Index

Accessibility universals, 256 Accuracy, 69 Active management by exception, 195-196 Active strategies, 12 Adolescent driving, 14 Adolescent sexual risk behaviors, 119 Agents, 7 Alcohol use, 50 "All or nothing" phenomenon, 298 Altruism, 158 Anthropological approaches to culture, 264 Anthropologists, 193, 265 Anti-drink-driving advertising campaigns, 279-282, 287 Anti-federalists, 134 Anti-speeding advertising campaigns, 283-288 "Apfel, Zitrone" intervention, 59 Apprehension-based traffic law enforcement practices, 125 - 126Artifacts, 32, 184 symbols, 183 Association for Safe International Road Travel (ASIRT), 9 Assumptions, 27, 77 Attitudes, 27, 42-43, 72-73, 97 - 99attitude-oriented indicators, 118 and behavior relations, 300 implicit and explicit attitudes, 50

instrumental and emotional components of, 50 Auditing, 237 Australasian New Car Assessment Program (ANCAP), 233 Australian experience, 276 changing communication landscape, 288-291 drink driving and speeding, 279 - 288road safety advertising's role from TSC perspective, 276 - 278Australian jurisdictions, 280 Australian National Survey of Community Attitudes to Road Safety, 284 Australian road safety campaigns, 310 Australian Transport Council (ATC), 146, 275 Automotive technology organization, 238-239, 242 Avant-garde medical text, 10 Backward-looking responsibility, 48 Band-Aid[®] solutions, 225 Basic Fatigue Management (BFM), 243 Beach Roads (advertisement), 285

(BCTs), 51 Behavioral Risk Factor Surveillance System (BRFSS), 69

Behavioral change techniques

Behavioral/behavior(s), 27, 32, 44, 70, 71, 97, 192–193, 199 associations between PWM constructs, 52-54 behavior-based interventions, 225 beliefs, 27, 45, 49, 73, 267–268, 304 change, 49-50, 135-137, 225 - 226civic virtue, 158 costs, 223 disentangling factors determining, 49 factors derived from PWM, 54 factors derived from TPB, 50 - 52hazards, 130 health-related, 46, 52 health-risk, 46 informing interventions to change, 85-87 level of internalized values, 54 - 57prevalence of, 79-82 relationships between, 82–84 self-monitoring, 246 Beliefs, 32 acceptance, 28 behavioral, 27, 45, 49, 73, 267 - 268, 304control, 27, 45, 49, 57, 76-77, 268 - 269, 304effects, 28 elicitation studies, 304 evaluation, 28 informing interventions to change, 85-87 normative, 45, 49, 75-76, 268, 304 origins, 26-29 prevalence of, 79-82

relationships between, 82-84 religious, 266-267 systems, 25–26, 27 Belonging, 291 "Best practice" approach, 239 in workplace road safety, 224 Billboards, 288 Blood alcohol content (BAC), 279 Booze Bus (advertisement), 280 Borkenstein's Grand Rapids study results, 266 Bottom-up intervention, 225 Brain Drain–Drinking Kills Driving Skills (advertisement), 279 "Brake fade", 234 Brasilia Declaration, 253–254 "Buddy" training system, 235 Bureaucratic cultures, 155 Bush Telegraph, 282 Business targets, 239

Calculative safety culture, 154 Calculative stage, 154 Causal connection, 118 Causation, 48 Causes, Ecology and Prevention of Traffic Accidents, The (Roberts), 10 Centers for Disease Control and Prevention (CDC), 4-5, 8 Centralization, 182 Chain of Responsibility (CoR), 229, 230 for safety, 239 Change Curve program, 206–208 Change management, 202 and changing culture, 201-203 Changing communication landscape, 288–291 Civic republicanism, 134 Civic virtue behavior, 158

