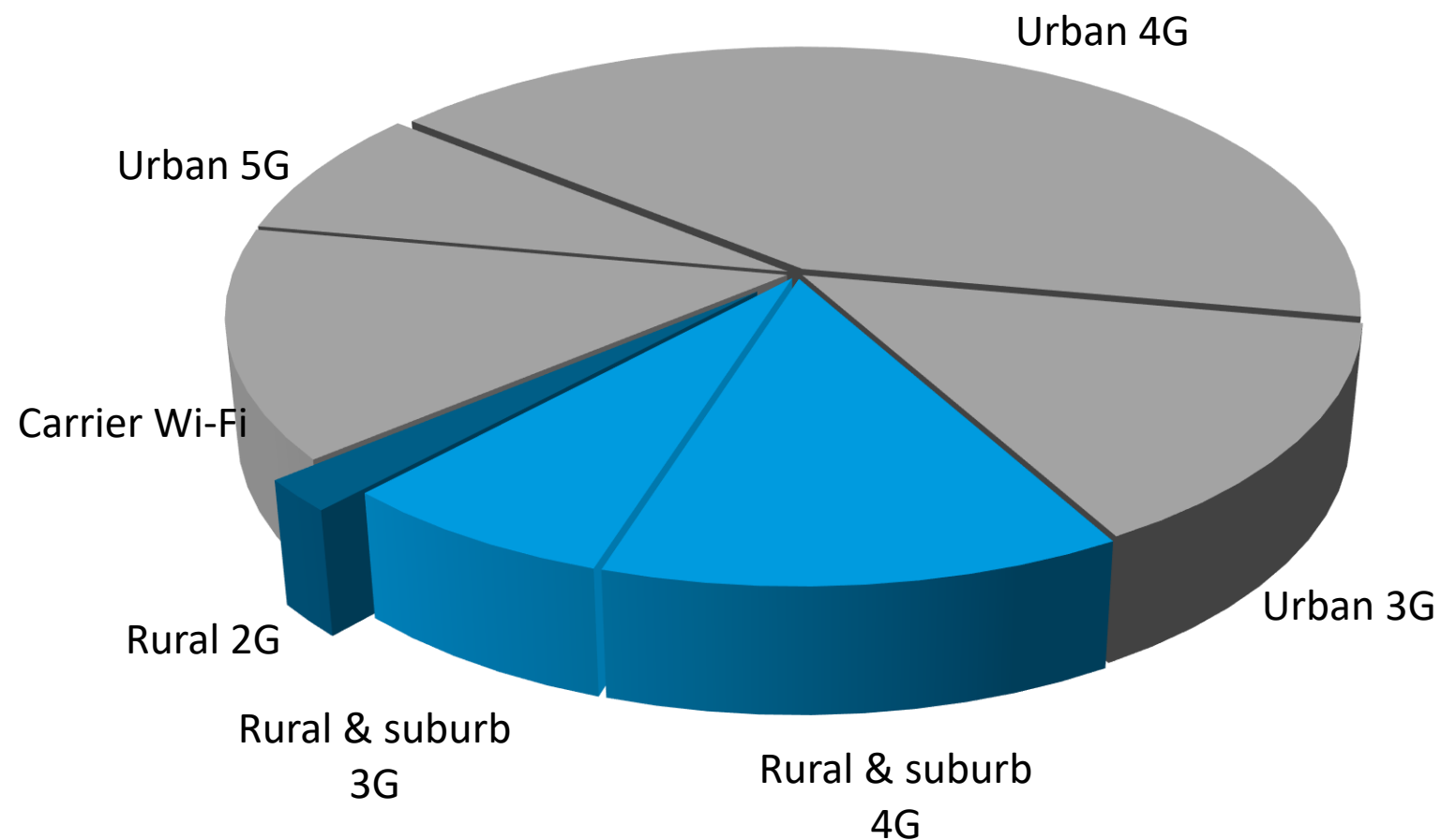
- Up to 4 km radius (or about 2.5 miles)
- Population: 2,000 - 20,000
- Power Consumption: 55 Watts

Portfolio & Business Evolution

- **LiteRAN 2G** (complete rural GSM network) introduced in Q2 2017.
 - Q3 2018: Revenue ramp-up starting
- **OC-LTE** (4G outdoor eNodeB) introduction in Q1 2018.
 - Q4 2018: Revenue ramp-up starting
- **LiteRAN 3G** (complete rural 3G network)
 - Introduction planned for 2019.



