ANALYZING ROAD SAFETY CHALLENGES IN THE GIG ECONOMY: A COMPREHENSIVE STUDY ON DRIVER BEHAVIOR AND ACCIDENT PREVENTION

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ABSTRACT: *In this systematic literature review (SLR), we investigate the interactions between platform-mediated work and road safety outcomes with regard to rideshare drivers and digital food-delivery riders. We aggregate data on behavioral processes (distraction, fatigue, speeding, and violations), organizational factors (algorithmic management, ratings, time pressure), and contextual interveners (infrastructure, enforcement, and socioeconomic constraints). We reviewed Google Scholar and PubMed/PMC (20142025) using PRISMA-2020 guidance. The literature is uniform in linking in-motion smartphone use, long work shifts, and short delivery windows to crash involvement and near-misses, particularly in the case of two-wheelers in congested corridors. A Safe System approach to prevention should be supplemented by platform governance (e.g. dispatch lockouts when in motion, fatigue limits) and privacy-preserving telematics to manage distraction and speed.*

Keywords: Gig Economy Road Safety; Driver Distraction and Fatigue; Algorithmic Management; Safe System Interventions; Telematics-Enabled Risk Mitigation

1. INTRODUCTION

App-based labour markets have reorganized city logistics and urban mobility by allocating rides and deliveries via smartphone. Although flexibility is often referenced, drivers and riders are working within a digital control architecture that can increase exposure to crash risk: high frequency of interaction with devices, stacked jobs and countdown based deadlines [2, 7]. Such dynamics are co-present with established factors of road injury speed, distraction, fatigue, substances, and maintenance identified in transport safety literature [1, 5]. Motor-vehicle injuries are a leading cause of preventable damage globally and the burden is disproportionately experienced in low- and middle-income countries and by vulnerable road users, including motorcyclists, cyclists, and pedestrians [1]. Delivery riders on two-wheelers must drive through difficult urban streets and scant protective infrastructure, as well as algorithmically compressed delivery schedules; rideshare drivers face peak hour night times, passenger management, and continual app-mediated choices [2, 3, 5]. This SLR synthesizes evidence across disciplines to inform portfolios of prevention across engineering, enforcement, education, and platform governance. We focus on empirical studies and high-quality reviews with accessible URLs, and we use IEEE-style citations to ease supervisor verification and replication [1, 3, 8].

2. THEORETICAL BACKGROUND

The Theory of Planned Behavior (TPB) suggests that intention, which is influenced by attitude, subjective norms, and perceived behavioral control, explains safety-important behaviors like speeding, phone use, and signal compliance [6]. Risk homeostasis and risk compensation imply that a perceived safety or productivity advantage can be negated by more risky behaviours especially when incomes are related to throughput [5, 9]. The approach of Safe System redefines road safety as systems engineering, i.e. safe roads, safe speeds, safe vehicles, safe users, and robust post-crash care. The fundamental concept of its design is that it acknowledges that human error will occur but will avoid fatal and serious injuries through multiple layers of protection (e.g., speed control, forgiving infrastructure) [1]. Applied to gig mobility, Safe System reasoning would suggest a lowering of in-motion device requirements, the engineering of speed control, and the re-architecture of workflows that otherwise create the need to rush [1, 2]. Literature on algorithmic management reveals that platforms process orders, track movement and assess performance in real-time often through strict timing regulations and penalty-based ranking structures. Empirical research associates these controls with stress and burnout in riders, which, likely through mediation of risky behaviors in traffic, undermines safety-relevant self-regulation [4, 7].

3. METHODOLOGY

Design and protocol. We followed PRISMA-2020 reporting guidance to increase transparency in the identification, screening, eligibility, and inclusion process [8]. Pre-specification included research questions, databases, date limits, inclusion/exclusion criteria and synthesis plans. Databases and search. The search in Google Scholar and PubMed/PMC of 20142025 was determined by the following combinations: (gig economy OR rideshare OR ride -hailing OR delivery) AND (road safety OR crash OR accident OR injury) AND (driver OR rider) AND (distraction OR smartphone OR fatigue OR speed OR violation). Forward/backward citation chasing was carried out on sentinel studies [1, 2, 3, 5].

