

Advancing Road Safety and User Well-being

THE SIGNIFICANCE

ROLINTAS, entrusted with the development, operations and maintenance of six major intra-city highways within the Klang Valley, places paramount importance on road safety and user well-being.

This commitment forms the cornerstone of our operational philosophy, transcending mere corporate mandates to become a fundamental aspect of our service delivery.

Our highways, AKLEH, GCE, LKSA, SILK, SUKE and DASH, serve as vital arteries in Klang Valley's transportation network. The significance of ensuring safety and comfort on these routes cannot be overstated. Each day, thousands of commuters rely on our highways, making their safety our primary responsibility.

Road User Well-being is not just a slogan for PROLINTAS; it is a core value that permeates every decision and action we undertake. Our commitment to road safety and user well-being manifests through a comprehensive approach built upon four key pillars.

These four pillars form the foundation of our strategy, working in concert to elevate every journey on PROLINTAS highways. By integrating sustainable safety practices, well-maintained infrastructure, environmental responsibility, thorough emergency preparedness and ongoing user education, we strive to create safer, more efficient, and more comfortable travel experiences for all who use our roads.



CHAPTER 10: STRATEGIC FOCUS AREA 4: SUSTAINABLE SUPPLY CHAIN CHAPTER 11: STRATEGIC FOCUS AREA 5: RESPONSIBLE RESOURCE MANAGEMENT CHAPTER 12: OUR PERFORMANCE INDICATORS AND ASSURANCE 1

Strategic Focus Area 1

Advancing Road Safety and User Well-being

APPROACH

Sustainable Road Safety and Well-being

We implement comprehensive safety measures and continuously improve our systems to ensure long-term safety for all road users, prioritising not just accident prevention but also the overall well-being and peace of mind of those who travel on our highways and surrounding communities.

Upgrading and Maintenance of Highway Infrastructure

Our highways undergo regular upgrades and meticulous maintenance to meet the highest standards of safety and efficiency.

Emergency Preparedness and Response

Our teams undergo rigorous training and participate in regular drills to ensure swift and effective responses to any highway incidents.

Road Awareness and Engagement

We actively engage in educational initiatives to promote safe driving practices and increase user awareness, contributing to overall highway safety.

Our steadfast commitment to road safety and user well-being goes beyond the management of highways. It includes safeguarding lives, ensuring smooth urban mobility and enhancing the overall quality of life in the communities we serve.



In doing so, we actively support the national goal of reducing traffic fatalities and injuries across Malaysia, aligning our efforts with broader road safety initiatives to create safer and more sustainable environments for everyone.

This dedication to excellence in safety and service remains at the heart of our mission, driving us to continually raise the bar in highway management and user experience.

For PROLINTAS, every journey matters!

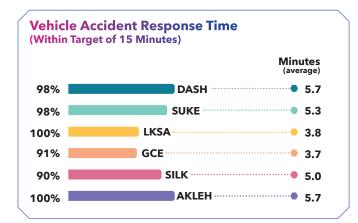
Advancing Road Safety and User Well-being

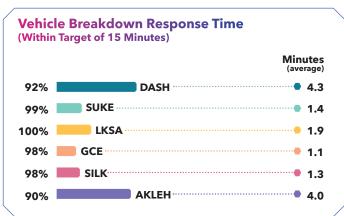
OUR PERFORMANCE

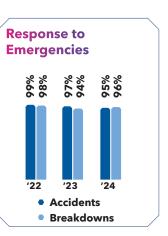
The Group assessed the effectiveness of its road safety and user well-being initiatives through key performance indicators, including accident and fatality rates as well as incident response times on our highway network.

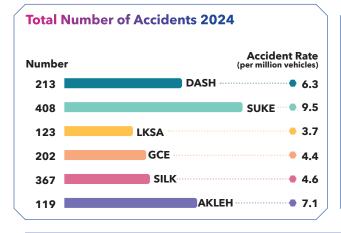
Accident Numbers - Excluding Motorcycle

Accident Rate - Excluding Motorcycle (Per Million Vehicles)



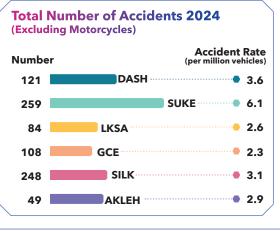


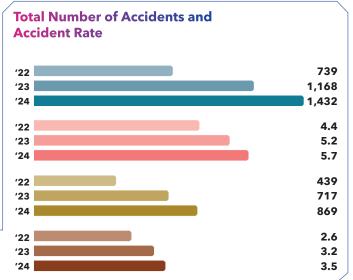




Accident Numbers

Accident Rate (per million vehicles)







Advancing Road Safety and User Well-being



As a highway operator committed to excellence, we continuously enhance our infrastructure and operations to ensure the utmost safety and comfort for our users.

In 2024, we initiated the following key initiatives (but not limited to):

- Road surface improvements: The installation of high skid-resistance rollgrips enhances vehicle traction, particularly in challenging conditions.
- Proactive monitoring: Our Centralised Call Centre, coupled with the Traffic Monitoring Centre and regular patrols by auxiliary police, ensures rapid response to any incidents.

- Advanced warning systems: We implemented chevron signs with flashing blue lights at highrisk areas, providing clear visual cues to drivers.
- Clear communication: Speed limit pavement markings and Variable Message Signages warn users of current conditions and provide safety reminders.
- Infrastructure upgrades: We expanded SILK to four lanes to enhance traffic flow, installed sliding emergency median openings for quicker emergency access and refurbished laybys to improve user comfort and convenience.
- User engagement: We actively established partnerships with our users and local communities, spearheading road safety education and awareness programmes that drove meaningful engagement and promoted responsible highway use.

These measures reflected our ongoing dedication to upgrading our highways. We combined technological solutions with strategic infrastructure improvements and community engagement to create a safer, more efficient and user-friendly highway experience for all.

STAKEHOLDERS IMPACTED



Road Users



Employees



External Providers

RELATED MATERIAL MATTERS



INNOVATION AND TECHNOLOGY



ROAD USER WELL-BEING



CAPACITY, CAPABILITY, **COMPETENCY AND CULTURE**

CAPITALS IMPACTED



Manufactured



Intellectual



Social and Relationship

Strategic Focus Area 1

Advancing Road Safety and User Well-being

SUSTAINABLE ROAD SAFETY AND WELL-BEING

IMPACT STORY 1: TRANSFORMING HOTSPOTS TO SAFETY ZONES

n 2023, PROLINTAS faced a challenge at KM15.7 West Bound ("WB") on the DASH highway. This section, stretching from Penchala Link towards Puncak Perdana, had become an accident hotspot with a total of 14 accidents. This statistic demanded immediate and effective action to ensure the safety of our road users. Recognising the urgency of the situation, our team at PROLINTAS swiftly developed and implemented initiatives to address this critical safety concern.

Initiative 1: Enhanced Visual Warnings

We installed three sets (nine units) of "SLOW" pavement markings at KM15.8 WB. These high-visibility markings serve as a clear, immediate signal to drivers to reduce their speed as they approach the area.

Initiative 2: Advanced Signage Technology

We further reinforced our safety measures by installing 10 Chevron LED signs at KM15.75 WB. These dynamic, illuminated signs provide enhanced visibility, especially during low-light conditions, effectively guiding drivers through the section.

Initiative 3: Innovative Road Surface Treatment

In a more extensive operation, we installed the Geveko High Skid Rollgrip (Rollplast system). This 120-metre application approaching KM15.7 WB not only increases road grip but also incorporates speed limit pavement markings, creating a safety zone.



The Impact

The impact of these initiatives was positive and encouraging. In the period following their implementation from 2023 to 2024, we observed a notable reduction in accidents.

Total accidents decreased from

NO fatalities or major injuries were recorded Minor injuries were limited to

2 cases

Vehicle damage incidents reduced to 3

This improvement resulted in a 92.9% reduction in total accidents, and importantly, no severe incidents occurred during this period. The absence of fatalities and major injuries indicated that our targeted safety measures yielded positive outcomes in line with our objectives. We viewed this outcome not just as a statistical improvement, but as a reflection of our commitment to road user safety.

Each prevented accident represented a potential tragedy averted, a family spared from distress, and a community made safer.

Transforming hotspots into safety zones by implementing targeted measures to enhance road safety and protect commuters.

Strategic Focus Area 1 Advancing Road Safety and User Well-being



While we are encouraged by these statistics, the **real impact lies** in the **enhanced safety for families and the communities.** This experience underscores the importance of continuous improvement and proactive risk management across our network, as we strive to elevate highway safety standards in Malaysia.

EN. MOHAMED IBRAHIM PACKEER MOHAMED

Head of Subsidiary, DASH

STAKEHOLDERS IMPACTED



Road Users



Communities



Regulators and Authorities

RELATED MATERIAL MATTERS



ROAD USER WELL-BEING



IMPACT ON COMMUNITIES

CAPITALS IMPACTED



Manufactured



Social and Relationship

Strategic Focus Area 1

Advancing Road Safety and User Well-being

SUSTAINABLE ROAD SAFETY AND WELL-BEING

IMPACT STORY 2:

ENHANCING SAFETY AND COMMUNITY RELATIONS AT DENAI ALAM REST SERVICE AREAS

The DASH highway has four Rest and Service Areas ("RSAs"), two of which are located at Denai Alam on both bounds. These Denai Alam RSAs have become popular gathering spots for the public on weekends, creating vibrant community spaces. However, their growing popularity has also brought challenges. Incidents in 2024 highlighted the need for improved management strategies to ensure public safety and protect the quality of life for nearby residents.

Several incidents were reported involving groups of highway users, both car and motorcycle enthusiasts, who took turns gathering at the RSAs and engaging in disruptive activities. These included excessive engine revving, reckless racing and speeding, all of which disturbed the peace and jeopardised the comfort and safety of other road users and nearby residents. Their irresponsible behaviour also posed risks to their own safety.

In response, the DASH team undertook a series of initiatives to improve conditions at the affected areas and restore order.

Initiative 1: Enhanced Public Awareness

We installed three "Notis Peringatan" (Warning Notice) signages at each Denai Alam RSA. These served as clear reminders to users about expected behaviour, reinforcing our commitment to maintaining a safe and pleasant environment for all.



Strategic Focus Area 1 Advancing Road Safety and User Well-being

Enhancing safety and strengthening community relations at Denai Alam Rest Service Areas for a better travel experience.

Initiative 2: Innovative Traffic Calming Measures

We installed Premix Road Humps (Watt Profile) at strategic locations within the Denai Alam RSAs compound. This engineering solution represented an innovative traffic calming measure designed to physically deter speeding and reduce noise pollution. By addressing the root cause of the issue, we took a forward-thinking approach to environmental management.

Initiative 3: Collaborative Enforcement Efforts

DASH engaged with the District Traffic Investigation and Enforcement Division ("BSPTD") Shah Alam, Selangor, to provide support in terms of increasing routine patrols, especially on Sunday nights.

Initiative 4: Comprehensive Enforcement Operations

DASH Highway conducted a collaborative operation with enforcement agencies, namely BSPTD, Shah Alam District Police Headquarters, Selangor and Jabatan Pengangkutan Jalan ("JPJ") Selangor (Guthrie Branch) to carry out an operation to curb activities of vehicle groups gathering and causing noise disturbance to public peace at the Denai Alam RSAs (East Bound/Kuala Lumpur), DASH Highway.

This integrated operation was participated by:

- BSPTD one officer and five enforcement personnel
- JPJ one officer and four enforcement personnel
- DASH four management staff and five DASH highway patrol personnel

The enforcement agencies conducted inspections of multiple groups of assembled vehicles and issued notices and summonses to the respective owners for a range of violations.

Advancing Road Safety and User Well-being

The Impact

Impact 1: Reduction in Resident Complaints

Following the implementation of our initiatives, we observed a marked decrease in complaints from residents and communities in the vicinity of the RSAs. This decline in grievances served as a tangible indicator of the improved quality of life for those living near our highway infrastructure.

