GRAPHENE
INNOVESTMENTS

Technology crafted with precision

About Us

Graphene Innovestments is a pioneering engineering solutions provider specializing in a wide array of services tailored to meet the needs of various industries with a focus on innovation, technology and expertise. We deliver top-notch solutions in engineering drawings and general maintenance across electrical, HVAC, and plumbing sectors.

Our commitment to excellence extends to offering specialized services uniquely designed for the pharmaceutical sector, HT Industrial Consumer sector ensuring compliance, efficiency, and safety.

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MULTIFUNCTION CABLE LOCATOR

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ISSUES UG CABLE MANAGEMENT

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1 **Cable Route Identification**

Difficulty in identifying the exact path of buried cables.

2 **Manual Tracking**

Keeping track of cables manually is prone to errors and inconsistencies.

3 **Maintenance Challenges**

Identifying the specific cable among multiple underground lines during maintenance.

4 **Third-Party Damages**

Cables are often damaged by external activities like digging and construction.

LACK OF VISIBILITY

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Data Silos

Information about cables is often fragmented across different departments, hindering comprehensive understanding.

Limited Real-time Data

Without real-time insights into cable performance, proactive maintenance is difficult.

Manual Data Entry

Reliance on manual data entry leads to inaccuracies, incomplete records, and difficulty in retrieving accurate information.

MAINTENANCE AND REPAIR PROCESSES

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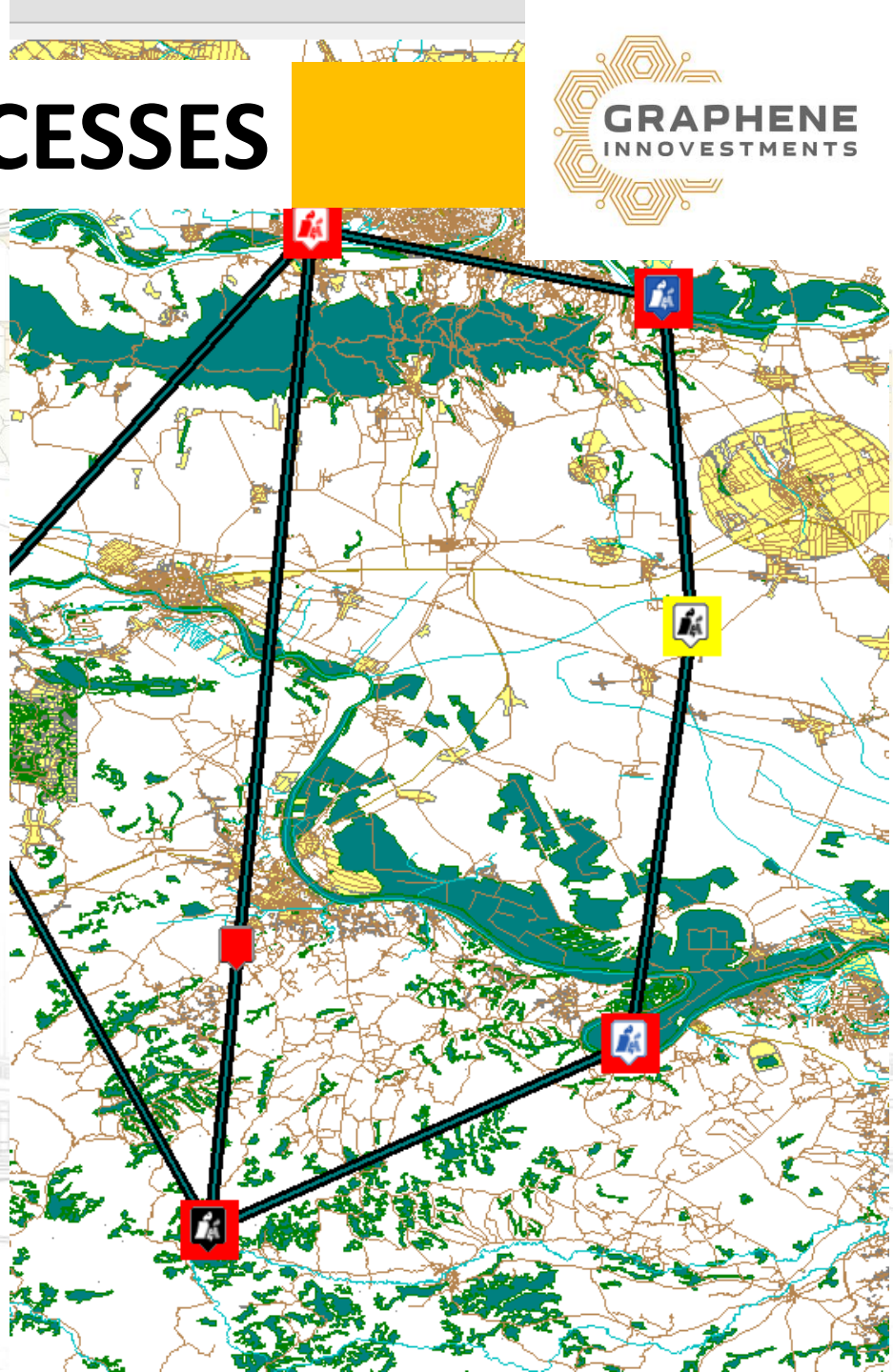
Locating Cables