Distribution of mobile operator CAPEX by infrastructure type



Dark blue = currently addressed market

Light blue = additional markets to be addressed

Gray = currently untargeted market

NuRAN's Recent Achievements



Q1 2018:

- ✓ NuRAN receives 400K Purchase Orders to connect Remote Africa and Canada
- ✓ First Blockchain mobile crypto transaction enabled on NuRAN Wireless deployment in Nigeria, enabling rural mobile transaction for billions of people unbanked
- ✓ NuRAN Ships First OC-LTE Base Stations to Multiple Tier-1 Operators Worldwide

Q2 2018:

- ✓ NuRAN signs for 1.8 M CAD of Purchase Orders in second Quarter 2018
- ✓ NuRAN Granted 5G Canadian Patent
- ✓ NuRAN Earns Frost and Sullivan enabling technology leadership award
- ✓ NuRAN announces closing of oversubscribed first tranche of private placement
- ✓ NuRAN Selected by Africa Mobile Networks for multiple African countries
- ✓ NuRAN Wireless and Avanti Communications sign partnership agreement

Q4 2017:

- ✓ NuRAN Announces the Commercial Availability of the Telecom Infra Project's OpenCellular OC-2G Base Station





NuRAN's Recent Achievements

Deployed **over 8,000 units** on **5 continents** worldwide and established partnerships with **tier-one operators**.






Tier-One Operators – NuRAN End Customers



Tier-One Operator		Total subscriptions (in millions)
	Vodafone	516.0
	Airtel	395.7
	América Movil	279.1
	Telefonica	271.1
	MTN Group	221.3
	Orange	201.9
	Telenor	170.1

Tier-One Operators – NuRAN End Customers



Tier-One Operator	Total subscriptions (in millions)
 Verizon Wireless	148.9
 AT&T Mobility	138.8
 Globe Telecom	62.8

Telecom Infra Project

NuRAN's OC-2G & OC-SDR



NuRAN Collaborates with the Telecom Infra Project to Deliver OC-2G, a 2G Open Source Platform & OC-SDR

NuRAN Wireless is working in collaboration with the Telecom Infra Project ("TIP") as the original equipment manufacturer (OEM) and distributor of OC-2G & OC-SDR, which are open source wireless platforms developed for the OpenCellular initiative.

OC-2G is a carrier-grade base station which brings voice and data connectivity profitably to even the smallest of communities.

NuRAN will supply and support OC-2G & OC-SDR, disruptive open-source and cost-effective wireless access platforms specifically designed to improve Internet and mobile connectivity in remote areas.

This initiative is part of the Telecom Infra Project (<https://telecominfraproject.com>) announced in 2016.



TELECOM INFRA PROJECT



Telecom Infra Project

NuRAN's OC-LTE



NuRAN Retained by the TIP as a Development Partner for the OC-LTE Platform

At Mobile World Congress 2017, the largest mobile gathering in the world, it was announced that NuRAN was also retained by the Telecom Infra Project to develop, in collaboration with Cavium & Keysight, the newer OpenCellular platform made specifically for LTE.



facebook

Project Leader
(NASDAQ:FB, Mkt Cap: \$583.27 B)



Designed the digital portion of the platform
(NASDAQ:CAVM, Mkt Cap: \$5.8 B)



Designed the testbed
(NYSE:KEYS, Mkt Cap: \$11.35 B)