Civil Rights Act, 136 Classic epidemiological triad, 6-7 Cognitive appraisal processes in persuasion, 307-309 Cognitive component, 118–119 Cognitive costs, 223 Collaborative leadership, 182 Commercial heavy vehicle fleets, 229 Communication, 43–44, 55 changing communication landscape, 288-291 dimension, 209 solid communication process, 200Communicator, 44 Community, 134-135, 202 behavior, 174 community-based policy and program initiatives, 131 community-nursing organization, 242 transport organization, 235 See also Consensus oriented community participation Community culture, 130 supporting change in space between, 183-185 Community level, 179 objectives, 178 Community participation central role in Traffic Safety Culture (TSC) created and consensus oriented community participation, 137 - 141current conditions and possibilities of participation, 131–137 safety culture, 130 Compliance, 44-46 direct means of gaining, 269

interventions at level of, 58-59Compliance and Enforcement legislation (C&E legislation), 230 Computerized in-vehicle early warning systems, 14 Connectedness, sense of, 291 Conscientiousness, 158 Consensus oriented community participation, 137 conditions, 139-140 developing criteria, 140 generate options, 140 weigh options against criteria, 141 Contemporary partisanship, 135 Contingent reward, 196 management, 196 Control over behavior, 269 beliefs, 27, 45, 49, 57, 76-77, 268 - 269, 304control-averse culture, 99 over outcomes, 269 Coordination technique, 177 Coping appraisal, 308 Corporate social responsibilities, 227, 240-241 strategies, 240 Could peer-to-peer education, 126 Courtesy, 158 Crash critical reason for, 24 factors, 24-25 road, 222 traffic, 23-24, 222 Critical beliefs analysis, 304 Critical self-reflection, 260 Cross-cultural scope, 260 "Cultivate self-directed responsibility for safety", 161

Cultural/culture, 32–33, 98, 119, 130, 183, 186, 192, 201, 224 - 225attitudes, 117 changes, 201–202, 206, 225, 239 control-averse, 99 cultural-based interventions, 276 culture-based approach, 34, 88, 276 factor, 97 functions, 31 implications, 186-187 leadership and relationship to, 192 - 194management, 238-240 and resistance to change, 202 - 203of safety, 6-9, 11-13 symbolic behavior, 136–137 Cynicism, 131 Data collection, 236, 237

Day-to-day basis, 232 De facto role of government, 269 Decade of Action for Road Safety, 253 Decision-making, 132-133, 140, 147, 240, 300 Democracy, 134–135 Demographic variables, 303 Department of Transportation (DOT), 138 Descriptive norms, 45 Deterrence, perceptions of, 279 Differential self-identification process, 30 Digital technology interventions, 59 Direct democracy, 134 Direct means of gaining compliance, 269

Disability-Adjusted Life Years (DALYs), 3 Disc brakes, 234 Discouraging unsafe behavior, 225 Distractions, 14 "Division of labor", 448 Domains, 175, 179 Drink driving, 278-288 Drive after using cannabis (DUIC), 86 Drivers, 120 behavior, 15, 24-25 education, 96 licensing, 96 from organizations, 225 Driving, 223 drink, 278-288 experience, 51-52 force, 153 primary task of, 223 safety culture and safety climate in, 149–152 Driving under the influence of cannabis (DUIC), 70, 82

Ecological models, 300 Ecology-based model, 35 Economic effect, 119 Economic factor, 133 Educative approaches, 285 Efficiency, 185, 225 Eight-stage change process (Kotter's (1996) model), 204 - 206Elaboration Likelihood Model (ELM), 301 Electronic Braking Systems (EBS), 231 Embeddedness, 182 Emotion(al) attitude, 99 components of attitudes, 50

emotion-based health advertising campaigns, 305 of fear, 310 in persuasion, 305–306 responses, 278 Empirical evidence, 121-124 Employee retention, 243 Employer-organization relationship, 152 Enforcement of rules, 96 Engagement, 130–131 social, 134-135 *Enjoy the Ride* campaign, 287 Environment factors, 7 Equipment standards, 232–234 Ethnographic research, 265 Ethnography, classical approach to. 265 European Agency for Safety and Health at Work (ESAW), 146 European car drivers acceptance of safety technology and enforcement, 99, 108 experienced and self-exerted behavioral control, 107, 110 factor analysis, 107 factor solutions and related total variance, 106 factor structure, 99 individual safety-relevant behavior, 110 perceptions of road users safety performance, 107-108 personal concern, 108 principal component analysis, 105 relationship between TSC and road safety outcomes, 108-109, 113-114 risk attitudes, 106-107, 109 SARTRE, 4, 96–97

