

UNIQUE ROAD STABILISATION COMPOUND







WHY DO ROADS MATTER

oads are the arteries through which a nation's economy pulses. By linking producers to markets, workers to jobs, students to school, and the sick to hospitals, roads are vital to every nation's development and social agenda.

That is certainly the opinion of the World Bank which has constructed or rehabilitated more than 300,000 km of roads since 2002. The organisation understands that effective transport infrastructure is vital to fighting poverty in emerging nations.

Roads open up areas and stimulate economic and social development. For those reasons, road infrastructure is the most important of all public assets. Research has shown that adequately maintaining road infrastructure is essential to preserve and enhance those benefits.

Insufficient maintenance causes irreversible deterioration of road networks, leading to the need to replace roads after just a few years.

That deterioration spreads across a road system very quickly and results in soaring costs and a major financial impact on the economy and citizens.

However, the importance of road maintenance is not recognised by decision-makers in many areas and as a result, poor asset management means that many road networks are not in good condition.

Management of the road asset involves the application of engineering, financial, and management practices to optimise the level-of-service outcome in return for the most cost-effective financial input.

Indeed, the main objective for the maintenance of the road network in any region, is simply to apply the right treatment at the right time to achieve the desired level of service, confirming that the road infrastructure is a financial asset for society and the economy.

Good roads also assist in the reduction of road fatalities and injuries. That is also why roads do matter.

AustralAsean™ is proud to be contributing to the expansion of human prosperity across the Asia Pacific region by ensuring our customers can build and maintain a viable cost-effective road network, in their various jurisdictions.



THE SOLUTION IS IONIC

eo-lonic is a 100% Australian made, technically advanced soil stabilisation compound that is demonstrably one of Australia's most exciting and innovative infrastructure products. This unique compound was developed by **Project Innovations** in Western Sydney, specifically for use on roads.

The patented electro-chemical or "ionic" nature of the product, improves the CBR of sub-grades, increases pavement tensile strength, and fortifies the road's weight bearing capabilities. Geo-lonic is non toxic compound, and is agriculturally friendly.

It has also ticked all the boxes when it comes to Australia's rigorous environmental standards legislation.

The Geo-Ionic formula is unsurpassed in its ability to bind soil particles, making the soil very dense and resistant to water penetration.

It has amazing dust suppression properties and under a slightly different application process, can be used as a very effective dust suppression treatment making a perfect secondary use for the mining industry.

Application of the Geo-Ionic product is very simple and does not require any specialised expensive equipment. All that is required for the compounds application is a road grader, water tanker and a vibrating compressor.

Many Australian regional government bodies (Councils), are using Geo-Ionic, and the product is required to meet the worlds highest standards, demanded by the Australian government.

The savings enjoyed by these regional and rural councils on their road maintenance programs has been calculated in millions of dollars. Additionally, Geo-Ionic's reputation has been enhanced courtesy of its selection by the United Nations to be used for stabilisation projects in several emerging African countries.

