

**Table of priorities of the Slovenian Smart Specialisation Strategy (S4) and related focus areas and technologies**

	Smart cities and communities	Smart buildings and homes, including wood chain	Networks for the transition into circular economy	Sustainable food production	Sustainable Tourism	Factories of the Future	Health - medicine	Mobility	Development of materials as end products
<b>Vertical</b>	<b>Health</b>	<b>Wood and wood chain</b>	<b>Sustainable energy</b>	<b>Raw materials and sustainable use of resources</b>	<b>Information support for marketing and networking</b>	<b>Robotic systems and components</b>	<b>Translational medicine</b>	<b>Systems for e-mobility and energy storage</b>	<b>Steels and special alloys</b>
	Smart devices, sensors and in tele-health	New wooden materials and composites to enable larger wood utilisation	Energy usage of waste material flows (W/E)	Quality management of raw materials	Digital solutions in communicating with tourists	Manufacture of new robots	Central nervous systems diseases	Systems and devices for the main electrical drivers of vehicles	Ultra-pure steels and alloys
	Smart curative	Materials and techniques to enable building construction that is environmentally friendly, energy efficient and built to withstand earthquakes	Optimization of energetic and material efficiency	Reducing environmental impacts	Digitalisation of tourism products	Innovative intelligent and sensor supported robot applications (advanced mechanical vision)	Regenerative medicine	Systems and devices for auxiliary electrical drives for vehicles	High-strength steels and their transformation
	Digital healthcare	Wooden windows, doors and lining with improved functional properties and built-in sensorics for most demanding applications	External energy sources	Risk management	ICT for business optimization	Intelligent sensors and actuators for the use of robotics	Development of advanced medicine and new delivery systems	Energy storage systems and devices and thermal management	Advanced metal materials for demanding applications
	Smart integrated healthcare and patient care system	New business models with permanent planning of furniture user value	New business models	Introduction of circular economy principles	Knowledge for enhancing the quality of services	Development and marketing of flexible and cooperative robot cells	Rare diseases	Niche components and systems for cleaner and more efficient internal combustion engines	Aluminium
	<b>Energy and other supply</b>	<b>Design and planning services to enable reuse and/or recycling of products</b>	<b>Biomass and alternative raw materials</b>	<b>Smart process planning and process control</b>	<b>Internal quality service systems</b>	<b>Intelligent laser system for hospitals and factories of the future</b>	<b>Active and healthy aging</b>	<b>Advanced data acquisition systems and devices</b>	<b>New high-strength and ultra-pure Al alloys</b>
	Energy transformation, distribution and management	Smart devices and systems	Sustainable mobilisation of biomass	Strategic management of supply chains	Technological solutions for the sustainable use of resources in accommodation facilities	Special laser sources	Smart medical devices and devices aimed at improving the quality and safety of life of older people	Advanced drivers and actuators for environmentally-friendly internal combustion engines	Alternative manufacturing methods and maximum recycling of Al
	Comprehensive support for water services	New, energy efficient and environmentally friendly products for HVAC, Cooling, Heat Pumping and Thermal Storage	Ligno-cellulose biorefinery for the isolation of extracts and polymeric building blocks of biomass	Optimization	Sustainable use of resources	Intelligent laser systems for the digital processing of materials	Autophyiotherapy	Advanced integrated components	Die cast Al alloys
	<b>Mobility, transport and logistics</b>	<b>Systems for polygeneration of energy and fuels in/on buildings with the high level of integration in the building envelope</b>	<b>Biorefinery for alternative raw materials</b>	<b>Automation and robotization</b>	<b>Waste management</b>	<b>Smart medical laser devices</b>	<b>Atrial fibrillation</b>	<b>Systems and components for safety and comfort</b>	<b>Technology</b>
	Infrastructure, smart algorithms, integration with ICT	Devices for treatment of sanitary water, black water and rain water with the high level of recovery	Secondary raw materials	Digitalisation	Technological solutions for e-mobility	Next-generation optical fibres	Resistant bacteria	Actuator systems	Rapid prototyping and additive technologies
	Building blocks of digitalized mobility in a smart community	New generation of energy efficient and user friendly household and professional appliances and systems	Processing of industrial and construction waste	Advanced equipment and technologies for production and processing of food	Technological solutions and security	High-tech Automated Smart Plasma Systems for Continuous Production	Antibacterial agents in materials	Electronic and sensor systems	Recycling (metallic materials, rare earths, composites, auxiliary materials, by-products)