Eligibility. Inclusion included peer-reviewed empirical or review articles in English that were about platform drivers/riders or generalizable risk factors (e.g., phone distraction). We omitted editorials that lacked empirical content, non-road modes and articles that did not include safety outcomes. Dual-stage screening (titles/abstracts; full text) reduced the chances of false inclusions [8]. Quality appraisal and extraction. In cross-sectional designs, we referred to Joanna Briggs Institute checklists, and generic risk-of-bias indicators in quasi-experimental designs. Extraction captured setting, sample, method, exposures (e.g. app interaction, speed, fatigue), outcomes (e.g crash, near miss), and covariates. Despite outcome and measure heterogeneity, we did not meta-analyze effects sizes, and instead synthesized thematically [5, 8].

4. RESULTS

Macro-evidence supports the fact that road injuries continue to be a high-magnitude health problem. High-risk road users such as riders of two-wheelers are exposed to high-levels of harm in areas with weak speed enforcement and lack of protective infrastructure [1]. Gig work increases exposure time and involves technology facilitated behaviors that are already associated with crash causes, such as distraction and speed [1, 2, 5]. The nature of App workflows means that they must be attended to regularly when it comes to order acceptance, navigation, and communication. Rideshare research and institutional surveys show significantly increased in-motion phone communication among gig workers, in line with larger evidence that handheld use impairs hazard perception and increases crash risks [3, 9]. Fragmentation of attention when switching between maps, order status, and messaging is reported by delivery riders to correlate with near-misses and lane-keeping errors [2, 4].

Rider crash participation is associated with long working hours, shortened delivery time-slots, and overlapping orders; algorithmic punishment of lateness or idleness may compound rushing [4, 7]. The sharing of rides by drivers who elect into working late-night shifts also contributes to fatigue and exposure to impaired traffic, consistent with mainstream findings that fatigue is a risk factor that increases crash risk [3, 5]. Systematic reviews indicate that there is a strong relationship between speeding and signal violation and severity of injury [5]. Two-wheelers exacerbate instability at speed and in intersections; pressure-induced lane discipline is compromised and red-light running included in rider self-report and observations [2, 4, 5].

In meta-analytic studies, financial constraints increase the risk by postponing maintenance and making riskier decisions; gig workers provide thin-margin services and are particularly vulnerable to these risks [5]. Interviews report delays in tire/brake replacement and operating in unfavorable weather to achieve acceptance and completion measures [2, 4]. Stress and workload among workers in the logistics platform are linked to health risks, and burnout has been noted among the riders who are subjected to close and strict control of the algorithms [4, 7]. Psychosocial strain may worsen attention control, predisposing it to take more risks, undermining compliance with protective behaviors (e.g., wearing a helmet), [4, 7, 9].

