Kumamoto Semiconductor Industry Promotion Vision Overview

Chapter I Purpose of formulation		
 As the prefecture's economic management is expected to respond immediately to economic and social changes in the post-corona/with-corona era, it was a good news for Kumamoto that ,TSMC, a world-class semiconductor manufacturer from Taiwan, has decided to build its first improvement in Japan in Kumamoto. Kumamoto Prefecture established "the Headquarters for the Promotion of Enhancement of Semiconductor Industry Cluster". Taking this opportunity, Kumamoto Prefecture will formulate the "Kumamoto Semiconductor Industry Promotion Vision," which will be a policy for future industrial promotion activities, in order to further promote not only the semiconductor industry but also other industries in Kumamoto Prefecture and realize the growth of the prefectural economy in all areas of the prefecture. 		
Chapter II Changes in the Environment Surrounding the Semiconductor Industry and Current Situation and Issues in Kumamoto Prefecture		
 (1) Changes in the social environment Changes in Industrial Structure Due to the Fourth Industrial Revolution and the Realization of Society 5.0 Accelerating digitalization in the wake of the pandemic 	 (2) Changes in the semiconductor industry Market trends in semiconductor-related industries Changes in the semiconductor market, users and applications Changes in semiconductor manufacturing technology Ripple Effects of Attracting Semiconductor Factories 	 (4) Current status of the semiconductor industry in Kumamoto The semiconductor supply chain Securing and developing semiconductor human resources The Semiconductor Innovation Ecosystem
 Changes in the environment surrounding economic security, increasing scale of natural disasters, and impact of the new coronavirus have revealed the vulnerability of supply chains. Expanding efforts for achieving SDGs 	 (3) Measures for semiconductor-related industries in other countries Trends in global supply chain construction Trends in Human Resource Recruitment and Development Trends in Semiconductor Innovation Ecosystem Construction 	 (5) Future challenges Strengthening the semiconductor supply chain Secure and develop stable semiconductor human resources Building a semiconductor innovation ecosystem
Chapter III Aim for around 2030 [Kumamoto, a region that continues to support and challenge semiconductor infrastructure]		
 (1) Kumamoto, a center that continues to supply semiconductors to the world A robust semiconductor supply chain that can respond to diverse r The first industrial cluster of three-dimensional stacked package An environmentally harmonious semiconductor industry 	 (2) Kumamoto, a hub of professionals for the semiconductor industry The world's top semiconductor professionals are gathering Each resident is familiar with semiconductors Robust human resources with connections to diverse industries 	 (3) Kumamoto, a center for creating new businesses with semiconductors at its core Creating new venture startups and industries DX/GX initiatives are accelerating in all industries An innovation ecosystem hub that connects with the rest of the world
Chapter IV Three strategies and initiatives to Realize the Ideal Model		
Strategy 1 Semiconductor supply chain resilience	Strategy 2 Ensuring a stable semiconductor Professionals and human resource development	Strategy 3 Building a semiconductor innovation ecosystem
<key initiatives=""> Seamless technical and financial support at each stage to increase companies' international competitiveness</key>	<key initiatives=""> Improving labor productivity through DX, developing practical human resources through reskilling and providing semiconductor education for a wide range of generations</key>	Key Initiatives> In collaboration with the UX Project, promoting open innovation in different fields of industry and providing matching and commercialization support for the creation of new industries
Initiatives based on strategy	Initiatives based on strategy	Initiatives based on strategy
 1-1 Further enhancing the competitiveness of pre-processes and semiconductor manufacturing equipment 1-2 Conducting R&D to create a three-dimensional stacked packaging industry (R&D of new technologies) 1-3 Build a strong, seamless semiconductor supply chain 1-4 Build a smooth semiconductor supply chain by developing transportation infrastructure such as roads and railways and utilizing transportation 1-5 Reducing Environmental Impact in the Semiconductor Supply Chain 	 2-1 Enhance practical human resource development programs through reskilling, and corporate interns 2-2 Support for unified branding of the prefectures and clarification of the required image of semiconductor talent 2-3 Support for securing human resources through the promotion of migration and settlement measures 2-4 Increase labor productivity by promoting DX 2-5 Expanding semiconductor education opportunities for residents 2-6 Enhancing semiconductor education programs through collaboration among universities, technical colleges, and 	 3-1 Ensuring matching opportunities with semiconductor exit industries 3-2 Supporting semiconductor industry-related venture startups 3-3 Strengthening Support Systems for Building an Innovation Ecosystem 3-4 Promoting DX through the use of semiconductors 3-5 Promote open innovation programs in collaboration with other industries 3-6 Promoting International Cooperation Chapter V Promoting the Vision Progress management and promotion structure

Setting targets

companies