



**ClemTech LLC**

# Wireless Innovations

Game-Changing Wireless  
Technology for Underserved  
Nations and Rural Areas.

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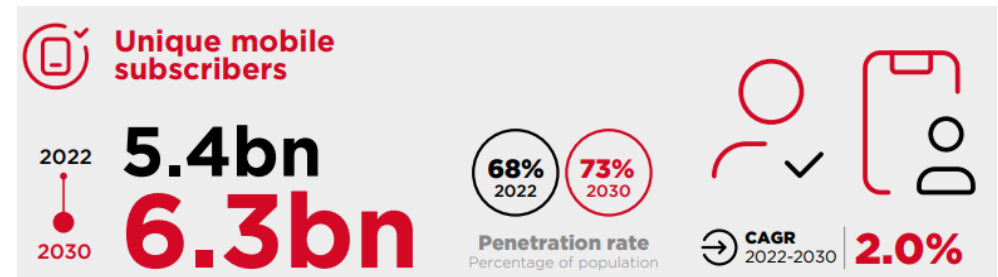
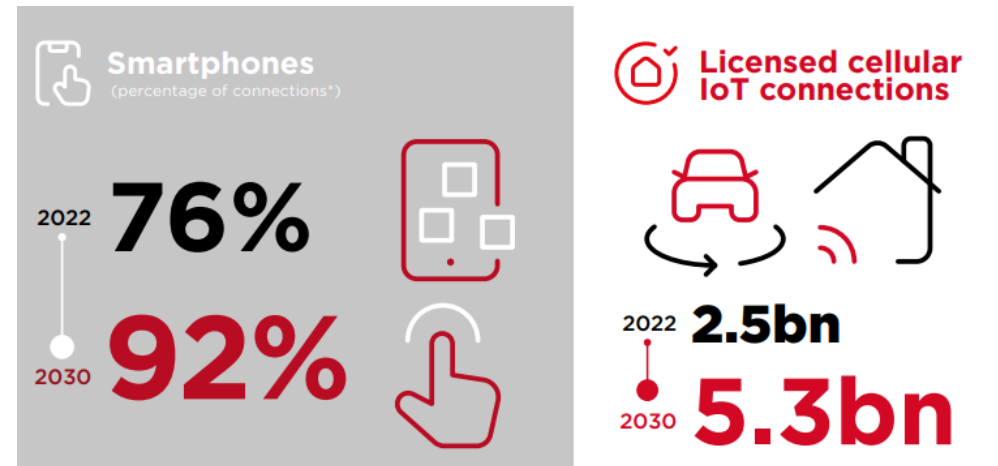
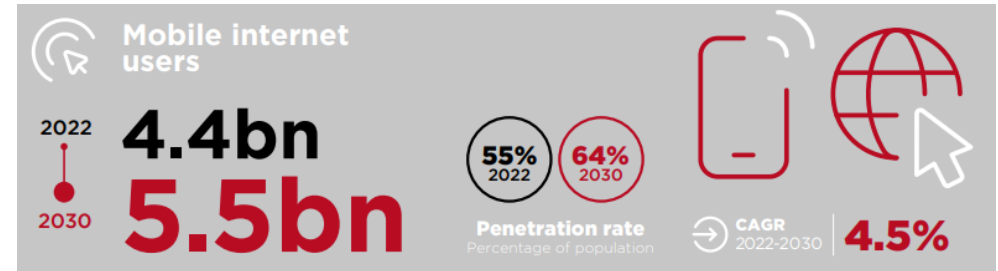


# Investment Capital with Impact

**Investment in Technology:** Our presentation emphasizes the essential funding required to introduce our technology to the market.

- **Patented Wireless Technology:** Our scientist, Dr. Greg Warnes, has secured a patent for the wireless technology we are inducing. Ownership is firmly established.
- **Impressive ROI:** Expect a remarkable return on investment based on innovation and market demand (GSMA; The Mobile Economy).
- **Flexible Investment Models:** We are examining a range of investment models for evaluation.

## The Mobile Economy



# Investment

**Investors will significantly reduce the digital divide in underserved nations.**

- Allocate ownership percentage to partners aligned with our strategy.
  - These partners aim to enhance digital communications in underserved nations and establish high-speed digital infrastructure in sectors like farming, finance, manufacturing, oil/gas, and infrastructure.
- The investment virtually assures quality returns in a short time.
- **Innovative Instruments** facilitate swift market entry to and product rollout.

