## ULVAC's Value Creation < Priority Issues>

We are committed to realizing a society that is not only safe and secure but also affluent and convenient by offering value utilizing vacuum technology, which is indispensable for industrial and scientific development. We will continue helping to resolve social issues in cooperation with our customers through the provision of products and solutions to them.

	Social issues	Market opportunities	ULVAC's business activities							
			Priority domains		ULVAC's six businesses			Main value offered	Custom	
				Semiconductor production equipment Electronic device production equipment	FPD and PV production equipment	Components	Industrial equipment	Materials	by the business	
	<ul> <li>Progress of the smart society, advances in 5G and IoT, and establishment of network infrastructure</li> <li>Aspiration for the progress of all industries and technological innovation</li> <li>Diversification of semiconductor and electronic device applications and needs</li> <li>Trend toward devices with smaller size, more speed, larger capacity and lower power consumption</li> </ul>	Realization of the smart societyAutonomous driving, agriculture, healthcare, virtual currency, etc.Image: transformed by the smart societyImage: transformed by the smart society	See » P.27	See >>>	see <b>&gt;&gt;</b> P.30	<b>&gt;</b> 0	see <b>}&gt;</b> P.32	Response to new semiconductor and electronic device fields and needs by applying vacuum deposition and other technologies and R&D of cutting-edge processes through collaborative creation with customers	FPD, semi and devic Semicon Memory, DRAM, PCF 3D-NAND, 1 Function Sensing,	
			IoT, cloud, AI, robots, big data, drones	P.28	P.29					<b>commun</b> <b>display</b> MEMS, SAV OLED, etc.
	<ul> <li>Environmental issues, such as global warming and climate change</li> <li>Global energy issues due to dependence on finite resources</li> </ul>	<ul> <li>Progress of renewable and low- carbon energy systems</li> <li>Improvement in energy conversion efficiency</li> </ul>	Energy management, next-generation energy				see <b>≫</b> P.31		Enhancement of performance of solar cells and power devices by vacuum deposition, ion implantation and other technologies, contribution to reduction of power consumption of various devices	Solar cell battery m Energy: Heat gem power st conversi Solar cells, batteries, p magnets for
	<ul> <li>Food safety and security, population explosion and sharp increase in demand for food in emerging countries, increase in food loss</li> <li>Longevity, needs and progress of health promotion and healthcare</li> </ul>	<ul> <li>Longer preservation of food and pharmaceuticals, volume reduction</li> </ul>	Healthcare, life innovation						Longer life and volume reduction of freeze-dried food, powder vaccines, drugs, etc. by vacuum freeze drying and other technologies	Food man pharmace Foodstuf pharmac Freeze di Freeze-dried emergency supplement vaccines, et
	<ul> <li>Aging of infrastructure in developed countries</li> <li>Development of industrial infrastructure in emerging countries</li> <li>Wider gap between rich and poor</li> </ul>	<ul> <li>Development of safe, secure and comfortable infrastructure</li> </ul>	Construction, social infrastructure, mobility						Enhancement of performance of industrial materials and response to new materials by applying vacuum heat treatment and other technologies	Chemical steelmake manufactu Industrial Heat trea Glass buildi materials, ir materials, n transportati etc.