	Business models, platforms, sharing economy, shared rides	New technologies based devices for the interior and lightning, including the communication and user support devices	Processing of biological waste into value products	Agricultural production	Technological solutions in smart buildings	High-tech Automated Smart Plasma Systems for Continuous Production	Biopharmaceutics	Active-passive structural components	Advanced casting technology
	<b>Security</b>	<b>Active management of buildings</b>	<b>Circular economy of material flow for electrical and electronic equipment waste</b>	<b>Manufacture of food products</b>	<b>Green Slovenian tourist scheme</b>	<b>Advanced sensors for real-time measurement of plasma processes</b>	<b>Biopharmaceutical production</b>	<b>Advanced transport and logistics including business models</b>	<b>Modern technologies for processing polymers and hybrid materials</b>
	Next generation operations centre systems, providing security to cities and local communities	Providing compatibility, connectivity and interoperability of components	Waterwaste treatment technologies and extraction of materials and energy from them	Storage and distribution	Management of natural assets and cultural heritage	Plasma reactor for rapid modification of surface properties of larger components	Development of new biological medicines and vaccines	Data-driven cooperative economy	Multicomponent smart materials
	Next-generation emergency call centres	Active building management systems with decision logic	Sustainable drinking water management	Advanced materials	Development of innovative and sustainable supply and smart management	Advanced sensors	Natural medicines and cosmetics	Logistic optimization and transport management	Multi-component smart fibers and textiles
	Smart city security surveillance systems	Adaptive self-learning device models	Functional materials	Hygiene, safety and food quality	Development of green and responsible tourism products	Advanced micro and nano sensors for process control	Medical products of plant origin	Business models for providing flexible personalized green mobility services	Composites
	Operationally-tactical security centre at the tactical-operational level	Service provider schemes and business models in the context of active building management	Sustainable composites	Hygiene and safety		3D sensor systems	Natural food supplements and cosmetics	Advanced infrastructure	Functional coatings and advanced binders (for metals)
	The quality of urban living	Advanced non-biogenic construction products	Advanced packaging/materials	Quality		Smart nano/bio/chemo sensors in the environment, industry and medicine	Development of medicines from cannabis	Digitalized and integrated infrastructure	Resins and binders
	Analytical platform for the planning, monitoring and management of environments	Smart nearly zero energy residential and non-residential units and buildings	Processes and technologies	Traceability		New materials	Cancer treatment	Charging infrastructure	Smole in veziva
	Smart city ecosystem	Advanced supporting structural elements and systems	Bio-based green chemicals and packaging materials	Legal and regulatory framework		Magnetic materials with a minimum quantity of rare earths	Development of new therapeutic approaches (gene, proton and cell therapy)	Introduction of advanced materials and technologies through the automation of production processes	
	Open integration platform for linking and developing more comprehensive solutions and common services	Multifunctional elements and systems for building envelope	Processes for the production and processing of polymers	Food, diet and the consumer		Environmentally friendly materials for protective elements in electrical engineering and electronics	Personalized advanced therapy medicines		
		Special protective and finishing materials, elements and systems	Biotechnological production of compounds	Consumer behavior		Functionally coatings			
		Materials, elements and systems for indoor environment of a higher quality	Improved production equipment with guidance	Consumer perception		Intelligent control systems			
			Continuous production of compounds	Food and health		Smart actuators			
			New production equipment with guidance	Food and tourism		Distributed management systems and IoT			
			<b>Circular business models</b>			Intelligent Production Management Systems (MES-MOM)			
			Sustainable processes and networks			Diagnostics, prognostics and self-maintenance of smart machines and processes			
						Development of modern tools and building blocks for the management and control of systems and processes			
						Smart mechatronic tools			
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					Linking simulation tools with manufacturing machines to optimize production processes				
					Advanced production process and prototype technologies				
					Smart factories				
					Optimal (individualized) comprehensive solutions for the implementation of smart factories				