Identifying the correct cable for repair can be difficult, especially in dense networks.

& Repair Execution

The process of repairing underground cables can be disruptive and involve significant downtime.



CABLE LOCATORS

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1 Precise Detection

Cable locators pinpoint the exact location of underground cables, minimizing damage risk.

2 Faster Response

Locating cables quickly facilitates immediate repairs, reducing downtime and disruption.

GEO-TAGGING: MAPPING THE INVISIBLE

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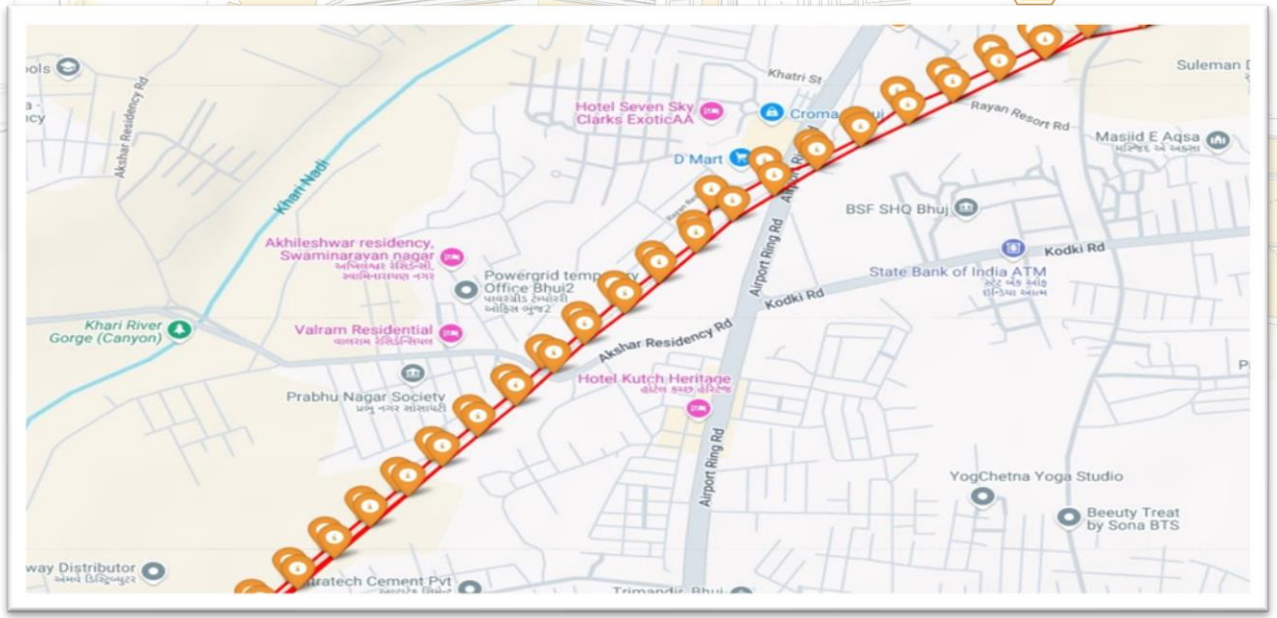

Comprehensive Database

Geo-tagging creates a digital map of all underground cables, providing a central record.

