

# EMERGENCY RESPONSE



Teams of expert  
IRATA personnel ready  
within 24 hours.



**RAM**  
RIX ASSET MAINTENANCE

Specialists in innovative slope  
stabilisation and rope access solutions





We ensure access to critical road, infrastructure and communities are restored quickly and safely.

In the event of a natural disaster, RAM (RIX Asset Maintenance) delivers fast, effective solutions to safeguard lives and infrastructure.

Specializing in slope stabilization and geotechnical remediation, our expert teams and cutting-edge plant technology ensure critical roads, sites, and communities are restored quickly and safely.

Our rapid response teams can be deployed within 24 Hours to attend to damage caused by:

**Bushfires**  
**Flooding**  
**Landslides**  
**Cyclones**  
**Earthquakes**

Our Values 1

Key Strengths 2

Experience & case studies 3

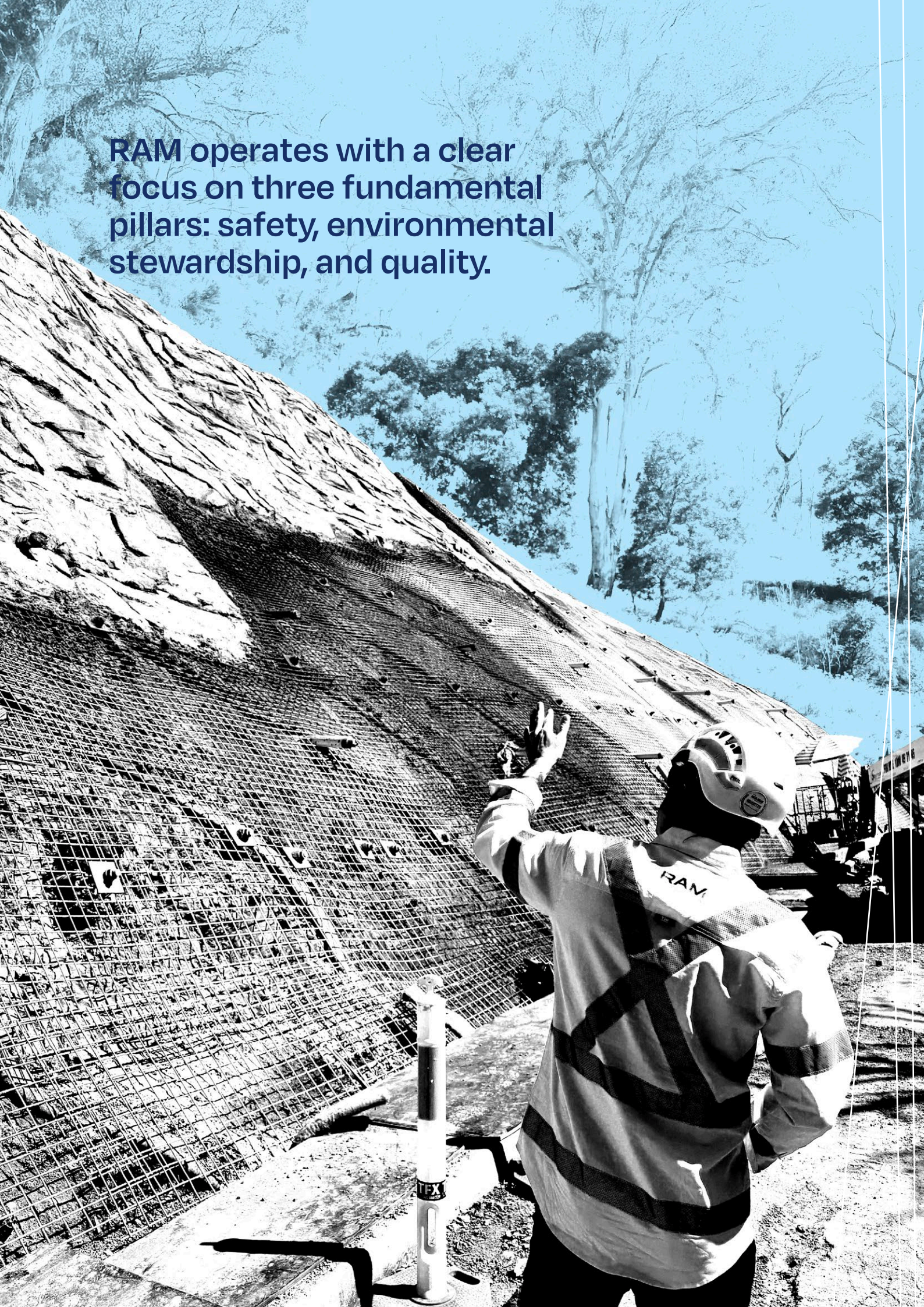
We have the capability 4

We have the network 5

Contact 6

(Left) A substantial landslide cut off access to Megalong Valley, NSW. After an initial emergency response, RAM's highly experienced rope access team and specialist plant worked over two months to reinstate the 28-ton load limit on the road - often in challenging winter conditions.





**RAM operates with a clear focus on three fundamental pillars: safety, environmental stewardship, and quality.**

# Our Values

**These values underpin our operations, ensuring we deliver innovative, reliable and proven solutions for complex geotechnical challenges and emergency response situations.**

## **Safety: The Core of Every Operation**

Safety is at the heart of RAM's approach, guiding our methods, equipment use, and team training. Our extensive team of IRATA Rope Access technicians and engineers is equipped with the latest techniques – scaling, blasting, drilling, shotcrete, mesh systems and rockfall barriers to ensure safe and efficient project execution in high-risk environments. Strict safety protocols, supported by modern equipment and ongoing training, minimize risks for personnel, clients, and the public.