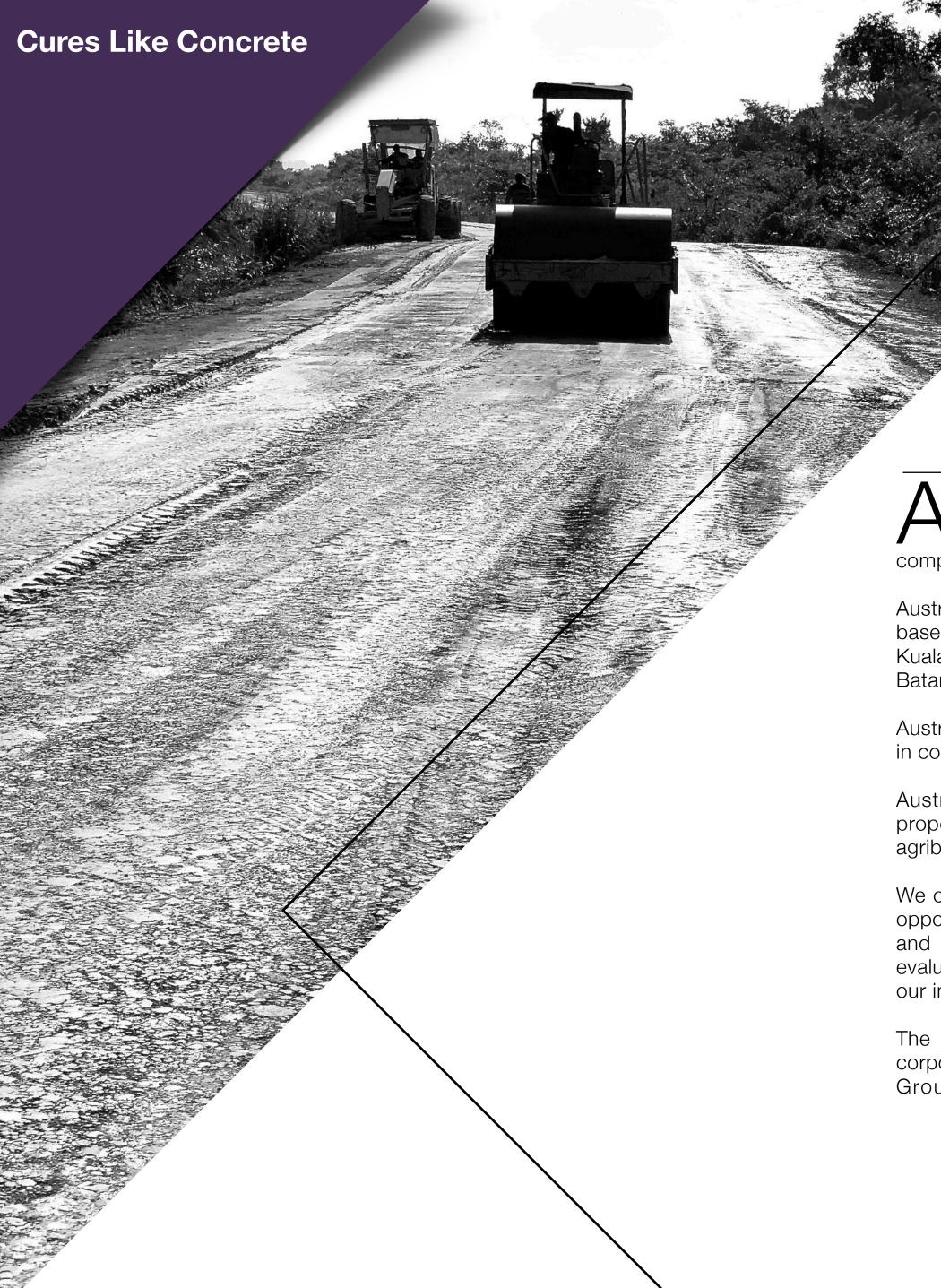
For these reasons, Geo-Ionic is now receiving an incredible amount of interest and enquiry internationally.

Road building in many countries is simply not affordable due to the cost associated with stabilising the soil. However, thanks to this Australian invention, AustralAsean can now offer organisations, corporations, and governments, a viable solution to their road stabilisation and dust suppression problems, at a fraction of the cost of other solutions. With Geo-lonic, road maintenance is not the problematic costly problem it once was!

Geo-lonic can not solve the problems of the world, however it can contribute to society by providing an effective solution for road networks under the most difficult conditions and in the most isolated regions.

Please contact AustralAsean for more information.





WHO ARE WE AND WHAT DO WE DO

ustralAsean Group Pty Limited (AustralAsean) is the exclusive Asia Pacific distributor for the game changing Geo-Ionic™ and Geo-Ionic Plus™ soil stabilisation compounds.

AustralAsean is a business development and trading company based in Sydney with representatives in Perth, Johor Bahru, Kuala Lumper, Bangkok, Nong Khai, Phnom Penh, Jakarta, Batam, Manila and Hanoi.

AustralAsean conceptualises, evaluates, and facilitates projects in collaboration with our joint venture partners and investors.

AustralAsean works in many fields including commercial property, environmental science, recycling technology and agribusiness, in both Australia and the Asia Pacific region.

We carefully select our projects and determine if they are viable opportunities, by assessing the market's political, economic, and commercial characteristics. Our directors are continually evaluating new and innovative projects taking into account our investment criteria.

The company works with significant Australian and Asian corporations including Wanless Waste, Roy Medich Property Group, CBG Pty Limited, FAL Developments, Project

Innovations, Golf NSW, Siam City Cement Company (Thailand), Suri Trading (South Korea) and Ardtech Road Snd (Malaysia).

We have a number of offshore projects, predominately in South East Asia, where our staff have operated for over twenty years. We promote only those projects we consider to be exceptionally viable and we value our integrity and reputation above all else.

AustralAsean Group draws on its development, business and marketing experience to assist its clients to develop and manage their projects in the Asia Pacific region.