Real-Time Tracking

The database can be accessed anytime, allowing for easy location tracking and network updates.

Enhanced Planning

Geo-tagging helps with network expansion, maintenance planning, and construction projects.

REDUCING DOWNTIME AND REPAIR COSTS

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1

Faster Location

Cable locators, geo-tagging, and RFID tags help quickly identify the cable.

2

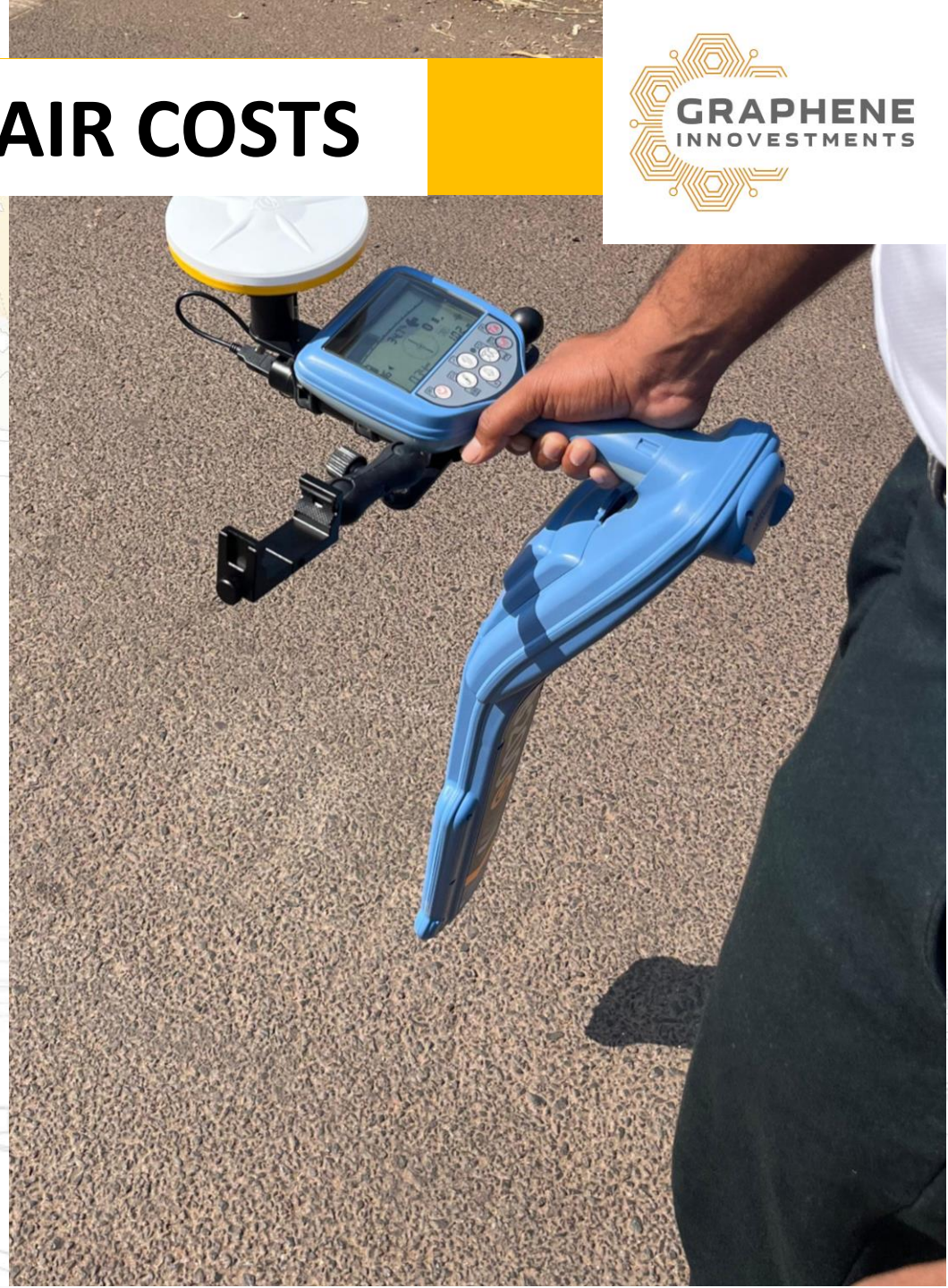
Minimized Excavation

Precise location data reduces the need for unnecessary digging, saving time and money.