## **Environment: Sustainable Practices in Action**

RAM is committed to minimizing the environmental impact of our work, especially in disaster-prone or ecologically sensitive areas. Our ability to drill at any height and location, combined with precise techniques like high-reach drilling and rockfall barrier installation, reduces unnecessary disruption. Every project is executed with a focus on preserving the surrounding environment while ensuring infrastructure stability and safety.

## **Quality: Excellence Engineered into Every Project**

Quality defines RAM's operations. From initial site assessments to project completion, our team of dedicated engineers ensures that every solution meets the highest industry standards. Whether its deploying high reach drilling equipment, installing rockfall systems or applying shotcrete, our modern fleet of equipment and expertly trained personnel ensure precision and durability in every project.





# Key Strengths

**By focusing on safety, innovation, and quality, RAM has established itself as a leader in geotechnical and emergency response services, delivering dependable solutions that protect communities and infrastructure.**

## Specialized Equipment

RAM maintains a vast fleet of modern equipment, including high-reach production drilling plants, wagon drills, and advanced shotcrete systems. This specialized machinery enables RAM to operate effectively across any terrain or elevation, delivering tailored solutions to meet the unique challenges of each project.

## Expert Personnel and Rapid Deployment

With a large team of skilled IRATA Rope Access Technicians, engineers, and geotechnical specialists, RAM ensures swift mobilization and efficient execution of projects. This rapid response capability is critical for addressing emergencies and geotechnical risks promptly and effectively.

## Versatile Scaling Solutions

RAM's expertise in scaling includes advanced techniques such as rope access, airbags, aerial sluicing, machine scaling and blasting. These methods allow the team to mitigate rockfall hazards and stabilize slopes safely, even in the most complex and high-risk environments.