**Total investment 2,918,440**

Event/Activity	Location	USD
Custom Decoder Demonstration	United States	\$2,820,440
Travel	United States	98,000



Let's improve internet access and speed together

# Doing Better



## The state of digital in Guinea in 2024

As of 2024, the state of cellular coverage continues to evolve. While I don't have real-time data, I can provide insights based on historical trends and general observations:

### 4G and 5G Deployment:

1. The deployment of **4G** networks is expected to continue, providing faster data speeds and better overall performance.
2. **5G** rollout may also be on the horizon, although it might take some time to establish widespread coverage.

### Challenges:

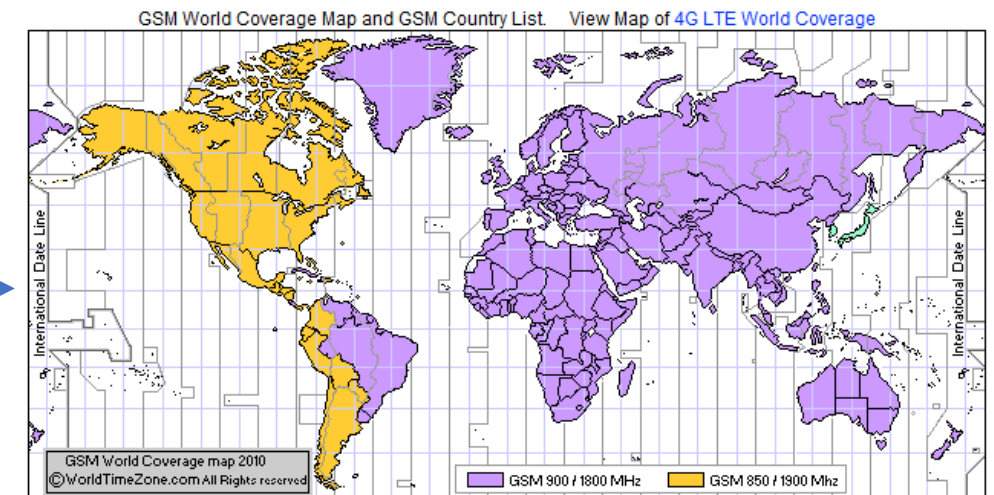
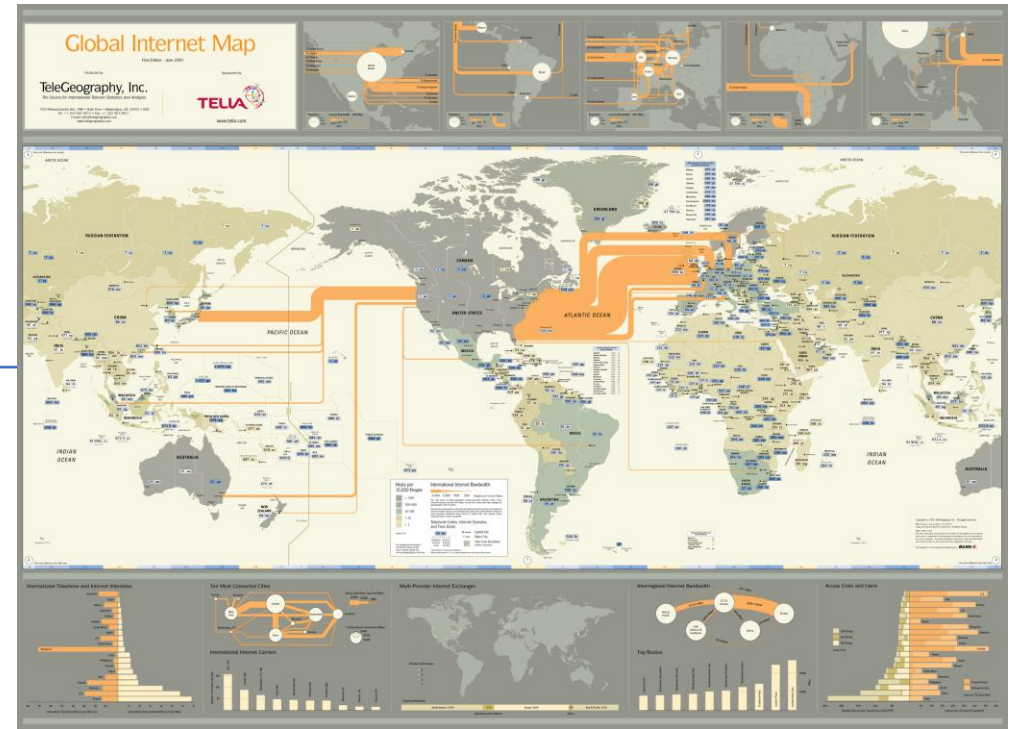
1. There are global challenges related to infrastructure, terrain, and economic factors. These challenges can impact the pace of network expansion.
2. Ensuring reliable connectivity in rural and underserved regions remains a priority.