Impact 2: Decline in Disruptive Gatherings

There was a significant reduction in the frequency and scale of gatherings by groups previously known to cause disturbances. This decline was especially evident during weekend evenings, which had historically been peak periods for such activities.

Impact 3: Enhanced Safety and Comfort

The installation of the Premix Road Humps effectively deterred speeding and reckless behaviour within the RSAs compounds. This not only reduced noise pollution but also enhanced the overall safety for all road users.

Impact 4: Community Relations

Our proactive efforts in addressing these issues contributed to improved relations with local communities. By demonstrating a clear commitment to public safety and community well-being, the management of DASH reinforced its role as a responsible and community-conscious highway operator.

While we acknowledged that challenges might persist, the positive trends observed underscored the effectiveness of our strategic interventions. DASH remained committed to ongoing monitoring and adaptation of our approaches to ensure the continued safety, comfort and satisfaction of both highway users and neighbouring communities.



with urgency and care. By nurturing strong partnerships with local authorities and implementing targeted measures, we have **enhanced the safety and quality of life for nearby residents**. This success story reflects our vision of creating highway infrastructure that not only serves commuters but also harmoniously coexists with and enriches the communities we are privileged to be part of.

DASH OPERATIONS TEAM

Advancing Road Safety and User Well-being

UPGRADING AND MAINTENANCE OF HIGHWAY INFRASTRUCTURE

IMPACT STORY 3: SCALING NEW HEIGHTS IN HIGHWAY ENGINEERING

▶ UKE adds a new dimension to Malaysia's transportation landscape. At 56.4 metres tall, its segmental box girder bridge is the highest structure in the Klang Valley, showcasing the Group's commitment to innovative infrastructure solutions.

The sheer scale and complexity of this elevated expressway demand innovative approaches to ensure its long-term safety and reliability. We saw this as an opportunity to reimagine our methods for effectively monitoring and maintaining this vital asset.



Recognising this, PROLINTAS partnered with Universiti Teknologi Malaysia ("UTM") to implement a SHM system. The SHM system for SUKE is designed. to provide ongoing insights into the structure's performance. This collaboration marries industry expertise with academic research.

The SHM system covers a 97.28-metre span of SUKE, from KM7.47 to KM7.27 South Bound. Periodic sensors are installed at six-month intervals over a fouryear period, enabling consistent data collection and analysis of the bridge's behaviour over time. This data will be crucial in setting appropriate threshold values for future monitoring and maintenance decisions.

STAKEHOLDERS IMPACTED

Road Users



Employees



External Providers



RELATED MATERIAL MATTERS





ROAD USER WELL-BEING







Manufactured



Intellectual



Social and Relationship





The SHM system enables continuous data collection and analysis to monitor structural performance, supporting informed maintenance decisions and enhancing long-term infrastructure resilience.

Advancing Road Safety and User Well-being

The Impact

Impact 1: Enhanced Safety

The implementation of our advanced monitoring system aims to enhance SUKE's safety profile. This approach is designed to facilitate early detection of potential structural issues, allowing for timely interventions. The system has the potential to contribute to a safer travel experience for expressway users by supporting more informed maintenance and safety practices.

Impact 2: Resource Efficiency

Our maintenance strategies incorporate data-driven decision-making processes. This method enhances resource allocation efficiency and enables targeted, cost-effective maintenance and repair interventions. We strive to reduce disruptions to expressway operations, working towards a smoother experience for SUKE users.

Impact 3: Extended Infrastructure Lifespan

By gaining comprehensive insights into the structure's behaviour over time, we can implement preventative measures that effectively mitigate wear and tear, potentially extending the expressway's serviceable life.

Impact 4: Knowledge Transfer

The partnership with UTM has fostered the development of local expertise in innovative infrastructure management. This collaboration enhances our current project capabilities and contributes to building a skilled workforce prepared to manage complex infrastructure projects across Malaysia.

At the conclusion of the four-year contract, UTM will establish the necessary threshold and triggering values based on the collected data. This will form the foundation for SUKE's long-term monitoring and maintenance strategies, ensuring its continued safety and efficiency as a vital component of Malaysia's transportation network.



EN. ZAKARIA SHAFFIEHead of Subsidiary, SUKE



Advancing Road Safety and User Well-being

IMPACT STORY 4:

ESTABLISHING RAINFALL THRESHOLD MODEL FOR SLOPE MONITORING ALONG SUKE

he SUKE highway traverses challenging terrain that makes it susceptible to landslides. With a history of minor landslides in its vicinity and evolving climate dynamics, the highway's vulnerability requires proactive monitoring and mitigation measures.

Rainfall Threshold Model for Slope Monitoring Along SUKE

In 2024, we initiated a comprehensive assessment project: "Establishment of Rainfall Threshold Model for Slope Stability in SUKE" to develop a rainfall threshold model for the slopes along SUKE. The first step involved creating a Landslide Hazard Map ("LHM") to identify potential risk areas where landslides could occur.

To support this, we utilised Light Detection and Ranging ("LIDAR") technology, which captured detailed land surface measurements, including critical elevation data. This information was instrumental in pinpointing potential areas at risk of landslides along the expressway.

Based on the LHM, we developed a rainfall threshold model to form the basis of a new slope monitoring system. As part of this system, a rain gauge was installed along SUKE to record rainfall data. If the recorded rainfall exceeds the established threshold, the SUKE operations team will be alerted, enabling proactive slope management and safety interventions.

STAKEHOLDERS IMPACTED













RELATED MATERIAL MATTERS









CAPITALS IMPACTED















With innovative technologies and data-driven systems, PROLINTAS proactively addresses climate-related slope risks along SUKE, reinforcing infrastructure safety and sustainability.

Advancing Road Safety and User Well-being

The Impact

The Impact 1: Safety and Risk Reduction

The system enhances safety for both SUKE road users and nearby communities vulnerable to landslides. By providing early warnings, it helps reduce the risk of loss of life, property damage and disruptions, strengthening overall community protection.

The Impact 2: Climate Adaptation

The monitoring system helps communities adapt to climate change by providing real time data on rainfall patterns, which are becoming more unpredictable. This helps manage the impact of extreme weather events of infrastructure and local environments

The real-time monitoring of the slopes provides early warning of potential landslide risks. This data-driven method enhances our ability to implement targeted preventive measures, contributing to improved highway safety in challenging terrains.



IR. NOR AZRA AB WAHAB

Head of Slope and Drainage Department



Advancing Road Safety and User Well-being

EMERGENCY PREPAREDNESS AND RESPONSE

IMPACT STORY 5: REDEFINING ROAD SAFETY LEADERSHIP

the increasing complexity of road safety challenges and emergencies demanded increased investment and attention to frontline workers' training. We recognised that traditional methods were no longer sufficient to equip Auxiliary Police and Patrolmen with the skills to manage modern traffic environments effectively. There was a need to enhance rapid response capabilities, professional conduct and safety protocols to protect personnel and the public.

The Initiative: Vigilance on the Frontline

Each year, we invest in enhancing the skills of our frontliners, including Auxiliary Police and Patrolmen, by equipping them with the latest technology and methods for effective road safety management and emergency response.

> One key initiative is the Safe Vehicle Handling Training, which emphasises the development of rapid response capabilities, the maintenance of a professional demeanour and the assurance of safety for both personnel and public interests safety.

During the reporting period, participants engaged in four comprehensive training sessions, each lasting two days.

PROLINTAS Auxiliary Police officer engage with road users to ensure safety and provide assistance during an emergency situation.

STAKEHOLDERS IMPACTED













RELATED MATERIAL MATTERS

ROAD USER WELL-BEING









CAPITALS IMPACTED

Manufactured



Intellectual



Social and Relationship







CHAPTER 1: BASIS OF OUR REPORT CHAPTER 2:
OUR JOURNEY AND

CHAPTER 3: OUR GUIDING VOICES CHAPTER 4: OUR LEADERSHIP CHAPTER 5: OUR SUSTAINABILITY APPROACH CHAPTER 6: DRIVING SUSTAINABLE VALUES PROLINTAS
SUSTAINABILITY REPORT

LIS BANTUAL



The Impact

This programme has enhanced the skills of our frontliners, improving their ability to manage road safety and respond to emergencies. Through the Safe Vehicle Handling Training, participants have developed rapid response capabilities and professional skills, supporting safer traffic environments.



As a PROLINTAS Auxiliary Police officer, I have undergone rigorous training in **rapid**

response and safe vehicle handling. The

training we received
is not just about
ticking boxes. It is about
ensuring every journey on
our highways is as secure as
possible. For me, maintaining
high standards is not just
part of the job - it is a personal
commitment to the well-being of
every individual on our roads.

EN. NURFIZRUL AZMAR AZMANPROLINTAS Auxiliary Police Officer, SILK

Auxiliary Police and Patrolmen underwent the Safe Vehicle Handling Training, enhancing rapid response capabilities and strengthening road safety management along the highway.

Advancing Road Safety and User Well-being

ROAD AWARENESS AND ENGAGEMENT

IMPACT STORY 6:

ROAD SAFETY ADVOCACY FOR HIGHWAY USERS AND COMMUNITIES

he rising number of traffic incidents became a pressing concern, highlighting the urgent need for innovative solutions to enhance road safety.

In response, PROLINTAS and the Malaysian Institute of Road Safety Research ("MIROS") forged a strategic partnership, combining strengths to address this challenge. This collaboration sought to elevate road safety education and practices by integrating innovative technology with targeted public awareness campaigns. The focus was on empowering traffic personnel and promoting safer driving behaviour, instilling a culture of safety that benefited road users and strengthened community connections.

Initiative 1: Motorcycle Collision Alert System Upscaling Version ("MCAS 2.0")

In 2023, the initial MCAS 1.0 prototype underwent a pilot study, which provided valuable insights. Based on this feedback (MCAS 1.0), the MCAS 2.0 version incorporated enhancements to better serve its purpose of providing early warnings to motorcyclists about potential collisions.

The initiative proposed installing the MCAS 2.0 on selected PROLINTAS dispatch's motorcycles, which would allow for practical evaluation in real-world conditions. It also sought to gather insights into the system's effectiveness and practicality.

Over a five-month period, participants covered an impressive average of 5,116.0 km each, providing a robust dataset for analysis. The system's functionality rate of 90.0% over 353.0 hours of active use highlighted its reliability in a variety of riding conditions.

STAKEHOLDERS IMPACTED









External Providers



Communities







RELATED MATERIAL MATTERS



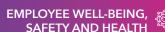


ROAD USER WELL-BEING



























Advancing Road Safety and User Well-being

The Impact



Collision Avoidance

66.0% of participants reported that MCAS 2.0 helped them avoid collisions, highlighting its effectiveness in critical situations.



Enhanced Situational Awareness

All participants unanimously confirmed that the system improved their ability to maintain situational awareness, which is essential for preventing accidents.



Safe Distance Estimation

75.0% of riders noted that MCAS 2.0 enhanced their ability to gauge safe distances, contributing to more prudent riding practices.



Braking Assistance

All participants unanimously acknowledged the system's effectiveness in assisting with safe braking, potentially reducing the risk of rear-end collisions.



Overall Riding Behaviour

All participants reported improvements in their overall riding experience, suggesting that MCAS 2.0 provides immediate safety benefits and encourages long-term positive changes in riding habits.



Advancing Road Safety and User Well-being

Initiative 2: Highway Users Safety Carnival at Guthrie Corridor Expressway ("GCE")

Our initiative aimed to positively influence road users and local communities by encouraging safer practices and responsible conduct.

During the school holidays, we hosted a "Highway Users Safety Carnival" at Elmina RSA, GCE. This event featured engaging and educational activities designed to enhance safety knowledge and practices.

Through this initiative, we reaffirmed our commitment to a safer road environment, grounded in education and community engagement.

Sin ha pa and ir to lea

Safe Bicycle Riding Simulation: The public had the opportunity to participate in a realistic and interactive experience to learn and practice safer cycling skills.