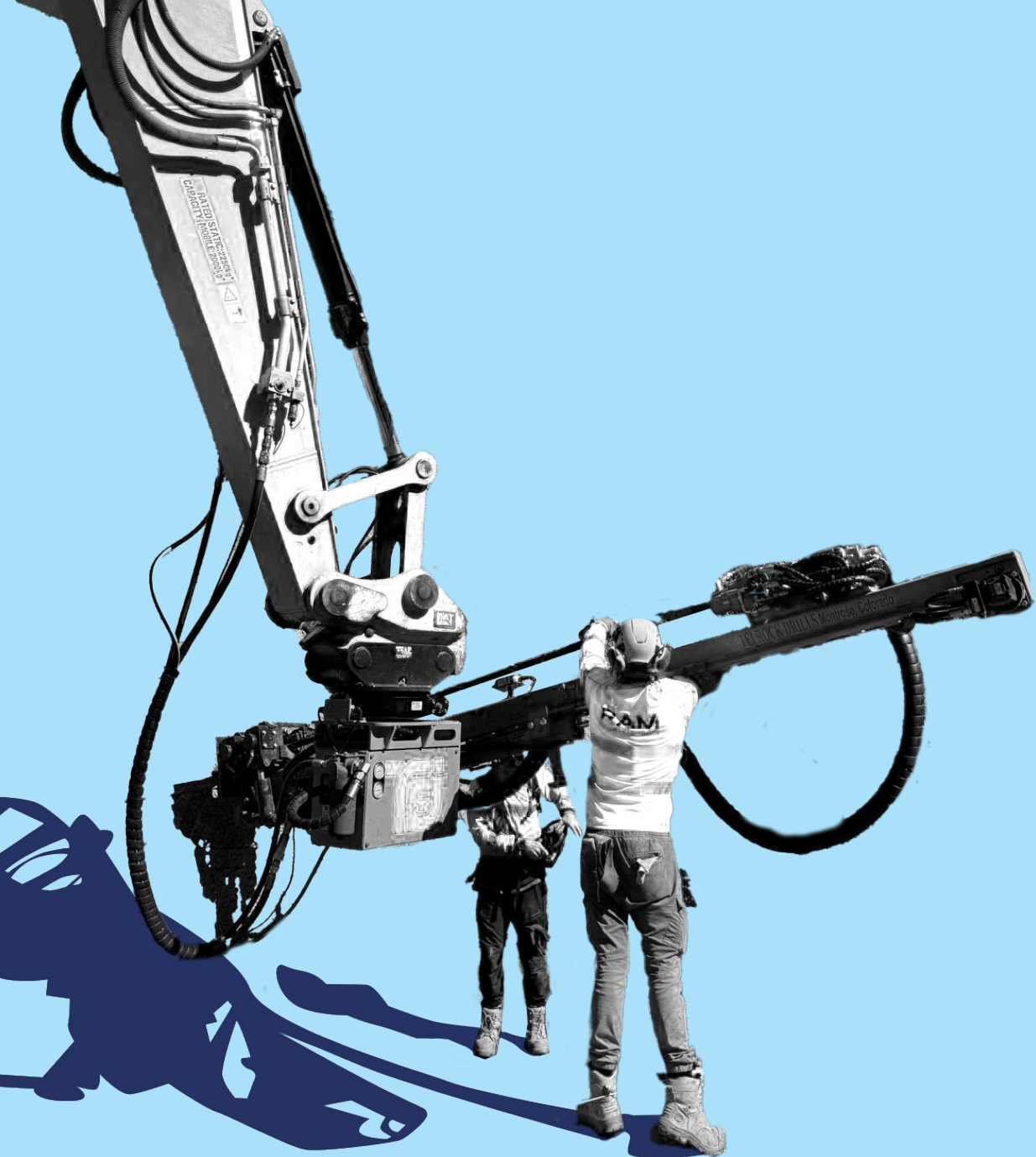
## Commitment to Quality

Guided by a team of dedicated engineers, RAM prioritizes precision and excellence in every project. From initial assessments to the final execution, RAM ensures that all work meets rigorous quality standards, delivering durable and reliable outcomes.

## Scalability and Support from The RIX Group

With a team of over 150 IRATA Rope Access Technicians and as a subsidiary of The RIX Group, RAM benefits from access to additional resources, capabilities, and expertise. This relationship enhances RAM's capacity to take on large-scale projects and provides the flexibility to scale operations as needed, giving clients the advantage of a well-supported and highly capable team.





