Contents

Introduction

Part I National Land and Transportation Administration for Dramatically Changing Lifestyles: Aiming for a Society where Everyone Can Shine

| Part II Trend in MLIT Policies | | | | | |
|--|------------------|----------------|--|--|--|
| Chapter 1 Initiatives towards Restora | tion and Recons | struction from | the Great East Japan Earthquake 106 | | |
| Section 1 Current Status and Measures To | | | Ensuring the Smooth Execution of | | |
| Restoration and Reconstruction | | | Reconstruction Projects110 | | |
| Section 2 Steady Recovery and Reconstru | | Section 6 | Reconstruction and | | |
| Infrastructure and Transportatio | | | Revitalization of Fukushima111 | | |
| Section 3 Promoting Post-Disaster Town | | Section 7 | Building Tsunami-resistant Communities | | |
| Reconstruction and | | | by Learning from the Great East Japan | | |
| Securing Stability of Residency | 108 | | Earthquake 111 | | |
| Section 4 Securing Local Public Transpor | | | • | | |
| and Promoting Tourism······ | 109 | | | | |
| Chantar O. Danlaying Land Infrastru | atura Transport | t and | | | |
| Chapter 2 Deploying Land, Infrastructurism Administration Ta | | | 113 | | |
| Section 1 Driving the Implementation of | | | Ploping Policies Based | | |
| a National Land Policy Package | 113 | | e Basic Act on Water Cycles 131 | | |
| Section 2 Measures, etc. against Aging So | | | Basin Management Promotion 131 | | |
| Infrastructures | | | Promotion of Policies to | | |
| Section 3 Driving the Social Infrastructure | | Section | Increase Bicycle Use132 | | |
| Development | | 1 Deve | Plopment of the Plan to Promote | | |
| Section 4 Promoting the Implementation | 110 | | Ise of Bicycles Based on the Act | | |
| of Transport Policy | 119 | | comotion of Use of Bicycles132 | | |
| 1 Developing Policies Based on the Ba | | | tion of a Safe and | | |
| Act on Transport Policy | | | fortable Environment for Bicycle Use ····· 133 | | |
| 2 Reconstructing Local Public Transpo | | | notion of Cycling Tourism | | |
| Networks | | | proving the Cycling Environment | | |
| 3 Promotion of Comprehensive | | | Efficient, Prioritized Deployment | | |
| Logistics Policy | 122 | | of Measures 134 | | |
| Section 5 Driving the Implementation of | | 1 Prom | noting i-Construction: | | |
| a Tourism Policy Package | 124 | | oving Construction Site Productivity 134 | | |
| 1 Steady Promotion of the "New Touris | | _ | ring Public Works Quality and | | |
| Strategy to Invigorate the Japanese E | | | ring and Developing Leaders 135 | | |
| | | Section 11 | | | |
| Section 6 Driving the Implementation of | | | between the Central and Local | | |
| Ocean Policy (Oceanic State) ··· | 125 | | Governments and Private Sectors 137 | | |
| 1 Steadily Driving the Basic Plan | | 1 Prom | oting Public-Private Partnerships, etc 137 | | |
| on Ocean Policy | 125 | Section 12 | Policy Evaluations, Project Evaluations, | | |
| 2 Protecting Our Country's Interests | | | and Interactive Administration 138 | | |
| in Maritime Rights and Interests | 126 | 1 Drivi | ng Policy Evaluations 138 | | |
| Section 7 Protecting Territorial Land | | 2 Imple | ementation of Project Evaluations 138 | | |
| and Territorial Waters Firmly | 128 | 3 Drivi | ng Administrative Management Open to | | |
| Section 8 Protecting Territorial Land and | | the P | ublic, and Interactive Administration 138 | | |
| Territorial Waters Firmly | 131 | Section 13 | Approaches to Hosting Tokyo 2020 | | |
| | | | Olympic and Paralympic Games 139 | | |
| Chapter 3 Realizing a World-Class T | ourist Destinati | on and Ruild | ing a Beautiful Nation140 | | |
| Section 1 Trends in Tourism | | | re All Visitors May Enjoy a Satisfying, | | |
| 1 Significance of a Tourism Nation | | | fortable and Stress-free Sightseeing | | |
| 2 Tourism Situation | | | rience149 | | |
| Section 2 Initiatives to Realize a World-C | | _ | Building a Beautiful Nation Blessed | | |
| Tourist Destination | | Section 3 | with Pleasing Landscapes, etc | | |
| 1 Enhancing the Appeal of Tourism Re | | 1 Pleas | sing Landscape Formation 153 | | |
| as a Cornerstone of Regional Revitali | | | munity Development Leveraging | | |
| 2 Innovating the Tourism Industry to B | | | re and History ······ 155 | | |
| its International Competitiveness and | | 1 vatu | 100 | | |
| It into a Core Industry | | | | | |
| | | | | | |

