

No	Achievement Name	Affiliated Entity
High-End Functional and Intelligent Materials		
1	Dielectric Materials and Devices with Ultra-High Energy Storage Density	Tsinghua University
2	Data-Driven Design and Manufacturing of Copper Alloys for Integrated Circuit Lead Frames	University of Science and Technology Beijing
3	A High-Sensitivity Entropy-Regulated Amorphous Alloy Stress-Impedance Strain Gauge for Seismic Disaster Prevention of Buildings	Nanjing University of Science and Technology
4	Precious Metal Reduction Technology for Selective Hydrogenation	Zhejiang University
5	Complete Preparation Technology of Liquid Cooling Thermal Management Materials	Juhua Group Co., Ltd.
6	Single-Phase Immersion Liquid Cooling Solution for Data Centers	Juhua Group Co., Ltd.
7	Innovative Integration of New Electromagnetic Materials for 450km/h High-Speed Train Traction Motors	National High-Speed Train Qingdao Technology Innovation Center
8	Aviation Fuel Coalescence Separation Device	South China University of Technology
9	Inorganic Two-Dimensional Material Membranes for Efficient Hydrogen Separation	South China University of Technology
Advanced Structural and Composite Materials		
10	Sound-Absorbing Honeycomb and Its	AVIC Manufacturing Technology

	Composite Material Preparation Technology	Institute
11	Development of Wear-Resistant, Fatigue-Resistant, and Corrosion-Resistant Rails and Turnouts for the Sichuan-Tibet Railway and R&D of Complete Application Technology	China Academy of Railway Sciences Corporation Limited
12	Key Technology for Maintaining Long-Term Performance of Structural Concrete in Complex Environments of the Sichuan-Tibet Railway	China Academy of Railway Sciences Corporation Limited
13	High-Performance Technology of Shotcrete in Complex Environments of the Sichuan-Tibet Railway	China Academy of Railway Sciences Corporation Limited
14	Key Technology for Improving Crack Resistance of Structural Concrete in Complex Environments of the Sichuan-Tibet Railway	China Academy of Railway Sciences Corporation Limited
15	Technology and Application of Recycled Coarse Powder for Superalloy Powder Production	AECC Beijing Institute of Aeronautical Materials
16	Large-Tonnage Carbon Fiber Composite Cables	University of Science and Technology Beijing
17	Multi-Layer Gradient Cold Spray Repair and Nano-Hardening Composite Plating Technology for Continuous Casting Molds	Ansteel Group Beijing Research Institute Co., Ltd.
18	Key R&D Technology and Application Development of High-Stiffness Magnesium Matrix Composites	Harbin Institute of Technology
New Display and Strategic Electronic Materials		
19	Sub-6GHz GaN RF Devices	The 13th Research Institute of China Electronics Technology Group Corporation

20	High-Frequency and High-Power Laser Modulator Technology	Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences (CAS)
Rare Earth New Materials		
21	Preparation Technology of High-Temperature-Resistant Cobalt-Based Permanent Magnetic Materials Series	China Jiliang University
22	Key Technology of Heavy Rare Earth-Free Sintered NdFeB with High Coercivity	Ningbo Institute of Materials Technology and Engineering, CAS
High-Performance Manufacturing Technology and Major Equipment		
23	6-Inch Semi-Insulating SiC Crystal Growth Furnace, 6/8-Inch (Compatible) SiC Epitaxial Furnace	Beijing NAURA Microelectronics Equipment Co., Ltd.
24	New MOCVD Equipment for Micro-LED	Advanced Micro-Fabrication Equipment Inc. China (Shanghai)
25	Precision Forming Technology for Large-Scale Aerospace Thin-Walled Aluminum Alloy Integral Cylinders	Shanghai Aerospace Precision Machinery Institute
26	High-Temperature and Corrosion-Resistant Transmission System Bearings	Luoyang Bearing Group Co., Ltd.
27	High-Performance Seals for Aviation Hydraulic Systems	Guangzhou Mechanical Engineering Research Institute Co., Ltd.
28	Key Manufacturing Technology of Extra-Large-Size Seamless Titanium Cathode Rolls	Xi'an Taijin New Energy Technology Co., Ltd.
Intelligent Sensors		
29	Advanced Sensors, Core Components and Manufacturing Processes for Spacecraft Control	Beijing Institute of Control Engineering

