

Yangpu to Create a "Model Room" Focused on Technology Trading

By Mao Xinhui

Yangpu District has recently been approved by the China Association for Science and Technology as one of the first 22 "Innovation China" trial cities or districts. As the only trial district of Shanghai, Yangpu District this year will innovate itself as a model of technology-fueled economy focused on technology trading, leveraging its strengths around major industries within the district.

Yangpu District is the home to a cluster of higher education institutions and research institutes, including Fudan University, Tongji University, the University of Shanghai for Science and Technology, Shanghai Ocean University and many more. Higher education institutions have long been the source of technological innovation, and backed by fiscal funding to start projects and produce outcomes. How are these outcomes traded? How to determine their ownerships and prices? These are the questions that must be answered if technologies are to be industrialized, as technology trading is crucial to the transferring of

technological outcomes.

To attack these "pain spots," according to the District Association for Science and Technology, Yang District has partnered with the Shanghai Technology Exchange and National Eastern Tech-transfer Center to build within the district an economy propelled by technology development, with technology trading at its very core. The specifics are: signing research outcome management agreements with higher education institutions and technological research institutes, mining high-quality technological outcomes, designing technological outcome bank mini-program, introducing online road show platform, promoting practical technologies both online and offline, and lectures and training, creating an online-offline technology trading ecosystem.

Yangpu District also plans to build regional innovation and collaborative innovation organizations. Currently, it has already had the Association of the Yangtze River Delta Region "Crowd Entrepreneurship and Innovation" Model Bases, which issues a coupon that enables cross-region procurement to busi-

nesses in four districts on a trial basis: Yangpu District, Shanghai, Wujin District of Changzhou City, Jiangsu Province, Nanhu District of Jiaxing City, Zhejiang Province, and the High-tech Industrial Development Zone of Hefei City, Anhui Province. The coupon can be used and cashed in other districts, which will further the sharing of technology resources and synthesized innovation and development within the Yangtze River Delta region. At the same time, with Tongji University, the University of Shanghai for Science and Technology, and Shanghai Ocean University as its foundation, Yangpu District will focus on the development of three areas: Artificial Intelligence, Artificial Manufacturing, and Bio-Technology, and collaborate with national and local associations to facilitate cross-industry partnerships between companies and service organizations, providing services for transferring technological outcomes, helping local organizations introduce talent and technology, helping businesses achieve technological and industrial upgrading, and promoting the clusterization of industrial chains.

Medical Equipment Industry Chain to be Built in Yangpu

By Shang Li

From a small surgical suture needle to robot-assisted anesthesia, and to the development and production of various medical equipment, these are all big health issues that matter to a country's development and its people's lives.

Facing a dilemma that China has been heavily relying on importing medical equipment, especially those high-end medical equipment, the University of Shanghai for Science and Technology (USST) and the School of Medicine of Shanghai Jiaotong University have recently taken the initiative to host the forum of "Medical Science and Engineering Cross-Innovation in a Post-pandemic Era" with Shanghai Institute of Microsystem and Information Technology and SIMIC Holdings, and the four parties have signed an agreement to collaboratively build an "Medical Equipment Innovation and Transferring Platform." The platform will pool together resources from universities, businesses, hospitals, regulation authorities, and research institutes, conduct cross-disciplinary research based on the urgent needs of medical care, focus on developing high-end medical equipment or materials that we urgently need in clinical medicine but heavily rely on imports, and make major breakthrough in core medical equipment technology, creating a closed industrial loop for medical equipment production that starts from hospitals, then universities, research institutes, businesses, and ends again at hospitals.

According to USST, the university's focus is on three major development areas that include integrated circuit, artificial intelligence, and biomedicine, and the university will leverage its strengths in certain disciplines to promote the interdisciplinary development of medicine and engineering and facilitate the transferring of industrial outcomes. Drawing from the resources of the two universities and two organizations, the platform will quicken its pace in developing core technology and overcome the "bottleneck" issue, entering a new stage of combining the strengths of universities, businesses, and research institutes to facilitate the practical application of technology, while helping the swift transferring of medicine and engineering interdisciplinary outcomes. With great support from Yangpu District and Shanghai City, a blueprint of an industrial belt of medical equipment is unfolding around USST. A complete chain of medicine and engineering interdisciplinary innovation will certainly rise as an industrial supply system with distinct features and strong functions, pushing China's medical equipment development to a new direction of high-end production, and refined and quality products, and protecting Chinese

people's health and lives.