In this capacity the company represents several Australian businesses in the Asia Pacific market, including Project Innovations Australia Pty Limited who are the developers, owners and manufacturers of the game changing Geo-Ionic™ and Geo-Ionic Plus™ road stabilising compounds.

Project Innovations is a pioneering Australian company involved in mining and industrial engineering, rubber compounding, polymeric road stabilisation, aerospace and astronautical R&D, and chemical consultancy. Project Innovations operates disruptive businesses ventures such as Australian Ultra Polymers and Geo-Ionic.

Further, their work relating to in-flight testing and systems have now gained international commercial recognition.



MEET THE TEAM

AUSTRALIA

1. DAVID BIGNOLD I Board Chairman Australasean

2. GREG EVANS I CEO Australasean

3. JOHN WALLIS I CFO Australasean

4. MARK MULOCK I Legal Counsel

ASEAN

5. PHIN POMMELATH I Facility Manager PDR Laos GREG CAUFIELD | Logistics Manager Myanmar

Cures Like Concrete

USING GEO-IONIC

MIXING RATE

Mix one part of Geo-lonic to 100 parts of water, then adjust for optimum moisture. A good guide is for the substrate to be wet, but not muddy then adjust the water depending on amount of moisture in the soil climatic conditions and type of soil. We have simple formulas to make calculations easy.

APPLICATION RATE

Generally 1 Litre of Geo-Ionic will treat 1 m3 (One cubic metre) of road. It is simply a matter of mathematical extracting this number for square meters and depth when applying the compound.

CALIBRATION OF GEO_IONIC

Accurate calibration is important when applying the Geo-lonic product into the unsealed road. Excess application of the Geo-lonic product is simply a waste of resources, whilst under dosing may compromise physical performance. Calibration should always be carried out:

• When spraying product for the first time with new spraying equipment

- At the beginning of each session
- If nozzle tips, spraying pressure or speeds change
- For the calibration process the travel speed, flow rate and application rate should be known

CURE TIME

The road is able to be used immediately after rolling however the road will be at close to full strength after 24 to 72 hours without rain, and with exposure to sunshine.

Do not apply if temperature will drop below -1 C° during application and curing process.

REQUIRED EQUIPMENT

- Grader ideally with scarifier, ripping harrow or equivalent)
- Water truck 10,000 litres is ideal
- Double drum roller, 10-12 tons (C-754A or equivalent) is ideal

Cures Like Concrete

USING GEO-IONIC

Building a Geo-Ionic Road is simplicity itself, below we have listed the basic steps but its simplicity means the application does not require special equipment or additional technically qualified staff.

Step 1:

Blade or rip the existing base to a depth of 150mm, windrow the loosened material. If the project requires additional aggregate, the use the least-cost available material with more fines. Check the overall gradation of the material to ensure that it conforms to the tested, pre-project sample.

Step 2:

For each m2 or km2 of road base material, add solution of Geolonic to the amount of water necessary to obtain optimum moisture.

Spray both the bladed surface and the windrow to reach optimum moisture.

Blend the at time of project commencement, material using a grader blade, working the soil and aggregate back and forth to blend in the Geo-lonic and water. If the material is too wet, blade until it approaches optimum moisture. If dry, add more at time of project commencement, solution to bring the material up to optimum moisture. After thorough mixing spread the material to grade.

Step 3:

Extend and crown the road bed surface with a blade. If the material dries out on a hot day, spray again with the Geo-Ionic liquid.

Compact with a sheep foot a pneumatic roller.

Step 4:

Use a vibratory roller for the first pass only and do not use vibratory compaction thereafter as additional vibratory compaction will cause cracking.

Compact in 100-150mm lifts to ensure maximum compaction and, following the final pass, do not disturb the finished surface by attempting to "dress" minor imperfections.

If possible, allow the road bed to cure prior to use (and final testing).

If intending to apply an asphalt or chip seal wear surface, moisten the road base surface with a diluted Geo-Ionic application before applying the new wear surface. That will ensure a better bonding of the two materials.

Cures Like Concrete

GEO-IONIC FAQ

Does Geo-Ionic save construction and maintenance costs?

Adding the compound to base material reduces costs in two ways. Firstly, there is no need to import base material, if Geo-lonic is used in road, pad or field construction. Geo-lonic is mixed with onsite soil to produce a solid base, simply use the fines that are characteristic with the road surface. Additional material is not generally required. Secondly, the extremely low permeability of Geo-lonic means a reduction in the occurrence of potholes, corrugations and erosion thereby saving on maintenance costs required over several years.

What kinds of soil will Geo-lonic stabilise?