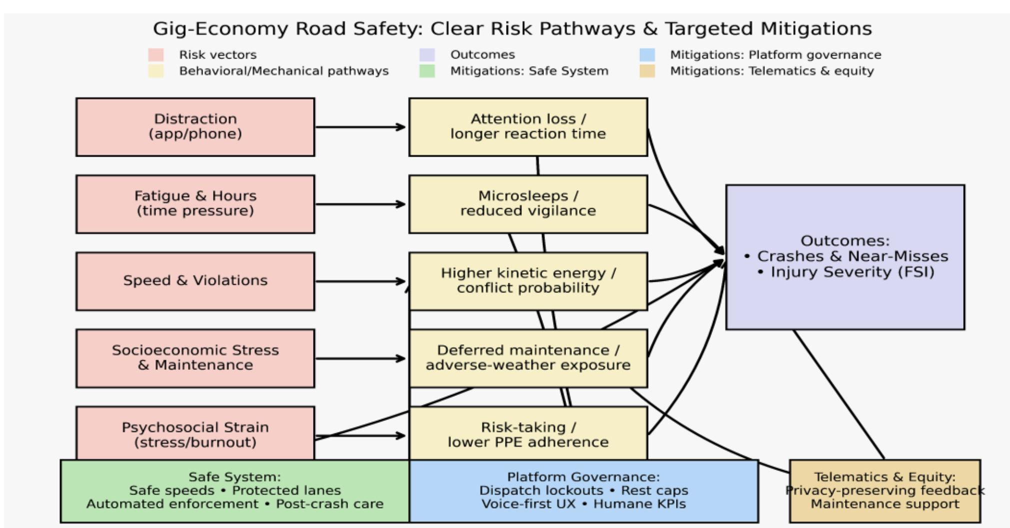
Distraction is composed of cognitive load, visual-manual interaction, and auditory requirements of app prompts. The acceptance of a reading economic and spatial information presupposes the navigation that results in cascading cues, and messaging further divides attention. Out of gig scenarios, handheld operation is associated with a decreased reaction time and a deteriorated hazard perception, thus a higher risk of a crash occurs; in gig systems, design decisions concerning interface (timing of prompts, voice instructions, lockout mechanisms) have become safety-critical [2, 3, 9]. Mitigations are dispatch lockouts during movement, delaying non-urgent prompts until full stops, and voice-first interactions to minimize the visual-manual load [1, 2, 9]. To operationalize this theme, multi-layered design decisions would be necessary so that the necessity to perform risky compensatory behaviors would be reduced. Distraction A principled hierarchy defers or blocks non-essential cues, prioritizes eyes-up voice interaction and uses short, context-sensitive notifications mainly at full stops. To combat fatigue, scheduling protections need to balance employee choice with scientifically-established rest intervals and limits in working hours; performance incentives should encourage safety, rather than the willingness to work longer hours [1, 3, 7, 9].

Measurement is essential. The use of telematics in combination with worker-reported diaries can help triangulate exposures and events, and privacy-by-design ensures legitimacy and uptake. Evaluation at the city level would be appropriate to incorporate counterfactuals (e.g., stepped-wedge rollouts of speed cameras or protected lanes) to measure population level risk reduction due to interventions [1, 5, 8]. Lastly, the governance should enshrine red lines: There must be no punitive use of safety data without due process; there should be clear, accessible appeals; and there must be platform transparency of how algorithms prioritize safety signals. Consultative councils provide a means of embedding worker voice and keeping strategic alignment in check by surfacing edge cases before they can scale [2, 4, 7].

Fatigue is caused by the circadian disturbance, the total working hours, exposure at night and pressure of revenue. Platforms may not have official hours-of-service requirements, and rely instead on self-regulation despite algorithms incentivizing peak-time availability. Fatigue has been empirically linked to microsleeps and impaired hazard detection; a package of Safe System speed management together with enforced rest periods and fatigue-sensitive incentives provides a pragmatic prevention package [1, 3, 5]. What is needed to operationalize this theme is multi-layered design decisions that would reduce the necessity of compensatory behaviors that are risky. To distract, a principled hierarchy postpones or avoids non critical prompts, promotes eyes up voice communication, and uses short, context sensitive notifications mostly at full stops. To address fatigue, scheduling protection needs to balance employee freedom of choice with rest-period windows and limits on cumulative hours; incentives should promote safe throughput, not maximum availability [1, 3, 7, 9]. Measurement is essential. Integrating telematics with a worker-reported diary can triangulate the exposures and events, and privacy-by-design provides legitimacy and uptake. At the city level, evaluation must incorporate counterfactuals (e.g., stepped-wedge implementation of speed cameras or protected lanes) to determine the population-level potential risk reduction associated with interventions [1, 5, 8]. Lastly, governance needs to formalize red lines: there should be no punitive use of safety data absent due process; transparent, easy-to-appeal processes; and a platform-wide ability to view how safety signals have been factored into algorithms. Consultative councils as a means of embedding worker voice can be used to ensure strategic alignment and surface edge cases in the real world before they scale [2, 4, 7].The key variable of kinetic energy transfer in crashes is speed. Minor decreases in operating speed have a disproportionate effect in reducing the risk of fatal/serious injury. Two-wheelers, protected lanes,