# Experience

The foundation of reliable  
emergency response

**In emergency situations, experience isn't just valuable—it's essential. At RIX Asset Maintenance (RAM), we've built a reputation for excellence by delivering geotechnical solutions under the most challenging conditions.**

**Experience enables us to assess risks rapidly, implement tailored solutions, and adapt to evolving circumstances on-site.**

Experience enables us to assess risks rapidly, implement tailored solutions, and adapt to evolving circumstances on-site. From scaling unstable slopes to deploying advanced rockfall barriers and stabilizing critical infrastructure, our proven methodologies ensure projects are executed efficiently, safely, and within tight timeframes.

## **Why does this matter?**

In emergency response, every second counts. Delays can endanger lives, disrupt communities, and increase costs. Experienced teams like RAM's deliver not only speed but also reliability, minimizing downtime while ensuring long-term safety. Our deep knowledge of terrain, advanced rope access techniques, and innovative equipment ensure no challenge is too great.



# Binna Burra Bushfire

Following the Southern Queensland Bushfire extreme weather event in 2019, multiple slopes along Binna Burra Road were affected and required Emergency Stabilisation works and were required on both the downslope and upslope

- Total Anchors Installed 1,271 No.
- Total Length of Self Drilling Anchors 6,436 m
- Grout Volume 86,886 L
- Shotcrete Sprayed 600 m³
- GBE-500A-Rock Fall Barrier 70 m
- RXE-3000 Rock fall Barrier 6m height 120 m
- Rock Fall Drapes 10,000 m²

On arguably the biggest Rope Access Geotechnical Project in Australia during 2020, RAM provided circa 50 multi-skilled Rope Access Technicians, working around the clock to make safe the slopes ravaged by fire. This was achieved by initially completing Rock Scaling and Tree Removal before stabilising the slopes by installing over 1300 Soil Nails and Micropiles.

On many of the downslopes RAM installed in excess of 500m3 of reinforced shotcrete prior to the installation of Gabion Walls whilst on the upslopes Installed Rock Fall Protection Drape Mesh Systems & Rock Fall Barriers, which allowed traffic and other contractors safe access to Binna Burra Lodge, which was devastated by fire and was to be re-built from the ashes.

With more than 25 separate sites/slopes spread along Binna Burra Rd, and the extremely difficult access conditions, RAM utilised a variety of drilling techniques including High Reach production drilling units, cliff face wagon drills, hand drills and crawler rigs

# Armidale Road Flooding

Following flooding events in 2022, embankment sections of Kempsey - Armidale Road experienced localised landslides. At the very likely risk of the road being rendered impassable due to regression of the landslides - Emergency remedial works needed to be undertaken.

The method selected by Geotechnical Engineers was a soil nail wall with build out, to recover the loss of ground. The shotcrete facing was installed at around 70° vertical below road level in the slip sections and around 40° in non-slip sections with tie-ins to existing slopes. RIX Asset Maintenance (RAM), who specialise in completing these types of difficult access works, with their experienced workforce and specialist plant, had been contracted to undertake the installation of soil nails, slope reprofiling and shotcrete wall build outs. RAM provided a flexible, multi-disciplined team of up to 25 personnel at short notice to deliver the project in this challenging and remote location.

- |                         |                                 |
|-------------------------|---------------------------------|
| Soil Nails              | Rope Access                     |
| Titan 40/16 hollow bars | Slope reprofiling               |
| Formed build outs       | Vegetation removal              |
| Shotcrete build outs    | Geotechnical Project Management |
| Culvert installation    |                                 |







# Gold Coast Hinterland Flood Damage

DRFA Event 22F

Following the extreme weather rain event, multiple slopes in the Gold Coast Hinterland required Emergency Stabilisation works on both the downslope and upslope

RAM were able to mobilise in excess of 40 personnel within 1 weeks' notice.

