

Graphite to Graphene The Future is Now

See us at the...

 **ExplorersConference**

19, 20 & 21 February 2019 | Esplanade Hotel Fremantle - by Rydges

For details, follow the links from: www.verticalevents.com.au

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All currency amounts are in AUD\$ unless stated otherwise.

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The information in the report to which this statement is attached relates to Exploration Results, Mineral Resources or Ore Reserves compiled by Mr A Cooper, who is a Consultant and director to Comet is also a Member of The Australian Institute of Mining and Metallurgy, with over 30 years' experience in the mining industry. Mr Cooper has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Cooper consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Exploration Targets

The terms "Target" or "Exploration Target" where used in this presentation should not be misunderstood or misconstrued as an estimate of a Mineral Resource as defined in the JORC Code and therefore the terms have not been used in this context. Exploration Targets are conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain further exploration will result in the determination of a Mineral Resource.

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Comet Resources Ltd.

ASX: CRL

Market Capitalisation	AUS\$9,000,000
Cash	AUS\$800,000
Fully Paid Ordinary Shares	230,450,000
Converting Securities	59,650,000
Last Price	AUS\$0.039
52 Week Price Range	AUS\$0.026 - \$0.11
Top 20 Shareholders	57%
Board & Management	13%

Board

Tony Cooper (MD)

Hamish Halliday (Chairman)

David Prentice (Non-executive Director)

Alex Molyneux (Non-executive Director)

New Board Member

Alex is an experienced metals and mining industry executive and financier. He is currently CEO of Galena Mining Limited which just announced a \$90 million project equity investment from Toho Zinc of Japan, for a 40% ownership interest in its Abra Base Metals Project.

Springdale Project Overview

Australian Project

Freehold Land Title

Leverage

Existing Infrastructure

High Grade Graphite

Metallurgical testwork has demonstrated that solid rock can be converted to graphene products.

