"Community Brain" to Monitor, Think and "Dispatch Order"

By Mao Xinhui

Road traffic congestion, no street behavior of store–opening by breaking wall, someone just entering unattended non–motor vehicle shed in residential quarter, unclosed anti–theft door of residential building, busy chef in a noodle shop, a new guest registering in talent apartment... In Kongjiang Road Community of Yangpu District, various sensors, like "neuron" endings, perceive the community in an all–round manner, and transmit the data to Grid Center. Grid Center as the "community brain", can monitor, think, and "dispatch order" with the aid of big data and artificial intelligence technology.

On March 21st, in the Urban Integrated Management Command Center of Kongjiang Road Sub–district, the "community brain" is busy working. On the 3D real map covering 2.15 km2 of Kongjiang Road Community, terminal signals of more than 20,000 intelligent sensors keep flashing, and 28 kinds of application scenario analysis data are constantly updated, to clearly reveal the traffic flow, pedestrian flow, fire prevention, environmental monitoring status of residential quarter. Beside the console, four staffs are watching the screen, while switching the video.

Since 2017, Kongjiang Road Sub–district has firstly implemented the application based on Administration of Radio Film and Television NGB–W IOT nationwide, as well as three projects of neuron, community brain and process reconstruction, and developed working mode of supporting fine management by means of intelligence. Since Q4 2017, the 110 indoor burglary, prostitution and gambling case report in Kongjiang District has declined by 80% over the same period last year.

Kongjiang Road Sub–district has established "4 Pieces" of quarter access in closed residential areas (face recognition HD probe, infrared sensor human count indicator, motor vehicle access control, large smart screen), "3 Pieces" of building access (magnetometer monitoring, 2D code door–opening, electronic patrol), "3 + Pieces" of home access (remote meter–reading, gas leakage alarm, single elderly life detection and other public service detectors), "7 Pieces" of non–motor vehicle shed (including 3 Pieces of entering door: fingerprint, 2D code, card sweeping; 3 Pieces of fire prevention: smoke detection, electric arc elimination, intelligent charging, plus one set of HD probe). Meanwhile, a number of sensors, wireless probes and electronic noses are also set up in public elevators, restaurants, public toilets. At present, magnetometer, smoke sensor and some other sensors have covered all 25 residential committees and 61 quarters in Kongjiang District.

If manhole cover is moved, the horizontal sensor will prompt immediately; if the smog concentration is high, the smog detector will alarm. "Community brain can monitor real–time state of gateway and sensor; more than 16,000 sensors are not checked by human one by one, but rely on the "brain" to monitor, and automatically call the police, in case of abnormal data." Kongjiang Road Sub–district Office Director Liu Peng said. 28 sensors all have an alarm value, and the "brain" monitors this value, with early warning if reaching it. Besides, all monitoring results are displayed on the 3D grid center map in a simulated way. Through the 3D image captured by UAV, data visualization is achieved, while browsing the real–time community management condition and status quo, enquiring, analyzing and invoking management data and information.

In addition to monitoring data, the "community brain" will also think. Since involvement of "smart public security", under support of big public security data, the community brain has turned "smarter". Recently, HD probe of Shuangyang Ercun Jinyuan Jiayuan found a person with criminal record acting in the community, to effectively prevent occurrence of theft cases.

The community brain transfers data to big database of the Municipal Public Security Bureau, which can compare with the "neuron"–perceived data, like a child mastering profound knowledge at a time. Previously, for the people into the quarter, even if witnessed by the HD face recognition probe at the entrance, it failed to recognize; now all information captured by these probes are delivered to the "brain", and based on the public security database, it can identify whether they are fugitive, highly–focused staff, or have criminal record but not living in the quarter, etc. Kongjiang Road Sub–district is currently linked with the 610 database and the anti–drug database of Municipal Comprehensive Management Office, and will connect with the data of other law enforcement agencies in the future, so that the brain will learn in depth, constantly upgrade and improve intelligence.