| Chapter 4 Promoting Regional Revitalization | | 157 |
|---|--|--------|
| Section 1 Approaches to Regional Revitalization - 157 | 1 Promoting Urban Development | |
| Section 2 Promoting Measures Supporting | by Private Sectors | ·· 170 |
| Regional Revitalization 158 | 2 Approaching National Strategic | |
| 1 Efforts Directed at Augmenting Regional | Special Districts | 171 |
| and Private Self-reliance and Discretion 158 | Section 4 Promoting Localized | |
| 2 General Endeavors to Build | Promotion Measures ····· | |
| an Intensive Urban Structure 159 | 1 Measures Directed at Heavy-snowfall Areas | |
| 3 Urban Planning and Infrastructures | 2 Promoting Remote Islands Development ······ | ·· 172 |
| Development Taking Advantage of | 3 Promoting and Developing | |
| Regional Characteristics160 | the Amami Islands and Ogasawara Islands | |
| 4 Self-Reliance and Revitalization of Wide-Area | 4 Promoting Peninsulas | ·· 172 |
| Blocks, and Formation of National Land 166 | Section 5 Promoting Comprehensive | 170 |
| 5 Promoting Regional Partnerships | Development of Hokkaido | 1/2 |
| and Interaction 168 | 1 Promoting Comprehensive Development | 170 |
| 6 Securing Means of Regional Transport 168 | of Hokkaido | |
| Section 3 Promoting the Private Urban | 2 Promoting Distinctive Regions and Cultures— | 1/6 |
| Development 170 | | |
| Chantar E Creating a Comfortable Living Chan | | 170 |
| | | 1 / 0 |
| Section 1 Realizing Affluent Residential Living 178 | 1 Developing City Parks and | 102 |
| 1 Securing Stability of Residential Living and Advancing its Betterment 178 | Creating a Good Urban Environment Advancing Roads that Prioritize Pedestrians | |
| 2 Supply and Utilization of | and Bicycle Riders | |
| Good Housing Land | Section 3 Realizing Traffic with | . 104 |
| Section 2 Realizing Comfortable Living | Enhanced Convenience | 185 |
| Environments183 | Elinaneed Convenience | 100 |
| | | |
| Chapter 6 Building Competitive Economy and Soci | ety | 188 |
| Section 1 Constructing Traffic Networks 188 | 2 Trends in Motor Truck Transport Business | |
| 1 Developing Trunk Road Networks 188 | and Measures | ·· 210 |
| 2 Constructing Arterial Railway Networks 192 | 3 Trends in Maritime Industries and Measures. | ·· 214 |
| 3 Constructing Aviation Networks 194 | 4 Trends in Air Transport Business and Measures | 220 |
| 4 Facilitating Traffic Access to Airports 200 | 5 Trends in the Consigned Freight Forwarding | , |
| Section 2 Implementing Comprehensive and | Business and Measures | ·· 220 |
| Integrated Logistics Policies 200 | 6 Trends in the Warehousing Business | |
| 1 Implementing Logistic Policies to Correspond | and Measures | ·· 221 |
| with Deepening Global Supply Chains 200 | 7 Trends in the Truck Terminal Business | |
| 2 Measures Aimed at Building an Efficient | and Measures | ·· 221 |
| and Sustainable Logistics System in Japan ···· 206 | 8 Trends in the Real Estate Business | |
| Section 3 Reactivating Industries 209 | and Measures | 221 |
| 1 Trends in Railway Industries and Measures 209 | 9 Building a Sustainable Construction Industry | 225 |
| 0 7 7 7 7 7 10 1 10 1 1 | | 000 |
| Chapter 7 Building a Safe and Comfortable Society | | 229 |
| Section 1 Realizing a Universal Society 229 | 1 Shifting to a Society with | 000 |
| 1 Realizing Accessibility through a Universal | Higher Disaster Prevention Awareness | 233 |
| Design Concept 229 | 2 Shaping National Land that is Safe and | |
| 2 Creating an Environment that Supports | Resilient to Disasters and Enhancing and | |
| Child-rearing Under an Low Birthrate Society 231 | Strengthening the Framework of | 0.40 |
| 3 Ageing Society Measures ———————————————————————————————————— | Preparedness for Crisis Management | 242 |
| | 3 Secure Transportation Systems Resistant to Disasters | . 266 |
| Pedestrian Mobility Support232 Section 2 Natural Disaster Measures 233 | Section 3 Ensuring the Safety of Architecture | |
| Dection 2 Matural Disaster Measures | because 5 Ensuring the batery of Architecture | 2/0 |

