

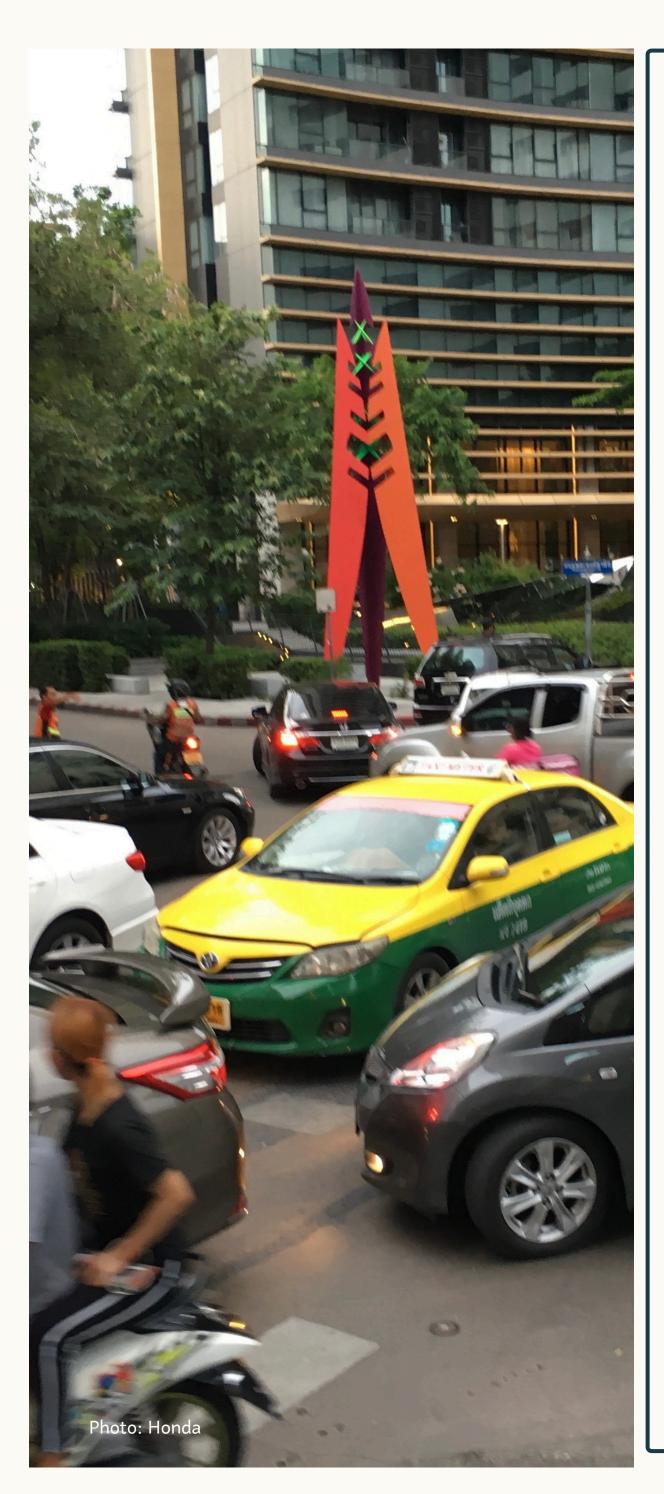
WHYROAD CRASHDATA MATTER

AUTHORS

Featured piece by Honda on the 2025 Call for Proposals Funding Priority

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Technical edition. Digging deeper into the Call for Proposals Funding Priority 2025.

