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• Driverless taxis debut in Jiading District

Robotaxi manufactured by SAIC was launched in Jiading earlier this month, the first L4-level driverless operation platform that provides a completely driverless experience. It is equipped with three radars to recognize the surrounding environment and form images. There will be 40 Robotaxis by the end of this year, and 20 cars will be put into use in Suzhou in neighboring Jiangsu Province. It is estimated there will be 200 Robotaxis after landing in Shenzhen, Guangdong Province, in 2022.
— Li Ping

Innovative heart valve solution used successfully in operation

Staff Reporters

SHANGHAI'S first transcatheter heart valve replacement, or TAVR, surgery has been conducted using the most recently approved product made by Shanghai Kindly Medical Instruments Co Ltd which affiliated to Shanghai Kindly Enterprise Development Group, both based in Jiading.

The TAVR product, made by Shanghai Kindly Medical Instruments, was used for an 88-year-old man suffering from severe aortic valve insufficiency.

"This valve can autonomously

locate the aortic sinus floor, just like the leap in a car from manual gear to automatic gear," said Ge Junbo, surgeon of the operation and a leading cardiologist in China.

The surgery using the TAVR was carried out in a shorter time and dramatically reduced risk.

"This innovative valve product allows patients to be treated without large incision, and they can be discharged three or four days after the operation, with faster subsequent recovery time," said Wang Cailiang, executive director and vice president of Shanghai Kindly

Medical Instrument Co.

Development of the TAVR involved closely coordination between doctors and engineers, a concept promoted by the Center for Cardiovascular Innovations.

Liang Dongke, chairman of Shanghai Kindly Medical Instrument Co, learned about the original TAVR idea from clinician Chen Xiang through the medical equipment innovation service platform set up by CCI.

Another 200 clinical tests will be carried out before a registration application submitting to the Chinese Food and Drug

Administration before 2024.

The CCI Animal Experiment Center opened in Jiangqiao Town in October is supported by Shanghai Kindly Medical Instrument Co as well. It covers around 7,400 square meters, or the size of a standard soccer field.

Its first phase includes a breeding area for animals such as pigs, dogs, rabbits and guinea pigs. Its experiment area can carry out interventional and surgical operations, comprehensive imaging and clinical pathology examinations and biocompatibility testing of medical devices.

An intelligent upgrade for Baiyin Road

Zhang Jian and Li Xinran

BAIYIN Road has been upgraded to a smart road, an important part of Jiading New Town's efforts to build an intelligent transportation high ground.

On the integrated poles on both sides of the road, in addition to the standard electronic monitoring equipment, there are several sets of electric devices.

Su Guimin, deputy chief engineer of Seisys Company intelligent transportation department, who is responsible for building intelligent transportation networks, says these devices are mainly divided into three

categories — cameras, radar and signal transmission which are responsible for data acquisition and reception and information release that provide beyond-the-horizon perception capabilities for drivers.

On Baiyin Road, all kinds traffic conditions, including traffic flow and vehicle speeds, can be captured by cameras.

Relevant data are calculated by the integrated-intelligent box at the roadside. The system then delivers signals to intelligent connected vehicles to increase perception ranges, adjust driving strategies and maximize the intelligent network of ICVs,

roads and the cloud system.

In addition to the data support of ICVs, the research and development department developed an intelligent-transportation-digital-cockpit management system through the intelligent-transportation-digital-twin platform to capitalize on the holographic collection of road information.

Collected information can be displayed on one screen in the form of visual information, enabling the transportation department to better manage traffic, including early warnings of traffic congestion and altering the timing of traffic lights.

PEOPLE

Brushstrokes Of History

Art should follow the times. Award-winning Chinese painters record the world through their brushstrokes, from generations of traditional families to the marvel of taikonauts and life on the Chinese space station. **Page 4-5**



CULTURE

Power Of Perseverance

Through patience and perseverance, Fei Xueying has turned Nondeng Strawberry Production Base into a fruit-producing powerhouse, providing livelihoods for several Jiading families. **Page 8**



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