survey items to operational concept, 98-105 See also Traffic safety culture (TSC) European Commission's recommendations, 97 European culture, 260–261 European Framework Program for Research and Technological Development, 96 Exchange behavior, 152 Exclusion criterion, 123 Exercise of power in Europe, 258 - 259Existential universals, 257 Expectations, 45 Experienced behavioral control, 107, 110 Explicit attitudes, 50 Extended Parallel Process Model (EPPM), 301, 307-308 External policies, 231

Fatality, 146 Fatigue management, 230, 235 Fear, 306 appeals, 278, 306 fear-based approaches, 277 Fear, uncertainty, and doubt (FUD), 202 Federal Office of Road Safety (FORS), 282 Financial threat, 278, 281 Five-star-rated vehicles, 233 Fleet management, 236 Flywheel effect, 210–211 Folk theories, 136 Formative evaluation, 311 Formative interviews, 76–77 Former appraisal, 307 Forward-looking responsibility, 48 Foucault's approach, 258, 259 Foundational approaches to change, 203 eight-stage change process, 204 - 206phases of planned change, 203 - 2044WD operator, 237 Framing hypothesis of theory, 308 Freight operators, 236 Freight routes, 231 Freight services organization, 242 Friends don't let friends drink and drive campaign, 282, 288 Full-range leadership model, 194 transactional leadership, 195-196 transformational leadership, 196 - 198Functional dimensions, 57-60 magnetic resonance imaging, 202 - 203markets, 177 universals, 256-257 G-force events, 238 Gains, 308 in road safety, 225 Gamification. 59 Generative safety culture, 154 Geography, 96 Global Plan for Decade of Action, 254 Governmentality, 258-261 Grades drivers, 239 Gross Vehicle Mass (GVM), 231 Habits, 57

formation, 52 Habitualization, 51–52 *Haddon Matrix* framework, 8 Hazards behavioral, 130 domain systems, 175 system, 130 Health behavior change, 300 behaviors, 49 health-related advertising messages, 300 health-related behaviors, 46, 52 health-risk behaviors, 46 and safety, 141 Healthy People, and Objectives for the Nation, 7 Healthy People 2020, 7-8 Heath & Heath (2010), 211 Heavy vehicle fleets, 229-231 operators, 235-236 Heavy Vehicle National Law Act 2012 (HVNL), 229, 231 Helmets, 97 High-income countries (HICs), 252, 261 transfer of HIC best practice in development agenda, 253 - 254High-risk driver behaviors, 68 Highly risk-motivated group, 303 HIV/AIDs risk behaviors, 301 Host factors, 7 Human behavior, 25 Humanitarian crisis for low- and middle-income countries (LMICs), 253 Humor, 308, 309 Humorous approaches, 310 Idealized influence, 197 Identification, 44–45 interventions at level of, 59 and PWM, 46-47

Immigration, 15 Immunization programs, 4 Implicit association test (IAT), 50 Implicit attitudes, 50 In-vehicle telematics systems, 237 Individual(ism), 98-99, 120, 185 individual-level factors, 223 individualized attention, 198 individualized consideration, 198 initiative, 159 responses, 311-312 safety-relevant behavior, 110 Industrialization, 134-135 Industry-wide safety programs, 240 Infectious diseases, 4 Inflexible deadlines for drivers. 230 Informing interventions to change beliefs and behaviors, 85 - 87Injunctive norms, 45-46 Injury, 146 Injury Control Research Centers (ICRCs), 8 Inspirational motivation, 197, 201 Institutionalization culture, 98 Institutionalized social order. 106 - 107Instrumental "best practice" programs, 131 Instrumental attitude, 99 Instrumental components of attitudes, 50 Instrumentation strategy, 123 Integrated media campaigns, 299 Intellectual stimulation, 198, 201 Intention, 25–27, 71–72 Internal policies, 232 culture management, 238-240 equipment standards, 232-234

hierarchy of road safety strategies, 232 operations management, 236 - 238personnel behavior management, 234-236 Internalization, 44, 47-48 culture, 98 interventions at level of, 59-60 level of internalized values, 54 - 57Intervention, 245 Interviewer-interviewee "transaction". 264 Investment oriented indicators, 118