	Systems	
30	Flexible Intracranial Implantable Multi-Modal Integrated Sensing and Regulation Technology System for Intracranial Multi-Parameter Detection	Aerospace Information Research Institute, CAS
31	Self-Powered Key Technology for Human Health Monitoring Sensors	Beijing Institute of Nanoenergy and Nanosystems
32	High-Sensitivity MEMS Magnetic Sensitive Elements and Sensors	State Grid Smart Grid Research Institute Co., Ltd.
33	Miniature High-Performance Accelerometers	Beijing Aerospace Xinghua Technology Co., Ltd.
34	Rocket Sensors	China Aerospace Long March Rocket Technology Co., Ltd.
35	New Broadband ng-Resolution Triaxial Accelerometers	Tianjin Siasun Robot Automation Co., Ltd.
36	Automotive-Grade High-Precision Integrated Navigation Sensors	Hebei Meitai Electronics Technology Co., Ltd.
37	Series of Deep-Sea Environmental Observation and Resource Exploration Sensors	Shenyang Institute of Automation, CAS
38	Multi-Parameter Differential Pressure Flowmeters	Shenyang Zhongke Boway Technology Co., Ltd.
39	Sensing Interface Quantitative Model and Quantitative Analysis Instrument Technology Based on Resonant Cantilever Beams	Shanghai Institute of Microsystem and Information Technology, CAS
40	High-Performance X-Ray Sensors	Yiray Electronic Technology Group Co., Ltd.
41	Electromagnetic Sensors	Xinlian Superconducting (Shanghai) Technology Co., Ltd.

42	A Thin-Film Getter Structure with a Micro-Heater and Its Manufacturing Method	Shanghai Xinwei Technology R&D Center Co., Ltd.
43	High-Performance Sound-Sensitive Elements and Sensors	Wuxi Weigan Semiconductor Co., Ltd.
44	New High-Performance MEMS Gas Sensors	Suzhou Huiwen Nano Technology Co., Ltd.
45	MEMS Sensor Mass Production Platform	Corelink Integrated Circuit Manufacturing Co., Ltd.
46	Development and Application of Diamond Quantum Magnetic Sensors	University of Science and Technology of China
47	In-Situ Continuous Temperature Measurement Sensors and Measurement Systems for Molten Steel	Maanshan Iron & Steel Co., Ltd.
48	High-Performance Laser Gas Sensing Modules	Shandong Kechuang Group Co., Ltd.
49	Key Technology and Application of Biosensor Sensitive Elements	Shandong Kanghua Biomedical Technology Co., Ltd.
50	Polymer Precursor Ceramic Metamaterial Wireless Passive Temperature Sensors	Zhengzhou University
51	High-Precision Inkjet Printing Technology and Equipment for Ultra-Fine Fiber Surfaces	Huazhong University of Science and Technology
52	Complete Set of Sensors for High-Speed Railway Vehicle Health Monitoring Systems	CRRC Zhuzhou Electric Locomotive Research Institute Co., Ltd.
53	Industrializable and Mass-Producible Automotive-Grade Solid-State LiDAR for Autonomous Driving	Shenzhen RoboSense Technology Co., Ltd.

54	Sense-Compute Integration Room-Temperature Infrared Imaging Detection Technology	Chongqing Institute of Green and Intelligent Technology, CAS
55	Nano-Precision Displacement Measurement Grating Sensors	Xi'an Jiaotong University
56	Distributed Thin-Film Sensors for Highway Infrastructure	AVIC Measurement & Control Technology (Xi'an) Co., Ltd.
Industrial Software		
57	Core Components of Industrial Internet Operating System for Discrete Industries	Beijing Institute of Technology
58	Data-Driven Closed-Loop Performance Analysis, Regulation and Optimization Technology and Software for Manufacturing Processes	University of Science and Technology Beijing
59	Industrial Data Intelligent Analysis and Decision-Making System for the Whole Process of Discrete Manufacturing	Beihang University
60	Distributed Time-Series Data Management System Apache IoTDB	Tsinghua University
61	Basic Theories and Methods of Edge Control and Real-Time Simulation Based on MEC	Shenyang Institute of Automation, CAS
62	Service-Oriented MES and Intelligent Management & Control Platform System Based on Cloud Architecture	Beijing Xiaomi Mobile Software Co., Ltd.
63	Domestic Isogeometric Analysis Software ADIGA	Dalian University of Technology
64	Distributed Factory Industrial Internet Platform	Shanghai Aircraft Manufacturing Co., Ltd.