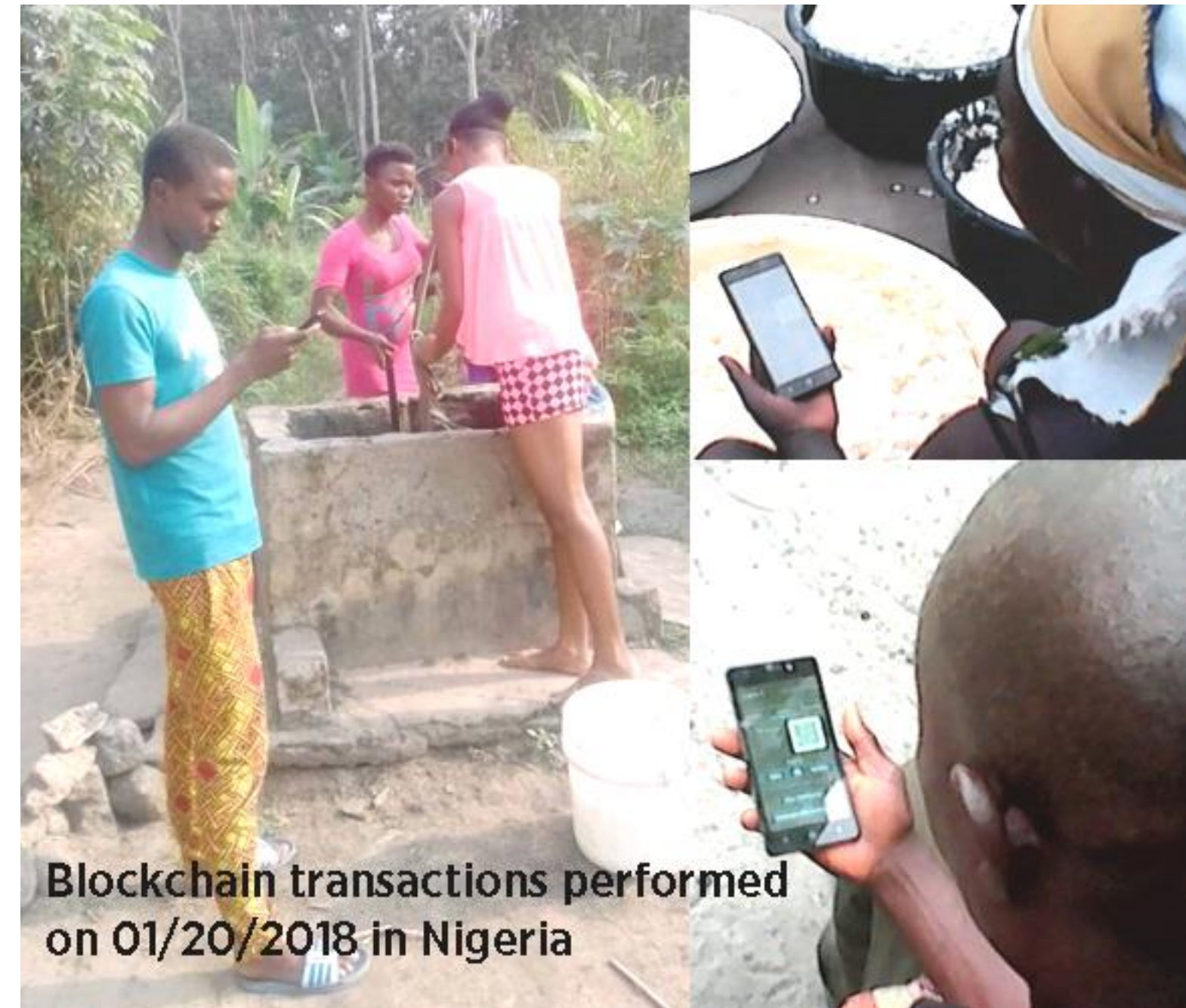
Designed the front-end section of the platform

...effectively resulting in a complete, low-cost LTE base station



NuRAN Enables its First Mobile Blockchain Transaction for the Billions of Unbanked

- 2 Billion people worldwide are unbanked
- In some countries, 95% of transactions are made with cash, posing security and convenience issues
- Many unbanked people possess a cell phone, which provides them with the solution to access the digital trading system
- Mobile Financial Transactions can be performed through NuRAN's mobile infrastructure equipment.
- The first blockchain transaction was performed in Nigeria and it **can be replicated anywhere** else in the world where a NuRAN base station is installed.