Child Left in the Car Awareness:

Materials were provided to explain the risks of heatstroke and child left-behind cases.



Highlights

Safe Driving Simulation and Road Hazard Identification: Participants engaged in driving simulations and hazard identification training, gaining exposure to accident risks and developing high-level driving competencies.



Educational materials were distributed to detail the correct selection and usage of child car seats, complemented by handson training for proper installation.

35 (Selamat Sampai Sekolah) Programme: Children received road safety education, learning how to cross streets safely and instilling a culture of road safety awareness

within families and the community.

Advancing Road Safety and User Well-being

The Impact

Road users and members of the public who attended the carnival received briefings on safe practices and road safety awareness. Through interactive activities, participants gained practical skills, inculcating a stronger culture of safety and shared responsibility.



Our multi-faceted approach to road safety is showing promising results, from the implementation of MCAS 2.0 to our community education

These initiatives
demonstrate our
ongoing commitment to
enhancing highway safety,
combining technological

programmes.

advancements with grassroots engagement. We are optimistic that our continued efforts will contribute to reducing accidents and gradually cultivating a stronger safety culture among Malaysian road users and communities.

EN. RUSHDI HASAM MUDI

Head of Quality, Environment, Safety and Health Department

Advancing Road Safety and User Well-being





Governance, People and Industrial Development

THE SIGNIFICANCE

eaffirming our commitment to strengthening sustainability across our operations, we are redefining the role of a highway operator in shaping a sustainable future. Our efforts focus on good governance practices, people and industrial development.

Our governance framework goes beyond compliance, stressing on transparency and ethical decision-making at all levels. This structure allows us to navigate complex regulations while adapting to evolving sustainability standards.

The human element is crucial to our sustainability efforts, as true change originates from within. We invest in our workforce through comprehensive training and development programmes that cultivate progressive thought processes and environmental stewardship.

Additionally, we engage with communities along our highways to ensure our initiatives benefit the broader society.

In industrial development, we actively engage in various programmes, alongside other leading corporations, in establishing new standards and best practices for sustainable highway management. The Group balances progress with environmental preservation by embracing green technologies and sustainable practices. These elements are integral to our operations and extend throughout our supply chain, promoting sustainability among suppliers and contractors.

RELATED MATERIAL MATTERS

ETHICS AND INTEGRITY

INNOVATION AND TECHNOLOGY

DIVERSITY EQUITY AND INCLUSIVITY

EMPLOYEE WELL-BEING, SAFETY AND HEALTH

CAPACITY, CAPABILITY,
COMPETENCY AND CULTURE

IMPACT ON COMMUNITIES

ECONOMIC CONTRIBUTION

STAKEHOLDERS IMPACTED

- EMPLOYEES
- EXTERNAL PROVIDERS
- COMMUNITIES
- REGULATORS AND AUTHORITIES
- SHAREHOLDERS, INVESTORS
 AND FINANCIAL INSTITUTIONS



Governance, People and Industrial Development

APPROACH

Capacity Building

We are expanding our business and operational capabilities through targeted investments in resources, stimulating growth across economic and ESG dimensions.

Capability and Competency Building

We are cultivating expertise that equips our workforce with specialised skills for sustainable highway management, meeting current industry standards while anticipating future challenges.

Culture Building

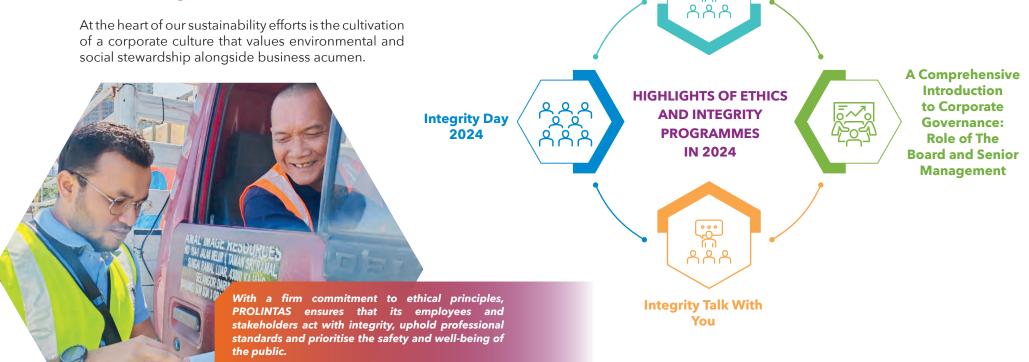
OUR PERFORMANCE

Our Governance

The Group evaluated the success of its governance initiatives using key metrics, including ethics and anti-corruption training completion rates, corruption incident reports and comprehensive risk assessments. These efforts highlighted its dedication to promoting an ethical workplace and embedding a culture of integrity throughout the organisation.

Vendor Integrity

Programme



Governance, People and Industrial Development

Total number and percentage of companies assessed for risks related to corruption

Number of companies assessed for corruption-related risks as at the end of the reporting period

companies

Percentage of Completion for the Assessment



Total number and percentage of Board of Directors who have received communication regarding anti-corruption awareness campaigns and training

Number of Board of Directors who have been communicated on anticorruption awareness campaign and training

2022: 6

Number of anti-corruption awareness campaign and training for Board of Directors at the end of the reporting period

Percentage of completion for Board of Directors who have been communicated on anti-corruption awareness campaigns and training

> 2023: 100% 2022: 83%

Number of anti-corruption awareness campaigns and training for employees at the end of the reporting period

Total number and percentage of employees who have received communication regarding the anti-corruption awareness campaign and training

Number of employees

2022: 765

Percentage of employees who have been communicated on anti-corruption awareness campaigns and training

2022: 100%

Notes:

The '-' denotes no data is available for prior years, as the year mentioned is the first year we are reporting on a new metric.

The "*" Whistleblowing case reported in 2023 was an allegation with false proof. Hence the case was classified as false allegation.

Number of employees who have received communication regarding the anti-corruption awareness campaign and training



2023: 759 2022: 765

By Category

Senior Management

2023: 50 2022: -

Middle Management

2023: 177 2022: -

Operations & Support

2023: 532

Whistleblowing Programme Effectiveness

Number of whistleblowing reports

> 2023: *1 2022: 0

Percentage of whisteblowing reports resolved at the end of the reporting period

> 2023: 100% 2022: 0

Governance, People and Industrial Development

OUR PEOPLE AND INDUSTRIAL DEVELOPMENT

Targeted training initiatives unlocked our workforce's potential, championing a culture of innovation that propelled organisational growth and sharpened our competitive edge.

Highlights of training programmes in 2024:

- PROLINTAS 2024 Teambuilding S.T.A.R **Beyond Limit**
- Continuous Improvement (Kaizen) for **Highway Operations Excellence**
- Greenhouse Gases ("GHG") Assessment Programme
- Certified Professional Environmental Officer **Environmental Impact Assessment Projects**
- Conditioning Air Installation and **Maintenance Training**
- **Certified Technician Certification Programme**



Average Training Hours by Gender





Average Training Hours by Employee Category

Senior Management 2023: 37.4 2022: 47.4

Middle Management

Operations & Support 2022: 47.5 2022: 47.5

Protégé Programme

Total no of participants

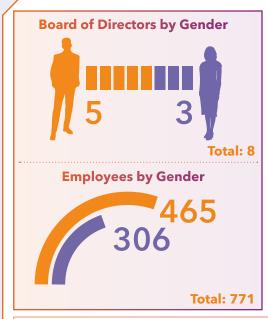


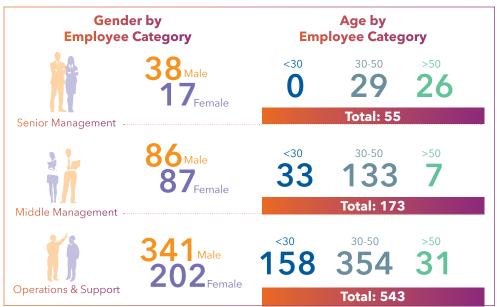
2023: 30 2022: 34

Total Investments

2023: RM617,280 2022: RM682,000

Governance, People and Industrial Development





Male to Female Ratio of **Mean Salary by Employee Category**

1.00:0.70 Senior Management

1.00:0.83 Middle Management

1.00:0.98 **Operations & Support**

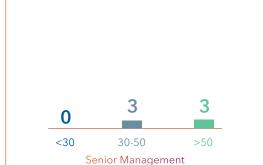
Male to Female Ratio of Mean Bonus by Employee Category

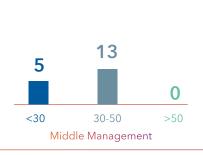
1.00:0.57Senior Management

1.00:0.80Middle Management

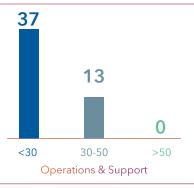
1.00:1.00 **Operations & Support**

Employee Turnover by Gender



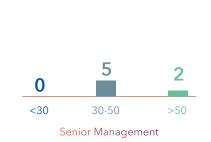


New Employee Hires by Age

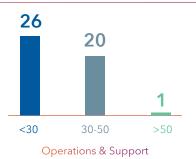
















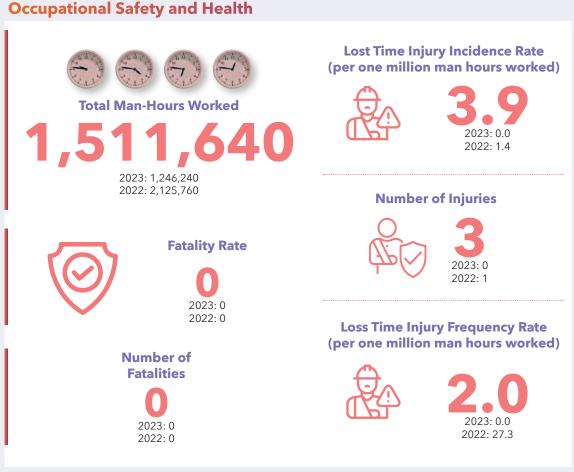
Strategic Focus Area 2: Governance, People and Industrial Development

Complementing our commitment to diversity and talent development, we prioritised the well-being of our workforce through a comprehensive occupational safety and health strategy.

Our steadfast focus on occupational safety and health nurtured an environment where our workforce operated securely and productively.

This foundation not only protected our team but also enhanced their capacity, capability, and competency, driving sustained organisational performance.

Occupational Safety and Health Coordinator Programme HIGHLIGHTS OF OCCUPATIONAL SAFETY AND HEALTH PROGRAMMES IN 2024 Basic **Expressway Occupational Occupational** First Aider **Safety Passport Training Authorised Entrant and Standby Person for Confined Space**



Notes:

- *Lost time incidence rate per 1,000 workers, based on DOSH Malaysia JKKP8
- *Lost time injury frequency rate per 1,000,000 workers, based on DOSH Malaysia JKKP8

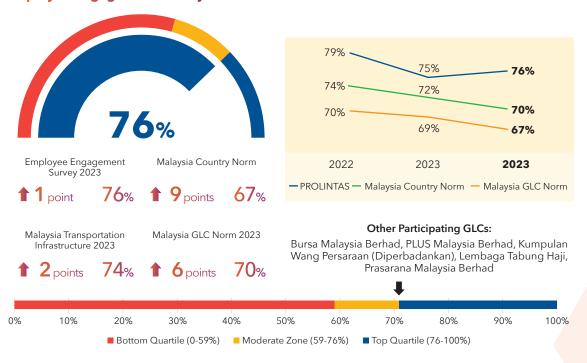
Governance, People and Industrial Development

Highlights of Employee Well-being Programmes in 2024



that inspired healthy habits and breeding a culture of care within our organisation.

Employee Engagement Survey Score



To validate the impact of our employee-centric initiatives, we conducted an Employee Engagement Score survey. The results revealed an encouraging score of **76%**, positioning us favourably within the Malaysia Transportation Infrastructure sector and surpassing both the Malaysia Country Norm and Malaysia Government-Linked Companies ("GLC") Norm. This metric underscored our commitment to nurturing a productive and satisfying work environment while also highlighting areas for continued enhancement.