65	Industrial Internet Platform for Customized Production Industry	Guangzhou Minluo Equipment Co., Ltd.
66	End-Edge-Cloud Interconnection Integration Technology and System for OT-IT Convergence	Shenzhen Institutes of Advanced Technology, CAS
67	Industrial Internet Platform for Large-Scale Manufacturing Industry	Zhuhai Gree Electric Appliances Inc.

Pilot Entities

No.	Entity Name	Recommending Department
Regional Pilot Entities		
1	Shijiazhuang High-Tech Industrial Development Zone Administrative Committee	Hebei Provincial Department of Industry and Information Technology
2	Baotou Rare Earth High-Tech Industrial Development Zone Administrative Committee	Inner Mongolia Autonomous Region Department of Science and Technology
3	Dalian High-Tech Industrial Development Zone Administrative Committee	Liaoning Provincial Department of Science and Technology
4	Administrative Committee of Shengfu Reform and Innovation Demonstration Zone, Liaoning Province	Liaoning Provincial Department of Industry and Information Technology
5	Science and Technology Commission of Baoshan District, Shanghai (Joint Meeting Office of Baoshan Park Management of Zhangjiang High-Tech Industrial	Shanghai Municipal Science and Technology Commission

	Development Zone)	
6	Wuxi Municipal Bureau of Science and Technology	Jiangsu Provincial Department of Science and Technology
7	Administrative Committee of Wuxi Huishan Economic and Technological Development Zone	Jiangsu Provincial Department of Science and Technology
8	Administrative Committee of Yixing Economic and Technological Development Zone	Jiangsu Provincial Department of Science and Technology
9	Administrative Committee of Changzhou National High-Tech Industrial Development Zone	Jiangsu Provincial Department of Science and Technology
10	Administrative Committee of Kunshan High-Tech Industrial Development Zone	Jiangsu Provincial Department of Science and Technology
11	Administrative Committee of Lianyungang High-Tech Industrial Development Zone	Jiangsu Provincial Department of Science and Technology
12	Administrative Committee of Yancheng High-Tech Industrial Development Zone	Jiangsu Provincial Department of Science and Technology
13	Ningbo Municipal Bureau of Science and Technology	Zhejiang Provincial Department of Economy and Information Technology
14	Administrative Committee of Ningbo High-Tech Industrial Development Zone	Zhejiang Provincial Department of Economy and Information Technology
15	Huzhou Municipal Bureau of Science and Technology	Zhejiang Provincial Department of Economy and Information Technology
16	Administrative Committee of Xiamen Torch High-Technology Industrial Development Zone	Fujian Provincial Department of Science and Technology

17	Administrative Committee of Jingdezhen High-Tech Industrial Development Zone	Jiangxi Provincial Department of Science and Technology
18	Zhengzhou Municipal Bureau of Science and Technology	Henan Provincial Department of Science and Technology
19	Administrative Committee of Anyang High-Tech Industrial Development Zone	Henan Provincial Department of Science and Technology
20	Administrative Committee of Xiangyang High-Tech Industrial Development Zone	Hubei Provincial Department of Science and Technology
21	Administrative Committee of Changsha High-Tech Industrial Development Zone	Hunan Provincial Department of Science and Technology
22	Dongguan Songshan Lake High-Tech Industrial Development Zone	Guangdong Provincial Department of Science and Technology
23	Administrative Committee of Chongqing Liangjiang New Area	Chongqing Municipal Commission of Economy and Information Technology
24	Administrative Committee of Chongqing High-Tech Industrial Development Zone	Chongqing Municipal Commission of Economy and Information Technology
25	Administrative Committee of Chengdu High-Tech Industrial Development Zone	Sichuan Provincial Department of Science and Technology
26	Administrative Committee of Xi'an High-Tech Industrial Development Zone	Shaanxi Provincial Department of Industry and Information Technology
Industrialization Implementation Pilot Entities		
1	Nankai University	Tianjin Municipal Bureau of Science and Technology
2	Tangshan Iron and Steel Group	Hebei Provincial Department of