Join the Drive to Save Lives (JTD) campaign, 289–290 Journey planning, 236, 237

Karma, 257, 268 Keep the Bromance Alive (advertisement), 288 Kelman's experimental scheme, 45 Laissez-faire leadership, 194-195 Large-scale survey, 96-97 Laser (advertisement), 285 Law enforcement, 35, 68, 89, 125-126, 174, 259, 277 Leader, 194, 198 Leadership, 181–182 behaviors, 193, 198 coaching, 246 impact on organizational culture, 194 impact on safety culture, 194 management vs., 193 paradigm, 196 and relationship to culture, 192

skill, 246 throughout organization, 199 - 201at top-full-range leadership model, 194-198 Learning behavior, 130 Legislated driver record-keeping requirements, 230-231 Legitimacy, 51, 132 Legitimize risky behavior, 106–107 Level of compliance, 261 Level of internalized values, 54 - 55mindfulness, 56-57 safety ethos, 55-56 Levels of attitudinal change, 43 attitudes, 44-45 compliance and TPB, 45-46 degree of attitudinal change, 43 - 44identification and prototype willingness model, 46-47 internalization, mindfulness, and ethos of safety, 47-48 Levels of value integration, 42–43 Levels of value internalization, 43, 58 Leveraging behavior change, 266 Light vehicle fleets, 231-232 Linear regression models, 84 Logbook or similar system, 234 "Loss", 308 Low-and middle-income countries (LMICs), 252, 257 application of Traffic Safety Culture (TSC) to, 258 broader context of traffic safety in, 261-263 humanitarian crisis for, 253 methodologies for characterizing and measuring TSC, 263-266

specific considerations for TSC application to, 266–269 variations among specific characteristics in, 258–266 Low-level speeding, 286

Mandatory driver induction training programs, 235 Maritime survey and consultancy organization, 243 Market theory, 177 Mass limit violations, 230 Mates Motel campaign, 282 Meaning search process, 28 "Mental scaffolding", 25 Message mediums, 289 message (content)-related characteristics, 305-310 outcomes, 312-313 self-efficacy, 308 "Message acceptance", 307, 308 "Message rejection", 307, 308 Meta-analysis, 299 Metallurgical coal miner and exporter organization, 241 Mindfulness, 47–48, 56–57 Mobile radar (advertisement), 285 Mobility, 96-97 Moral action, 201 Mothers Against Drunk Driving (MADD), 10 Motor Accident Commission (South Australia), 288 Motor vehicle injuries, 5-9 travel, 5, 13 "Motorization" of America, 5 Multi-sector coordination, 11 Multifactor Leadership Questionnaire instrument (MLQ instrument), 197

Multiple message mediums, 289 Muscle cars, 120

National Center for Injury Prevention and Control (NCIPC), 8 National contextual factors, 96 National Driver Work Diary System, 230-231 National Heavy Vehicle Regulator (NHVR), 230-231 National Highway Traffic Safety Administration (NHTSA), 8 - 9National Highway Transportation Administration, 173–174 National meteorological authority, 233, 235, 237, 239 National Motor Vehicle Crash **Causation Survey** (NMVCCS), 24 National Road Safety Partnership Program (NRSPP), 226 Negative approaches in road safety, 309-310 Negative images, 54 Network Administrative Organization (NAO), 178-181 Network leadership, 181–182 Network response change in space between organizational and community cultures, 183 - 185complex environment of traffic safety, 174-177 implications of networks and culture for change and development, 186-187 network coordination structure, 177 - 181