We specialise in completing these types of difficult access works and were contracted to undertake the installation of soil nails, rock bolts, drainage holes, shotcrete, and rock fall mesh.

|                                    |                          |
|------------------------------------|--------------------------|
| Self Drilling Anchors              | TECCO G65 Rock Fall Mesh |
| Rock Bolts                         | Rope Access              |
| Post Tensioned Soil Nails          | Scaling                  |
| Shotcrete Slopes and Batter Chutes | Reno Mattress            |
| Coir Matting                       |                          |



The slopes along the road are continuously affected by the tidal movements of Currumbin Creek and the deterioration required immediate intervention to ensure public safety and maintain the road's usability.

RAM was engaged by SEE Civil as a subcontractor to perform the installation of 893 gabion baskets - at four different site locations - with a volume over 1,100 cubic meters. They were filled with design-specified rock and RAM utilised fall arrest and rope access support to ensure the safety of our crew.

|                     |
|---------------------|
| 5 - Tonne excavator |
| 185 CFM compressor  |
| Spannex Guns        |

# Currumbin Creek Rd Erosion

DRFA Event 22AFI



# FREW Tomewin Mountain Rd Flood Damage

DRFA Event 22AF

As part of the DRFA Event 22AF Reconstruction works, RAM was awarded the subcontract to complete slope remediation works at 6 sites.

This project is a great example of effective collaboration contributing to ultimate success. The transparency and open communication between the two business contributed to the project being completed on schedule, with no health and safety incidents, and with minimal disruption to road users.

|                                              |                                                                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Quality System                               | Supply and installation of structural reinforcement steel mesh, spider bars, strip drains, expansion joints, and coir matting.                 |
| Environmental Management Plan                |                                                                                                                                                |
| Health & Safety Coordination Plan            | Shotcrete Spraying                                                                                                                             |
| IRATA compliant Rope Access techniques.      | Rope Access techniques                                                                                                                         |
| Soil nail treatment                          | Scaling, trimming, and clearing the work face of vegetation and loose debris to construction levels, and lawful disposal of material off-site. |
| Supply and installation of Gabion Mattresses |                                                                                                                                                |
|                                              | GeoPRO 14T excavator + TEI Mast                                                                                                                |



# Megalong Valley Emergency Works Landslide

A substantial landslide cut off access to Megalong Valley. Phase 1 of the project, RAM were engaged to help reinstate single lane access and re-diverge water to avoid further slippage. Phase 2 - RAM's highly experienced rope access team and specialist plant worked over two months to reinstate the 28-ton load limit on the road - often in challenging winter conditions. Light weight drilling equipment was suspended down the slope to avoid overloading the unstable road.

