



# Emerging natural graphite supplier to global markets

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DEVELOP

ACHIEVE

Trevor Matthews

27 - 04 - 2017

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# ACHIEVE

Developing a Graphite project in  
Tanzania

PFS COMPLETED

DFS UNDERWAY

TRANSITIONING  
TO PRODUCER

OFF-  
TAKES

MoUs

## OFF-TAKES

 NanoGraphene

- Graphene Producer
- Lithium-ion batteries and composites
- Fixed price contract

A close-up photograph of an elephant's trunk and head, overlaid with a semi-transparent teal color. The text 'OFF-TAKES' is centered in a white box at the top, and '5,000 tonnes' is positioned in the lower-left area with a teal L-shaped underline.

## OFF-TAKES

5,000 tonnes

A close-up photograph of an elephant's head and trunk, overlaid with a semi-transparent brown filter. The text 'OFF-TAKES' is in a white box at the top. '5 years' and '5,000 tonnes' are connected by a red stepped line.

## OFF-TAKES

5 years

5,000 tonnes

OFF-TAKES

Deliveries

5 years

5,000 tonnes





A close-up photograph of an elephant's head and trunk, rendered in a warm, brownish-orange color palette. A large, solid cyan circle is centered over the image, containing the text "Start in 2018" in a dark blue, serif font.

Start in  
2018





Non-binding MoUs signed  
with 3 Chinese companies for  
100,000t/y in total



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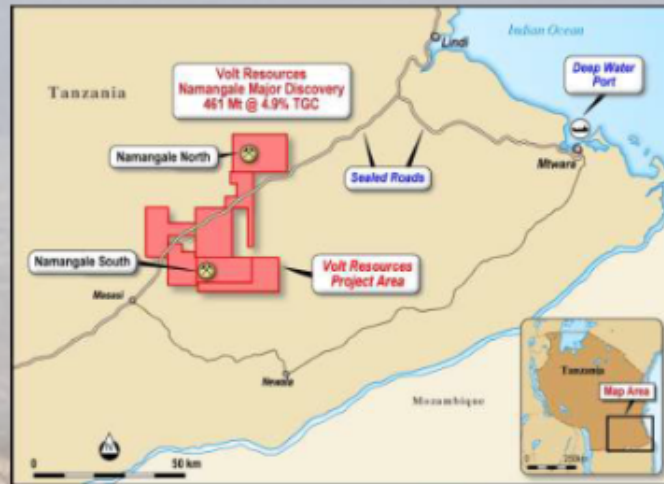
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# DEVELOP NAMANGALE PROJECT



WORLD  
CLASS  
RESOURCE

HIGH  
VALUE

STRONG  
BOND

## WORLD CLASS RESOURCE

461Mt

Large Mineral Resource of  
461Mt @ 4.9% TGC

127.4Mt

Significant Ore Reserve of  
127.4Mt @ 4.4% TGC with  
contained graphite of 5.6Mt

3.8Mt

PFS production rate  
3.8Mt of ore processed/year  
@4.7% TGC

## HIGH VALUE

# 140Km

# > 60%

# 22 years

Good quality infrastructure with 140 km sealed road from Project to Mtwara deep water port

Flake distribution > 60% in large to super jumbo size

Attractive for its exceptionally high conductivity

No deleterious elements

Based on the PFS results :

Mine Life	22 Years
Annual throughput	3.8Mt
Average Grade TGC	4.7%
Nominal strip ratio	1.4
Recovery	93%
Concentrate grade TGC	95%
Average Graphite Production	170Kt/year

# What they say...

**NanoGraphene** : "large electric conductivity and defectless with a very large ratio of size of the graphene plates to thickness"

"All these qualities make the resulting product **attractive for use** in batteries and accumulators as additive in anodes and cathodes"

**NGS Consulting** : "This [...] concentrate of flake graphite contains **plenty of very large flakes and is of high purity.**" A very good basis for chemical purification of flake graphite and for preparation and expansion of expandable graphite.



## STAKEHOLDERS

Successful January workshop with **Officials from 3 levels of government, community members and neighbours**

Stakeholder workshop won **support from key participants** including villagers and their leadership



## STAKEHOLDERS

Further meeting underway with regional **Government, Community and Landowners** to advance the Relocation Action Plan