Presentation Summary

Springdale Project Overview

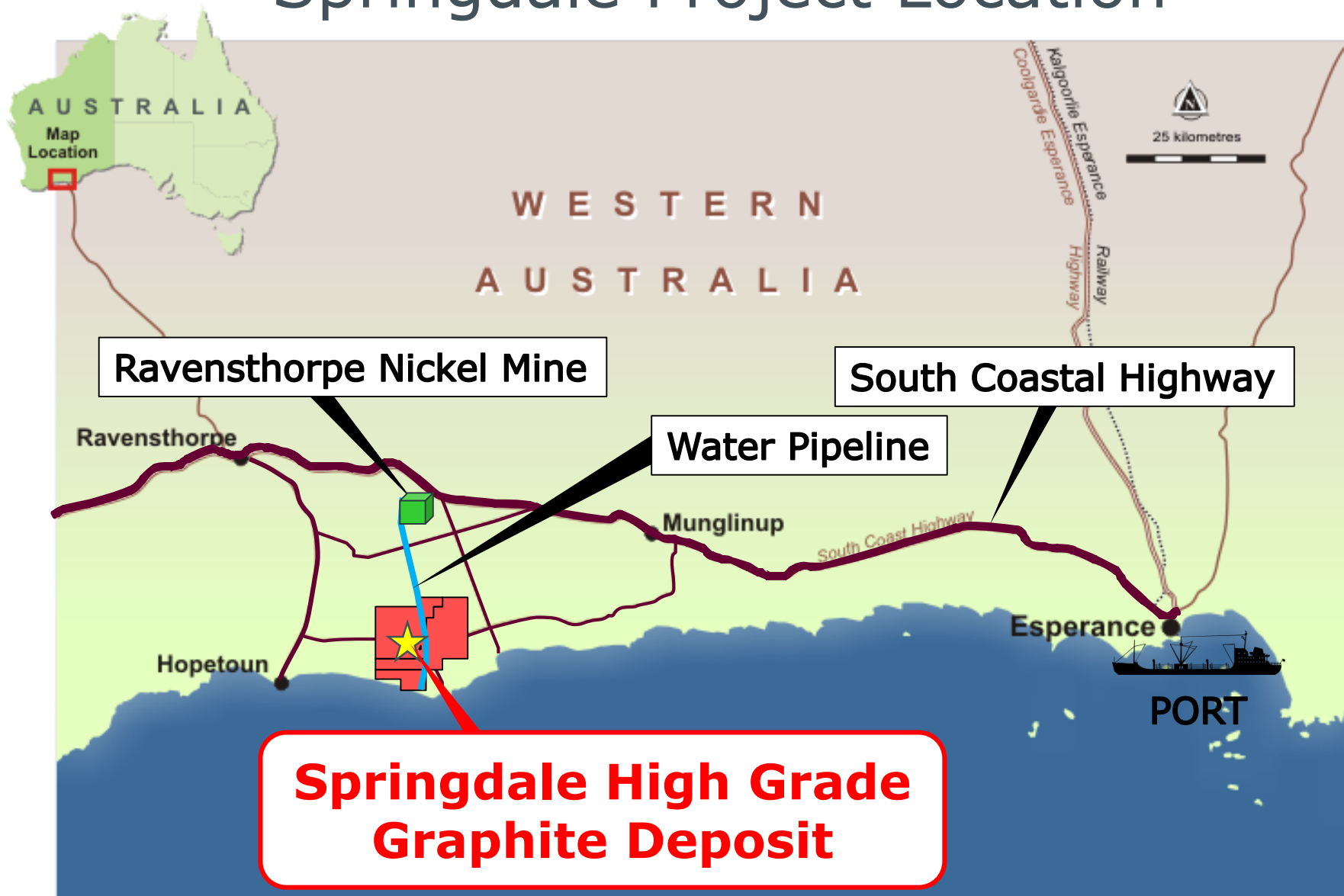
Graphite Resource

Metallurgical Testwork

Graphene Market

Future News Flow

Springdale Project Location