Geo-lonic can be used with a wide variety of soil types, from sandy to hard clay. This versatility is accomplished by varying the dilution rate of Geo-lonic to water in the application process. Soil types that GEO-IONIC can effectively stabilise are: sandy soil (only with fines), fine gravel (with fines), silty soil, volcanic ash, clay, crushed asphalt (with fines), crushed concrete and combinations/mixed soils.

Will Geo-Ionic harm plants, animals or aquatic life?

When diluted to a 1% solution, and applied directly into the road, the product is totally inert. In the road substrate it will not harm plant, aquatic, or animal life. Recent leachate tests found that no harmful substances leached into surrounding soil from applications of Geo-lonic. It is non-flammable, non-combustible.

It has been designed to be a truely environmentally and agriculturally friendly compound. Further, Geo-lonic is compatible with hydro-seeding. (see below)

How does Geo-Ionic control dust and erosion?

When a very dilute solution of Geo-lonic is sprayed over dusty soils, the product binds the soil to a depth sufficient to trap surface particles that would otherwise be blown by the wind or washed away by rain.

The crusty cover will last throughout several seasons. Application helps users to avoid air quality violations that develop during construction projects.

Geo-lonic is compatible with hydro-seeding, as the Geo-lonic treated soil allows plant life to grow and enables germination to take place uninhibited by wind or water erosion.

How Easy is Geo-Ionic easy to apply?

In constructing and rehabilitating roads, geo-lonic can stabilise over 10,000 m² per day requiring only the following equipment, a road grader, vibrating compactor and water truck with spray bar and control valve.

Normally, a 200 Litre drum of Geo-Ionic concentrate will cover 2000 m² of road at the recommended depth of 100 mm. Generally the water mix is 1 Litre of Geo-Ionic in 100 Litres of water, just needing to be adjusted for optimum moisture.

WHAT ROCKS ABOUT GEO-IONIC

- A unique patented product with current ISO 9001-2015 certification
- The compound is classified under Australian Standards as "Non Dangerous Goods"
- Geo-Ionic compound is considered environmentally friendly, meeting all Australia's strict standards
- Cures like concrete in just a few minutes and is instantly available to drive on
- The product has excellent dust suppression properties which makes it a boon for mining uses
- It is the most cost effective solution saving millions in both construction and maintenance costs
- Application is very simple as it does not require specialised equipment to apply
- It does not require importation of material it can use material on site
- It is proven, and has been widely used on non sealed roads in Australia
- If your are building a road and want to save up to 60% on maintenance costs over the next ten
 years call us for an obligation free quote, we we let the numbers speak for themselves
- Geolonic is approved for use by the United Nations.



UNIQUE INVESTMENT OPPORTUNITY

Become a national dealer for Geo-Ionic and Geo-Ionic Plus and reap the benefits of the expected boom in infrastructure projects post pandemic. As the world bounces back form the 2020 economic collapse, governments and organisations such as the **United Nations** and **World Bank** will be promoting infrastructure projects in order to kick start economies and job creation across the globe. The cost to purchase a Geo-Ionic master franchise is \$US100,000.00 on a deferred payment basis and the agreement is for a period of ten years, renewable at no cost provided the criteria of distribution agreement are met.