### User Experience:

1. Users can expect improved call quality, faster internet browsing, and enhanced multimedia experiences.
2. However, network congestion during peak hours or in densely populated areas may still occur.

Remember that real-world conditions may vary, and it's always a good idea to check with local providers for the most up-to-date information on cellular coverage.

4G and 3G coverage maps



GSM (Groupe Special Mobile) - Global System for Mobile communications - most popular standard for mobile phones in the world.  
GSM 900 / GSM 1800 MHz are used in most parts of the world: Europe, Asia, Australia, Middle East, Africa.  
GSM 850 / GSM 1900 MHz are used in the United States, Canada, Mexico and most countries of S. America.

# Introducing the ClemTech INOUÏ Fixed Wireless Network System

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Our patented INOUÏ wireless technology (US Patent 9,602,228 B1) provides high capacity, high performance, high-reliability broadband network communications over long distances, enabling fixed wireless access (FWA) networks spanning large areas.

When paired with fiber or satellite links for backhaul, ClemTech's INOUÏ Fixed Wireless Network System enables high-performance broadband internet access to be provided in remote and underserved areas at an affordable cost.



# Key Differences

Key differences between Fixed Wireless Access (FWA), satellite link, and fiber optic cable networks:

1. **Speed:** FWA networks generally perform better than satellite links, with lower latency and higher bandwidth.
2. **Cost:** FWA networks have substantially lower infrastructure build-out and maintenance costs than satellite and fiber optic cable networks.
3. **Availability:** FWA networks can support more concurrent connections at higher throughput than satellite signals, especially in urban areas. Unlike fiber networks, FWA networks also provide access over wide areas without the cost and delays required to run cables to each served location.
4. **Mobility:** FWA network components are more mobile than fiber optic cables, which are fixed and cannot be moved easily.
5. **Ease of use:** FWA networks are easier to set up and use than satellite links, which require a satellite receiver with a clear line of sight to the satellite(s)<sup>1</sup>, and fiber optic networks, which require costly installation and maintenance of the fiber cables.
6. **Reliability:** FWA networks are substantially more reliable than either satellite links or fiber optic networks. Satellite links require a clear and unobstructed line of sight to the network satellite(s). They are notoriously susceptible to inclement weather, while fiber optic cable, whether strung on poles or buried, is susceptible to damage from accidents, extreme weather, and vandalism. Further, FWA networks can be *self-healing*, allowing the network itself to continue operation even if an individual network node is disabled.

# Wireless Innovations INOUİ-1000A

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- INOUİ wireless network components provide high capacity, high performance, high reliability, and Fixed Wireless Access mesh network that can cover long distances and large areas at an affordable price point.
- The INOUİ-1000A is an exceptionally adaptable device, capable of being customized for diverse communications applications, such as:
  - Last mile internet (fixed wireless)
  - Wireless mobile telecommunications
  - Broadband internet
  - Satellite communications
  - Internet backbone (microwave + fiber-optic)
  - Industrial signaling
  - Military communications systems
  - First responder radios





# Advances are unparalleled in the field of broadband communications.

- While StarLink™ and ViaSat™ offer simple satellite-to-Wi-Fi architecture for home use, neither can match the cost, throughput, range, or flexibility of our solution.
- The INOUİ mesh network system is designed to be as versatile as a 5G network, with higher reliability at lower cost. The scope of our INOUİ mesh network is truly remarkable when you consider the ease of installation, affordability, and benefits it provides.

Table 1 Comparison VS Private 5G.