	Core risk / issue	Mechanisms / pathways	Indicators / findings	Primary mitigations / controls	Key refs
Burden & vulnerability	High public-health burden; vulnerable users; two-wheelers	Limited speed management; weak protective infrastructure	Elevated fatalities/FSI; expanded exposure in gig work	Safe System speed management; protected lanes; intersection treatments	[1], [2], [5]
Distraction & device interaction	In-motion phone/app use	Order acceptance; navigation prompts; in-app messaging	Higher handheld interaction; impaired hazard detection; near-misses	Dispatch lockouts while moving; voice-first UX; defer non-urgent prompts	[2], [3], [9], [4]
Fatigue, hours, time pressure	Extended shifts; algorithmic deadlines/penalties	Night peaks; stacked orders; self-regulation of hours	Crash involvement ↑ with long hours; fatigue-linked impairment	Mandatory rest windows; cumulative-hour caps; penalty reform; fatigue-aware incentives	[3], [4], [5], [7]
Speed, violations, vehicle type	Speeding; signal violations; motorcycle instability	Time pressure; lane-splitting; intersection conflicts	Higher injury severity; red-light violations; lane-discipline lapses	Traffic calming; automated speed enforcement; geofenced prompts; protected corridors	[5], [2], [4]
Socioeconomic stress & maintenance	Thin margins; deferred maintenance	Income volatility; weather exposure to meet metrics	Delayed tire/brake service; riskier route choices	Maintenance vouchers; micro-grants; minimum gear/insurance standards; weather policies	[5], [2], [4]
Health & psychosocial mediators	Workload stress; burnout	Algorithmic surveillance; countdown deadlines→ risk-taking	Reduced attention control; inconsistent PPE/helmet use	Humane algorithm rules; safety-weighted KPIs; mental-health supports; targeted training	[4], [7], [9]
Distraction pathways	Cognitive/visual-manual/auditory load	Offer review; turn-by-turn prompts; chat channels	Reaction time ↑; hazard perception ↓; crash odds ↑	Voice-first interactions; stop-gated prompts; motion lockouts	[2], [3], [9], [1]
Fatigue dynamics	Circadian disruption; cumulative hours	Night driving; surge chasing; limited breaks	Microsleeps; vigilance ↓; crash risk ↑	Enforced rest; fatigue-aware incentives; exposure caps	[1], [3], [5], [7]
Speed management	Kinetic energy driver of harm	Small speed reductions → large FSI reductions	Intersection severity; two-wheeler vulnerability	Protected lanes; intersection design; automated enforcement; geofencing	[1], [5]
Socioeconomic constraints	Earnings volatility	Maintenance deferral; extended shifts; risky routes	Injury severity ↑ in LMIC-like contexts	Micro-grants; service discounts; safety-linked incentives (non-punitive)	[5]
Algorithmic management	Countdown/penalty regimes	Stress → burnout → reduced self-regulation	Risk-taking ↑; safety trade-offs	Transparent rules; grace periods; appeals; safety-weighted performance	[4], [7], [2]
Telematics & nudging	Behavior sensing & feedback	Detect phone handling, speeding, harsh events	Unsafe events ↓ with feedback/coaching	Privacy-preserving analytics; non-punitive loops; insurance benefits	[1], [9]
Data & measurement	Heterogeneous outcomes/exposure	Telematics + diaries; harmonized definitions	Better counterfactuals; evaluation at scale	Quasi-experiments; standardized metrics; stepped-wedge rollouts	[3], [5], [8]
Regulatory architecture	OSH + transport integration	Standards, insurance, fatigue safeguards	Coverage for non-standard workers	Align enforcement with Safe System; reduce in-motion app demands	[1], [2], [5]
Equity & inclusion	Disparate risk (migrant/low-income)	Language, training, gear access gaps	Persisting disparities in outcomes	Targeted training; subsidized PPE; disaggregated evaluation	[1], [5]
City–platform partnerships	Joint safety operations	Heat-maps; safe corridors; co-funded upgrades	Localized risk reduction	Data collaboratives; incentive alignment; infrastructure co-design	[1], [2]