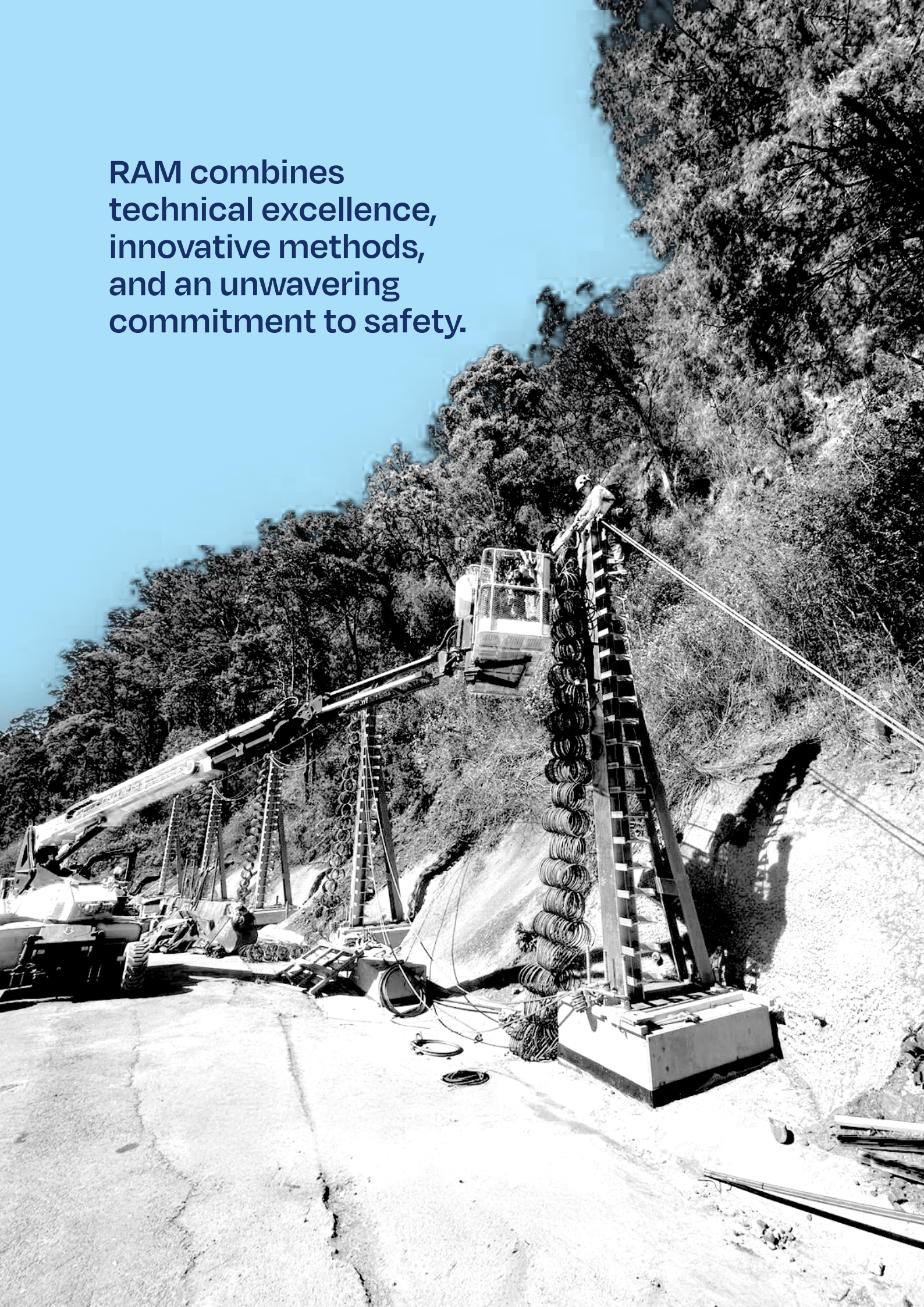


# Mt Tamborine, QLD Rockfall hazard DRFA Event 21C

A significant rock fall hazard required a slope stabilisation solution to make the Tamborine Mountain Road safe. This high-level location could only be accessed using Rope Access Techniques and RAM were contracted to install anchoring and Geobrugg TECCO® Mesh as well as rock fall barriers.

Further information and Case Studies are available online  
[www.rixam.com.au/projects](http://www.rixam.com.au/projects)





RAM combines  
technical excellence,  
innovative methods,  
and an unwavering  
commitment to safety.

## We have the capability

At RIX Asset Maintenance (RAM),  
our expertise is built around two core  
service categories: Slope Stabilisation  
and Rope Access.

**Our Slope Stabilisation** services focus on securing terrain and infrastructure, utilizing techniques such as rockfall barriers, mesh drapes, scaling, drilling, and blasting. These solutions are essential for mitigating geohazards, ensuring the safety of people and assets, and maintaining the integrity of critical infrastructure.

**Our Rope Access services** enable us to perform specialized tasks in challenging environments, including geotechnical, non-destructive testing, advanced rigging, repairs, and maintenance. With a highly skilled team and modern

equipment, we provide safe and cost-effective solutions where traditional access methods fall short.

Through these two service pillars, RAM combines technical excellence, innovative methods, and an unwavering commitment to safety, ensuring the successful delivery of projects across diverse industries and environments.