Graphite Deposit Site Photos



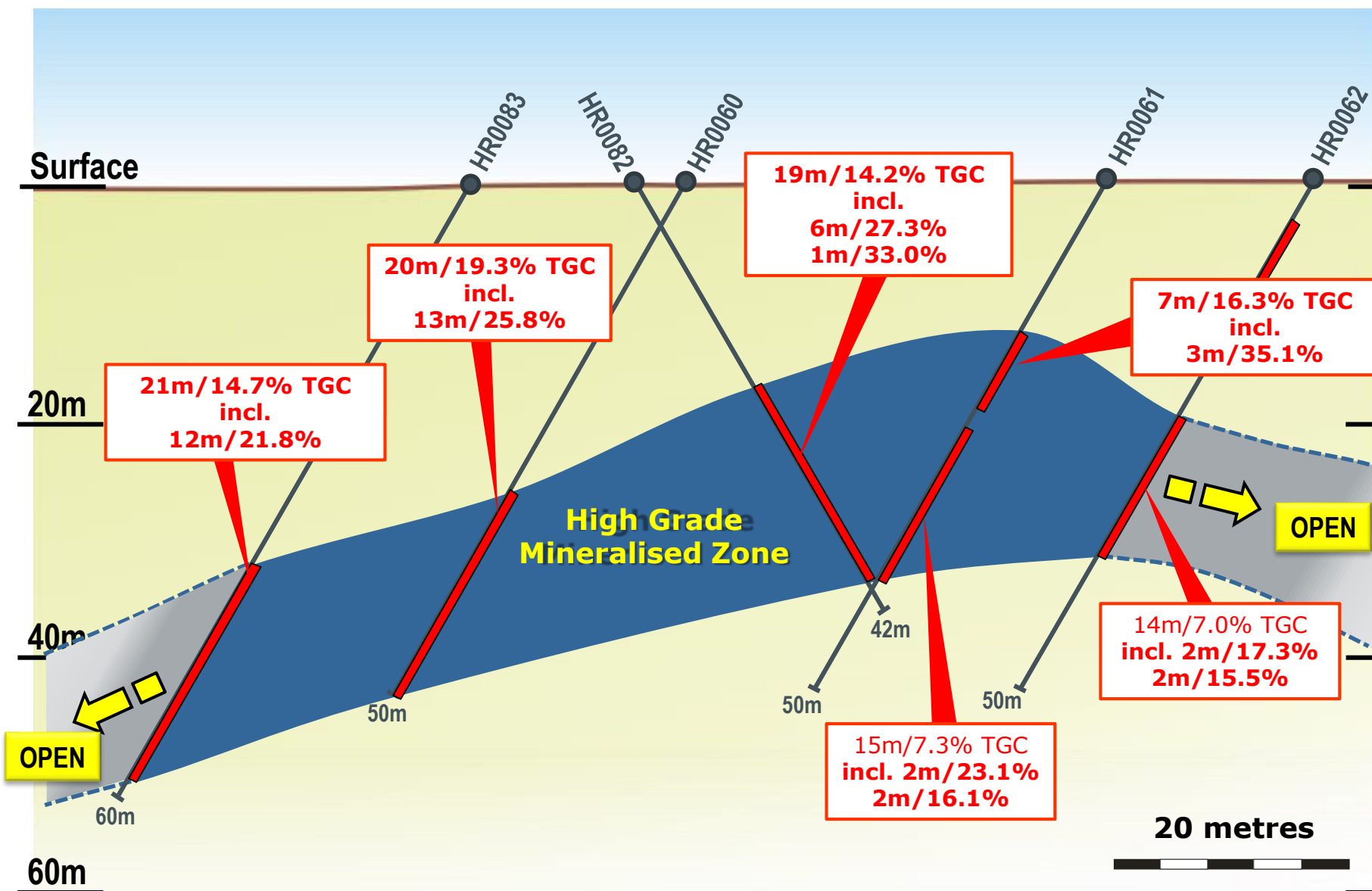
Springdale Graphite Resource

	TONNES (MT)	DENSITY (t/m ³)	Graphite (TGC%)	CLASSIFICATION