3

Efficient Repairs

The information provided speeds up repairs and minimizes disruption to service.



ENHANCING PREVENTATIVE MAINTENANCE

1

Data-Driven Insights

Tracking data from RFID tags and geo-tagging helps predict cable wear and tear.

2

Proactive Maintenance

Plan maintenance schedules based on usage patterns and identified vulnerabilities.

3

Minimized Disruptions

Preventative maintenance reduces unplanned outages and emergency repairs.

ENHANCED ASSET MANAGEMENT

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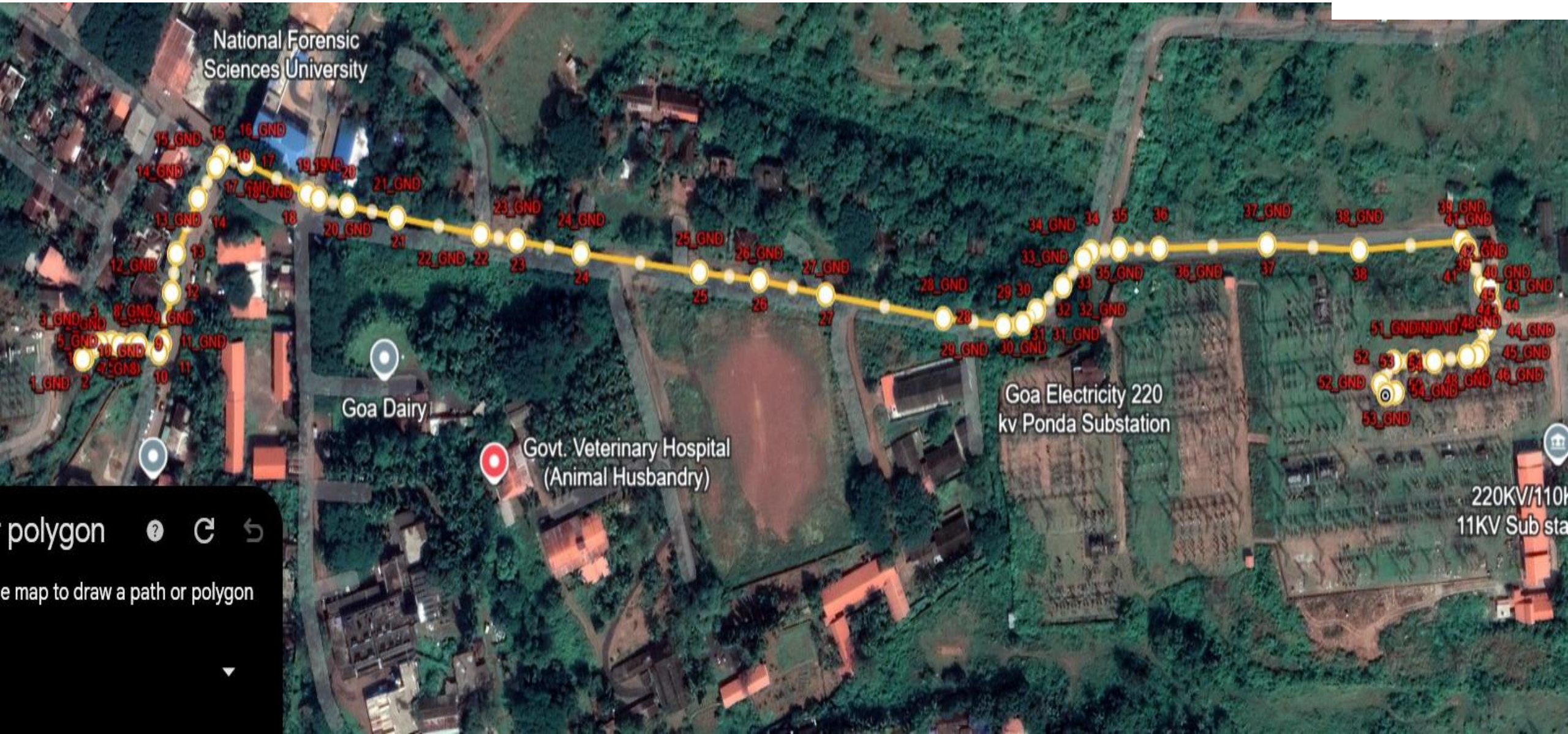
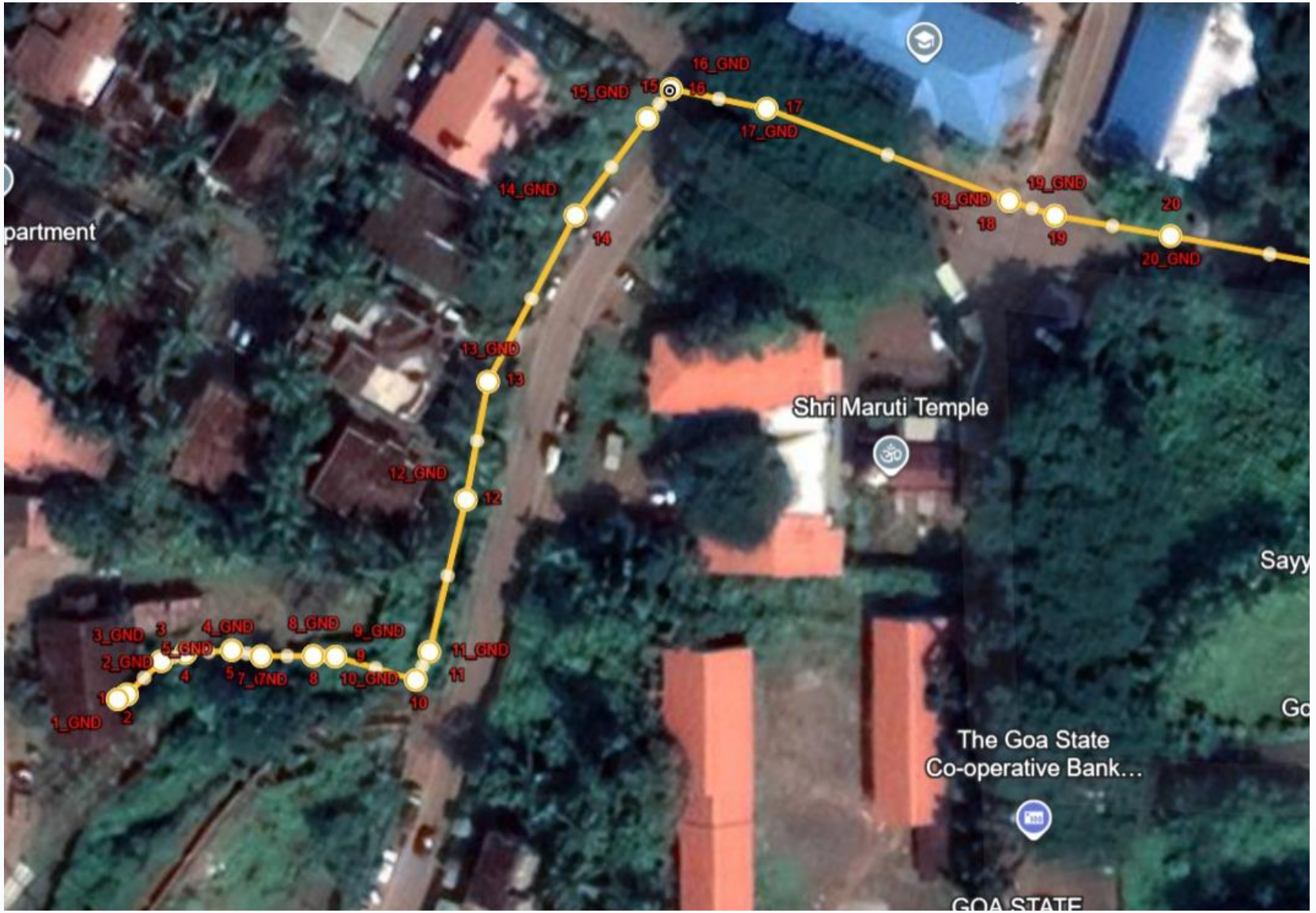