# Slope Stabilisation



## Rock Fall Protection Barriers/Catch Fences

RAM can install rockfall barriers that stop impact energies of up to 10000 kJ. We deliver rockfall protection and catch fences to keep people and assets safe for the mining, energy and civil engineering sectors.



## Rockfall Mesh Drapes

We can install rockfall drape systems without the need to use heavy equipment and machinery. We provide mesh systems for all slopes no matter how difficult the access - whatever the shape and size of the failures. We partner with the world leaders in rock fall protection systems.



## Scaling/Rock Removal, Drill and Blast

Whether the job calls for hand tools, excavators or drill and blast, we take on contouring and reprofiling safely and efficiently. We've delivered this kind of work across all mining and construction sectors.



## Rock Bolts

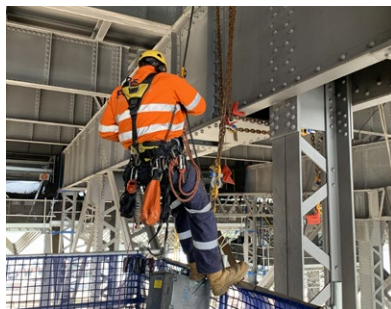
We'll sort out drilling for your anchors or bolts, no matter how difficult the access. Our portable rope access equipment, production crawler and anchoring rigs and allow us to reach any difficult or high access projects.



## Shotcrete

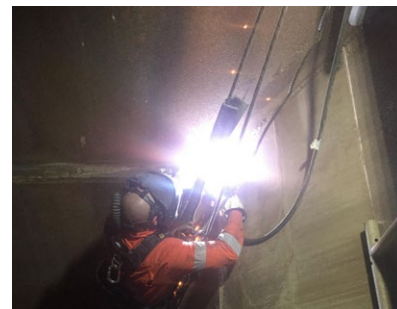
RAM has established itself as the largest ground engineering shotcrete applicator in Australia. Our teams spray in excess of thirty thousand cubic metres of shotcrete across the Asia Pacific each year as well as installing several hundred thousand meters of anchors, soil nails and rock bolts.

# Ropes Access



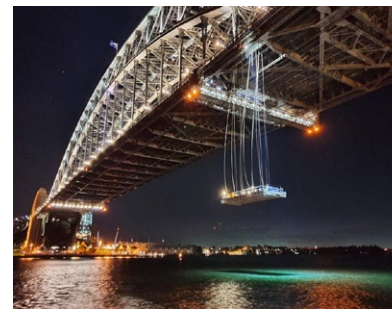
## Asset Maintenance

RAM undertakes rope access non-destructive testing services for corrosion protection on plant and equipment in the mining, refining and energy sectors.



## Repairs, Maintenance, Blasting and Coatings

Our rope access teams are multi-disciplined tradespeople who can undertake difficult access repairs and maintenance including - but not limited to - blasting and coatings, welding, cutting, hot works and fitting, confined space.



## Advanced Rigging

The RAM rope access crews come self-contained with certified riggers and doggers and are capable of undertaking complex lifting plans in difficult access locations.



## Specialist Concrete and Membrane

Our association with The RIX Group of companies give RAM access to the latest concrete and membrane techniques, as well as modern plant and equipment for repair. All of this can be done in the most difficult access locations, using traditional scaffold, boat, EWP or rope access techniques.



# We have the network

## Our longstanding and valued relationships

with specialist contractors, emergency services and government organisations stands us in good stead when we need to hit the ground running.

## With extended capabilities provided by the RIX Group

- Australia's Largest Ground Engineering Contractor - we are confident that we are ready to respond quickly, and effectively, when you call.

Honesty and integrity drive  
our client interactions - because  
we know that what you need  
most is a partner you can trust.



**RIX Asset Maintenance is a premium provider of innovative rope and difficult access solutions to all civil & construction engineering, maintenance and mining projects and operate throughout Australia, New Zealand, and the greater Asia-Pacific region.**

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RAM is the rope access and slope stabilisation specialist subsidiary of The RIX Group providing access to a wide range of specialist equipment.