| Secti | on 4 Strengthening Safety Measures | 7 | Safety Measures for Road Traffic | 281 |
|-------|---|-----------|---|-----|
| | in the Transport Sector 271 | Section | on 5 Crisis Management and | |
| 1 | Building and Improving the Safety Management | | Security Measures | 288 |
| | System in the Transportation Business 271 | 1 | Promoting Crime and Terrorism | |
| 2 | Railway Transportation Safety Measures 272 | | Counter-measures | 288 |
| 3 | Safety Measures for Maritime Traffic 274 | 2 | Establishing a Response System | |
| 4 | Air Traffic Safety Measures 278 | | for Accident Disasters | 292 |
| 5 | Finding the Causes of Aircraft, Railway, | 3 | Ensuring Public Safety at Sea | 292 |
| | and Marine Accidents/Incidents, and | | National Security and Protecting | |
| | Preventing Recurrence 280 | | Citizens' Lives and Assets | 295 |
| 6 | Support for Victims and Families | 5 | Infectious Disease Measures | |
| | of Public Transport Accidents 280 | | | |
| Cha | pter 8 Creating and Preserving a Beautiful and | l Healthy | Environment | 297 |
| | on 1 Promoting Global Warming | | on 4 Maintenance and Restoration | |
| | Countermeasures297 | | of Sound Water Cycles | 314 |
| 1 | Implementing Global Warming | 1 | Aiming to Maintain a Society in which | |
| | Countermeasures 297 | | the Benefits of Water Can Be Savored for | |
| 2 | Promoting Global Warming | | a Long Time to Come | 314 |
| _ | Countermeasures (Mitigation Measures) 298 | 2 | Initiatives in Improving the Water Environment | |
| 3 | Promotion of the Use of Renewable Energy - 303 | | Cultivating Water and Using It Efficiently | |
| 4 | Promotion of Global Warming | | Realizing Amenity by Promoting Improvement | |
| • | Countermeasures (Adaptation Measures) 304 | • | to Sanitary Drainage | |
| Secti | on 2 Promoting the Creation of | Section | on 5 Protecting the Marine Environment | |
| Beeti | a Recycling Society 305 | Section | _ | UZZ |
| 1 | Advancing Recycling in Construction 305 | Scene | by Preventing Atmospheric | |
| 2 | Constructing a Logistics System | | and Noise Pollution | 325 |
| 2 | for Recyclable Resources 306 | 1 | | 323 |
| 2 | · · · · · · · · · · · · · · · · · · · | 1 | Policies for Environmental Issues Related to Road Traffic | 205 |
| 3 | Recycling Vehicles and Marine Vessels 308 | 2 | | 323 |
| 4 | Efforts in Green Procurement | 2 | Environmental Measures for Airports | 204 |
| 5 | Promoting the Use of | 2 | and Surrounding Areas | |
| G4: | Wooden Building Materials 309 | | Countermeasures for Railway Noise | |
| Secti | on 3 National Land Development | | Countermeasures for Urban Heat Islands | 320 |
| | That Revives and Preserves | 5 | Countermeasures for Sick Building Issue | 207 |
| 1 | the Natural Environment 309 | - | and Soil Contamination | |
| 1 | Initiatives for Biodiversity Conservation 309 | | Environmental Measures in Construction | |
| 2 | Creating Rich and Beautiful | Section | on 7 Observing, Monitoring, and Forecasting | |
| | River Environments 311 | | Changes in the Global Environment | 328 |
| 3 | Preserving and Improving | | Observing and Monitoring | |
| | Coastal Environments 312 | | the Global Environment | 328 |
| 4 | Greening Port and Harbor Administration 313 | | Research of and Predictions of | |
| 5 | Greening Roads and Promoting | | the Global Environment | |
| | Natural Environmental Measures 314 | 3 | Promoting Global Geodetic Observation | 330 |
| Cha | pter 9 Strengthening Strategic International De | evelopme | nt and Contributions | 331 |
| Secti | on 1 Promoting the Overseas Development | 2 | Contributions to and the Strategic Use | |
| | of Infrastructure Systems 331 | | of International Organizations | 344 |
| 1 | General Government Policy 331 | 3 | Multilateral and Bilateral International | |
| 2 | Initiatives of the Ministry of Land, | | Negotiations and Collaborative Initiatives in | |
| | Infrastructure, Transport and Tourism 331 | | Different Sectors | 347 |
| Secti | on 2 Promotion of International Cooperation | | on 3 Initiatives Towards International | |
| | and Negotiations 343 | | Standardization | 353 |
| 1 | Initiatives in the Field of Economic | | | |
| - | Partnerships 343 | | | |
| | 1 | | | |