ENHANCED ASSET MANAGEMENT



FRP GRATING

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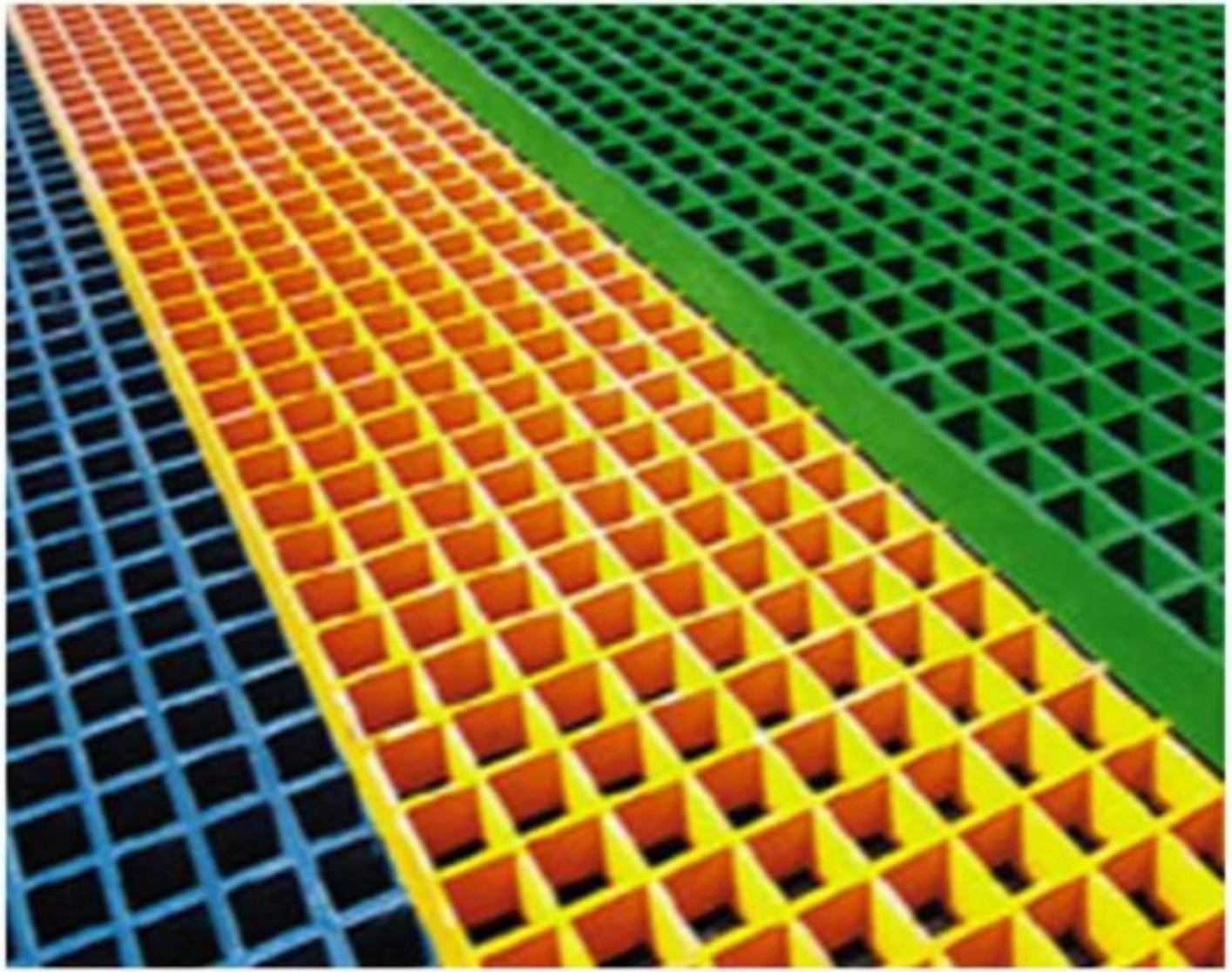
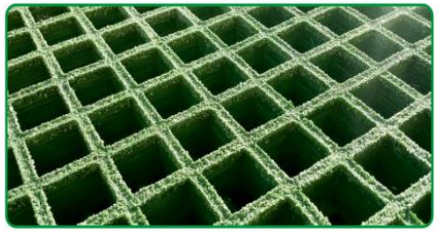
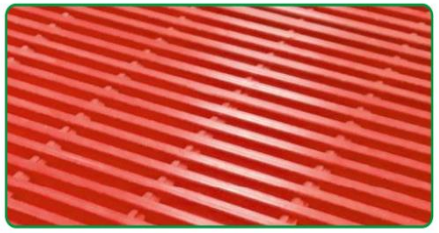