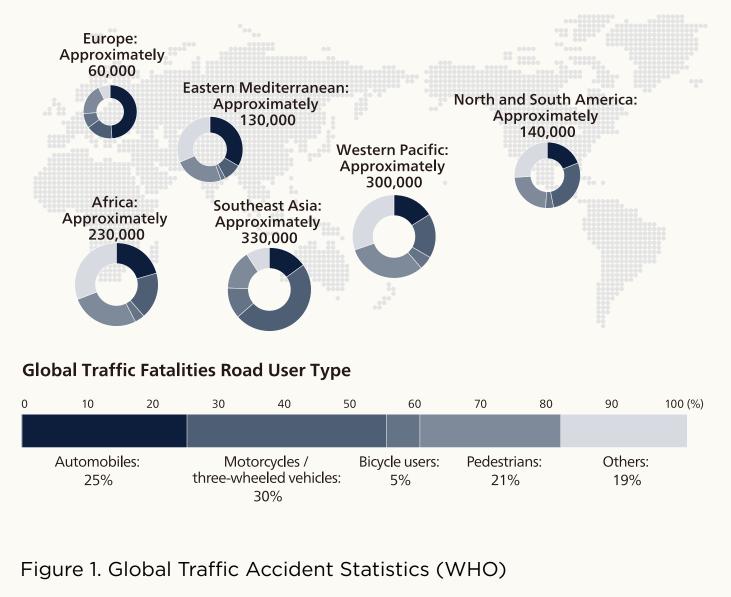


INTRODUCTION

Each year, an estimated 1.2 million people lose their lives in road traffic crashes, and a multitude more suffer life-altering injuries (see Figure 1). Yet in many low- and middle-income countries (LMICs), the true scale and nature of these tragedies remain obscured by gaps in data.

Without reliable, standardised road crash data, governments and stakeholders are left navigating road safety challenges in the dark. The 2025 UNRSF Call for Proposals identifies the standardisation of road crash data collection and the use of purpose–driven analytical methods as priority areas, recognising them as the foundation for effective interventions.

Honda, as a longstanding partner of the UNRSF and a global leader in road safety, welcomes this focus. Drawing on decades of experience across diverse regions, Honda advocates for a comprehensive, evidence—based approach to road crash data—one that empowers countries to save lives through informed policy, technology, and education.



References: Figure 1 – <u>Initiatives Aiming for Zero Traffic Collision Fatalities | Safety | Honda Global Corporate Website</u> (Honda) <u>Road traffic injuries</u> (WHO)



THE CHALLENGE

In many low- and middle-income countries (LMICs), road crash data systems remain fragmented and inconsistent, with insufficient information to effectively support traffic policy development, safety technology advancement, and infrastructure improvement. Agencies often operate in silos, using different databases and formats making data sharing and integration difficult. Real-time data is rare, and disaggregation by mode of transport, age group, or crash scenario is often missing. In-depth crash investigations — essential for understanding behavioral and environmental factors — are limited or absent. Inter-agency coordination between police, transport, health, and education sectors is weak, resulting in reactive and misaligned interventions.

Without accurate and up-to-date data, road safety efforts are effectively left in the shadows. Education campaigns may miss their target audiences, enforcement may focus on the wrong behaviours, engineering solutions may overlook high-risk zones or traffic scenarios, and emergency response systems may be underprepared. The result is a cycle of inefficiency and preventable harm.

Honda's global experience highlights the difference data can make. In Japan, macro-level statistical data enables precise policy evaluation, while micro-level crash investigations reveal root causes and inform technology development. In Thailand, Honda- supported analysis showed that 74% of traffic fatalities involve motorcycles, with many riders lacking formal training. This insight led to targeted education and technology interventions. In contrast, low-data environments struggle to identify blackspots, assess the impact of safety technologies, or prioritise vulnerable road users.

Honda advocates for a dual approach: macro data to monitor trends and evaluate policy, and micro data to understand crash dynamics and human factors. Both are essential for evidence-based policymaking and effective and sustainable interventions. Standardisation of data elements, accessibility, and inter-agency collaboration are not optional—they are prerequisites for saving lives.





THE SOLUTION SPACE

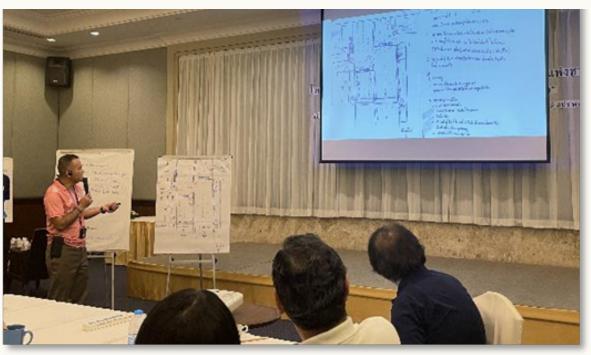
To address the systemic gaps in road crash data, countries need practical, scalable solutions that align with global best practices. Honda proposes a multifaceted approach to support Participating UN Organisation (PUNOs) and national stakeholders in building smarter data ecosystems by conducting data analysis based on standardised road crash data elements.

