

Category 5: Young Stabiliser of the Year

Dominic Kozub
Hiway

HIWAY



2024 AustStab Awards of Excellence

Proudly sponsored by **CATERPILLAR**[®]



Dominic Kozub

- Summer 2021-2022: Undergraduate Site Engineer assisting in delivering the Bulla Spoil Facility project, a critical infrastructure project to support Victoria's largest construction project the West Gate Tunnel
- June 2023: Graduated from Swinburne University with a Bachelor of Engineering (Civil) (Hons), and a Bachelor of Business with a major in Logistics & Supply Chain
- October 2023: Completed \$10 mil road rehabilitation contract in the Pilbara region of Western Australia as the primary site engineer
- January 2024: Currently undertaking his first major FBS project for MRPV at Bridge Inn Road, Doreen

Proudly sponsored by **CATERPILLAR®**



Pavement Recycling and Stabilisation Association

Dominic Kozub



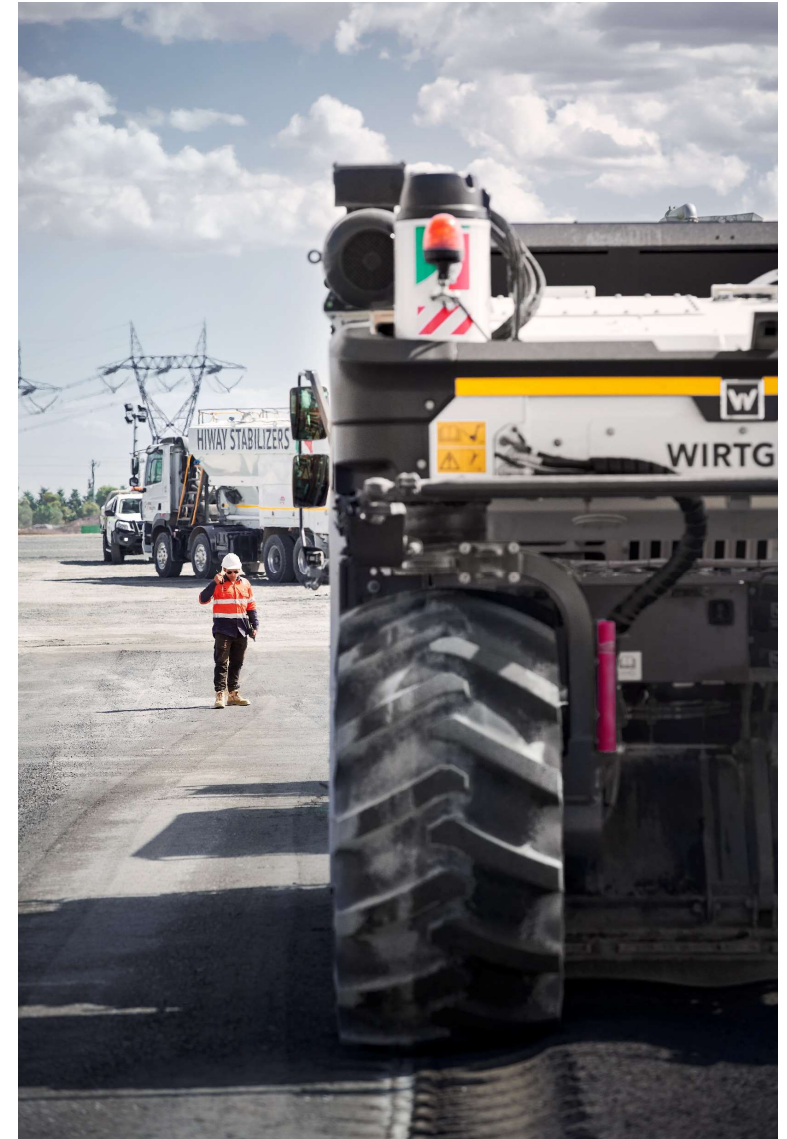
Skill Set:

- Reviewing geotechnical reports and utilising CIRCLY to develop cost-effective and sustainable design alternatives
- Highly knowledgeable in foam bitumen stabilisation.
- Enforcing a safe work culture with a high emphasis on quality
- Exceptional planning and management skills for effective delivery of on-site operations

Proudly sponsored by **CATERPILLAR®**

Bulla Spoil Facility

- Project Overview
 - 320,000m² of in-situ lime stabilised subgrade and cement stabilised subbase
 - 20,000m² of in-situ foam bitumen and 300,000m² of ex-situ foam bitumen stabilised basecourse
 - 2 Full-service in-situ stabilisation crews and 1 ex-situ stabilisation crew operating simultaneously
- Challenges
 - Tracking of daily productions over such an extensive area and multiple crews
- Solutions
 - Became proficient in using GPS survey equipment to track daily production extents and locality



Proudly sponsored by **CATERPILLAR**[®]

Pilbara Pavement Rehabilitations

■ Project Overview

- 94 total patches over a total area of 120,000m² within the Pilbara region
- Total project value of \$10 million completed over 4 months
- Works included cement stabilisation of existing base-course material and imported aggregate, trimming stabilised pavement, sealing and line marking.
- Working directly for Main Roads as the principal contractor

■ Challenges

- Large distances between patches and towns requiring effective logistics planning
- Working along live traffic with a large volume of road trains carting iron ore

■ Solutions

- Careful planning and forward-thinking allowed for the project to be completed on time and below budget
- Positive communication between road work crews and traffic control to mitigate safety risks associated with working near live traffic
- Promoted a safe working culture to ensure zero LTIs



Proudly sponsored by **CATERPILLAR®**



Bridge Inn Road Upgrade – MRPV

■ Project Overview

- 15,000m² of foam bitumen stabilised base-course spanning over 1km
- Additional 5,000m² of subgrade stabilisation works

■ Challenges

- Foam bitumen stabilisation (FBS) works during winter increased risk towards quality due to unfavourable and wet weather conditions
- MRPV required a high level of QA including pre/post-construction testing and site-specific ITPs completed



■ Solutions

- Where field moisture content was slightly high secondary binder (lime) application was increased. However, for areas too wet for FBS, works were cancelled to mitigate the risk of rework
- Lot register developed and updated regularly to track QA requirements over multiple lots

Proudly sponsored by **CATERPILLAR®**

Closing Remarks

“Being fortunate enough to work in a field with cutting-edge recycling technology, I have developed a very strong passion for being able to do construction in the most sustainable way. I am excited about my future in recycling as it feels like we are in a great time of change towards being a more environmentally friendly industry and building a more environmentally sustainable future for generations to come. I Look forward to continuing my career with Hiway in paving the way to a more sustainable future.” – Dominic Kozub



Proudly sponsored by **CATERPILLAR®**