By bringing mobile connectivity, NuRAN not only solves basic communication issues, it also empowers the communities to finally access the digital trading system

NuRAN Earns the Frost & Sullivan 2018 Sub-Saharan African Tower Infrastructure Enabling Technology Leadership Award



- This award **recognizes the significant social and economical impact** of NuRAN's rural-targeted mobile connectivity solutions
- In its analysis, Frost & Sullivan underlines the significant impact of NuRAN's technology on not only the African, but worldwide thrust toward digital inclusion of the next billion, and **highlights the company's leadership position** in rural connectivity.
- Also cited in Frost & Sullivan's analysis is NuRAN's recent achievement around mobile broadband solutions adapted to Sub-Saharan markets.



“With its innovative cellular infrastructure solutions, NuRAN demonstrated its **deep understanding** of the technical and economical challenges that mobile operators face in remote rural context. [...] **rural network expansion projects that were traditionally deemed non-profitable may now be carried on with economical viability.**” – Frost & Sullivan, April 19, 2018

NuRAN Selected with Google, Nokia & Ericsson to be Featured at MWC by GSMA



- NuRAN's LiteCell 1.5 has been selected by the GSMA to be prominently featured in the Humanitarian Innovation Showcase at Mobile World Congress in Barcelona, the world's largest mobile industry conference
- NuRAN's LiteCell 1.5 was selected because of how it can restore telecommunications in critical times such as after natural or man-made disasters in a timely manner and using the most basic means.
- Other hardware solutions selected to be highlighted in this showcase included Nokia Saving Lives, Pawame, Ericsson's Connect to Learn and X's (formerly Google X) Project Loon.



Planned Rollout for 2018-2020

Our planned rollout would provide mobile connectivity to over **29.5 million** people with **10,000 sites** located in **24 countries**.



Forecast for 2018-2020

Year	2017	2018	2019	2020
Sites	100	1,000	4,000	10,000
Population connected	0.3 M	3 M	12 M	30 M

Average unit cost per site = \$3,500 USD (approximately)

Forecast does not include:

- Rollouts arising from Facebook partnerships (e.g. Telefonica, Vodafone, MTN, Telenor)

Share Metrics



CSE:NUR	
Frankfurt: 1RN	
OTC-Pink: NRRWF	
Share Price (CAD) as of (July 16 th , 2018)	\$0.12
52-Week Range (CAD)	\$0.08-\$0.23
Shares Outstanding as of July 9 th , 2018	138.7 M
Fully Diluted Shares (Including convertible debenture of 4.25M @ CAD\$0.12)	232.7 M
Market Cap (CAD)	16.66 M
Warrants (8.5 M exercisable @ CAD\$0.30 and expire February 23 rd , 2019; 8.5 M exercisable @ CAD\$0.45 and expire February 23 rd , 2020; 31.9M exercisable @ CAD\$0.20 and expire June 6 th , 2020)	48.9 M
Options (exercisable between CAD \$0.15 to CAD\$0.25 from July 12 th 2019 to July 12 th 2021)	9.8 M

52-Week Price Chart (as of July 16, 2018)



<u>Major Shareholders</u>	<u>Ownership %</u>
Management & Insiders	8%
Private Investor & Insider	44%
TOTAL	52%

verizon[✓]



Established: **1983**

Subsidiary: **Nutaq Innovations Inc.**

Head Office: **Quebec, Canada**

Employees: **40**

Stock: **CSE:NUR**
FSE:1RN
OTC:NRRWF



T-Mobile®



Siminn



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Installation in Tchamba – Jungle to Phone Call in 12 hours