| Chapter 10 Utilizing ICT and Promoting Technolog | yy Research and Development355 |
|---|---|
| Section 1 Promoting Innovation in the Fields of | 9 Efforts for Increasing Productivity in |
| Land, Infrastructure, Transport, | Business Utilizing Meteorological Data 365 |
| and Tourism Through the Use of ICT ··· 355 | Section 2 Promoting Technological Research |
| 1 Promoting ITS355 | and Development 366 |
| 2 Realizing Autonomous Driving 356 | 1 The Position of Technological Research |
| 3 Realizing a Society that Utilizes Geospatial | and Development in Technology Policies |
| Information in an Advanced Manner 359 | and Comprehensive Promotion 366 |
| 4 Realizing an Electronic Government 363 | 2 Promoting the Utilization and Adoption |
| 5 Development and Opening of Optical Fiber | of New Technology for Public Works 368 |
| for the Management of Public Facilities | Section 3 Improving Construction |
| and Its Housing Space 363 | Management Technology369 |
| 6 Sophisticated Water Management and | 1 Improving Costing Technology for |
| Water Disaster Prevention Utilizing ICT 363 | Public Works 369 |
| 7 Promoting Open Data 364 | 2 CIM and BIM Initiatives 369 |
| 8 The Use of Big Data 364 | Section 4 Technology Development for Construction |
| | Machinery and Mechanical Equipment ··· 369 |
| | |
| Oakona | |
| Column | |
| Efforts of Hiroshima Electric Railway Co., Ltd9 | Implemented First River Improvement through |
| Infrastructure in the Meiji Period 24 | National Government Since Amendment of |
| Efforts of Onan Town, Shimane Prefecture34 | the Rivers Act, and Sediment Disasters |
| Workcation37 | Countermeasures Directly Managed by the National |
| Adult Daycare-Style Cooking Studio 40 | Government in Region Afficted by the Northern |
| Intergenerational Homesharing ———42 | Kyushu Heavy Rain in July 2017 238 |
| Universal Accessibility Apps 43 | Toward Efficient High Standard |
| Promotion of the Infrastructure Future Map Project: | Levee Promotion 244 |
| Release of Kamaishi City, Iwate Prefecture Edition | Productivity Innovation Project: dam upgrading |
| - Infrastructure Future Map Kamaishi | under operation –Early Upgrading of Water |
| (Trial Edition) 117 | Utilization and Flood Control Capacities to |
| Aiming to Maximize Stock Effects | Support Local Economies———————————————————————————————————— |
| New Comprehensive Logistics Policy | Enhancing Warning and Evacuation Systems |
| Guidelines (FY2017-2020): | for Sediment Disasters |
| Working to Achieve Resilient Logistics123 | Releasing Information related to a |
| Promotion of Tourism and Regional | Nankai Trough Earthquake |
| Development through Infrastructure Tourism 142 | Initiatives Related to Railway Restoration in |
| Spread of Sound Minpaku through Enactment of | Response to More Frequent and Serious Disasters 268 |
| the Private Lodging Business Act | Practice Transporting Disaster Relief Supplies to |
| Tourist Tax to Promote Tourism | Shelters in Cooperation with Saitama City: Establishing Smooth Transportation of |
| | Relief Supplies, Including Over the 'Last Mile' ···· 268 |
| Economic Effect of Port Calls by Cruise Ships 152 Minato Oases Registrations Break | First Detection of a Gold smuggling case-into |
| the Century Mark!165 | |
| Protect Hokkaido's Production Spaces!175 | Japan through transshipment ———————————————————————————————————— |
| Realization of AI Terminals | Increasing Rapidly in Japanese Waters Called |
| Towards the Creation of LNG Bunkering Hubs 204 | Yamatotai: Ensuring the Safety of |
| | |
| Efforts to reduce Redelivery | Japanese Fishing Boats 294 MLIT Measures Against Red Imported Fire Ants 310 |
| by Home Delivery Services 208 The Future of Weather Disaster Prevention Work | |
| | Response to Water Shortage in |
| in Regional Areas | the Arakawa River System in 2017 |
| Promotion of the "Small and Medium-sized | Steps Toward the Sustainable Management of Sewer Systems 320 |
| River Project of emergency countermeasures" | |
| Including Construction of Open-type Sabo Dams | Marine Environment Conservation Promotion Activities 323 |
| and Installation of Risk Management-type Water Level Gauges236 | Strong Promotion of Top Sales 323 |
| Mary 17 Mr. Mark 2 | - OUOUS LIOUIOUOH OF TOD GAISS |

| Hosting the Coast Guard Global Summit | 351 |
|---|-----|
| Demonstration Experiments of | |
| Autonomous-Driving Services based at | |
| Michi-no-ekis in Mountainous Areas ····· | 357 |
| Japan's Standard for Gravity Values Updated for | |
| the First Time in 40 years | 359 |

- Toward the Creation of New Services and Industries Utilizing Geospatial Information ·········· 362 Enhancing On-Site Safety through the Development of Unmanned Construction Technology (i-Construction in the field of erosion prevention)···· 370
- * Maps used in this white paper may not necessarily indicate Japanese territory comprehensively.