Governance, People and Industrial Development

While strengthening our internal capabilities, we actively endeavoured to enhance the socio-economic landscape along our highway corridors.

This dual emphasis served as the cornerstone of our corporate responsibility, expanding our impact beyond operational excellence to embrace the wider communities we served.

By involving employees in community initiatives, we cultivated a culture of shared responsibility and purpose, instilling a spirit of togetherness and commitment to giving back among our team members.

Terrarium Workshop
Challenge with
The Faculty of
Agriculture,
University Putra
Malaysia ("UPM")

HIGHLIGHTS OF CORPORATE SOCIAL PROGRAMMES IN 2024

Back To School 2024

"Giving Back to the Nation...Learn from the Pros" A Programme by Yayasan Kebajikan Atlet Kebangsaan ("YAKEB")

PROLINTAS, in collaboration with the Faculty of Agriculture, Universiti Putra Malaysia, proudly presented the Terrarium Workshop Challenge, igniting creativity and promoting environmental stewardship through an immersive, hands-on experience in sustainable practices.

Educational
Proposal Programme
in Collaboration with
Yayasan Pelajaran
Malaysia ("YPM")

KRT BLOK

I NILAM AM

Outreach Programme for Chow Kit's Underprivileged and Urban Poor Communities

Our CSR Outreach Programme for Chow Kit's underprivileged and urban poor communities reflected our commitment to social responsibility, providing vital support and resources to improve the quality of life and create lasting positive impact for those in need.

PROLINTAS CSR Back To School 2024 initiative ignited hope and ambition, equipping students with essential school supplies to inspire success and pave the way for a brighter future.

Governance, People and Industrial Development

CORPORATE SOCIAL RESPONSIBILITY - FOCUSED INVESTMENTS (2022 - 2024)

ADVANCING THE COMMUNITY

Expenditure (RM)

152,250

2023: 152,000 2022: 177,370

481,620 19,102

Beneficiaries

8,350

2023: 9,052 2022: 1,700 **Employees Involved**

139

2023: 141 2022: 180

460

PROTECTING THE ENVIRONMENT



Expenditure (RM)

30,000

2023: 25,000 2022: - 55,000

Beneficiaries

150

2023: 480 2022: - 630

EMPOWERING EDUCATION



Expenditure (RM)

87,400

2023: 60,840 2022: 60,700

208,940

Beneficiaries

2,000

2023: 1,250 2022: 250

3,500

Employees Involved

20 2023: 4 2022: 15

39

Employees Involved

10

2023: 65 2022: - **75**

PROLINTAS celebrated the spirit of unity and generosity through our CSR Chinese New Year 2024 initiative, igniting festive joy and sharing prosperity by uplifting communities and extending a hand of support to those in need during this season.

Our CSR programmes during Chinese New Year and Deepavali involved contributing to charitable causes, bridging cultural unity and providing aid to underprivileged communities during these festive seasons.

Our strategic investment in Capacity, Capability, Competency and Culture development yielded dividends beyond organisational excellence.

This approach enhanced our internal operations and positioned us as a driving force in the broader economic landscape.

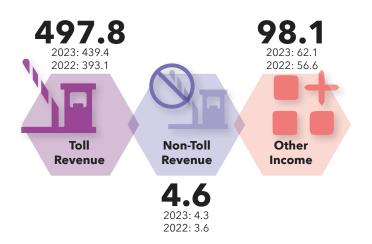
By cultivating our human talent, we created substantial economic value, as evidenced by our financial performance. The synergy between workforce development and economic contribution underscored our role as a catalyst for growth, not only within our organisation but across the broader economic landscape we serve.

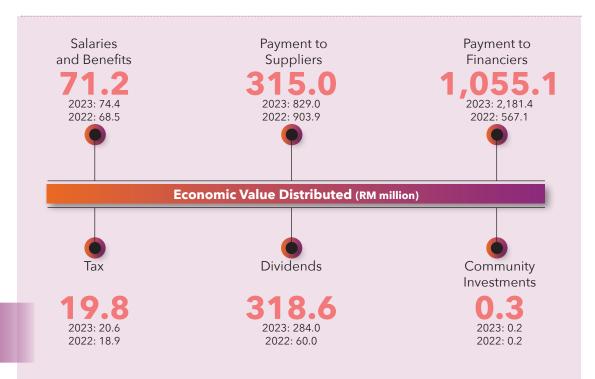
This strategic focus on human capital and industrial development contributed to our success. It demonstrated the intrinsic link between investing in people and achieving tangible economic outcomes.



Strategic Focus Area 2: Governance, People and Industrial Development

Economic Value Generated (RM million)





STAKEHOLDERS IMPACTED



Road Users



Employees

RELATED MATERIAL MATTERS



INNOVATION AND TECHNOLOGY



ROAD USER WELL-BEING



CAPACITY, CAPABILITY COMPETENCY AND CULTURE

CAPITALS IMPACTED



Financial



Manufactured



Intellectual



Social and Relationship

Strategic Focus Area 2:

Governance, People and Industrial Development

CAPACITY BUILDING

IMPACT STORY 1:

ENGINEERING EXCELLENCE ON RECTIFICATION TO DAMAGE POST-TENSION TENDON CABLES

ost-tensioned concrete structures are essential in modern construction, and they rely heavily on the integrity of their tendon cables. Damage to these cables, caused by factors such as corrosion or fatigue, presents significant risks to the structural stability and safety of bridges.

Current assessment techniques often lack precision or require invasive procedures, leading to inconsistent mitigation approaches across projects. The consequences of undetected tendon cable damage can be severe, resulting in structural failures and costly repairs.

Therefore, comprehensive and reliable methods are critical for assessing the condition of these cables and implementing effective mitigation strategies. These methods should prioritise accuracy, efficiency and safety to ensure the longterm durability of post-tensioned structures.



The damage to the post-tension tendon cables was identified during routine inspections of the AKLEH Highway.

This finding raised concerns about the bridge's structural integrity, highlighting the need for immediate attention and further evaluation to ensure the safety of the road user.

Routine highway inspections underscore PROLINTAS' dedication to long-term infrastructure resilience, operational efficiency and environmental stewardship.

Strategic Focus Area 2: Governance, People and Industrial Development

The Initiative: Strengthened Infrastructure Integrity

Conducted visual inspections to evaluate the severity and extent of the damage, followed by a review of as-built drawings to gather necessary details for analysis.



Assessment

Detailed Condition Assessment



A detailed condition assessment was performed to capture the as-is condition and severity of fire damage and ensure that all defects were documented. damage resulted from a fire attributed by a trespasser.
Consequently, compressive strength and carbonation tests were conducted to evaluate the integrity of the concrete and assess the impact of fire damage.

The assessment

revealed that the

Step 3

Material Testing Monitoring Implementation



To ensure safety during repairs, a 24-hour deflection monitoring was implemented alongside advanced techniques using unmanned aerial vehicles and laser scanning. These techniques provide real-time data on the bridge's condition and allow for the observation of any movement.

The findings provided a systematic approach to tendon replacement, which involved cutting out damaged tendons, installing new ones and applying grouting to ensure the bridge could safely carry its load.

Step 5

Tendon Replacement Process Mitigation Measures



In response to the incident, physical barriers, including brick walls, were constructed to prevent unauthorised access and protect the structure from trespassers. This effectively addressed the external factors that contributed to the damage.

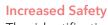
After completing the repairs and implementing mitigation strategies, final inspections were conducted to ensure that all repairs met safety standards and confirmed the bridge's capability to safely carry its load, thereby ensuring its long-term durability.



Inspections and Reporting

Governance, People and Industrial Development

The Impact



The identification and repair of damage to post-tension tendon cables enhanced the bridge's structural integrity, reducing the risk of accidents and ensuring safer travel for road users.

\mathcal{D}

Reliable Infrastructure

The systematic approach to tendon replacement restored the bridge's load-bearing capacity, ensuring that it could safely accommodate traffic and provide a reliable route for commuters.



Real-Time Monitoring

The implementation of advanced monitoring techniques allowed for continuous observation of the bridge's condition, enabling prompt responses to any structural changes and further enhancing user safety.

PROLINTAS Clinched the Top Honour at the International Engineering Conference for Innovative Infrastructure Solution

PROLINTAS was recognised for its engineering excellence at the 13th International Conference On Geotechnical Engineering In Tropical Region And Third International Conference On Highway and Transport Engineering ("GEOCHITRA") conference and clinched the Best Paper Presented Award for its groundbreaking study on post-tension tendon cable damage assessment and mitigation. This prestigious recognition, earned among 49 papers presented by participants from eight countries, including Japan, Nigeria, Bangladesh, India, Singapore, Indonesia and Egypt, underscores our commitment to pioneering infrastructure solutions and knowledge sharing in the geotechnical and transportation engineering domains.



TS. AHMAD SHAMSUL ARIZAM MOHAMMAD

Head of Bridge and Structure Department



Governance, People and Industrial Development

CAPABILITY AND COMPETENCY BUILDING

IMPACT STORY 2:

he intersection of sustainability initiatives and employees' knowledge enhancement is a pivotal lever for businesses aiming to advance their sustainability agendas while cultivating a more competent and

In highway infrastructure, the maintenance and rehabilitation phases are crucial for ensuring long-term serviceability and safety. Equipping technical staff with the right knowledge and skills is essential for developing a workforce capable of addressing the complexities of modern infrastructure challenges.

EMPOWERMENT AND INNOVATION IN INFRASTRUCTURE

resilient workforce.

The Initiative: Technical Conference 2024 - Collaborate and Create a **Stronger PROLINTAS Team**

The 2024 Technical Conference emphasised the significance of professional and technical competencies through upskilling initiatives that transformed and enhanced value creation. By hosting knowledge-sharing sessions led by experienced professionals, the conference elevated engineering personnel's competencies, ensuring they were well-versed in the latest processes and best practices for effective infrastructure management.

STAKEHOLDERS IMPACTED

Road Users



Employees



External Providers



RELATED MATERIAL MATTERS





ROAD USER WELL-BEING



CAPACITY, CAPABILITY, **COMPETENCY AND CULTURE**



Manufactured



Intellectual



Social and Relationship





Governance, People and Industrial Development

The Impact

Understanding Vibration, Frequency and Resonance Effects on Bridge Integrity

Understanding vibration, frequency and resonance effects on bridge integrity enabled participants to gain valuable insights into predictive maintenance strategies that can help mitigate structural failures. The introduction of innovative monitoring techniques offered attendees with opportunities to refine their maintenance protocols, potentially reducing risks associated with infrastructure safety. As a result, participants were better positioned to explore cost-saving measures in their projects through improved resource allocation and proactive management practices.



Rainfall Threshold Model for Slope Stability

The introduction of this model equipped participants with essential methodologies for assessing geotechnical risks, enabling them to make informed decisions that enhance the safety and stability of infrastructure in vulnerable areas.



Route to Professional Engineer and Certified Inspector of Works

The emphasis on professional certifications highlighted the industry's importance of credentials, encouraging participants to pursue further qualifications that would enhance their professional standing and improve project outcomes.



Route to Professional Technologist ("Ts.") and Certified Technician ("Tc.")

Participants recognised the critical roles of technologists and technicians, leading to discussions on advocating for standardised training. This initiative aimed to improve collaboration and efficiency in project execution, benefiting the overall quality of infrastructure work.



IR. TS. NOOR HASLINDA HAMDAN

General Manager of Civil and Structure Engineering Division



PROLINTAS' Civil & Structure Technical Conference brought together engineers, thought leaders and innovators to discuss key advancements, challenges and solutions shaping the future of civil and structural engineering.

Governance, People and Industrial Development

CULTURE BUILDING

IMPACT STORY 3:

SUSTAINABILITY DRIVING CORPORATE AND CULTURE EXCELLENCE

he challenge of integrating sustainability into organisational practices involves overcoming significant barriers, including resistance to change, lack of awareness and the need for alignment with corporate strategies.