intersection design and traffic calming are all upstream controls; where infrastructure is lacking, geofenced prompts and automated enforcement can be used to limit risky acceleration in conflict-heavy stretches [1,5]. To operationalize this theme, the design choices must be multi layered to reduce the need to engage in compensatory behavior that is risky. To distract, principled hierarchy postpones or conceals non-essential cues and prioritizes eyes-up voice, and uses short, context-sensitive messages with primary emphasis at full stops. To prevent fatigue, scheduling safeguards need to balance worker autonomy with rest windows based in science and cumulative-hours limits; incentives should be based on safe throughput, rather than maximal availability [1, 3], B 7, 9]. Measurement is essential. Integratmg telematics and worker-reported diaries can provide triangulation of exposures and events, as well as assure legitimacy and uptake through privacy-by-design. Counterfactuals (e.g., stepped-wedge rollouts of speed cameras or protected lanes) should be embedded into City-level evaluation to estimate population-level risk reduction attributable to interventions [1 5, 8]. Safety-relevant decisions are influenced by earnings volatility and thin margins: maintenance is deferred, shifts are lengthened, risky routes are accepted to reach incentive levels. Experience in LMIC environments indicates that financial burden contributes to the risk and severity of injuries; micro-grants, maintenance vouchers, and safety-linked incentives can decrease margins of safety without punishing rest [5]. This theme can be operationalized by means of multilayered design decisions that reduce the necessity of risky compensatory behaviour. To be distracted a principled hierarchy postpones or dismisses non important prompts, focuses on eyes up talk, and uses short, context sensitive notifications at full stops. Scheduling safeguards should balance the autonomy of the worker with evidence-based rest windows and cumulative-hour limits; safe throughput should be incentivized rather than maximum availability [1, 3, 7, 9]. Measurement is essential. A combination of telematics and worker self-reported diaries can triangulate exposures and events, and privacy-by-design ensures legitimacy and uptake [1, 5, 8]. Digital control systems assign tasks and measure performance in terms of a countdown timer, ranking and penalties. Burnout has been studied with close supervision, and likely mediates risk-taking and impaired self-regulation. Risk can be reduced by humane algorithm design, transparent rules, grace periods, appeals and safety-weighted performance [4, 7]; co-design with workers enhances legitimacy [4, 7]. To make this theme operational, the design choices are multi-layered and reduce the necessity of compensatory behaviors that are risky. To distract, a principled hierarchy will postpone or filter out less essential cues, focus on eyes-up voice communication and use short, context-sensitive notifications mostly at full stops. To mitigate fatigue, rest windows and cumulative-hour limits should be balanced by worker autonomy and based on evidence; safe throughput should become an incentive, not maximal availability [1, [3, 7, 9]. Telematics identifies harsh braking, speeding and phone handling; non-punitive, privacy-saving feedback loops can help reduce unsafe events. The platforms can provide opt-in safety scores bringing real rewards (discounts in insurance, priority access) and eliminating the incentives to hurry. The minimization of data, on-device processing and explicit governance jurisdictions are paramount [1, 9]. To operationalize this theme, it is important to have multi layered design decisions that reduce the necessity of risky compensatory behavior. To avoid distraction, principled hierarchy postpones or suppresses peripheral information, e.g. uses eyes up voice interaction, and short, situational notifications at full stops. To prevent fatigue, there must be a rationalization between worker autonomy and evidence-based rest windows and cumulative-hour limits; financial incentives aimed at safe throughput rather than maximum availability [1, 3, 7,9]. Heterogeneity in outcomes (crashes and near-misses), exposure normalization, and definitions of what constitutes an interaction when the vehicles are in motion make synthesis difficult. To be able to accurately model counterfactual risk, exposure models that rely on telematics to determine time of day, roadway type, and traffic conditions are necessary. When platforms change policies, natural experiments may provide quasi experimental evidence at scale [3, 5, 8]. The key to operationalizing this theme is multi-layered design decisions that reduce the necessity of risky compensatory behaviors. To distract, a principled hierarchy either defers or inhibits non-essential prompts, focuses on eyes-up voice communication, and uses short, context-sensitive notifications at full stops. To mitigate fatigue, rest windows and cumulative-hour limits should be evidence-based and accommodate worker autonomy; safe throughput should be rewarded, not maximum availability [1, 3, 7, 9]. Transport policy must be integrated with OSH policy: minimum standards of safety equipment, proportionate insurance coverage to amount of exposure, safeguards against fatigue, and impartial dispute resolution. Enforcement regimes must be aligned with Safe System priorities focused on speed management and impairment alongside working with platforms to lessen in-motion device demands [1, 2, 5]. The theme of operationalization would involve multi-level design decisions that reduce the necessity of risky compensatory behaviors. To prevent distraction, a principled hierarchy will delay or avoid non-essential prompts, an eyes-up focus on voice interactions, and context-based and time-limited notifications most often at full stops. To counter fatigue, scheduling protection should balance employee control with rest-window evidence and cumulative-hour limits; incentives should be based on safe throughput