According to the person-in-charge of Yangpu District, Yangpu District is currently taking its regional advantage in higher education and science resources, exploring the methods of unleashing the innovation potential of higher education institutions and research institutes, and planning the layout of the industrial chain based on the innovation chain. It is Yangpu District's hope that the platform can help establish a new model of cross-disciplinary innovation between universities, businesses and research institutes for medical equipment production, and further the collaboration between the district and the universities, helping Yangpu become a source of science and technology innovation in Shanghai, and even China, and contributing wisdom and strength to Shanghai becoming "a global hub of science and innovation." The development of high-end medical equipment involves disciplines such as clinical medicine, optical engineering, biomedical engineering, mechanical engineering, and materials science and engineering, and the complexity of cross-disciplinary problems requires the combination of medicine and engineering.

Last September, USST and the Medicine School of Shanghai Jiaotong University jointly established the "Interdisciplinary Innovation Institute for Medicine and Engineering," which operates by sending direct needs from clinical hospitals in the form of "request forms" to universities, and upon receiving the request forms, universities will form science and research teams to quickly solve these problems. Eight months since its establishment, the Institute has had 5 project that have entered the industrialization period, 14 projects that are in the process of industrialization, and 36 projects that are in the process of development. The Covid-19 pandemic has also highlighted the importance of the Institute. 39 collaboration projects have been raised by the affiliated hospitals of the School of Medicine of Shanghai Jiaotong University with the USST, and were responded swiftly. As the leader of the integrated circuit industry in Shanghai, Shanghai Institute of Microsystem and Information Technology has partnered with SIMIC Holdings to venture into the medical industry, focusing on the transferring and application of core technology such as sensors in medical equipment area.

The joint establishment of the medical equipment innovation and transferring platform has met the needs of a new global wave of technological revolution and industrial transformation, and is a strategic win in the development of the big health industry. It will also add industrial power to the subsequent medicine-engineering interdisciplinary projects for their quick taking-offs.



Experience 5G Life Feel Sci-Tech

By Gao Liang

Recently, "China Unicom 5G-lit Business District--Preferential High Shopping, Brilliant Gathering" was held in the Wujiaochang Plaza, and a variety of interactive 5G experience activities put participating citizens in high spirits.

At 10 in the morning, Wujiaochang Plaza was thronged with people. Wujiaochang's 5G smart CBD experience officers recruited by Shanghai Unicom, along with Shanghai Unicom's 5G masters, experienced 5G terminals, VR, cloud games, smart homes and other 5G applications together. Experience officers also act as Shanghai Unicom's official

Tik Tok MCs to explore the stores, intuitively experience ultra-fast 5G network and diverse scenario applications via 5G live broadcasting, and feel the temperature of science and technology at hand.

In the 5G era, Color Ring Back Tone (CRBT) also witnesses new play and experience, as "listening CRBT" has evolved into "seeing CRBT". On the scene, Yangpu District Government joins forces with Shanghai Unicom to launch exclusive 5G video CRBT of Yangpu, and showcase the innovative style of Yangpu in a high-definition and smooth manner. It is reported that China Unicom's 5G video CRBT perfectly combines native advantages of short video, CRBT

and terminal, and grows into the strongest music carrier for operators. Relying on creation of self-controlled short video portal, video CRBT makes every call a touch point of interaction and publicity, to render more precise efficient social contact and promotional campaign. Up to date, China Unicom's 5G video CRBT users have reached 10 million, and it is expected to exceed 100 million by the end of this year.

Besides, it is said that Shanghai Unicom will carry out 5G appreciation experience activities across 15 business halls in the city. Citizens can choose nearby halls to experience 5G mobile phones, as well as VR, cloud games and other 5G applications.