TOTAL RESOURCE	15.6	2.2	6.0	INFERRED
INCLUDING	2.6*	2.1	17.5	INFERRED

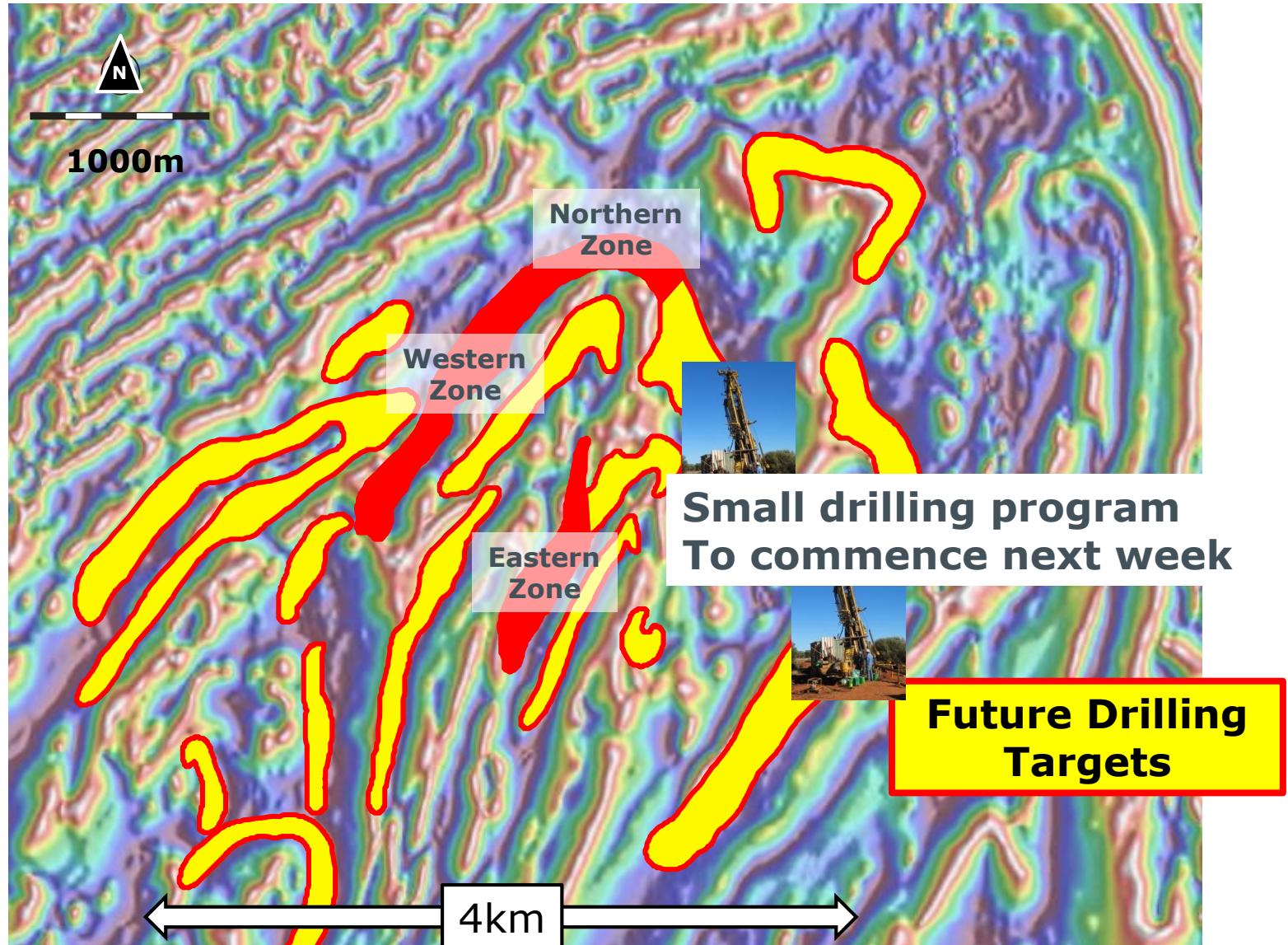
*The higher grade rock can be converted to graphene by Electrochemical Exfoliation