"Community brain" is also an indefatigable "dispatcher", to "dispatch" relevant alarm information to the responsible unit in time, as per set program. Among 1811 anti–theft doors, if a door is unclosed for 5 minutes, it immediately sends alarm information to the comprehensive management platform of Resident Committee; among 8000 smoke sensors, if one senses the smoke concentration beyond standard, and the temperature sensor detects the fire, it immediately reports to the fire prevention department; if the store with "criminal record" operates outside the venue, wireless monitor will capture it, and the brain immediately dispatches the order to the Urban Management Squadron.

Smart city represents new development philosophy and governance pattern, and will become the trend for a new round of global and urban growth.

Turn Rotten Trees and Branches into Treasures

By Gao Liang

During the sixth "World Forest Day" on March 21st, in order to improve the public awareness of forest resources, recognize the importance of forest and environment protection, in the morning of March 18th, Shanghai Gongqing National Forest Park launched a "Search for Forest Treasure" timber art competition; the participating timber art enthusiasts gave full play to their creation, to turn rotten tree and branch wastes into treasures, dead into wonders.

On the scene, handicraft talents were eager to involve in their creative practice, make Mickey Mouse, owl, rabbit, small wooden horse, small car and other timber art works with hacksaw, steel drill, iron nail, iron hammer, pigment, hemp, glue and other tools, and thus the simple rotten trees and branches seem unlimited poetic.

"Today, three members of our family made an owl; while making, we encountered some difficulties in dealing with the wing, nose and feather of owl. Fortunately, we have many creative ideas and finally solve them." The participant Mr. Cui told the reporter, "the activity not only helps children to improve their handling ability, but also eco–friendly, and the finished timber art products can place at home as decorations, to kill many birds with one stone."

The reporter learned that after the end of this event, Shanghai Gongqing National Forest Park will also select excellent timber art works, to exhibit in the upcoming 2018 Urban Forest Hundred Flower Exhibition Room.

It is said that Shanghai Gongqing National Forest Park has established a tree–crushing site, to crush the rotten park trees and branches, make them into fertilizer after decomposing, reutilize them, and fully recycle the timber resource.

Yangpu Cultural Creation to Focus on Four Areas

By Mao Xinhui & Cheng Jiajia

In terms of cultural creation sector, what is the future strategic planning of Yangpu District? This is a major concern for investors at the Fifth Wealth Bay District Forum of Noah Wealth on March 17th.

Yangpu District Culture Bureau Party Committee Secretary and Director Yang Yinyu answered on site. In cultural creation sector, Yangpu District will focus on promoting four major areas: big design area of architectural and industrial design; animation, game, electronic game, film and television production area; new publishing area with digital publishing as the core; "wisdom life" area to change future way of life. Yangpu District will actively explore collaboration with social capital, to support development of cultural creation enterprises in Yangpu.

As for emerging cultural creation enterprises and entrepreneurs, what are supportive policies from Yangpu District Government? According to introduction of Yang Yinyu, from office space renting to talent attraction and talent apartment, the government will grant all–inclusive support, to reduce operation cost of enterprises in many aspects. Furthermore, the government will divert more funds to the field of cultural creation. On the other hand, the government will provide better business service, based on a sound investment environment. "Lower office cost, higher working efficiency, to help entrepreneurs in Yangpu not only find an office area, but also feel a sense of home belonging, and meet their needs for work, life and culture in the new era."

After five years of forum collaboration with Yangpu, Wang Jinbo, the founder of Noah Wealth Management was deeply impressed by strong atmosphere of innovation in Yangpu. "Walking in Changyang Campus, here you may find many unicorn companies popular on the capital market. In Shanghai, Yangpu is a "Big Bay Area", and Double Creation has become a marvelous name card of Yangpu. To support the field of innovation and entrepreneurship is definitely driven by capital, but it is extraordinary for Yangpu to join hands with capital market, explore potential enterprises and incubate together.