operational features, 181–182 Neutralization techniques, 106-107, 110 No accident/the wife (advertisement), 286 Nonsupportive culture, 152 Nontraditional stakeholders, 33 Normative beliefs, 45, 49, 75-76, 268.304 Normative elements, 50-51 Normative rationale, 133–135 Nowhere to hide campaign, 280 Occupational driving, 223 On-board telematics, 237 One-way broadcasting approaches, 288 Online campaigns, 288-291 Online communication, 288 Only a little bit over campaign, 280Open-ended continuous process, 206 Operating costs, 241–243 Operations management, 236–238 Optimism bias, 51 Organization culture, 130, 183-185 Organization(al) assumes responsibility, 199 - 200challenges, 200 change in space between community cultures and, 183-185 change programs, 206 citizenship behavior, 153 compliance, 159 culture, 202 design and development, 208 - 209flywheel effect, 210-211

leadership, 155, 194, 199 leading change at level, 208 - 209loyalty, 159 mastering change curve, 206 - 208moral action, 201 participates in transformation, 200 - 201recent thoughts on change models in, 209 safety participation, 153-155 safety research, 150 scenario thinking, 211–213 serves, 200 transformation, 201, 210 Organizational citizenship behavior (OCB), 155 dimensions of safety citizenship behavior, 158-160 research on safety citizenship behavior, 156-158 safety citizenship behaviors, safety culture and safety climate, 160-162 Outcome evaluation, 312 Overconfidence, 51 Paper system, 147 Parallel Response Model (PRM), 307 Participation, 131, 137-138 barriers to social and behavioral change, 135-137 normative rationale, 133–135 practical rationale, 132-133 traffic safety as politics, 131 Partisanship, 135-136 Partnerships, 174 Passive management by exception, 195 - 196

Passive strategies, 12 Past behavior role, 51-52Path analysis, 56 Pathological safety culture, 154 Perceived behavioral control, 27, 76 Perceived norm, 27 Perceived susceptibility, 307, 311 Perception perceptions of deterrence, 279 risk, 96-97 of road users safety performance, 107-108 of seriousness of behavior, 302 workers' perceptions of rolebehavior expectancies, 225 Performance-Based Standards scheme (PBS scheme), 231 Personal acceptance of norms, 51 Personal concern, 108, 112 Personal susceptibility, 307–308 Personnel behavior management, 234 - 236Persuasion cognitive appraisal processes in, 307 - 309role of threats and emotion in, 305 - 306Physical environment, 30, 130 Physical threat, 281 of car crashes, 278 physical-threat-based advertisements. 285 Plan of Action, 253 Planned change phases, 203-204 Planning, 237 Police Car (advertisement), 280 Political/politics culture, 134 effect, 119 factor, 133 political/organizational desirability, 264

traffic safety as, 131 Population-level road safety approaches, 223 Portfolio approach, 118 Positive approaches, 309–310 Positive emotions, 309 Positive images, 54 Positive safety culture, 239 Post-analysis of safety data, 237 - 238Practical rationale, 132–133 Practitioners implications for, 125-126, 164 recommendations for, 213–214 Pragmatic driving, 261 Pragmatic trip scheduling, 236 Pre-existing individual characteristics, 302-304 Precursor event, 26, 28 Prediction, 32 Prevention strategies, 223 Principal component analysis, 105 Proactive safety behaviors, 161-162 culture, 154 Proactive strategies, 148, 162 Process evaluation, 312 Profitability, 225 Prospect Theory, 308 Protection Motivation Theory (PMT), 307 Prototype willingness model (PWM), 46-47 associations between PWM constructs, 52-54factors derived from, 54 Prototypical/prototypes, 57 favorability, 47 image, 27, 73-75, 268 similarity, 47 Psychological/psychology models of decision making, 46