Northern Zone



Graphite Horizon Untested Targets

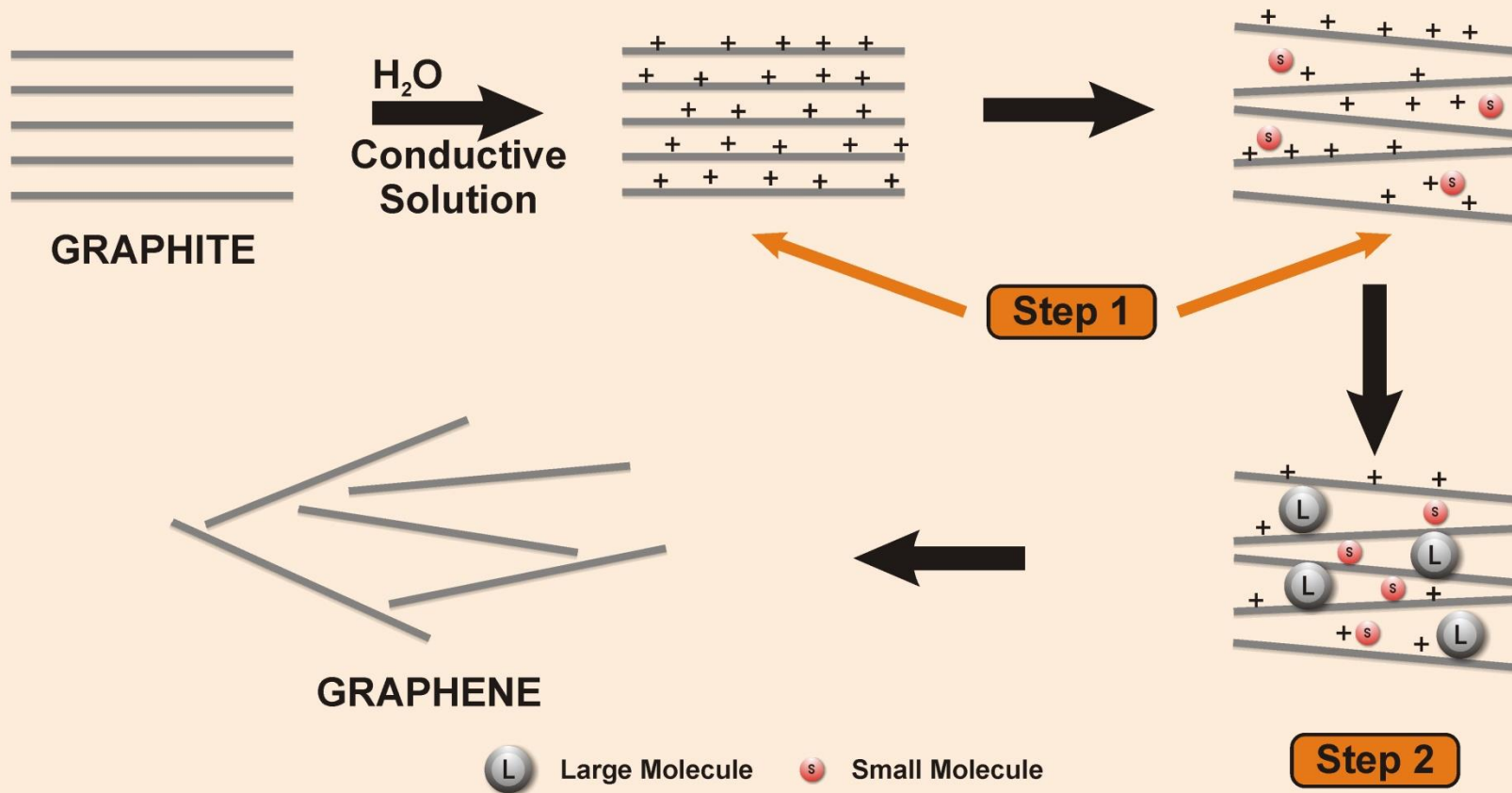


Springdale Resource

DOMAIN	TONNES (MT)	DENSITY (t/m ³)	Graphite (TGC%)	CLASSIFICATION
HIGH GRADE	2.6	2.1	17.5	INFERRED

Graphite to Graphene with untreated rock over 15% TGC

Electrochemical Exfoliation



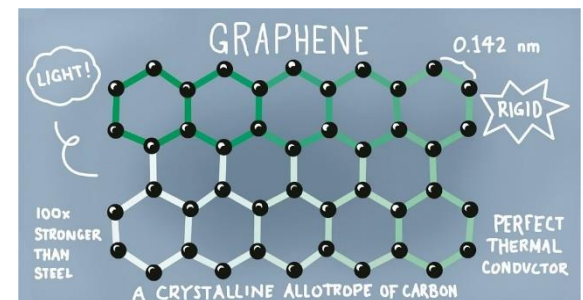
Exfoliation Graphite to Graphene



What is Graphene

Graphite consists of stacked graphene sheets (a 1mm thick piece of graphite would be made of approximately 3 million sheets of graphene). Graphene is a 1 atom-thick sheet of hexagonally arranged carbon separated from graphite.

Graphene in its simplest form is a layer of single carbon atoms in a honeycomb structure.



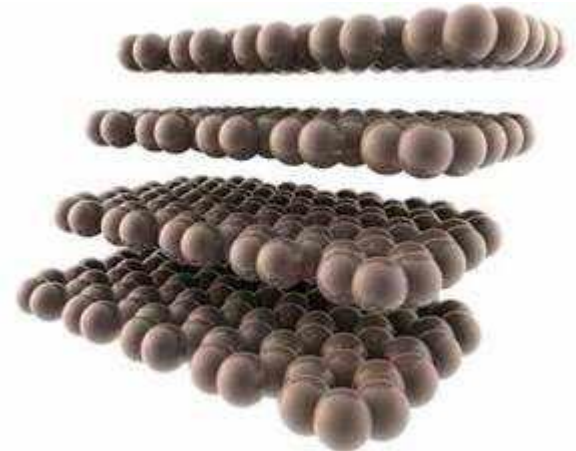
Why Graphene

It is the thinnest and toughest 2D material known (100 times stronger than steel) whilst still being very light (weighing just 0.77 milligrams per square metre).

Graphene is flexible and transparent, has the largest surface area of all materials and is stretchable.

Graphene is currently the best electrical conductor known to man and is a perfect thermal conductor.