	Private 5G	INOUI Mesh	Benefit
Maximum Range	2.5 miles	10 miles	· 4x Longer Range · Fewer nodes needed to span distance
Transmission Path	Line of Sight (LOS)	Near Line of Sight (NLOS)	· Penetrates foliage & moderate structures · Fewer & shorter towers needed
Speed	< 100 Mbs down < 20 Mbs up	up to 1 Gbs down up to 1 Gbs up	· 10x - 50X higher data capacity · Qualifies for US Federal & State Broadband funds
Noise resilience	Low	High	· Increased reliability
Required transmission power (amplification)	Moderate	Low	· Less expensive hardware





# Encoder Demonstration Buildout and Architecture

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We have an arrangement with Vanteon Wireless Solutions for testing, final testing, and prototypes. Vanteon is a design services company offering complete electronic systems design and engineering solutions with a focus on Wireless and RF design. Our services include:

Analog Design | High-Speed Digital Design | RF Hardware Design | Embedded Software | FPGA Design | Software Defined Radio | Digital Signal Processing

The specific work tasks to be performed and the work products to be produced are described in the following slides. The proposed schedule, fees, and expenses for this work are listed.



# Statement of Work Schedule

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Event/Major Activity	By	Target Schedule
Project Kick-off	Both	Start
Mathworks Modeling and HDL Generation	Vanteon	Start + 18 days*
Review of MatLab/Simulink Results	Both	Start + 20 days*
Port of HDL to vP+	Vanteon	Start + 32 days*
Benchmark Testing of Encoder Demo	Vanteon	Start + 40 days*
Review Results of Encoder Demo	Both	Start + 41 days*

# Prototype Fees & Expenses

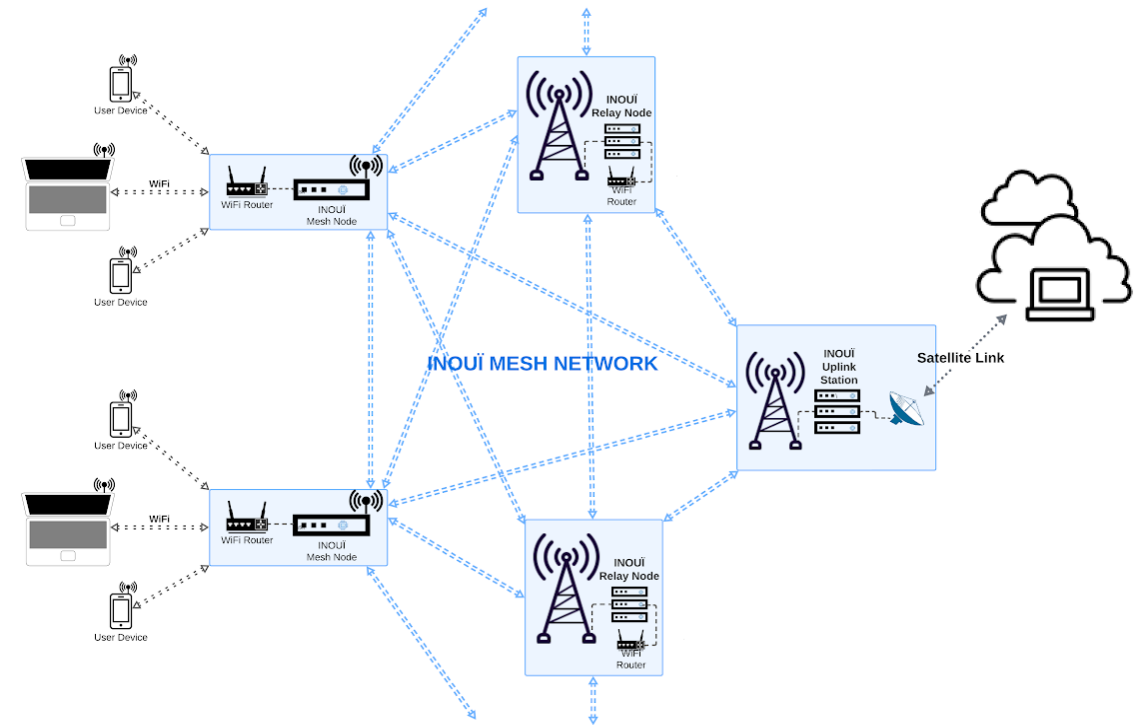
These fees and expenses Vanteon Wireless Solutions to assemble the satellite radio configuration and final testing.