Active community sponsorship program

Contributions for school equipment, village infrastructure





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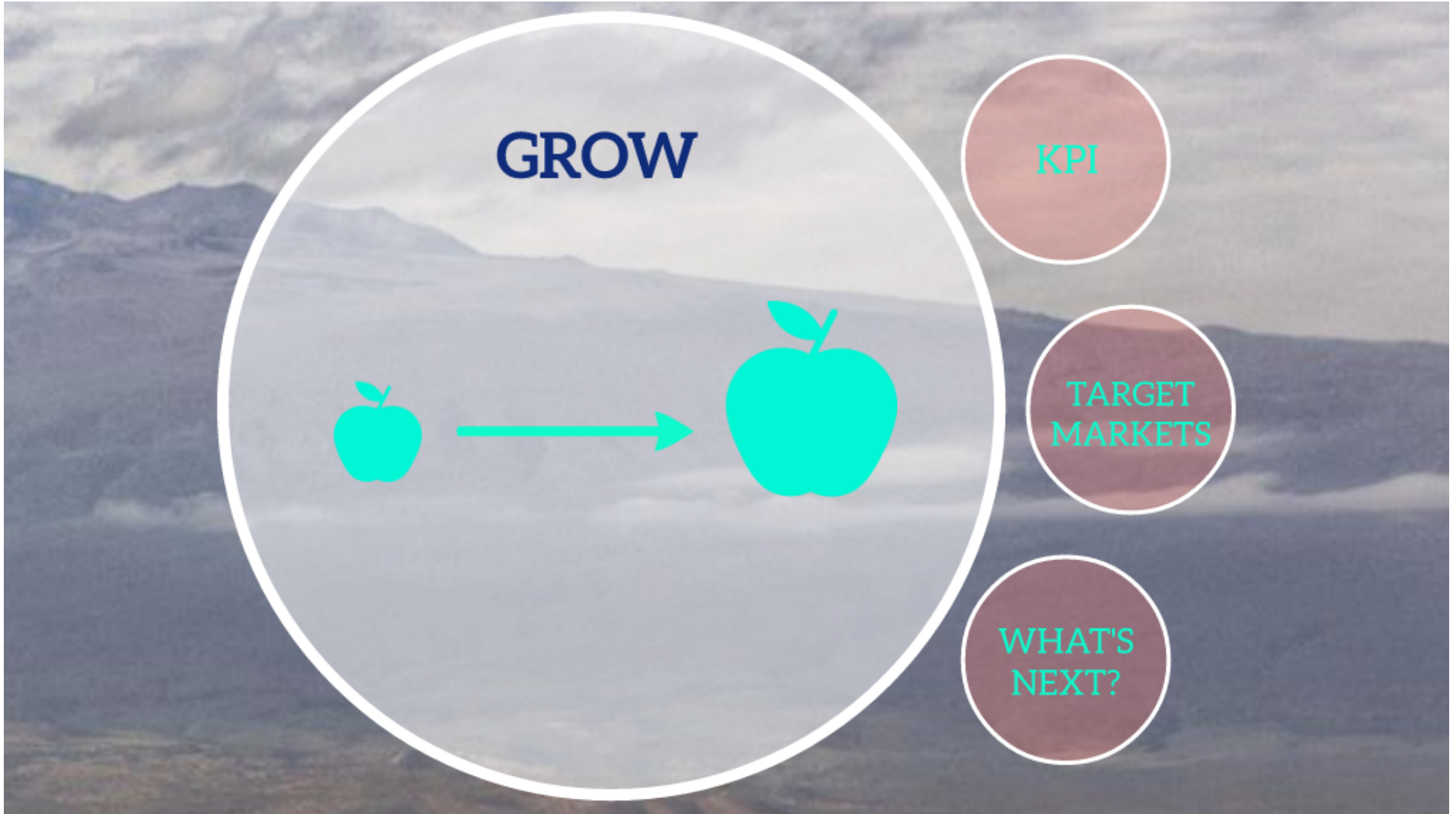
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# KPI

Payback  
period  
1.4 years

● NPV @ 10% - after tax US\$890M

● NPV @ 10% - before tax US\$1,310M

● IRR - After tax 66.5%, real

● IRR - Before tax 86.9%, real

Based on ore material from Measured, Indicated and Inferred Mineral Resource categories

Leunig

KPI

Low  
CAPEX

Low  
OPEX

High  
MARGIN

US\$173M

US\$93M

US\$195M



Flame retardant  
polystyrene  
insulation foam



Graphite foil



Battery Lithium-ion



Graphite composite



## GROWING DEMAND

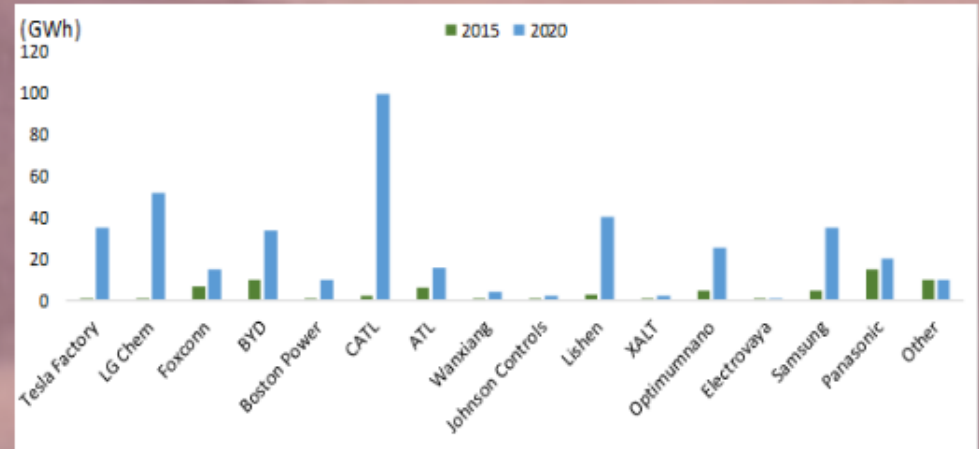
- Spherical graphite
- Expandable graphite
- Traditional markets