The Sustainability League Championship was not just another corporate initiative. It reshaped how we view our role in **creating a sustainable future**. I have gained a deeper understanding of how my daily work contributes to PROLINTAS' broader sustainability goals, making me feel more connected to our mission than before.

NORLIZA RAMLI

Sustainability League 2024 Championship Winner (Individual Category)

Cultivating a culture where sustainability is not only understood but also celebrated and practised at every level requires a concerted effort. The Sustainability Culture at PROLINTAS is a vital tool in this endeavour. It promotes teamwork and collaboration while deepening stakeholders' understanding of sustainability principles. By instilling a sense of ownership and commitment, this initiative encourages individuals to actively contribute to long-term sustainability goals, embedding these values into the organisation's DNA.

In 2024, PROLINTAS embarked on a journey to embed sustainability into its corporate culture. The following initiatives were implemented in 2024, each yielding significant impacts:

Initiative 1: Sustainability League Championship

This annual event is designed to celebrate achievements and promote sustainability values across the Group through competitive engagement.

The Impact

Achieved 95.0% employee participation rate.

Increased overall sustainability quiz scores by

22.0%

(from 58.0% pre-assessment to 80.0% post-campaign).

STAKEHOLDERS IMPACTED

All Stakeholders

RELATED MATERIAL MATTERS

All Material Matters

CAPITALS IMPACTED

Financial



Manufactured



Intellectual



Human

Natural



Social and Relationship





Strategic Focus Area 2:

Governance, People and Industrial Development

Initiative 2: Departmental Terrarium Challenge

Each department in PROLINTAS designed what they perceived as ideal highway ecosystems to showcase how PROLINTAS highways can coexist with nature.

The Impact

Enabled **cross-departmental** collaboration and innovation.



The **Civil and Structure Department won recognition** for the best ideas and creativity.



Enhanced employee **understanding of environmental sustainability** in the context of highway management.



CHAPTER 10: STRATEGIC FOCUS AREA 4: SUSTAINABLE SUPPLY CHAIN CHAPTER 11: STRATEGIC FOCUS AREA 5: RESPONSIBLE RESOURCE MANAGEMENT CHAPTER 12: OUR PERFORMANCE INDICATORS AND ASSURANCE

Strategic Focus Area 2:
Governance, People and Industrial Development

Initiative 3: Health and Wellness Programmes

Comprehensive health initiatives, including physical check-ups and mindfulness workshops were organised for employees.

The Impact



Employees gained valuable insights into their **health status**.



Reinforced the connection between **personal well-being** and **corporate sustainability**.



Emphasised the **holistic nature** of sustainability, extending beyond environmental concerns.

Initiative 4: Launch of Sustainability Report 2024

Recognition of employee contributions to sustainability initiatives and raising awareness of PROLINTAS' sustainability material matters, risks and opportunities.

The Impact



Increased employee awareness of the Group's sustainability performance and goals.



Encouraged a **sense of pride and ownership** in sustainability achievements.

Initiative 5: A.C.E. Principles Quiz Series

Pop quizzes were conducted based on the A.C.E. Principles: Accelerating Advancement (Economic and Governance), Converging Communities (Social) and Elevating Lives (Environment).

The Impact



Deepened employee understanding of PROLINTAS' sustainability framework.



Encouraged **continuous learning** and engagement with sustainability concepts.



Strategic Focus Area 2:

Governance, People and Industrial Development

Initiative 6: Stakeholder Engagement Survey 2024

The Stakeholder Engagement Survey was expanded with roadshows across six highway alignments, which attracted road users and community members who resided within the vicinity.

The cumulative effect of these initiatives was a marked shift in PROLINTAS' corporate culture. By year's end, sustainability had become more than a corporate buzzword. It became a shared value, understood and embraced at all levels of the organisation. The success of these programmes laid a solid foundation for PROLINTAS' ongoing commitment to sustainable practices and stakeholder engagement.

The Impact

Increased survey participation by

117.0% (2,001 responses compared to 922 in the previous year).

Provided more comprehensive insights into stakeholder concerns and expectations.



Allowed for refinement of materiality focus areas and sustainability strategy.



We value our road users' opinions. PROLINTAS' Stakeholder Engagement Survey provided an opportunity to directly influence the development and quality of our highways based on user feedback.



Strategic Focus Area 2: Governance, People and Industrial Development





Strategic Focus Area 3:

Reducing Carbon Footprint

THE SIGNIFICANCE

perating with low carbon emissions is a key component of our Group's strategy for building sustainable infrastructure. This commitment goes beyond environmental responsibility and represents a fundamental shift in how we approach our role as infrastructure developers and operators.

Our low carbon pledge challenges us to evolve from traditional transit facilitators into stewards of sustainable mobility. This transformation is driving innovation across our operations, from the materials we use in road construction and maintenance to the energy solutions powering our service areas. By catalysing research and development in green infrastructure, such as carbon-adsorbing materials, we are positioning ourselves at the forefront of the transition to a low carbon economy.

This pragmatic initiative aligns with global environmental goals and offers tangible benefits for our business. By implementing more efficient and sustainable practices, we anticipate long-term cost savings and improved asset management.

In addition to these benefits, our commitment is likely to resonate with environmentally conscious investors and partners, and strengthen our bonds with local communities and stakeholders.

In our pursuit of a low carbon business, we are taking steps toward aligning effectively with global efforts. We aspire to work in concert with partners worldwide, contributing meaningfully to national and global emissions reduction targets. In doing so, we aim to set new benchmarks for sustainable infrastructure development and operations, paving the way for a greener, more resilient future in our industry.

RELATED MATERIAL MATTERS



ECONOMIC CONTRIBUTION

GHG AND CLIMATE ACTION

innovation and technology

SUSTAINABLE MATERIALS

CAPACITY, CAPABILITY, COMPETENCY AND CULTURE

IMPACTED STAKEHOLDERS

ALL STAKEHOLDERS



Strategic Focus Area 3: Reducing Carbon Footprint



reducing energy consumption, enhancing energy efficiency and spearheading a shift

towards renewable energy sources.

Strategic Focus Area 3:

Reducing Carbon Footprint



Carbon Reduction Strategy

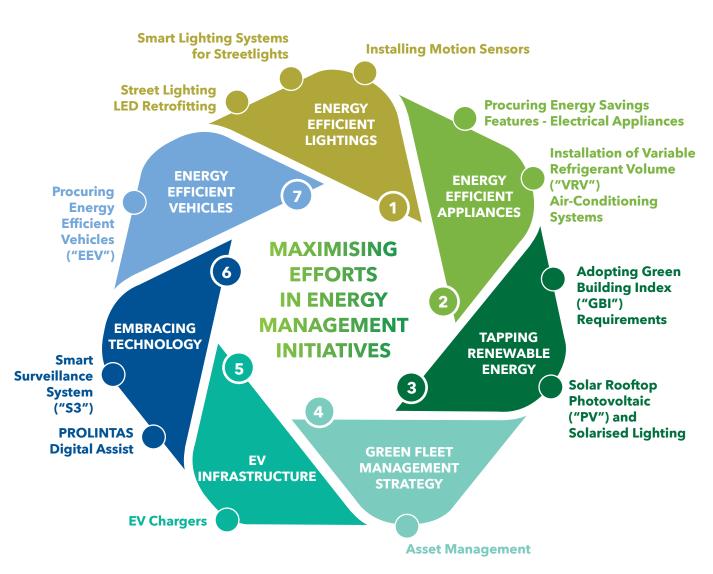
Our comprehensive analysis of GHG emissions guided our carbon reduction strategy.

Scope Two emissions, accounting for an average of 36.5% of our total GHG output over a five-year period, required focused due to the direct link to energy procurement and usage patterns.

Further examination revealed that a significant portion of our Scope Three emissions, 36.2% on a five-year average, originated from fuel and energy-related activities.

The combined impact of Scope Two and these specific Scope Three emissions constituted 72.8% of our overall GHG footprint, highlighting the importance of a robust Energy Management strategy.

Energy Management Initiatives



Strategic Focus Area 3: Reducing Carbon Footprint

This strategy is integral to our carbon reduction initiative and our commitment to achieving low-carbon business operations. It includes three key areas:

Reducing overall energy consumption.



By implementing these targeted measures, we strengthened our commitment to environmental stewardship and contributed to the global effort to address climate change.

Carbon Footprint and Intensity Analysis (2019-2024) 600,000 3,500 480,225.6 3,080.2 3.000 500,000 GHG Emissions (tCO₂e) 2,500 400.000 213,530.6 2,000 1,7,84.4 177,750.2 300.000 1,626,1 1,500 200,000 1,000 34.741.3 100.000 496.7 39,892.3 **42,286.6** 500 167.8 176.7 2019 2020 2021 2022 2023 2024 ■ GHG Emissions (tco₂e) GHG Intensity (tco₂e/Mil Traffic)

As advised by Malaysian Green Technology and Climate Change Corporation ("MGTC") on 1 February 2024, GHG calculations for 2024 onwards follow Version 2, which incorporates the updated emission factors, including the Grid Emission (2019-2021), Factor and energy-related activities emission factors, and Global Warming Potential ("GWP") based on Intergovernmental Panel on Climate Change Sixth Assessment Report ("AR6").

GHG calculations for 2022-2023 were based on Version 1.



Our Renewable Energy Strategy

We are adopting solar photovoltaic ("PV") systems to harness the power of the sun and generate clean, renewable energy. These systems are primarily installed on the roofs of the toll plazas. The following section delineates the current status and future plans for our solar rooftop projects, extending until 2030.

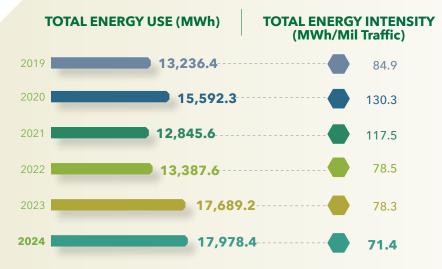
Highways	Completed PV	Planned PV	System Size (kWp)	Estimated Solar Generation (kWh)
PROLINTAS GCE	1	2	662.7	774,033.6
APROLINTAS LKSA	1	1	459.9	537,174.9
APROLINTAS SILK	1	3	529.7	618,666.2
PROLINTAS DASH	3	-	286.7	334,842.2
PROLINTAS SUKE	3	-	81.5	95,145.3
Total	9	6	2,020.5	2,359,862.2

Notes:

- 1. The planned PV system capacity is based on the specified limit of the Tenaga Nasional Berhad ("TNB") meter fuse rating. However, the actual capacity may vary depending on the final design.
- 2. Annual Solar Generation (kWh) = System Capacity (kWp) × 3.2 hours/day × 365 days/year. This is based on the assumption of an average 3.2 hours of peak sun hours per day throughout the year.

Strategic Focus Area 3:

Reducing Carbon Footprint



¹ The conversion for Energy Use, which comprises purchased electricity and fuel consumption, is based on NEB 2016 Conversion Coefficients and Equivalence.

KEY HIGHLIGHTS

16.0% Reduction in Energy Intensity based on the 2019 baseline.

Rooftop and Carport Solar

In 2024, our Energy Intensity continued to exhibit a downward trajectory, reflecting a decrease of **8.9%** from 2023.

This decline can be attributed to the effective implementation of our energy reduction initiatives.

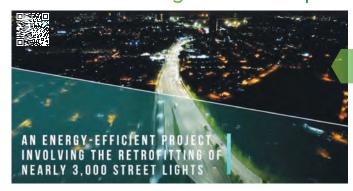
Panels at Sungai Balak Toll Plaza with 211.7 kWp. By integrating solar energy into our infrastructure, PROLINTAS is driving progress towards reducing carbon footprint, promoting renewable energy **Solar LED Lighting** solutions that help mitigate **Solar LED for** climate change. for Compound and **Pedestrian HIGHLIGHTS Bollard Lighting at** Bridge, SILK. all SILK's toll plazas. **OF ENERGY MANAGEMENT PROGRAMMES IN 2024 Solar LED Street** Solar LED **Lighting at Jalan Reko Lighting at Bus** Interchange, SILK. Stop, SILK.