- Harmonisation of Data Collection Tools
 Develop and implement standardised road crash data
 collection tools with consideration of already existing
 frameworks such as UNDP, WP.29, and IRAP. These tools
 should initially capture macro-level crash trends and
 enable consistent and comparable data across regions
 (see sample report in Figure 2). This process should
 prioritise usability and applicability, and must be carried
 out through close collaboration between PUNOs and
 national stakeholders. These tools should be piloted in
 high-risk countries to confirm and, if needed, improve
 them for maximum usability and impact.
- Capacity Building for Frontline Personnel Train police officers, transport officials, and health responders in standardised crash reporting methods. Provide training for frontline personnel involved in postcrash data collection (e.g., police officers, transport authority staff, and medical professionals), emphasising the importance of continuous road crash data acquisition and practical examples of how such data is utilised (see Figure 3 showing a training session being conducted for police officers on the importance of road crash data collection). Additionally, promote simplification of road crash data input through digitalisation and IT solutions to reduce the burden of field staff. By centralising data management into an integrated system, this approach enhances data accuracy and empowers local teams to contribute effectively to national road safety strategies.

Figure 2. Sample Police Crash Report Form by CAREC

Additional form(s) will be need	led if there are more than 2	2 vehicles, mo	re than 4 pass	enger o	asualtie	s or more t	han 2 pedestr	ian casualties		
Fill in the report no, provincial office, police station and dates 1. REP NO. 2. PROV OFFICE 3. POL STN				REG OFFICE				DATE		
VEHICLE 1 30. VEHICLE	PLATE NUMBER				DRIVER 1 NAME					
31. OWNER'S NAME & ADDRESS					ADDRESS					
CHASSIS NUMBER 32. ENGINE NUMBER				LICENSE NUMBER						
33. INSURANCE		OR/OR DETAILS			LICENSE TYPE EXPI				TE	
MANUFACTURER (MAKE)	MODE	MODEL/YEAR			40. DRIVER SEX 42.			DRIVER INJURY		
34. VEHICLE TYPE	35. VEHICLE MANEUVE	7. Overtaking 13. Parked On Road 8. Going Ahead 9. Reversing 14. Other 10. Sudden Start 11. Sudden Stop 12. Parked Off Road		41. DRIVER AGE 2.				. Fatal 3. Minor 2. Serious 4. Not Injured		
1. Bicycle 7. Bus 8. Truck (Rigid) 2. Pedicsb 8. Truck (Rigid) 4. Tricycle 9. Truck (Artic) 4. Tricycle 10. Van 10. Van 15. Car 11. Animal 6. Jeepney 12. Other	2. Right Turn 8. Going 3. U Turn 9. Revers 4. Cross Traffic 10. Sudd 5. Merging 11. Sudd 6. Diverging 12. Parke			1. No 2. Fe 3. In: 4. To	43. DRIVER ERROR 1. None 2. Falgued/Asleep 3. Inattentive 4. Too Fast 5. Too Close Hospital: 6. No Signal 7. Bad Overtaking 8. Bad Turning 9. Using Cell Phone 10. Other					
36. LOADING 37. DIRECTION 1. Legal 2. Over Loaded 3. Unsafe Load 4. West	38. VEHICLE DEFECT 39. VEHICLE DAMAGE 1. None 5. Left 1. None 5. Left 2. Lights 6. Mutiple 2. Front 6. Roof 3. Rear 7. Mutiple 4. Right 8. Other		Left Roof Multiple	44. ALCOHOLIDRUGS 1. Alcohol Suspected Drugs Suspected 2. Not Suspected 3. Not Worn Correctly						
VEHICLE 2 30. VEHICLE	PLATE NUMBER				DRIVER	2	Name			
31. OWNER's NAME & ADDRESS					ADDRESS					
CHASSIS NUMBER 32. ENGINE NUMBER				LICENSE NUMBER						
33. INSURANCE OR/CR DETAILS				LICENSE TYPE EXPIRY DATE						
MANUFACTURER (MAKE) MODEL/YEAR				40. DRIVER SEX 42. DRIVER INJURY 1. Fatal 3. Minor						
1. Bicycle 7. Bus 2. Pedicab 8. Truck (Rigid) 3. Mater Cycle 9. Truck (Artic) 4. Tricycle 10. Van 5. Car 11. Animal 6. Jeepney 12. Other	2. Right Turn 8. Going: 3. U Turn 9. Revers 4. Cross Traffic 10. Suddi 5. Merging 11. Suddi	7. Overtaking 13. Parked On Road 8. Going Ahead 14. Other 9. Reversing			41. DRIVER AGE 2. Senous 4. Not Injured Hospital: 43. DRIVER ERROR 1. None 6. No Signal 7. Bad Overtaking 8. Bad Turning 9. Using Cell Phone 10. Other					
36. LOADING 1. Legal 2. Over Loaded 3. Unsafe Load 4. West	1. None 5. Tires 2. Lights 6. Multiple 3. Brakes 7. Other 4. Steering	5. Tires 6. Multiple 7. Other 4. Right 8. Other			1. Alcohol Suspected Drugs Suspected 2. Not Suspected 3. Not Worn			Yom Yom Correctly	tHelmet Worm n n Correctly	
PASSENGER CASUALTIES Co NAME & ADDRESS	NAME & ADDRESS 46.				48.	-	ee Reference	50.1	51.*	
1.			VEH. NO	SEX	AGE	INJUR	RY/HOSP	POSITION	ACTIO	
2.								+		
3.										
4.										
PEDESTRIAN CASUALTIES Complete 1 FULL line for each pedestrian casualty				52.	53.	10.5	See Reference	baxes below	56.*	
NAME & ADDRESS				SEX				ACTIO		
1.								-	_	
2. FOR EFFERNCE ONLY DO MOY CITCLE M. Mnor Double Control Sut 1. Passenger ACTION 5. Passenger Position 5. Passenger ACTION 5. Passenger Position 5. Passenger ACTION 5. Passenger 2. Boording 3. Alighting 4. Bus Passenger 3. Alighting 6. Outside—Standing 5. Other			1. On Pedestrian Crossing 2. Within 50 m.Ped. Crossing 3. On Central Refuge 4. In Road Centre 4. Walking 4. Walking				ossing Road alking along Road alking along Edge sying on Road	1		