It is impermeable



Some Graphene Applications

Down – Stream Applications

New Energy

- Lithium-ion Batteries
- Supercapacitors
- Solar Energy Batteries
- Lead Acid Batteries

Health

- Electric Heating Film
- Physiotherapy

Biomedicine

- Nano Medicine
- Gene Therapy
- Bio Monitoring
- Imagery Diagnostics

Energy Savings EPA

- LED Illumination
- Electrical Energy Substitute
- Water Pollution Handling
- Atmosphere Management
- Desalination of Sea Water

Chemicals

- Rubber Composite Material
- Plastic Composite Material
- Anti Corrosive Material
- Lubricants

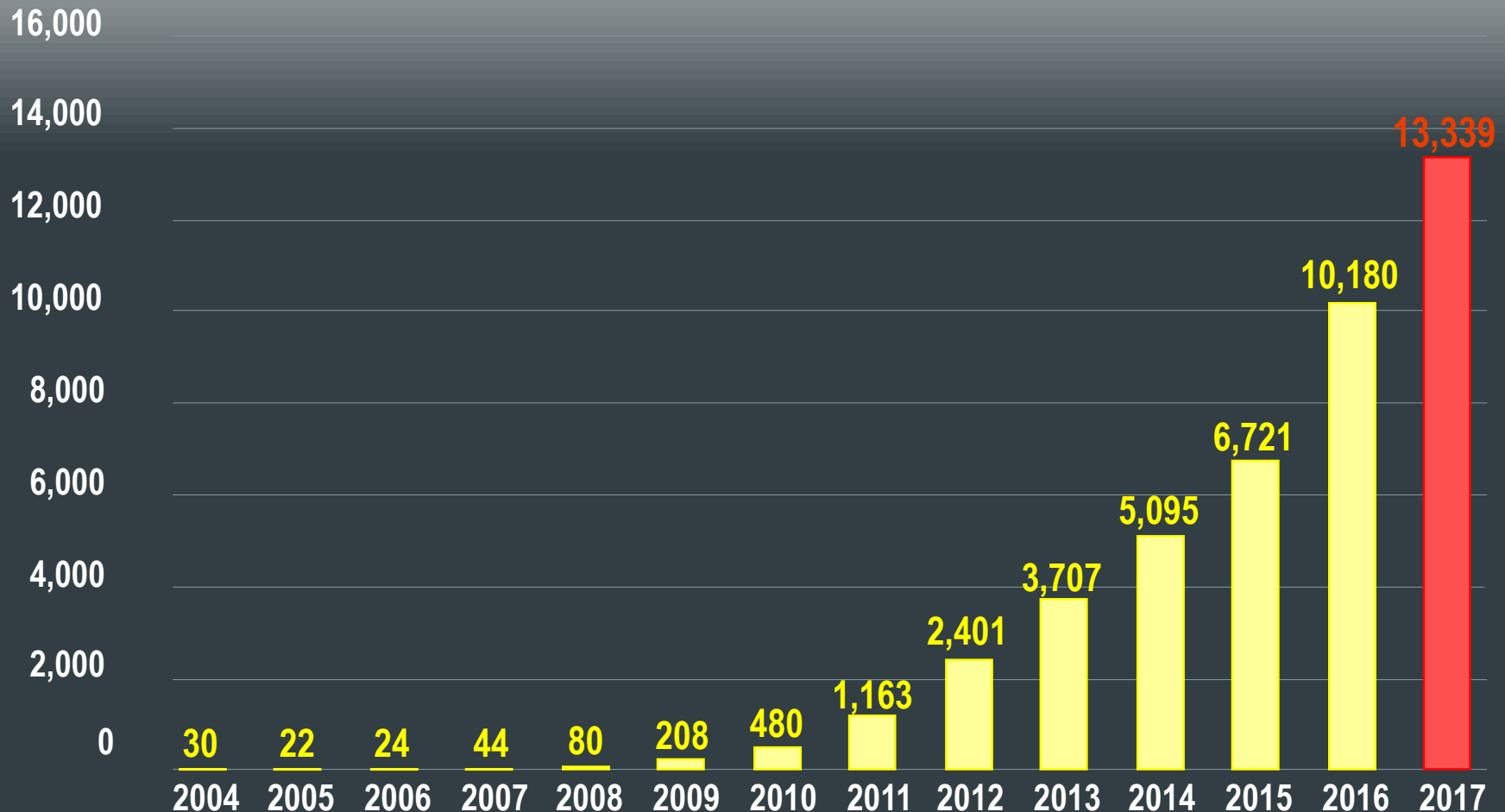
Electrical Information

- Flexible displays
- Sensors
- RFID
- Heat Dispersion Material

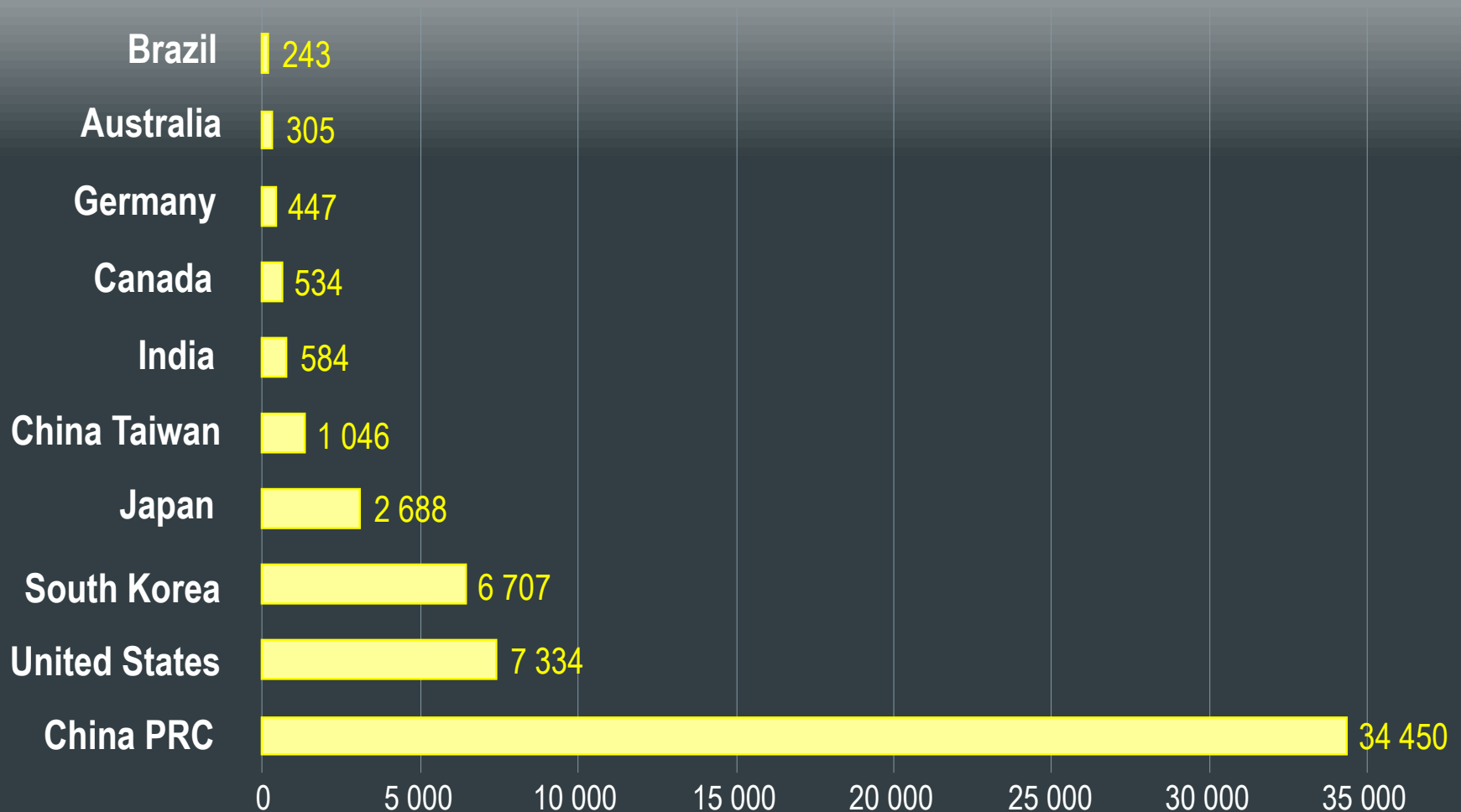
Aviation Aerospace

- Metal Composite Material
- Electromagnetic Screen

Annual Distribution of Global Graphene Patent Applications



Distribution of Graphene Patents by Country/Region



Graphene: do not miss the turning point

News Flow

Drill Results

Graphene Test Work Results

MOU'S

Collaboration Agreements

Off Take Agreements

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