Strategic Focus Area 3: **Reducing Carbon Footprint**

Progressing Climate Strategy and Adapting to IFRS S2 Reporting Standards

Our TCFD journey has progressed with the establishment of governance structures and ongoing capacity building for climate-related risk management. We are actively prioritising GHG emissions reduction and developing a comprehensive climate strategy to enhance our sustainability efforts.

As we continue to align with evolving global standards, we take note of the transition from the TCFD framework to the International Financial Reporting Standards Sustainability Disclosure Standard S2: Climate-related Disclosures ("IFRS S2"), ensuring that our reporting practices remain robust, transparent and in step with international best practices.



PRIORITIES FOR FY2024 TO FY2027 TCFD PILLARS WHERE WE ARE TODAY



GOVERNANCE

Disclose the organisation's governance around climate-related risks and opportunities.

Board Oversight

Periodic discussions by the Board on climate-related

Management Oversight

Review of climate risks as part of the Group's Enterprise Risk Management.

Working Committees

Discussions and execution of climate-related matters.

Awareness and Training Programmes For all employees.

- Continue to strengthen and improve climate risk governance.
- Continue enhancing internal capabilities, competencies and culture.
- Build a cohesive approach to tackle climate-related challenges.
- Align understanding of climate-related risks and opportunities across the Group.



STRATEGY

Disclose the actual and potential impacts of climate-related risks on the the Group's operations, strategy and financial planning where such information is material.

- Continuous capacity building.
- Prioritising GHG Emissions and Climate Action as material matters.
- Enhance Scope 1, 2 and 3 carbon emissions profiles and dashboards.
- Strengthen the Carbon Reduction Strategy.
- Establish short, medium and long-term climate targets.
- Assess physical and transition risks and opportunities using scenario analysis over the short, medium and long-term.



RISK MANAGEMENT

Disclose how the organisation identifies, assesses and manages climate-related risks.

- Climate risks are managed under the Group's Enterprise Risk Management
- Conduct physical risk assessments covering our significant asset locations.
- Conduct transition risk assessment based on policy, technology, market and reputation risk drivers.



METRICS AND TARGETS

Disclose the metrics and targets used to assess and manage relevant climate-related risks where such information is material.

- Disclosed carbon reduction efforts undertaken by PROLINTAS.
- Set short, medium and long-term carbon reduction targets.

STAKEHOLDERS IMPACTED



Road Users



Communities

RELATED MATERIAL MATTERS



GHG AND CLIMATE **ACTION**



INNOVATION AND TECHNOLOGY



CAPACITY, CAPABILITY, **COMPETENCY AND CULTURE**

CAPITALS IMPACTED



Financial



Manufactured



Intellectual



Social and Relationship



Natural

Strategic Focus Area 3: **Reducing Carbon Footprint**

CARBON REDUCTION STRATEGY

IMPACT STORY 1: A SUSTAINABLE ENERGY SOLUTION FOR **URBAN PARK AT LKSA**

rban Park's power infrastructure currently faces operational challenges related to its power supply cable. During peak hours, this cable operates at over 80.0% capacity, indicating a need for improved capacity management. The main issue stems from Urban Park's reliance on a long-distance power supply from the Alam Impian toll plaza, which is connected through a single common meter.

This arrangement, with its limited supply, affects the system's reliability and energy efficiency. The strain becomes more noticeable during high-demand periods in the event space, particularly on weekends and holidays. From an operational perspective, the current electrical system is at an increased risk of tripping at the main incoming plaza due to the load stress.

The Initiative: Powering Sustainability with Battery Energy Storage System ("BESS")

Urban Park has implemented a partial load-shedding strategy to address its power management challenges. This strategy integrates BESS and is supported by a solar photovoltaic system. This approach aims to reduce power consumption from primary sources during peak hours until demand decreases and more capacity becomes available.

The BESS serves multiple functions in Urban Park's energy strategy. Its primary role is to capture and store excess solar energy generated at the Alam Impian Toll Plaza.

These challenges highlight the need for a more adaptable energy management solution. Such a system would effectively manage peak loads while reducing wear and tear on the existing infrastructure. Additionally, the current setup presents an opportunity for improvement by potentially utilising excess solar energy generated at the Alam Impian toll plaza, which is currently exported to TNB grid.

During periods of peak demand, particularly on weekends when energy requirements typically reach their highest levels, this stored energy is strategically deployed. The system is especially crucial for powering critical infrastructure, such as the marguee tent during events, ensuring a more reliable energy supply during high-demand

periods.

Through this strategic energy management, Urban Park is optimising its overall power system, contributing to more sustainable operations and addressing its long-term energy needs.



The Impact 1: Cable Load Burden Reduction on Operations



The integrated BESS and solar photovoltaic solution have demonstrated significant improvements in Urban Park's power management.

During peak-hour events, the system effectively reduces the cable load burden by 30.0% to 40.0%. These events now operate on 100.0% renewable energy, the BESS at Urban Park, LKSA discharges for an average of three to four hours, depending on the marquee tent's specific load requirements, showcasing Urban Park's commitment to sustainable practices.

This capability ensures a consistent and reliable power supply throughout the duration of events.

The solar photovoltaic systems contribute to this efficiency by generating electricity during daylight hours. Excess energy is then stored in the BESS, creating a seamless energy cycle that supports continuous operations.

Strategic Focus Area 3:

Reducing Carbon Footprint

The Impact 2: Sustainable Energy Profile



By harnessing excess solar energy from the Alam Impian Toll Plaza, the BESS has enhanced Urban Park's renewable energy usage. This shift has reduced reliance on the power grid, contributing to a more sustainable energy profile.

The Impact 3: Operational Stability



The BESS has proven effective in managing peak loads, particularly during weekends and high-demand periods. By fully powering critical infrastructure like the marquee tent during these times, the system has helped alleviate strain on the existing power infrastructure.

The Impact 4: Infrastructure Resilience



Through its load-shedding capabilities, the BESS has reduced the burden on the power cable. This has potentially addressed concerns about infrastructure durability and the risk of power trips, especially during critical operational times.

Strategic Focus Area 3:

Reducing Carbon Footprint

The Impact 5: Energy Efficiency Gains



Energy efficiency gains from installing solar panels integrated with a BESS power supply has reduced energy losses associated with long-distance transmission.

The Impact 6: Enhanced Visitor Experience



The more stable and reliable power supply, particularly during high-demand periods and events, has improved the overall visitor experience and supported the consistent operation of essential services throughout the park.

Urban Park's integration of BESS with Solar PV has significantly improved our power management, reducing cable load burden by up to 40.0% during peak events.

This combination of **renewable technologies** not only supports our sustainability goals but also enhances our operational efficiency, setting a positive example for large-scale facilities in the leisure industry.



PN. FARAH IYLIA NORDIN

Head of Renewable Energy and Innovation

Enhancing sustainable highway operations through the strategic implementation of BESS, reflecting our commitment to environmental stewardship and innovative infrastructure solutions.

Climate Action

Faced with escalating climate challenges, we implemented solutions to enhance resilience and mitigate environmental impacts on our highway networks. These infrastructural adaptations were our proactive measures to combat the effects of climate change.

The 2024 data on detention and retention ponds, coupled with smart slope monitoring systems, revealed the extent of our climate action across various highways. These ponds mitigated flood risk during extreme weather events, which were becoming increasingly frequent due to climate change.

Implementing smart slope monitoring systems complemented the water management infrastructure. SILK and SUKE highways deployed an array of rain gauges and tilt sensors, creating an early warning system for potential landslides and erosion. This data-driven mechanism enabled informed decisions, facilitating proactive maintenance and rapid response to climate-related risks.

Strategic Focus Area 3: Reducing Carbon Footprint



Rain gauges	Tilt Sensors
2	10

2024 Detention and Retention Ponds		
Highway	Detention Ponds	Retention Ponds
PROLINTAS GCE	-	1
PROLINTAS LKSA	6	0
PROLINTAS SILK	2	0
PROLINTAS DASH	1	0
PROLINTAS SUKE	3	8
Total	12	9

By integrating retention and detention ponds, PROLINTAS ensures efficient management of rainwater runoff, reducing the risk of flooding and maintaining water quality for adjacent communities.

STAKEHOLDERS IMPACTED



Road Users



Employees



External Providers



Communities

RELATED MATERIAL MATTERS



GHG AND CLIMATE ACTION





CAPITALS IMPACTED



Manufactured



Intellectual



Natural

Strategic Focus Area 3:

Reducing Carbon Footprint

CLIMATE ACTION

IMPACT STORY 2:

PAINTING A GREENER FUTURE

ROLINTAS launched an innovative project in 2024 to enhance the sustainability of our highway infrastructure, specifically targeting climate change mitigation. This initiative, implemented on the SILK and LKSA highways, demonstrated our commitment to environmental stewardship and technological innovation in infrastructure management.

The Initiative: MIZU 水 Paint, a Partnership with a Local Vendor

In collaboration with MIZU 水 Paint, we applied their innovative paint technology to the buildings in SILK and LKSA. This specialised coating adsorbs carbon dioxide and provides passive cooling benefits. The project covered a total area of 1,107.0 m² and 6,223 m² for SILK and LKSA respectively.





Impact 1: Carbon Sequestration



Each square-metre of paint adsorbed 41.0 grammes of carbon dioxide equivalent annually. We estimated an annual carbon dioxide equivalent seguestration of 45.4 kg and 255.0 kg for SILK and LKSA, respectively.

Impact 2: Temperature Reduction



The paint's passive cooling technology reduces surface temperatures by up to 8.0°C, improving thermal comfort in the painted areas.

Impact 3: Sustainability Alignment



This initiative supported our commitment to the United Nations' SDG 13: Climate Action and 17: Partnerships for the Goals. It demonstrated the practical applications of innovative materials in reducing GHG emissions.



While the scale was modest, this project served as a proof of concept for integrating environmentally beneficial materials into our infrastructure. It paved the way for potential larger-scale applications across our highway network, furthering our goal of developing infrastructure that not only served transportation needs but also contributed positively to environmental sustainability.

Strategic Focus Area 3: **Reducing Carbon Footprint**

Impact 4: UTM Presents PROLINTAS with Gold Award for Sustainable Development Excellence



The UTM Gold Award distinction recognises notable achievements in sustainable development. Conferred by UTM, this accolade recognises substantial contributions to the UNSDGs.



As a recipient of this honour, PROLINTAS has demonstrated a dedicated approach to innovation and concrete advancements in key areas aligned with the UNSDGs. These include contributions to climate action initiatives, sustainable urban development projects, and industrial progress within the infrastructure sector.

While prioritising **environmental** sustainability, we noted significant operational benefits. The paint's durability and cooling properties has the potential to extend the lifespan of infrastructure. It

also contributed to reduced heat-related maintenance, streamlining our routine upkeep processes. This dual impact not only supports our environmental goals but also promises long-term cost efficiencies in our highway management operations.

> Operations, Prolintas Managers Sdn. Bhd.





STRATEGIC FOCUS AREA 4:

SUSTAINABLE SUPPLY CHAIN

THE SIGNIFICANCE AND APPROACH

he Group recognises the critical importance of integrating sustainability into our core operations. Our journey towards achieving more sustainable infrastructure is not just about environmental stewardship; it is a shift that promises long-term benefits for our business, our stakeholders and the communities we serve.

We have made a conscious decision to prioritise suppliers who meet stringent environmental and ethical standards. By building long-term relationships with our suppliers and maintaining open dialogue with all stakeholders, we are mitigating potential reputational risks and attracting investors who value sustainability factors.

Our focus on sustainability has spurred innovation across our value chain. We are investing in sustainable-performance materials that enhance the safety and longevity of our infrastructure while reducing our environmental impact.

We also emphasise local sourcing strategies, which support regional economies and create more resilient and adaptable supply networks. This has deepened our community engagement and strengthened our ongoing efforts to advocate for fair labour practices across our supply chain. We regularly communicate the importance of ethical labour standards to our partners and actively work to ensure these principles are upheld throughout our operations.