qualitative research in, 265 symbolic behavior, 136–137 theories, 42-43, 45 Psychosocial approaches, 254 - 258Public goods, 177 Public health, 4, 6-7building culture of safety, 11 - 13Center for Disease Control (CDC), 8 defining traffic safety as problem, 5 efforts in US, 7 future challenges and opportunities, 13 grassroots and global health contributions to traffic safety, 9-10 Healthy People 2020, 7–8 public health and highway safety collaboration, 10-11 special populations, 14-15 State Health Departments, 9 technologies, 14 trade-offs between safety and mobility, 13-14vision for traffic safety culture, 6 Public organizations, 180 Public policy maker, 118 Quantification approach, 56 Quantitative approach, 56 Quarry supplier organization, 241 Queensland Department of Transport and Main Roads, 280, 282, 287, 289 - 290Queensland Police Service, 283 Queenslanders, 290

Radio, 288 advertising, 289 Random breath testing (RBT), 279 Reactive safety culture, 154 Reasoned path, 46 Reciprocal Safety Culture Model, 162 Reciprocal supervisor-employee relationship, 153 Reconstruction campaign, 286 Refreezing phase, 204 Regression models, 84-85 Regulatory control, 231 Reinforcing approach, 277, 279, 299 Reliability, 69 Religious beliefs, 266-267 Remuneration, 239 Representativeness, 69 Reputation, 243–244 Resistance, 207 to change, 202-203Response efficacy, 285, 300, 305, 308, 311 Responsibility assumption, 199-200 Restraint systems, 97 Rider and elephant model, 211 Risk attitudes, 106-107, 109 behavior, 24-25, 60 driving, 303 management, 147-149 perceptions, 96-97 Road crashes, 222 Road fatalities and injuries, 252 Road infrastructure development, 254Road safety, 253 advertising's role from TSC perspective, 276-278

agencies, 289 space for drunk driving in Ghana, 264 space for helmet wearing in Vietnam, 263 training, 235 World Health Organization's (WHO) Global Status Report, 222 See also Workplace road safety Road safety advertising campaigns, 288, 297-298 design, 299-310 evaluation, 310-313 stated objectives, 298 See also Workplace road safety Road safety outcomes, 108-109 results of regression analysis, 114 standardized factor scores, 113 Road Safety Space Model (RSSM), 261–263, 269 Road Traffic Act (2012), 229-230 Road Traffic Regulations (2014), 229-230 Road trauma, 146, 222 Road users safety performance, perceptions of, 107-108, 110 Roads and Transport Authority (RTA), 279 Robust "knowledge bank" of tools and resources, 226 maintenance, 234 positive correlation, 125 Role-behavior expectancies, workers' perceptions of, 225 Rough road surfaces, 238

Safe behavior, 269 Safe conduct, 47 Safe system approach, 223-224, 226 thinking, 224 Safeguarding compliance, 59 Safer road(s) and roadsides, 224 users, 224 Safer speeds, 224, 287 Safer vehicles, 224 Safety, 43, 225 auditing, 236 civic virtue, 160 climate, 160-162 compliance behaviors, 161–162 ethos, 47-48, 55-57 legislation, 155 participation, 151 policy and practice, 225 programs, 184 safety-check policy, 234 safety-related risk management, 156 technology and enforcement acceptance, 99, 108 values, 223 Safety citizenship behavior, 146 complementary paradigm to safety culture, 163 implications for practitioners, 164 model, 162 organizational citizenship behavior and, 155–162 risk management, 147–149 Social Exchange Theory, 152 - 153theory and practical application, 152 Safety culture, 130, 160-162, 225 - 226behavior, 146-147 dependent stage of, 154

independent stage of, 154 interdependent stage of, 154 leadership's impact, 194 and level of organizational safety participation, 153-155 and safety climate in driving safety, 149-152 Safety Culture Maturity Model, 153-155, 164 Save LIVES Road Safety Technical Package, 254 Scenario thinking, 211-213 Scientific disciplines, 6 Seatbelts, 302-303 See the Light campaign, 280 Self-development, 159 Self-enforcement, 260 Self-exerted behavioral control, 107, 110 Self-identity, 29–31 Self-report survey, 304 Self-reported behavior, 66-67, 96 Senior management support, 239 Shared belief system, 32 Short Schwartz Value Survey (SSVS), 77-78 Situational control, 51 Situational factors, 51 Skepticism, 134 "Slow down and enjoy ride" message of advertisement, 287 Slow down stupid campaign, 287 Slow down/don't rush/allow time to drive slowly message of advertisement, 287 Slow-mo campaign, 286 Small marine survey and consultancy organization, 235 Smoking, 12