MATERIAL DESCRIPTION

Features / Applications	Moulded	Pultruded
Mechanical Resistance	Good	Excellent
Chemical Resistance	Excellent	Good
Impact Resistance	Excellent	Good
Weight Vs Mechanical Resistance	Very Good	Excellent
Ease of Installation	Excellent	Good
Bi-Direction Span	Excellent	Not Suitable
Uni-Direction Span	Good	Excellent
Light Weight Vs Steel Grating	Very Good	Excellent
Pipe Penetrations	Excellent	Good
Open Area (Air Flow, Light Penetration)	Excellent	Very Good
Safety	Excellent	Excellent

Fiber Tech FRP Grating offers a host of benefits, making it an ideal choice for various structural and industrial applications. It is highly **corrosion-resistant**, capable of withstanding harsh chemicals and hostile environments, and is **lightweight**, being four times lighter than steel. Its **non-conductive** nature ensures electrical safety, while its **impact resistance** allows it to regain its original shape without permanent deformation. The grating provides **dimensional stability** with minimal thermal expansion and is completely **maintenance-free**, requiring no painting or cleaning. With a **long life cycle**, it is durable and cost-effective, featuring **easy installation** without the need for welding. The material is **UV-resistant**, safeguarding it from sunlight damage, and has **low installation costs** due to its lightweight and easy handling. Additional advantages include **no rusting or painting requirements** thanks to inbuilt color options, a **high strength-to-weight ratio**, and **resistance to microbial growth**, impacts, fatigue, chipping, and cracking. The product is also **fire retardant**, aesthetically appealing, and available with **anti-slip options**, making it both safe and versatile for diverse uses.


Gritted Surface


Plain Surface


Covered-Chequered Finish


Covered-Suede Finish

ADVANTAGES OF FRP

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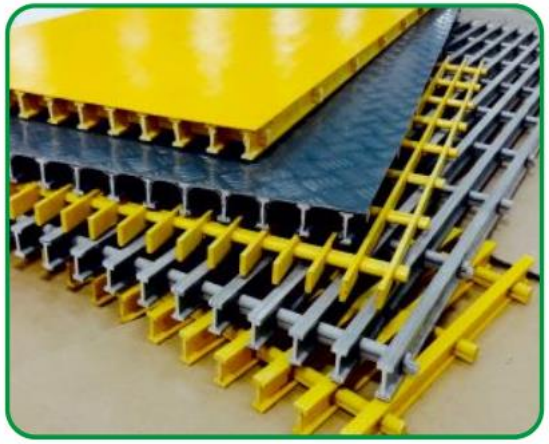
DESCRIPTION	FIBER TECH GRATINGS	HOT DIP GALVANISED	STAINLESS STEEL
Strength to weight ratio	Excellent	Average	Average
Life span	Excellent	Good	Very Good
Life cycle Cost effectivity	Excellent	Good	Good
Chemical Resistivity	Excellent	Good	Excellent
Electrical Non - Conductivity	Excellent	Poor	Poor
Rust Proof Features	Excellent	Average	Excellent
Handling	Very Easy	Difficult	Difficult
Installation Cost	Very Low	High	High
Anti Skid	Available	Not Available	Not Available
Colour Selection	Available	Not Available	Not Available



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THANK YOU