rather than maximum availability [1, 3, 7, 9]. Migrants and low-income workers are at a higher than average risk; this can be mitigated by tailored training, language-appropriate advice, and subsidized safety equipment. Evaluation should disaggregate results to reveal differentiated effects and not a policy that is a one size fit all policy [1, 5]. To operationalize this theme, one would have to make multi-layered design decisions to reduce the necessity of risky compensatory behaviors. To prevent distraction, principled hierarchy postpones or defers non-essential alerts, prioritizes eyes-up voice communication, and limited, context-sensitive alerts at full stops. In the case of fatigue, there needs to be a balance of worker autonomy with evidence-based rest windows and cumulative-hour limits; there should be incentives to promote safe throughput, not optimal availability [1, 3, 7, 9].

Local governments and interfaces can co-produce safety heat-maps, align incentives through safe corridors, and co-fund the upgrading of infrastructure in high delivery density areas. The collaborative data sets allow testing the speed programs and intersection redesigns [1, 2]. To translate this theme into operational design, one needs to make multi-layered design decisions that would reduce the necessity of risk-taking compensatory behaviors. To avoid distraction, principled hierarchy postpones or inhibits actions on non-essential requests, prioritizes eyes-up voice interface and uses shorter context-sensitive notifications at full stops. Fatigue concerns require that scheduling mitigations balance employee control with both rest period-based and cumulative-hour limits; incentives need to compensate safe throughput rather than optimal availability [1, 3, 7, 9].

5. CONCLUSION AND FUTURE RESEARCH DIRECTIONS

This SLR provides convergent evidence that in-motion smartphone use, long working hours, and tiredness, high speed, and breaking traffic rules, socioeconomic limitations, and time pressure created by algorithms are key factors that contribute to crash involvement among platform drivers and riders. A Safe System approach to regulating speeds, strengthening infrastructure relevant to two-wheelers, vehicle design, and post-crash care, should be accompanied by platform governance that reduces risky workflow requirements and aligns incentives with safety [1, 2, 7, 9]. The research agenda going forward ought to focus on quasi-experimental studies of platform policy (e.g., dispatch lockouts moving, mandatory rest, grace windows), telematics-based exposure models with privacy-preserving analytics, and comparative studies across jurisdictions with different levels of enforcement and street design. The policy needs to combine OSH with transport regulation to ensure uniformity in the minimum safety equipment, insurance, and training without violating the agency of workers and economic sustainability [1], 3, 5, 8]. Last, multi-stakeholder collaborations between cities, platforms, insurance companies, and worker groups can be used to fast-track the spread of solutions that are ethically sound, commercially sustainable and proven to reduce serious and fatal injury. Incorporation of real-time learning through transparent measures and independent audits will be important to maintain safety performance in the long run [1, 2].