Snow-depth-catalyzed variation, 123 Snow-depth-instrumented analysis, 124 Social and behavior change, 291 body, 29 change, 135-137 cohesion, 118 context, 30-31 control, 99 desirability, 264 ecology, 34-36 engagement, 134-135 environment, 30-32, 130 factor, 97, 133 identity, 29-30 images, 54 media campaigns, 288-291 nature, 46 pain, 29 phenomenon, 120 psychological theories of persuasion, 300 reaction path, 46 stratification, 262 symbolic behavior, 136-137 system, 98 theory, 48 threat, 278, 281 "Social and cultural" factors, 262 Social Attitudes to Road Traffic Risk in Europe (SARTRE), 96 - 97SARTRE 4 project, 96 Social capital, 118 actually improving traffic safety, 121-124 affect traffic safety, 119-121 effects, 118 existing options and new approaches, 125-126 trust, 119

Social Exchange Theory, 152-153, 163-164 Socialization, 28-29, 98 Socio-demographic background factors, 303-304 Socio-psychological constructs, 98 Sociocultural factors, 175 Solid communication process, 200 Speed Cameras (advertisement), 285 Speed enforcement, 284 Speed tolerances in Australia, 283 Speeding, 223, 230, 278–288, 302 Speeding: No one thinks big of you (advertisement), 286-287 Sportsmanship, 158 Stakeholders, 35, 179 State health departments, 9 State-of-play with campaign evaluation. 310-311 Statistical methods, 304 Steel manufacturing organization, 239 - 240Step approach to Message Design and Testing (SatMDT), 297, 301 message (content)-related characteristics, 305-310 pre-existing individual characteristics, 302-304 Stereotype threat, 304 Stewardship, 160 Structural component, 118–119 Structured participatory processes, 132 Sudden braking, 238 Superstitions, 266-267 Supportive culture, 152 Surveys, 68 grouped items to themes and type, 100-105 items to operational concept, 98-99

Sustainable Development Goals (SDGs), 253 road safety targets, 253–254 Sustained behavior, 130 System hazard, 130

Targets for road safety, 253 "Technologies of domination". See "Technologies of power" "Technologies of power", 259 "Technologies of self", 259-260 Telematics, 236, 238 Television, 288 Text-messaging, 56 Thematic analysis, 227 Theories of persuasion and behavior change, 300-301 Theorists' Workshop model, 301 Theory of action, 42 Theory of planned behavior (TPB), 45-46, 57, 301 behavioral change interventions and, 49-50 factors derived from, 50 implicit and explicit attitudes, 50 instrumental and emotional components of attitudes, 50 normative elements, 50-51 past behavior role, 51-52 role of sanctions, 51 situational factors and situational control, 51 Third-party regulation, 227 heavy vehicle fleets, 229-231 light vehicle fleets, 231–232 strategies, 230, 234 Threats, 278 appeal, 306 appraisal, 307 of diseases, 4 in persuasion, 305-306

threat-based messages, role of, 306 - 307"3 E's" in road safety, 377 360 degree feedback, 246 Tollway operator, 241 Top-down intervention, 225 Toward Zero Deaths (TZD) National Strategy, 6 Towards Zero campaign, 290 Tracy (advertisement), 285 Trade-offs between safety and mobility, 13-14Traditional traffic safety approaches, 224 Traffic crashes, 23–24, 222 fatalities, 121 injuries, 4-5 law enforcement operations, 125-126 participants' attitudes, beliefs, and behaviors, 96-97 rules, 96 Traffic safety, 5, 23–24 complex environment, 174-177 components, 24 concerns, 176 grassroots and global health contributions to, 9-10 in LMICs, 261–263 as politics, 131 Traffic safety culture (TSC), 32-33, 42, 65, 96, 117-118, 202, 252, 262, 276, 299 analyzing, 78 belief origins, 26-29 belief systems, 25-26, 27 crash factors, 24-25 disentangling factors determining behavior, 49 - 57