Figure 3. Training session of importance of road crash data collection for police





References: Figure 2. Central Asia Regional Economic Cooperation (<u>CAREC</u>) Road Safety <u>Engineering Manual 6: Identifying, Investigating, and Treating Blackspots | Asian Development Bank</u>



THE SOLUTION SPACE

- Digitisation and visualisation of Data Systems Implement digital dashboards for real-time data visualisation, enabling policymakers and traffic participants to identify blackspots, monitor trends, and evaluate interventions. Experience with scenario-based crash analysis and heatmap tools demonstrates that technology can transform raw data into practical insights and actionable information (see Honda SAFETY MAP in Figure 4 showing black spot locations, areas with frequent sudden braking, and additional locations identified by users as dangerous).
- Systems Approach to Governance Establish interministerial taskforces to coordinate data sharing and policy alignment. Engagement with UNDP, WHO, UNECE, and other relevant agencies is encouraged to support the development and operation of these structures. The creation of centralised investigation units can further enhance the depth, consistency and reliability of road crash data.
- Private Sector Partnerships

 Honda stands ready to contribute its technical expertise, data analysis capabilities, and safety technologies to UNRSF-funded projects. From motorcycle safety rating schemes to crash biomechanics research, private sector innovations can complement public sector efforts and accelerate progress toward Vision Zero.

By investing in harmonised, technology—enabled, and collaborative data systems, countries can move from reactive to proactive road safety management—saving lives through smarter decisions.



Figure 4. SAFETY MAP produced by Honda.
8.4 billion km's worth of floating car data is utilised per year. Points where "sudden braking" occurs frequently + Points where "traffic collisions" occur frequently and information posted regarding "dangerous spots" = Pedestrians, drivers and riders all can live with greater peace of mind through advance awareness of dangerous places.

References: Figure 4. Honda SAFETY MAP



HONDA IN ACTION

Honda has set two global road safety targets: to reduce traffic collision fatalities involving its motorcycles and automobiles by 50% by 2030, and to achieve zero traffic collision fatalities by 2050 (see Figure 5). To achieve this, the company invests in safety technologies, education programmes, and data-driven policy support. Honda believes that achieving these milestones requires not only innovation in vehicle design, but also a deep understanding of human behaviour - through research in biomechanics and neuroscience - to promote behavioural change and implement comprehensive initiatives aimed at eliminating road crashes. Road crash data analysis is the starting point for identifying causal factors.

Honda's road safety works is organised under its 5E framework (see Figure 6): Evaluation, Education, Engineering, Enforcement, and Emergency Medical Services. This approach links data collection and analysis to practical interventions, combining vehicle design, training, enforcement support, and post-crash response.

The company applies both macro-level statistical data and micro-level in-depth crash investigations. Macro-level data helps identify trends in traffic incidents, monitor the effectiveness of policy measures and the adoption of invehicle safety technologies, and map high-risk zones. Micro-level data, such as behavioural analysis and scenario-based crash reconstructions, reveal the underlying causes of collisions. In Thailand, for example, a Hondasupported study by the Thailand Accident Research Centre (TARC) found that 74% of traffic fatalities involved motorcycles, and 37% of those involved collisions with passenger cars. The study even identified the specific crash scenarios.