\$ 2,918,440



# Proof of Concept Network Rollout

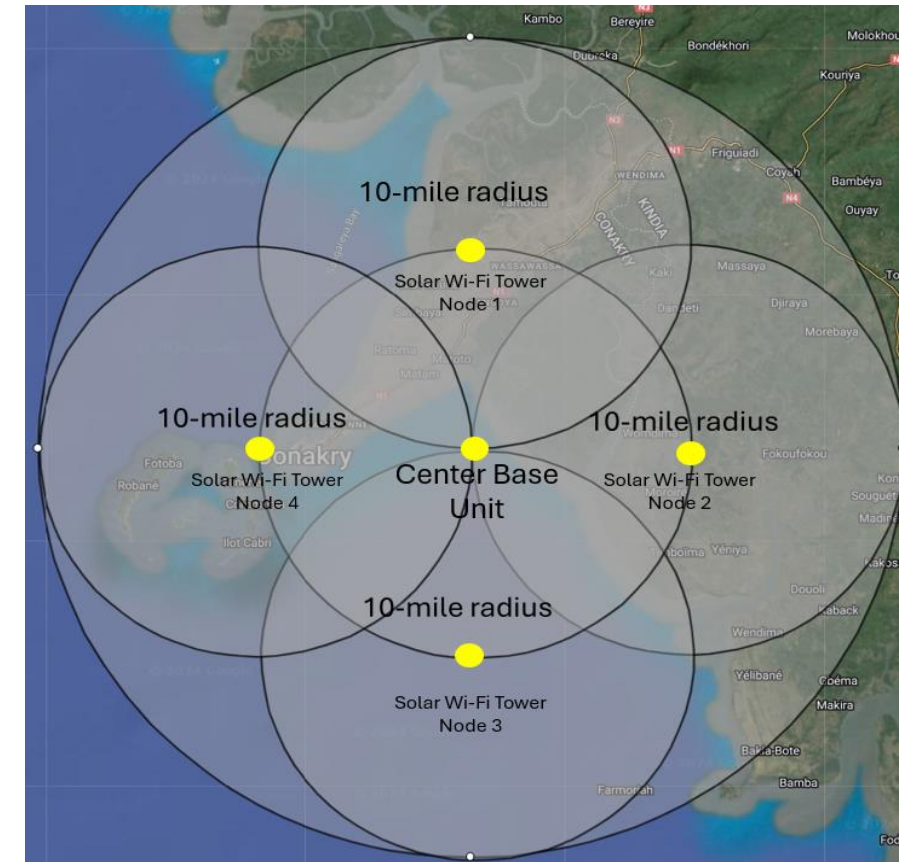
- The purpose of the Proof-of-Concept Network is to demonstrate the feasibility of the INOUÏ technology and the capabilities of the individual INOUÏ devices.
- Individual end users will use standard Wi-Fi-enabled devices to connect to the network. These devices will be served using Wi-Fi 'gateway' routers connected to the INOUÏ Mesh Nodes, which will communicate with each other, and the Satellite Uplink Station using the wireless INOUÏ mesh network, see Figure 2 for an illustration.
- By using Wi-Fi for user connections to the Proof-of-Concept Network, we avoid the need to integrate the INOUÏ wireless technology into consumer devices, reducing cost and accelerating the timeline. In the future, integration of the INOUÏ wireless technology into consumer devices would enable these devices to connect directly to the INOUÏ Mesh Network without requiring additional hardware.





# Map of Guinea Conakry with initial configuration

- This is a map of Guinea Conakry with an initial configuration of the Uplink and Relay stations. Each station provides INOUÏ mesh network service to an area with a radius of 10 miles, for a total coverage area spanning 20 miles. (We anticipate the coverage distances to be far greater in the fielded models.)
- Our mesh network range provides INOUÏ Fixed Wireless Access network coverage to the entire cities. Center coverage is 10 miles for radios and expands to 10 miles for each tower. Each tower is self-healing. If a tower fails to configure coverage automatically routes to the nearest tower.
- In this initial Proof of Concept, end-users will only be able to connect to this Network when close enough to one of the five (5) INOUÏ tower stations or twenty (20) INOUÏ-Wi-Fi bridges to access the Wi-Fi 'Gateway' routers.



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Welcome to ClemTech LLC

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