humanitarian crisis for LMICs, 253 implications for practitioners, 57, 269-270 implications for researchers, 269 - 270informing interventions to change beliefs and behaviors, 85-88 interventions at level of compliance, 58-59 interventions at level of identification, 59 interventions at level of internalization. 59-60 Kelman's conceptual scheme, 42 - 43key components of combined model representing TSC, 66 levels of attitudinal change, 43 - 48measuring, 66 model predicting willingness and intention, 255 potential methods, 68-70 prevalence of beliefs and behaviors, 79-82 principles, 22-23 proposed model predicting willingness and intention, 67 psychosocial approaches, 254-258 question design, 70-78 question development process, 78 relationships between beliefs and behaviors, 82-84 relative frequencies of beliefs about crash risk, 71 social ecology, 34-36 social environment, 30-31

social identity, 29-30 specific considerations for application of TSC to LMICs. 266-269 systematic list of factors, 57–58 theorizing, 98 traffic safety, 23-24 Traffic Safety Culture (TSC)based program of strategies, 87-89 transfer of HIC best practice in development agenda, 253 - 254variations among specific characteristics in low- and middle-income countries (LMICs) context, 258-266 vision for, 6 Traffic-related behaviors, 50 Transactional leadership, 195-196 Transformation, participates in, 200 - 201Transformational leadership, 196 behaviors, 196 idealized influence, 197 individualized consideration. 198 inspirational motivation, 197 intellectual stimulation, 198 Transformative approach, 286 Transforming, 277, 285 approaches, 281-282, 299 transforming-type approaches, 279 Transition to governmentality, 260 Translation, 265 Transport(ation), 130 agency, 138 carrier organization, 242 and logistic organization, 238 Transport Accident Commission (TAC), 280

Stop anti-drink driving advertisement of 2000, 282 Transport services company, 235 organization, 239 Trust, 119, 122

Unfreezing stage, 203–204 United Nations (UN) Decade of Action for Road Safety plan, 253–254 United State (US), public health efforts in, 7–9 Unlawful conduct, 230 Urban fatal traffic incidents, 124 Urbanization, 134–135 Utility vehicle hire fleet, 237

Validity, 69 Values, 27, 77–78, 267 Vehicle miles travel (VMT), 4 Vehicle simulation system, 235 Vehicle tracking, 236 VicRoads, 281 *Vision Zero*, 6, 55, 290 policy, 48 Voice, 160

Wear-out effects, 289 Weick's concept of heedfulness, 48 Weigh options against criteria, 141 Western, Educated, Industrialized, Rich, and Democratic societies (WEIRD societies), 257 Western approach to religion, 267 Western Australian "Chain of Responsibility" (CoR), 229–230 What's your Plan B? campaign, 282

Whistleblowing behaviors, 160 Wicked problems, 174-177, 181 Willingness, 25-27, 53-54, 57, 71 Winners and Losers (advertisement), 281 Wipe off 5 campaign, 286 Work-related drivers, risk factors for. 223 Work-related road deaths, 222 safety, 147 Workers' perceptions of rolebehavior expectancies, 225 Workplace culture, 238 Workplace Health and Safety regulations (WHS regulations), 227 Workplace road safety benefits of road safety policies, 241 - 244case study focus distribution, 228 - 229enforcement, 235 limitations, 246-247 method, 226-227 practical implications, 245-247 prevention strategies, 223-224 results, 227-241 strategy hierarchy, 230 See also Road safety advertising campaigns World Health Organization (WHO), 5, 23, 146, 253, 302 Written account, 265

Zero Deaths Highway Safety Strategy, 174 "Zero tolerance" enforcement policy, 125–126