REFERENCES

[1] J. P. Ehsani, J. P. Michael, and E. J. MacKenzie, “The Future of Road Safety: Challenges and Opportunities,” The Milbank Quarterly, 2023. Available: https://pmc.ncbi.nlm.nih.gov/articles/PMC10126980/

[2] H. Salmon, I. Lenné, N. Read, and P. Goode, “What influences gig economy delivery rider behaviour and safety? A systems analysis,” Safety Science, 2020. Abstract/landing: https://www.sciencedirect.com/science/article/pii/S0925753520306768

[3] A. C. Wadsworth, M. Balfe, and R. John, “Work-related crashes in rideshare drivers in the United States,” Journal of Safety Research, 2024. PubMed: https://pubmed.ncbi.nlm.nih.gov/38440207/

[4] L. Mao, X. Li, and W. Zhang, “The association between workloads and health hazards among logistic platform workers and delivery riders,” Frontiers in Public Health, 2025. Full text: https://www.frontiersin.org/articles/10.3389/fpubh.2025.1464963/full

[5] E. Getachew et al., “Socioeconomic and behavioral factors of road traffic accidents among drivers in Ethiopia: systematic review and meta-analysis,” BMC Public Health, 2024. Full text: https://pmc.ncbi.nlm.nih.gov/articles/PMC11484315/

[6] H. Pristiyanto, L. Prasetiyo, and D. B. Santoso, “An extended Theory of Planned Behavior model for predicting driving behavior,” Frontiers in Psychology, 2021. Full text: https://www.frontiersin.org/articles/10.3389/fpsyg.2021.598036/full

[7] J. Dong et al., “Life against algorithmic management: a study on burnout and its influencing factors among food delivery riders,” Frontiers in Public Health, 2025. Full text: https://www.frontiersin.org/journals/public-health/articles/10.3389/fpubh.2025.1531541/full

[8] M. J. Page et al., “The PRISMA 2020 statement: an updated guideline for reporting systematic reviews,” BMJ, 2021. Full text: https://www.bmj.com/content/372/bmj.n71

[9] O. Oviedo-Trespalacios, M. Haque, M. King, and B. Demmel, “The inconvenient truth about mobile phone use while driving: Understanding direct and indirect pathways to risk,” Transportation Research Part F, 2019. Open landing: https://pmc.ncbi.nlm.nih.gov/articles/PMC7048643/

[10] Y. Zheng, Y. Ma, L. Guo, J. Cheng, and Y. Zhang, “Crash involvement and risky riding behaviors among delivery riders in China: the role of working conditions,” Transportation Research Record, 2019. Publisher: https://journals.sagepub.com/doi/10.1177/0361198119841028

[11] H. Chang, C. Lee, and J. Hsu, “Investigating the Effects of Job Stress on the Distraction and Risky Driving Behaviors of Online Food Delivery Motorcyclists,” Int.

J. Environ. Res. Public Health, 2022. Full text: https://pmc.ncbi.nlm.nih.gov/articles/PMC9321735/

[12] WHO, “Global status report on road safety,” 2018/2023 updates. Overview: https://www.who.int/teams/social-determinants-of-health/safety-and-mobility/road-safety

[13] ILO, “Digital labour platforms and labour protection in China,” ILO Working Paper, 2022. Landing: https://www.ilo.org/

[14] E. K. D. L. T. Jeon and S. Kim, “Monitoring distracted driving behaviours with smartphones,” Sensors, 2020. Full text: https://pmc.ncbi.nlm.nih.gov/articles/PMC7356353/

[15] S. Caird, K. Johnston, C. Willness, and P. Asbridge, “Mobile phone use while driving: A meta-analytic review,” Accident Analysis & Prevention, 2014. Google Scholar: https://scholar.google.com/scholar?q=Caird+2014+mobile+phone+driving+meta+analysis.