By optimising our resource utilisation and diversifying our supply chains, we are better protected against price volatility and material shortages. These efforts also reduce our carbon footprint and align our operations with global climate change mitigation goals.

To strengthen our sustainable supply chain, we prioritise ethical sourcing, technological advancement, and local partnerships to support long-term business success and environmental stewardship.





RELATED MATERIAL MATTERS



ETHICS AND INTEGRITY

INNOVATION AND TECHNOLOGY



GHG AND CLIMATE ACTION



ECONOMIC CONTRIBUTION



SUSTAINABLE MATERIALS



CAPACITY, CAPABILITY, COMPETENCY AND CULTURE



IMPACTED STAKEHOLDERS • ALL STAKEHOLDERS

Strategic Focus Area 4: Sustainable Supply Chain



APPROACH

Sustainable Materials

At our highway operations, we are steadily increasing sustainable materials in our infrastructure development. This applies to both new construction and ongoing maintenance, aiming to enhance the durability and efficiency of our roadways while mindfully considering environmental impact.

Sustainable Supply Chain

The Group is promoting a sustainable supply chain that balances operational efficiency with ethical practices and environmental responsibility. By establishing partnerships built on integrity and shared values, we aim to deliver consistent, high-quality highway services while adapting to market changes and contributing to industry standards for responsible business practices.

Strategic Focus Area 4:

Sustainable Supply Chain

Sustainable Materials

The Group implemented a range of sustainable materials and innovative solutions in its highway infrastructure projects. The aim is to balance environmental responsibility with operational efficiency, contributing to industry advancements.

The Group utilised carpet patches for pothole repairs, a method that was highly effective across multiple highways. Additionally, PROLINTAS employed GlasGrid® for pavement reinforcement, which improved the structural integrity of road surfaces.

In line with circular economy principles, the Group incorporated premix additives from recycled waste such as plastic, rubber tires and various fibres into asphalt for road pavement. This practice reduced environmental impact and promoted resource efficiency.

The adoption of Alle-Grip for pavement resurfacing further demonstrated our focus on innovative, eco-friendly solutions that enhanced highway performance while minimising environmental effects.

In 2024, we paved an additional 3.6 km using sustainable materials, bringing the total distance of our highways paved with sustainable materials to 21.5 km to date.

Highlights of sustainable materials programmes in 2024:

Product	Description	Location	Total Paved Area (m²)
Super Fiber Mix ("SFM")	High-tensile strength synthetic fibre blend to reinforce asphalt mixes.	SILK	11,480.0
GlasGrid® Rapid	Superior asphalt pavement reinforcement with built-in high modified bitumen self-adhesive layer.	SILK and GCE	Spot Locations
Asphalt Concrete Reinforced Polyester Fiber ("ACRPF")	100.0% modified polyester fibre enhancing aging resistance, cohesiveness, and fatigue durability.	GCE	1,600.0





Sustainable Supply Chain

Our supplier, vendor and contractor metrics reflected steady progress and development.

As of 2024, **97** suppliers, vendors and contractors have been registered with PROLINTAS compared to **115** in 2023, marking a focused effort to align our supplier network with strategic priorities. We awarded **327** vendors with contracts in 2024, highlighting our dedication to building stronger, more impactful partnerships that enhance operational efficiency and support long-term growth.

Strategic Focus Area 4: Sustainable Supply Chain

By prioritising quality over quantity, we are progressing to a more agile and resilient foundation for sustainable success.

Considering these developments, the Group made advancements in sustainable supply chain practices. One of the notable changes was the Purchasing and Administration Department's decision to incorporate sustainability into vendor evaluations, assigning a weightage of 10.0% to sustainability practices.

The Purchasing and Administration Department engaged 97 new vendors, all of whom participated in the sustainability assessment. The assessment results indicated an opportunity to improve vendor awareness and participation in sustainability practices. It also expanded its sustainability assessment criteria to encompass three new key areas in its evaluation form.



YEAR	2022	2023	2024
Registered Suppliers, Vendors and Contractors			
Suppliers	89	56	61
Vendors and Contractors	93	59	36
Number of Suppliers, Vendors and Contractors Awarded			
Suppliers	140	131	122
Vendors and Contractors	165	215	205

Strategic Focus Area 4:

Sustainable Supply Chain

The key highlights:

ENVIRONMENTAL CRITERIA

Environmental Management System: assessed whether vendors had an Environmental Management System in place to control any environmental impacts.

Recycling Initiatives: We evaluated material recycling initiatives within the vendors' organisations.

SOCIAL CRITERIA

Labour Policies: Our assessment included criteria related to company labour policies, including their treatment of foreign workers.

qualification process, especially the incorporation of sustainability criteria, demonstrate our commitment to responsible sourcing. By assigning a 10.0% weightage to sustainability practices, we not only motivate our vendors to embrace greener initiatives but also provide a balanced approach that fosters a collaborative environment where both sustainability and supply chain efficiency are prioritised.

EN. KHAIRUL ANWAR JEON

Assistant Manager of Purchasing and Administration Department

GOVERNANCE CRITERIA

sought to determine whether vendors complied with minimum weightage requirements for all employees.

To reinforce our commitment to these standards. our annual communications included the Supplier Code of Conduct, Human Rights and Labour Rights Policies.

Compliance with Minimum Standards: We This highlights the importance of enhancing our communication and educational efforts to encourage greater engagement in sustainable initiatives. By collaborating effectively, we can help our vendors align more closely with our values and objectives, contributing to a more sustainable supply chain.



Strategic Focus Area 4:
Sustainable Supply Chain

IMPACT STORY 1:

BUMIPUTERA CONTRACTORS GAINED GROUND IN THE HIGHWAY CONCESSION SECTOR

Bumiputera contractors, particularly those classified under the Grade 1 category, have opportunities for growth and development, but they also face certain challenges. These contractors may encounter barriers such as limited resources, insufficient exposure and a lack of adequate support, which can affect their ability to enhance their capabilities and expand their market presence.

As a result, they struggle to enhance their capabilities and expand their market presence. Addressing these challenges is essential for creating a more competitive and inclusive environment within the highway concession sector, which will benefit both the contractors and the industry as a whole.

The Initiative: Bumiputera Contractor Matchmaking Programme 2024

The "Program Matchmaking Persatuan-persatuan Kontraktor Bumiputera Bersama Syarikat-syarikat Konsesi Lebuhraya" Initiative was a strategic programme spearheaded by Lembaga Lebuhraya Malaysia. Its goal was to shore up the growth and development of Bumiputera contractors, particularly those classified in the Grade 1 category. Officially launched by Yang Berhormat Datuk Seri Haji Ahmad Bin Haji Maslan, the Deputy Minister of Public Works, on 23 December 2024, the event was held at Dewan Tan Sri M. Yusuff, Wisma Lebuhraya.

The Group played a crucial role in this initiative through its various divisions, including Turnpike Synergy Sdn Bhd's Contract Management Division, PROLINTAS Managers Sdn Bhd's Contract Management Division and PROLINTAS' Purchasing and Administration Department. These units collaborated to enhance Bumiputera contractor participation, support industry growth and strengthen business opportunities within the highway concession sector. The programme's objectives included providing greater opportunities, resources and exposure for Bumiputera contractors, enhancing their capabilities and expanding their market presence.

Additionally, it aimed to create a more inclusive and competitive business environment by facilitating direct engagement between highway concessionaires and contractors, thereby promoting collaboration, knowledge sharing, and business networking within the sector.

STAKEHOLDERS IMPACTED

Employees



External Providers



RELATED MATERIAL MATTERS

All Material Matters

CAPITALS IMPACTED





Manufactured



Intellectual



Human



Social and Relationship



Natural



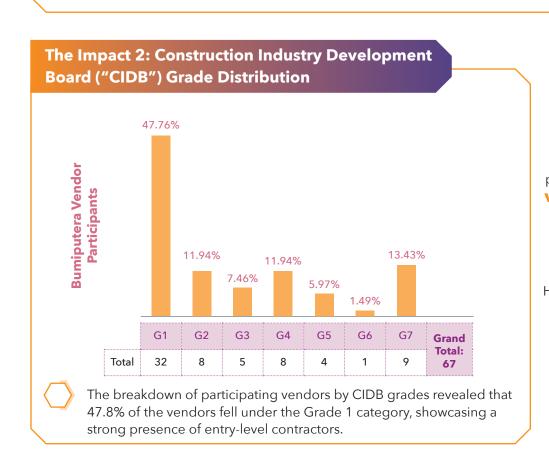
Strategic Focus Area 4:

Sustainable Supply Chain

The Impact 1: Participation Rate



The programme received a total of 69 responses of interest registered with PROLINTAS, with 67 from Bumiputera vendors, indicating strong engagement from the target group. This high participation rate (97.1%) reflected the initiative's effectiveness in attracting Bumiputera contractors.



"This initiative has yielded positive outcomes, enhancing vendor participation and capacity-building among Bumiputera contractors.

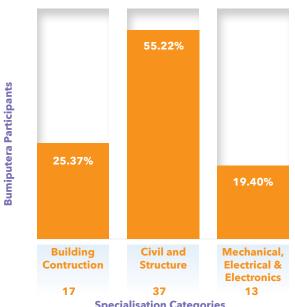
However, it is essential to continuously assess the effectiveness to ensure that it meets the evolving needs of the industry and addresses any potential gaps in support for

contractors at various levels.

CONTRACT MANAGEMENT DIVISION TEAM

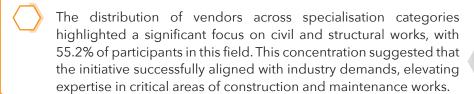
Strategic Focus Area 4: Sustainable Supply Chain

The Impact 3: Specialisation Focus

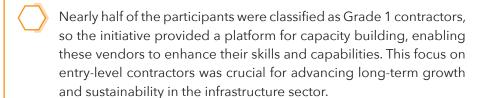


TOTAL

Specialisation Categories



The Impact 4: Capacity Building Opportunities



The Impact 5: Networking and Collaboration

The initiative facilitated direct engagement between highway concessionaires and contractors, promoting collaboration and knowledge sharing. This networking aspect was vital for building relationships within the industry and enhancing business opportunities for Bumiputera contractors.

The Impact 6: Economic Empowerment

The initiative contributed to broader economic empowerment by strengthening the participation of Bumiputera contractors in national economic activities. It aimed to foster a more inclusive and competitive business environment, benefiting the local economy.



En. Azmee Nin, Head of Highway Operations, alongside Yang Berhormat Datuk Seri Haji Ahmad bin Haj Maslan, Timbalan Menteri Kerja Raya, spearheaded the transformative Matchmaking Programme, strengthening partnerships between Bumiputera contractors and highway concession

companies to drive industry growth.



Responsible Resource Management

THE SIGNIFICANCE

esponsible resource management has become a fundamental aspect of sustainable business practices, and the interplay between water, waste and biodiversity is one of the key environmental considerations.

Water is increasingly acknowledged as essential for supporting human communities and natural ecosystems. To this end, we are adopting sustainable water management practices that aim to conserve this vital resource while enhancing ecological resilience.

In addition to water management, waste management is an important consideration for us due to the considerable waste generated from construction activities, maintenance, and litter from road users. To address this issue, effective waste management is being implemented to minimise environmental impact.

This reflects the broader trend in the industry toward integrating waste management into operational strategies, promoting a circular economy that emphasises reuse and recycling. Such measures not only reduce dependence on landfills but also underscore a dedication to environmental stewardship.

Biodiversity is increasingly recognised as vital to ecological balance, and our efforts focus on the preservation of species, habitats and natural systems that support this balance. The Group goes beyond merely meeting regulatory requirements; we actively engage in initiatives that support biodiversity within and around the vicinity of our highways. By environmental practices, there is a concerted effort to create a positive impact on the natural world, reinforcing a commitment to responsible resource management.

