

No.	Project Team	Company	Number of Participating Companies	Main Business	Topic	Current development Level	Activity in KMSC	Qualification	Target end-product	Interest field & company
1	Ultra Light Mg Material	Posco MS Autotech Sungwoo Hitech Noroo Coil Coatings KC Chemical Glowone	6	o Surface treatment (PEO + electro painting) o Stamping & Assembly o Paint o Mg, Automobile components (roof + trunk lid)	Automobile	Lab scale	1. Presentation 2. B2B Meeting 3. Exhibition	o Automobile components - more than 50% of steel weight reduction - dimension precision ($\pm 1.0\text{mm}$) o Surface treatment technique & solution - corrosion resistance after electro painting (33 cycle) - Paint adhesion (5B)/water-tightness (5B) after electro painting	o SYMC TVVOLV roof o See brochure for more details o Automotive Parts	Automobile supplier in Germany and Europe 1) BMW München, Germany Complete vehicle 2) Benz Stuttgart, Germany Complete vehicle 3) Daimler Hamburg, Germany Complete vehicle 4) Volkswagen (Porsche, Audi) Wolfsburg, Germany Complete vehicle 5) Benteler Wolfsburg, Germany Automobile parts (structure, chassis, module)
2	Premium Keton Material	Hyosung Desco	2	o Polyketone & EP (Engineering Plastic) composite material (reinforcement(LFT, GT, MF, GF/MF, etc.)/ wear-resistance/flame resistance electricity gain/shock-resistance/ unreinforcement etc.)	Automobile	Prior to mass production stage	1. Presentation 2. B2B Meeting 3. Exhibition	o Reinforcement tensile strength (more than 180MPa) o Flame resistance (V-0 level) o Heat conduction (10W level)	o Portable speaker o Car audio o Automotive Parts, Electric & Electronic Parts, Industrial Parts	Automobile component-related companies in Germany and Europe (cooling fan, fuel door, connector, etc.)
3	Smart Coating Steel Material	Posco Noroo Coil Coatings; J&L Tech	3	o Automobile/home appliances/ smart surface treated steel (super high strength steel, MILK/HSS steel sheet/thin film coating materials for inner and outer plate)	Automobile	o Manufacture of pilot prototype/ performance-reliability evaluation	1. Presentation 2. B2B Meeting 3. Exhibition	o Dynamic coating speed : 600 $\mu\text{m}/\text{min}$ o Coating width : 1,550mm o Vacuum plate speed : 140m/min	o Connector o Pump Housing o Fuel Filler Door o Wheel Cover o Hydrogen Tank Inner Liner o Battery Gasket o LED Lamp Heat Sink o Band Cable o ATM/MTM Cable Inner Liner o surface treated steel sheets for automotive, and home appliances and construction o Lubricant coatings for Automotive o Protective coating for Appliances o Automotive parts	1) Automobile manufacturer in Germany and Europe Automobile production & sales 2) Automobile parts manufacturer in Germany and Europe Automobile parts production & sales + Wish to share plan for promoting commercialization, but in case of difficulties, plan to visit the company in person
4	Nano Carbon Composite Material	JEIO Mando LG Chem	3	o Electric bicycles wheel (High stiffness nano Carbon composite material)	Automobile	Prior to mass production stage	1. Presentation 2. B2B Meeting 3. Exhibition	o Wheel blade strength (130kgf)	o EML coil design o EML source monitoring system o High frequency power supply automatic control system for dry coating	1) Hella Regensburg, Germany Automobile parts 2) Bosch Abstatt, Germany Automobile parts 3) Valeo Bietigheim-Bissingen, Germany Automobile parts
		Hyosung Cresin	2	o Thermal conductivity materials	Automobile	Lab scale				
5	Secondary Battery Material	Samsung SDI L&F Aekyung Petrochemical	3	o LIB secondary battery cathode materials electric vehicle (NCM)	Automobile/battery	* Development level depends on products o Mass production o Technical development done, consulting with demand company o Pilot Scale	1. Presentation 2. B2B Meeting 3. Exhibition	o Energy density : 710wh/kg o Starting dose : 170~210mAh/g	o LED Heat sink o Bobbin of electronic equipment o Housing of electronic equipment o Housing of automobile	o Lithium secondary battery cell maker in Germany and Europe o Automobile supplier with Lithium secondary battery o Electric vehicle supplier in Germany o Secondary battery related to large-scale energy saver 1) Leclanche Switzerland (Headquarters) Medium and large size battery supplier 2) AKASOL GmbH Darmstadt, Germany ESS System development with LIB and supply 3) RRC Power Solutions Saar, Germany LIB pack system development and sales 4) Alpha ESS Europe GmbH Langen, Germany ESS System development with LIB and supply 5) VW-VM Amtsgerecht Ulm, Germany Automobile parts 6) Bosch München, Germany Automobile parts
		Posco Chemtech Daewoo Electronic Materials MK Electron	3	o LIB Secondary battery anode materials (Si Alloy, SiOx, Graphite, Hard Carbon)	Automobile/battery	o Lab scale o Technical development done, consulting with demand company				
		Umicore	1	o LIB Secondary battery cathode materials for ESS (NCM)	Automobile/battery	Prior to mass production stage				
6	Super Sapphire Single Crystal Material	Sapphire Technology	1	o Sapphire ingot o Sapphire board	Automobile	Mass production	1. Presentation 2. B2B Meeting 3. Exhibition	o Sapphire ingot & board for LED 4", 6" o Sapphire glass for smart phones (camera cover lens, home button, and cover glass) o Sapphire glass for smart watch	o Automotive lighting o Interior-/Exterior lighting o LED-BLU o Camera lens cover o Home button cover (finger print sensing) o Various-shaped parts o Smartwatch front & rear cover o Smartphone front cover	o LED Chip supplier in Germany and Europe o Smart phones/watch supplier in Germany and Europe
7	Bio Medical Material	Aminologies Cellumed	2	o Hydroxyglutamic acid based raw material	Bio new medicine		1. Presentation 2. B2B Meeting 3. Exhibition	o Optical purity (>99.5%) o Chemical purity (>99.5%)	o Chemical Intermediate o API o Peptide o Peptide API	o Amino acid division o Polypeptide 1) Corden Pharma Plankstadt, Germany Cooperative supply for Peptide's starting/immediate material 2) Sederna Le Perray-en-Yvelines, France Cooperative supply for cosmetic active ingredients 3) L'oreal Clichy, France Cooperative supply for cosmetic active ingredients 4) Locate Therapeutics Nottingham, United Kingdom Products made by regenerating of brain cells