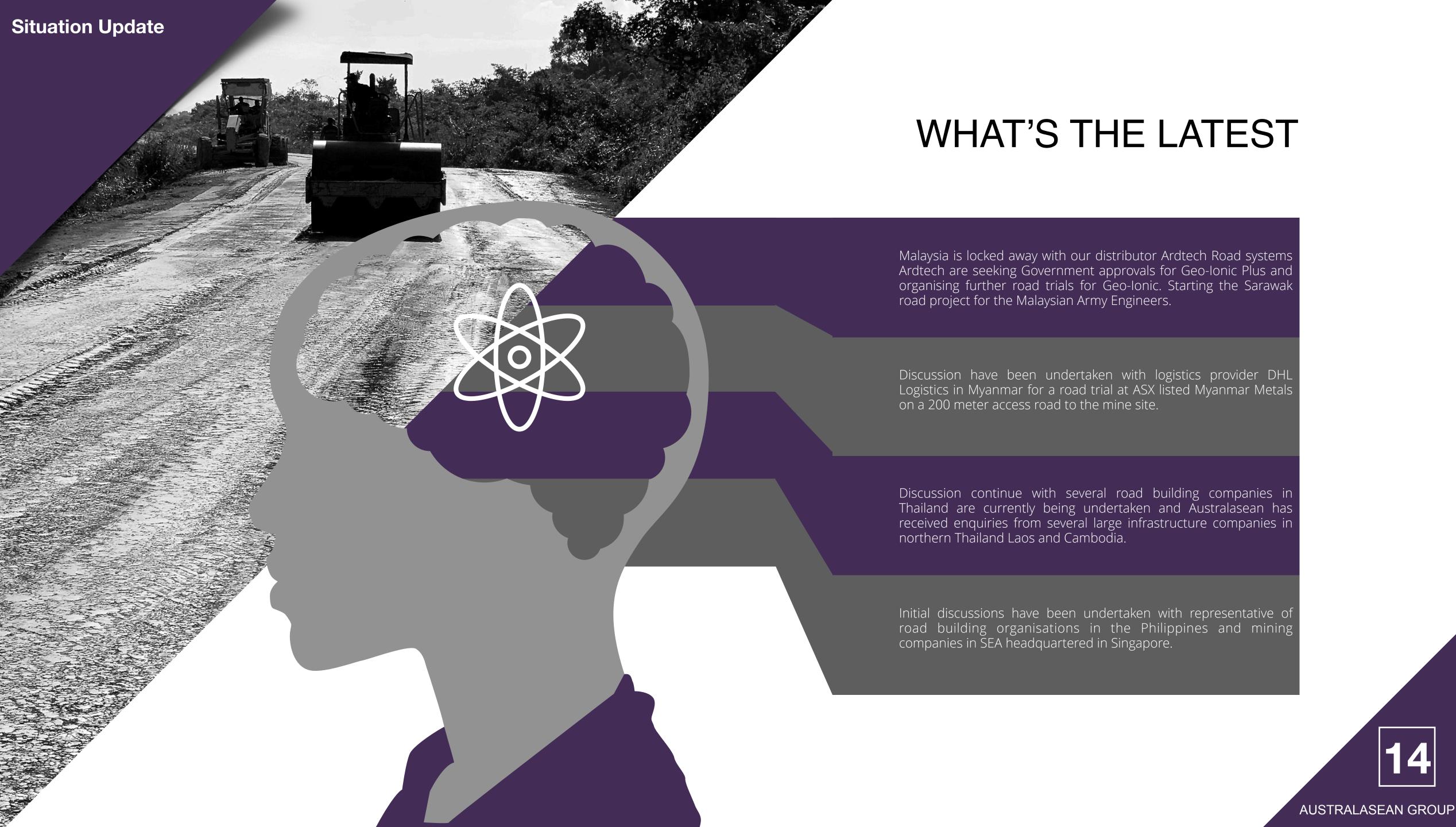
We have a unique value proposition for investors wishing to acquire their own country or regional franchise, call us to fine out more.

The global market for road stabilisation in 2021 is estimated to be at least US22 billion dollars of which 40% will be in the Asia Pacific region. In terms of Geo-Ionic, the world's best most innovative stabilisation product is the exclusive domain of AustralAsean Group.

Global Market Statistics	
Market	World wide market for road stabilisation is \$US22 billion in 2021 up from \$US20 billion in 2018
Apac Market	Forty Percent (40%) of this market will be in the Asia Pacific or US8.8 Billion
AustralAsean	Austral Asean is seeking 1% going to 5% of the APAC market or \$US 88 - \$US400 million
Future	The market is predicted to grow at 4.7% pa compounded in the next ten years giving a target of \$US600 million

Investing in AustralAsean. Our modelling estimates the potential profit to AustralAsean based on the above market penetration will be over 10% giving the group potential profits of 8.8 million - 60 million dollars per annum, and that sure beats bank interest. If you are interested please call us now to discuss this exciting and unique investment opportunity.

There are several ways to invest. By purchasing a country of regional franchise or by direct investment into Austral **Asean**. This is a speculative venture and this document is not a prospectus or offer to sell shares.



seis like concient

CONTACT US

AUSTRALASEAN GROUP PTY LTD

ABN: 59619202916



P +61 468330059

F +61 294750224



6-8 Mulgoa Road, Penrith, NSW, Australia, 2750 80 Albert St Osborne Park, Perth, WA Australia, 6017 ที่อยู่1129/3ซ,นิติพัฒน์,,ในเมือง,อ,เมือง,จ,หนองคาย 43000 103 A, Jalan BP 6/3, Bandar Bukit Puchong 47120 Selangor, Malaysia



AustralAsean@gmail.com www.australasean.com.au



fb.com/Australasean



twitter.com/Australasean



linkedin.com/Australasean