## GROWING DEMAND

BMI analysis suggests :

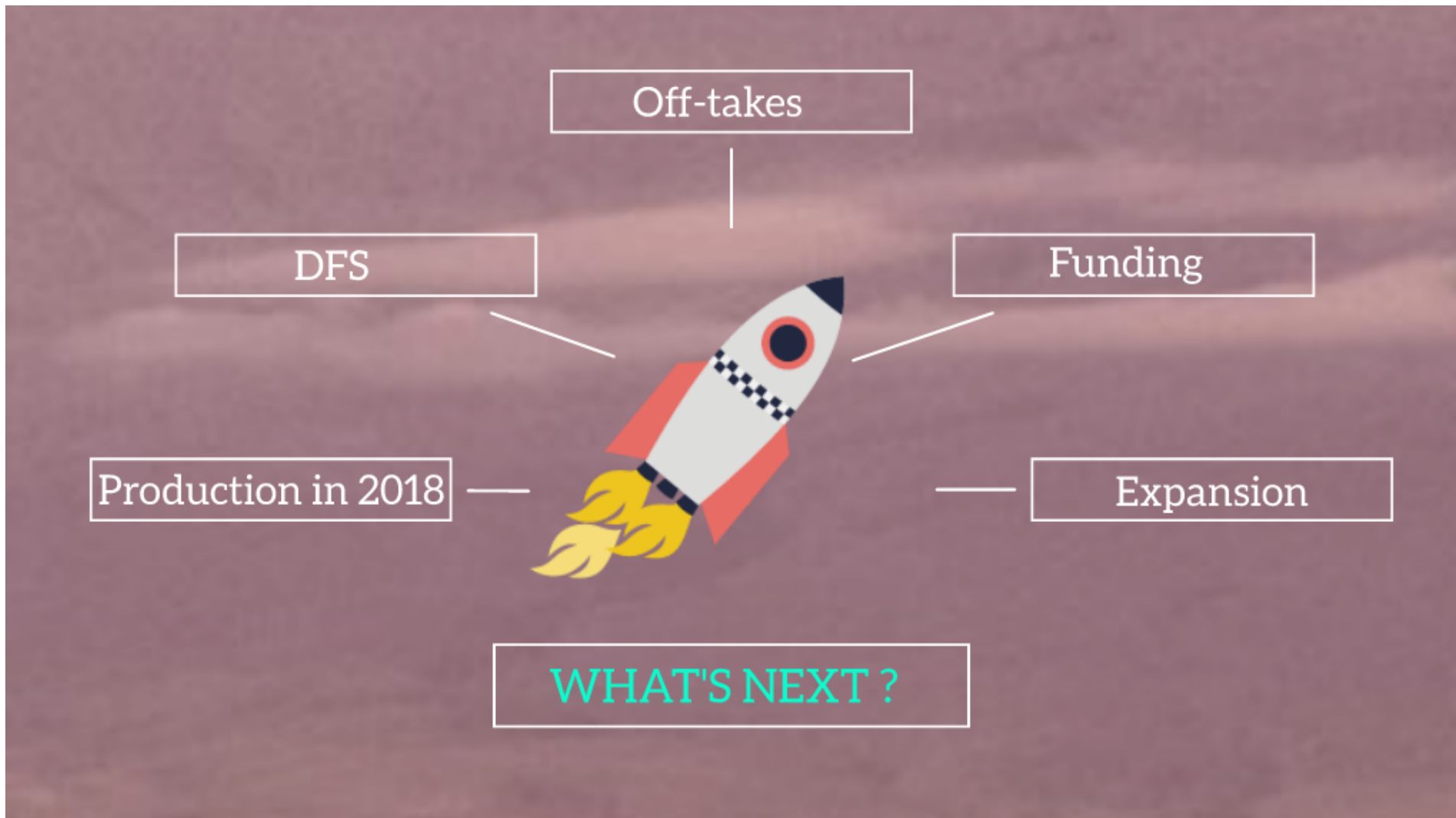
Huge capacity expansions by > 12 global giga factories that could deliver a 500% increase in natural graphite demand by 2020

Most end users prefer natural graphite over synthetic



Expandable market is growing rapidly







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