	Co., Ltd.	Science and Technology
3	Antai (Bazhou) Special Powder Industry Co., Ltd.	Hebei Provincial Department of Industry and Information Technology
4	China Northern Rare Earth (Group) High-Tech Co., Ltd.	Inner Mongolia Autonomous Region Department of Science and Technology
5	Baotou Rare Earth Research Institute	Inner Mongolia Autonomous Region Department of Science and Technology
6	Shenyang Turbine Machinery Co., Ltd.	Liaoning Provincial Department of Industry and Information Technology
7	Siasun Robot & Automation Co., Ltd.	Liaoning Provincial Department of Industry and Information Technology
8	Shenyang University of Technology	Liaoning Provincial Department of Science and Technology
9	Shenyang University of Chemical Technology	Liaoning Provincial Department of Industry and Information Technology
10	Dalian Institute of Chemical Physics, CAS	Liaoning Provincial Department of Science and Technology
11	Shanghai Research Institute of Chemical Industry Co., Ltd.	Shanghai Municipal Science and Technology Commission
12	Shanghai Hanjie Technology Development Co., Ltd.	Shanghai Municipal Commission of Economy and Information Technology
13	Jiangyin Xingcheng Special Steel Co., Ltd.	Jiangsu Provincial Department of Science and Technology
14	Yinbang Metal Composite Materials Co., Ltd.	Jiangsu Provincial Department of Science and Technology
15	Wuxi Zhongwei Microelectronics Park Co., Ltd.	Jiangsu Provincial Department of Science and Technology

16	Fasten Group Co., Ltd.	Jiangsu Provincial Department of Science and Technology
17	Jiangsu Yinhuai Precision Steel Tube Co., Ltd.	Jiangsu Provincial Department of Science and Technology
18	Tianmu Lake Advanced Energy Storage Technology Research Institute Co., Ltd.	Jiangsu Provincial Department of Industry and Information Technology
19	Jiangsu Lianrui New Materials Co., Ltd.	Jiangsu Provincial Department of Science and Technology
20	Ningbo CRRC Times Sensing Technology Co., Ltd.	Zhejiang Provincial Department of Science and Technology
21	Ningbo Volcan Technology Co., Ltd.	Zhejiang Provincial Department of Science and Technology
22	Hefei Institutes of Physical Science, CAS	Anhui Provincial Department of Industry and Information Technology
23	Inspur Computer Technology Co., Ltd.	Shandong Provincial Department of Science and Technology
24	Qingdao Raycus Innovation Technology Co., Ltd.	Shandong Provincial Department of Science and Technology
25	Rare Earth Catalysis Innovation Research Institute (Dongying) Co., Ltd.	Shandong Provincial Department of Science and Technology
26	Longmen Laboratory	Henan Provincial Department of Science and Technology
27	Wuhan Guochuangke Optoelectronic Equipment Co., Ltd.	Hubei Provincial Department of Economy and Information Technology
28	Wasion Information Technology Co., Ltd.	Hunan Provincial Department of Science and Technology
29	Zhuzhou Keneng New Materials Co., Ltd.	Hunan Provincial Department of Industry and Information Technology

30	Guangdong National Innovation Center for the Guangdong-Hong Kong-Macao Greater Bay Area	Guangdong Provincial Department of Science and Technology
31	China Coal Technology and Engineering Group Chongqing Research Institute Co., Ltd.	Chongqing Municipal Bureau of Science and Technology
32	Chongqing Materials Research Institute Co., Ltd.	Chongqing Municipal Commission of Economy and Information Technology
33	China Automotive Engineering Research Institute Co., Ltd.	Chongqing Municipal Bureau of Science and Technology
34	Chongqing Shanwai Shan Blood Purification Technology Co., Ltd.	Chongqing Municipal Commission of Economy and Information Technology
35	Chengdu Aircraft Industrial (Group) Co., Ltd.	Sichuan Provincial Department of Science and Technology
36	Chengdu Jiujin Technology Co., Ltd.	Sichuan Provincial Department of Science and Technology
37	Walton Technology Co., Ltd.	Guizhou Provincial Department of Industry and Information Technology
38	Northwest Institute for Nonferrous Metal Research	Shaanxi Provincial Department of Industry and Information Technology
39	Xi'an Aerospace Electromechanical Intelligent Manufacturing Co., Ltd.	Shaanxi Provincial Department of Industry and Information Technology
40	Xi'an Jiaotong University	Shaanxi Provincial Department of Science and Technology
41	Northwestern Polytechnical University	Shaanxi Provincial Department of Industry and Information Technology
42	Shared Intelligent Equipment Co., Ltd.	Ningxia Hui Autonomous Region Department of Industry and Information Technology
43	Wuzhong Instrument Co., Ltd.	Ningxia Hui Autonomous Region