The study's findings led to targeted interventions, including rider education programmes and predictive assessments of crash reduction effects for safety technologies.

Honda also leverages its engineering expertise to develop and deploy safety technologies informed by road crash data. This includes research into motorcycle airbags, safety rating schemes, and biomechanical analysis for rider and passenger protection. Honda's ICT and AI-based training platforms enable scalable, high-quality rider education, even in resource-constrained environments.

Road safety education is another focus area. Honda runs programmes in 43 countries and regions, training instructors and delivering safety awareness programs through traffic education centres and dealerships, with a strong focus on protecting children in traffic environments. These initiatives are increasingly linked with school curricula and driver licensing systems, ensuring that children not only learn essential safety behaviour but also grow up with a deep understanding of responsible mobility.

Collaboration with governments, UN agencies, and research institutions in support of evidence-based policymaking is a key part of Honda's approach. Honda actively contributes to UNECE processes and advocates for the harmonisation of road crash data standards worldwide.

Whether through data-driven policy support, technology innovation, or grassroots education, Honda's actions reflect a deep belief: that road safety is not just a technical challenge, but a shared responsibility. By aligning engineering with evidence-based policies and education, Honda continues to drive progress toward a world free from traffic fatalities.

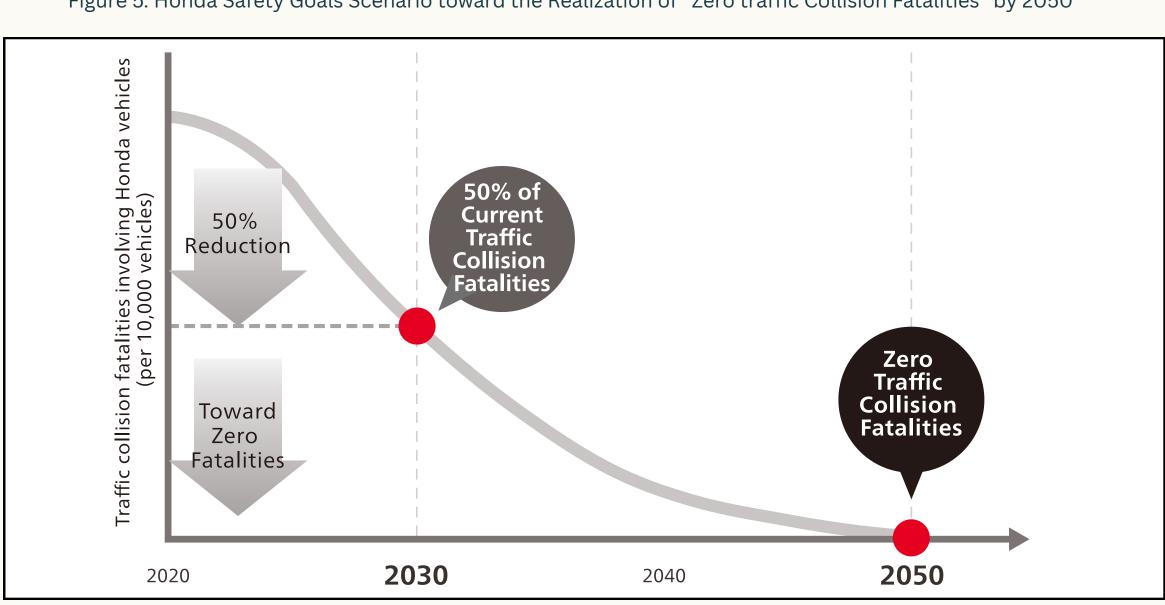


Figure 5. Honda Safety Goals Scenario toward the Realization of "Zero traffic Collision Fatalities" by 2050



Figure 6. Honda 5E approach



A CALL TO ACTION

Honda calls on governments and Participating UN Organisations (PUNOs) to place road crash data reform at the heart of their 2025 UNRSF proposals. Road crash data that is standardised, accessible, up-to-date and actionable is not a technical luxury—it is a necessity for saving lives. Smarter data systems enable targeted road safety education, effective enforcement, safer infrastructure development, and timely and well-prepared emergency care. Data empowers countries to invest wisely, innovate boldly, and protect their most vulnerable road users. As we move toward Vision Zero and Honda's own 2050 goal of zero traffic fatalities, let us build the data foundations that make these ambitions achievable.

SEE RELEVANT RESOURCES.