This holistic approach not only safeguards ecosystems but also enriches the communities served, positioning us as a leader in sustainable highway operations and a proactive contributor to ecological conservation.

TANGKI PENGUMPULAN SISTEM PENUAIAN AIR HUJAN

(2000LITER)

TIDAK BOLEH DIMINUM Non-Potable Water)







ETHICS AND INTEGRITY

INNOVATION AND TECHNOLOGY



GHG AND CLIMATE ACTION



SUSTAINABLE MATERIALS



ECONOMIC CONTRIBUTION



CAPACITY, CAPABILITY, COMPETENCY AND CULTURE



IMPACTED STAKEHOLDERS • ALL STAKEHOLDERS

Strategic Focus Area 5: Responsible Resource Management

APPROACH

Water and Waste Management

We are committed to conserving water by reducing usage in our operations and harvesting rainwater, while also maintaining high water quality standards to protect surrounding ecosystems.

In waste management, we focus on meticulous sorting at the source and emphasise increased recycling and repurposing to conserve resources and support the principles of a circular economy.

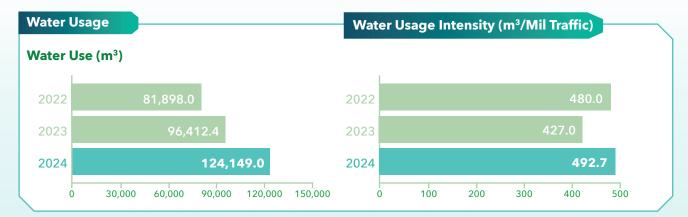
Biodiversity

Our biodiversity initiatives consist of two distinct approaches: one focuses on supporting ecosystems along our highways, while the other nurtures green environments beyond our immediate operational boundaries.

Water Management

In 2024, PROLINTAS observed a 28.8% increase in overall water consumption compared to the previous year, alongside a 15.4% rise in water intensity per million traffic volume. These trends underscore the impact of increased operational demands and activity levels during the year.

As part of our ongoing commitment to sustainability, we are closely evaluating these metrics to identify opportunities for improved resource management and long-term efficiency.



Waste Management

We monitored our waste management initiatives by tracking key performance indicators, including the volume of municipal and scheduled waste generated on our highways and within our business operations.

Waste (tonnes)	2022	2023	2024
Scheduled Waste Generated	3.1	2.0	1.8
Non-Scheduled Waste Generated	447.1	457.4	845.9
Total Waste Generated	450.2	459.4	847.7
Recycled Waste	60.8	37.8	24.1
% of total waste	13.5%	8.2%	2.8%
Disposed Waste	389.4	421.6	823.6
% of total waste	86.5%	91.8%	97.2%

Strategic Focus Area 5:

Responsible Resource Management

Steadily advancing toward a circular economy, waste materials were repurposed and reused rather than indiscriminately disposed of in landfills.

These efforts contributed to the conservation of finite natural resources and helped mitigate the impact of our operations, thereby reducing our environmental footprint.



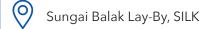






Initiative 1: Fabric Recycling Bin

On 21 October 2022, we launched our first-ever recycling bins for textile recycling in collaboration with Kloth Cares, the first textile-recycling movement in Southeast Asia.



Weight of Recycled Fabric Collected (kg)

> 2024:1,658 2023:9,500 2022:500

Initiative 2: Scrap Metal Collection and Recycling

Unused metal steel structures from highway maintenance or the detritus from recycling including guard rails, variable message sign panels, air conditioning units, fire extinguishers and lantern lights.



All six highways



Weight of Scrap (kg)

2024:35,146 2023:32,622 2022:57,094

Initiative 3: Food Waste Composter

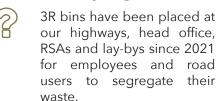
Food composting helps to reduce the amount of organic waste generated by RSA tenants and road users, thereby reducing waste. The waste composter converts food waste into nutrient-rich compost, which is then used as fertiliser for landscaping.



Weight of Fertiliser Produced Composted Food Waste (kg) (kg) 2024:1,774

2024:355 2023:216 2023:1,080 2022:630 2022:126

Initiative 4: 3R Bins for Recycling



All six highways and headquarters

()	Paper (kg) 2024 : 1,174	Tin (kg) 2024 : 0
	2023 : 3,600 2022 : 2,428	2023 : 20 2022 : 13
	Plastic (kg)	Total collecte

2024:1,277 2024:2,451 2023:429 2023 : 4,049 2022:495 2022 : 2,936

ecosystem resilience along our highways.

Strategic Focus Area 5: Responsible Resource Management

Biodiversity

As part of our biodiversity initiatives, we successfully planted a variety of native tree species along our highways to enhance landscape diversity. Flowering plants were also introduced to support pollinators, contributing to the overall health of the ecosystem.

Erosion control measures were implemented through the concurrent planting of ground cover species, which stabilised the soil and reduced surface runoff. These efforts not only enhanced the visual appeal of our highways but also played a vital role in preserving soil health.

Highlights of biodiversity initiatives in 2024:

Fruit Trees

- Phyllanthus acidus, Pokok Cermai
- Nephelium lappaceum, Pokok Rambutan
- Syzygium jambos, Pokok Jambu Air
- Anacardium ocindentale, Pokok Gajus

Forest Trees

- Gnetum gnemon, Pokok Melinjau
- Lagestroemia langkawiensis, Bungor Merah
- Hopea odorata, Merawan Siput Jautan
- Pteleocarpa lamponga, Tembusu Tikus
- Areca catechu, Pokok Pinang
- Fagraea fragrans, Pokok Tembusu
- Melaleuca leucadendron, Pokok Gelam
- Alstonia angustiloba, Pokok Pulai
- Cinnamomum iners, Pokok Kayu Manis
- Messua Ferrea, Penanga Lilin
- Ormosia pinnata, Ormosia
- Diospyros discolor, Pokok Mentega
- Syzgium polyanthum, Pokok Salam
- Mimusops Elengi, Pokok Bunga Tanjung
- Plumeria Rubra, Red Frangipani, Kemboja
- Aquilaria malanccensis, Pokok Karas/Gaharu

利以

Shrubs/Legume Cover Crops

- *Ixora javanica*, Jejarum
- Eugenia oleana, Kelat Paya
- Mussaenda philippica, Janda Kaya
- Cycas clivicola, Bogak
- Ficus nitida gold, Banyan
- Dicranopteris curranii, Resam
- Piper sermentosa, Kaduk



STAKEHOLDERS IMPACTED



Road Users



Employees



Communities

RELATED MATERIAL MATTERS



WASTE MANAGEMENT



BIODIVERSITY



IMPACT ON COMMUNITIES

CAPITALS IMPACTED





Social and Relationship



Natural

Strategic Focus Area 5:

Responsible Resource Management

IMPACT STORY 1:

KELAB SUKAN SOSIAL DAN KEBAJIKAN PROLINTAS ("KSSKP") LED THE CHARGE IN COASTAL CLEANUP TO CHAMPION **BIODIVERSITY PRESERVATION**

he KSSKP Beach Cleanup Programme was held on 27 October 2024 at Cahaya Negeri Beach, Port Dickson, Negeri Sembilan. This initiative aimed to protect coastal ecosystems, promote circularity through responsible waste management and minimising environmental impact.

The Initiative: Beach Cleanup Programme 2024

40 KSSKP members, including PROLINTAS Board Director Yang Berbahagia Datin Suryani Tun Ahmad Sarji, came together in a community-driven beach clean-up effort. Participants were guided on proper waste segregation to maximise repurposing and minimise landfill disposal. The event promoted circularity by raising awareness on the importance of recycling and repurposing, cultivating a sustainabilityconscious mindset among our employees.

> En. Badri Ibrahim, Head of Corporate Communications Division, addressed the participants before the cleanup began, reinforcing the significance of community involvement in creating a sustainable environment.



Strategic Focus Area 5: Responsible Resource Management

THE IMPACT



The KSSKP members made a significant impact during the beach cleanup activity by successfully collecting 250.3 kg of waste, an achievement that notably surpassed the total collected by other corporations in past events.

Sustainability Solutions, an environmental non-governmental organisation that co-organised the event with KSSKP, informed us that our efforts were four times greater than the waste collected during previous events they held with other corporate partners.

This programme not only contributed to the health of the local ecosystem by removing litter and debris from the beach but also underscored the importance of clean beaches in supporting marine life and maintaining ecological balance. Furthermore, the recyclable waste we collected was subsequently sent to a recycling facility for proper processing and repurposing.

Overall, the KSSKP Beach Cleanup Programme played a vital role in protecting the coastal environment while promoting sustainable practices. The collective efforts of participants demonstrated a strong commitment to preserving biodiversity and advancing circularity within our operations.

"The KSSKP Beach Cleanup Programme was a resounding success, showcasing sustainable practices. We, as the KSSKP committee members, were proud of the collective effort that not only improved the beach environment but also fostered a greater togetherness and awareness of

biodiversity and circularity in PROLINTAS.





EN. SAIFUL AKBAR MABRUR KSSKP Secretary

EN. ABU FITRIE ABU HASSAN

KSSKP Committee Members

In a collaborative effort to protect coastal ecosystems, our team and community members worked together to clean the beach while promoting the importance of recycling and reducing landfill waste.

STAKEHOLDERS IMPACTED



Road Users



Communities



Employees

RELATED MATERIAL MATTERS



GHG AND CLIMATE ACTION



BIODIVERSITY



IMPACT ON COMMUNITIES



ROAD USER WELL-BEING

CAPITALS IMPACTED



Manufactured



Intellectual



Human



Social and Relationship



Natural

Strategic Focus Area 5:

Responsible Resource Management

IMPACT STORY 2: GREEN HIGHWAY CORRIDOR

reen corridors along urban highways help balance infrastructure development with environmental considerations. These verdant stretches can improve air quality and reduce noise pollution, contributing to a more pleasant urban environment. These corridors further provide ecological connectivity, support local biodiversity and offer visual relief to commuters, potentially enhancing well-being in populated areas.

The Initiative: DASH Highway's Orchard Farm Initiative, Redefining Highway Sustainability

Cultivation of Diverse Plant Species

The orchard houses various trees, including *Garcinia Mangostana* (Manggis), *Lansium Domesticum* (Langsat), *Cocos Nucifera* (Kelapa Pandan), and several *Durio Zibethinus* (Durian) varieties.

Sustainable Landscaping

Integrating these plants into the highway's design creates green corridors and enhances the infrastructure's aesthetic appeal.

Conservation of Local Flora

Preservation and propagation of native Malaysian fruit trees, contributing to the conservation of local plant genetic resources.

Educational Resource

The orchard serves as a living laboratory for environmental education and research on urban biodiversity.



Native vegetation and sustainable landscaping are incorporated along the expressways to enhance local biodiversity and support ecological connectivity where possible.

Strategic Focus Area 5: Responsible Resource Management

The Impact 1: Biodiversity Enhancement



The introduction of various tree species along the highway creates new habitats for local fauna, particularly birds and insects, increasing urban biodiversity.

The Impact 2: Carbon Sequestration



The planted trees act as carbon sinks, absorbing CO₂ emissions and helping to mitigate the highway's environmental impact.

The Impact 3: Microclimate Regulation



The orchard's green spaces helps regulate temperatures, potentially reducing the urban heat island effect in surrounding areas.

The Impact 4: Soil Conservation



The root systems of the planted trees help prevent soil erosion along the highway, enhancing the stability of the infrastructure.

The Impact 5: Community Engagement



The orchard provides opportunities for local community involvement in environmental conservation efforts, encouraging a sense of ownership and environmental stewardship.

Our innovative approach to landscape design not only enhances the beauty of our highways but also prioritises the protection of local ecosystems and biodiversity.

By incorporating native plants and sustainable practices, we create vibrant green spaces that support the surrounding environment while providing a pleasant experience for highway users.



EN. MOHD FIRDAUS MAT HALIM

Assistant Manager of Civil and Structure Engineering (Landscape) Department