		Department of Science and Technology
Third-Party Service Pilot Entities		
1	MIIT Industrial Development Promotion Center	Beijing Municipal Bureau of Economy and Information Technology
2	China Mechanical and Electrical Equipment Tendering Center (MIIT Government Procurement Center)	Beijing Municipal Bureau of Economy and Information Technology
3	China Machinery Industry Federation	Beijing Municipal Commission of Science and Technology
4	Tsinghua Tongfang Technology Innovation Co., Ltd.	Beijing Municipal Commission of Science and Technology
5	Tianjin Tiankai Development Group Co., Ltd.	Tianjin Municipal Bureau of Science and Technology
6	Baoding Zhongguancun Information Valley Technology Service Co., Ltd.	Hebei Provincial Department of Industry and Information Technology
7	Wuxi Industrial Innovation Research Institute	Jiangsu Provincial Department of Science and Technology
8	Jiangsu Jicui Advanced Metal Materials Research Institute Co., Ltd.	Jiangsu Provincial Department of Science and Technology
9	Danyang High-Tech Entrepreneurship Service Co., Ltd.	Jiangsu Provincial Department of Science and Technology
10	Zhejiang University Science Park Development Co., Ltd.	Zhejiang Provincial Department of Economy and Information Technology
11	Shandong Kechuang Group Co., Ltd.	Shandong Provincial Department of Science and Technology
12	Wuhan Huazhong University of Science and Technology Science	Hubei Provincial Department of Economy and Information Technology

	Park Development Co., Ltd.	
13	Hubei Technology Exchange	Hubei Provincial Department of Science and Technology
14	Greater Bay Area Science and Technology Innovation Service Center (Guangzhou) Co., Ltd.	Guangdong Provincial Department of Science and Technology
15	Guangzhou Productivity Promotion Center Co., Ltd.	Guangdong Provincial Department of Science and Technology
16	Chongqing High-Tech Industry Research Institute Co., Ltd.	Chongqing Municipal Commission of Economy and Information Technology
17	Chengdu Economic and Technological Development Zone Science and Technology Industry Incubation Co., Ltd.	Sichuan Provincial Department of Economy and Information Technology
18	Shaanxi Northwestern Polytechnical University Science Park Co., Ltd.	Shaanxi Provincial Department of Industry and Information Technology
19	Qinchuangyuan (Yan'an) Innovation Promotion Center (Yan'an High-Tech Entrepreneurship Service Center)	Shaanxi Provincial Department of Industry and Information Technology
Financial Service Pilot Entities		
1	Beijing CAS Star Venture Capital Management Partnership (Limited Partnership)	Beijing Municipal Bureau of Economy and Information Technology
2	CITIC Juxin (Beijing) Capital Management Co., Ltd.	Beijing Municipal Commission of Science and Technology
3	China Petrochemical Corporation Capital Co., Ltd.	Beijing Municipal Commission of Science and Technology
4	Bank of Beijing Co., Ltd.	Beijing Municipal Commission of Science and Technology

5	Postal Savings Bank of China Co., Ltd.	Beijing Municipal Commission of Science and Technology
6	Bohai Bank Co., Ltd.	Tianjin Municipal Bureau of Science and Technology
7	Bank of Tianjin Co., Ltd.	Tianjin Municipal Bureau of Science and Technology
8	China Construction Bank Corporation Tianjin Branch	Tianjin Municipal Bureau of Science and Technology
9	Bank of Communications Co., Ltd. Dalian Branch	Liaoning Provincial Department of Science and Technology
10	People's Insurance Company of China Limited Dalian Branch	Liaoning Provincial Department of Science and Technology
11	Jiangsu Equity Exchange Co., Ltd.	Jiangsu Provincial Department of Industry and Information Technology
12	People's Insurance Company of China Limited Zhejiang Branch	Zhejiang Provincial Department of Science and Technology
13	Hunan Lushan Science and Technology Investment Co., Ltd.	Hunan Provincial Department of Industry and Information Technology
14	Bank of China Co., Ltd. Shenzhen Branch	Guangdong Provincial Department of Science and Technology
15	Guangxi Beibu Gulf Bank Co., Ltd.	Guangxi Zhuang Autonomous Region Department of Science and Technology
16	Guangxi ASEAN Technology Transfer Center	Guangxi Zhuang Autonomous Region Department of Science and Technology
17	Huake Financial Leasing Co., Ltd.	Chongqing Municipal Bureau of Science and Technology
18	Shaanxi Venture Capital Association	Shaanxi Provincial Department of Science and Technology

19	Shaanxi Equity Exchange Co., Ltd.	Shaanxi Provincial Department of Industry and Information Technology
20	Ping An Property & Casualty Insurance Company of China, Ltd. Shaanxi Branch	Shaanxi Provincial Department of Science and Technology