

enefiting from the Belt and Road Initiative. Changchun New Area's strong links to Asian and European countries have been boo ts trade with the above hub countries including (Picture 4 from left below) Russia, Democratic People's Republic of Korea, Republic of forea, Mongolia, Japan, Germany and the Netherlands will be significantly strengthened. The train from Changchun to Germany takes only 14 days, covering 9,800 kilometers. The northern ocean route from Hunchun (Picture 3), a city close to Changchun, to Europe takes 27 days and southern route takes 36 days.



Changchun New Area offers a beautiful environment, which lures investors from around the world.



he model analysis n Changchun New Area's plan shows the area has strong development potential. The location of the city's aviation

economic development zone is very good, and on innovation to establish an open, innovative hat promises a bright future." **Tim Stonor**. *internationally respected* architect and urban planner, managing director can benefit the development of traditional

he overall plar for Changchun New Area combines the characteristics and advantages of Jilin province, and propose some new ideas such as being 'innovation driven'. The plan offers a comprehensive analysis f the new area's leading

Through cultivating maior industries such as automobile, high-end equipment manufacturing, the photoelectric information nd biomedical sectors, the new district can build its value chain, increase its core ompetitive power in the world, and solve many economic problems. As an engine that can drive Jilin's economic

growth, Changchun New Area should look the development of the whole province d the Northeast region, to form its leading industries and industrial chain. This can help the new area to realize its objectives such as building innovative economic development demonstration zones." Li Guanghui, vice-president of the Chinese

Academy of International Trade and Economic



of the strategic consulting firm Space Syntax industries." Ltd, quoted by Changchun Daily



What they say

industries

Domestic and foreign experts share their insights on the emerging Changchun New Area.



evelop an ecologica / in China's norther old regions. The plan, which has great operation possibility is based on regional haracteristics. The plan considered ifferent factors

including environment and energy utilization. It aims to lead green development in Changchun New Area and strengthen the area's competitiveness in ecological construction in

Jyri Nieminen, chief sustainability officer at Sweco Finland Ltd. guoted by Changchun Daily

"A smart city connects physical space and virtual space. On the one side, it is the earth – the physical space where we live in; on the other side is cyberspace ne development of cities requires s to connect the globe's cities togethe

rough the use of information technology. ne infrastructure construction in Changchun New Area pays attention to the development of a smart city. It highlights the building of highpeed information networks and information latforms, which will form a good foundation building a smart city in the future." Vicente Guallart, chief architect of Barcelona City Council 2011-15 with the responsibility of developing the strategic vision for the city, and hief scientist of International Smart City Lab, quoted by Changchun Daily

"The industrial system design in Changchun New Area is reasonable and supported by scientific research, especially in planning for the development of clusters such as automobile productior photoelectr

information, high-end equipment ervice industry platform angchun New Area takes Hong Kong. ingapore and Dubai's experiences as eference and follows the polices of free trade pilot zones. It is working to establish 81 industrial platforms to support international ade. The move will build a good business In addition, Changchun New Area is focused

industrial system. Innovation is not limited to new and high-tech industries, but also Liu Binglian, assistant to the president of Nankai University, and director of Nanka University's College of Economic and Social)evelopment

Decades ago, we only elieved in the power of reinforced concrete because it improved our living environment and created ideal homes. However, as time goes by, people found that our cities were incompatible ith the environment People started to



consider better ways to build our homes dur ities' population expansior he fundamental infrastructure pla of Changchun New Area learned from Copenhagen's experience in rainfall and ood management. It stresses building green fundamental infrastructure, using natural ways o store and purify rainfall. he plan consists of environmental object in flood prevention and control. The use of digital sensors and internet communication lso formed a good base for establishing a mart city. I think it is necessary to set up a rainfall and flood management and control system, and maintain environmental objective in cities' overall planning. Stefan Bruckmann, Germany's urban

hydrology expert and ecosystem engineer

There are three kev points that Changchun has taken into consideration during the development of its new area. First. Changchun New Area aims to deepen its economic reforms and opening-up, thus to become an example



he new area will contribute to driving the economy and modernization of Changchun and Jilin ahead, and continuing to revive Northeast

of internationalization in the Northeast Asia

econd, in the practice of economic reform and opening-up, the new area will spare no effort be innovative and internationalized in orde p attract more foreign investment and talents The new area will also expand its service and nancial information industries, as well as being pioneering with its free-trade experiment

Last but not least, according to the plan, the new area will stick to the notion of a green economy. President Xi Jinping has said that the key of city planning is to preserve an area's natural beauty. Therefore, the new area is advised to put its whole attention to protecting the environment. It will strengthen environmental governance and the prevention of air, soil and water pollution together with neighboring counties and districts. Yao Shimou, an established professor, lecturer and doctoral supervisor in city planning based in Nanjing





Rime in Jilin has unique scenery.

chuan Scenery Area in Hunchun, Jilin province. Hunchun, bordering Russia and the Democratic People's Republic of Korea, and neighboring the Republic of Korea and Japan across the sea, is expected to become a key hub for Changchun New Area to implement the Belt and Road Initiative.

TECHNOLOGY AND GEOGRAPHY UNITE TO FUEL GROWTH

Comprehensive planning and strategic mission

Changchun New Area reveals an overall plan for its development. There is an excerption of the plan.

Changchun New Area has three-step strategies The first step is to establish a national-level new area with an open and innovative industry system. The second step is to apply to be a pilot free trade area to play a major role in the world economy. he third step is to comprehensively build Chang chun New Area into China's new window to the world by exploring economic rules and policies that meet the needs of the pilot free trade zone.

esponsibility and mission

• An important platform for the implement ion of China's Belt and Road Initiative and other national strategies

It is necessary to speed up the construction of land and maritime transport channels to make cit ies of Changchun, Jilin and the Tumen River area well integrated into the Belt and Road Initiative.

With the pilot free trade area as a center to gather resources from larger areas, it is also necessary to bring in more value-added activities to make China a stronger driving force in the global value chain, and also to explore the rules under the new world economic pattern that could hel China to be more open.

in Northeast Asia, explore the development of strategy, Jilin province will build one corridor and ment, which are key parts of intelligent equipment will be able to hold 550,000 people. innovation-driven industries and international three areas. cooperation models that could add more trade By developing the international transport chan-

promoting economic, social, cultural and ecologi- stretched to eastern Mongolia and the far east of hundred billion yuan. cal cooperation in Northeast Asia, establishing an Russia, forming an international cooperation cor- A green consumption center in Northeast Asia: and a cultural park. the global value chain and playing a pioneering and three international cooperation zones. ment and superior resources, all the industry and exploratory role as requested by national A key international cooperation zone in North- chains of modern agriculture, sports, and health Positioning: With priority given to advanced

Changchun is considered a key city in the Chi- New Area as its core. a-Mongolia-Russia Economic Corridor of the ounty's Belt and Road Initiative.

The construction of the new area could help city in Northeast Asia integrate into the northern part of the Belt and urban areas. Changchun has set a goal of trans-Road Initiative.

With the construction of the land transport tional city. corridor between Europe and Northeast Asia, It must also participate more in the interna- Development Zone are key forces in implementing Learning from the advanced construction exp it also will be connected with Europe through a tional specialization of industry trade and services the national strategy in Changchun New Area. rience of overseas ecological cities such as Canahigh-speed railway.

• An impetus for the further rejuvenation of economic transition. Northeast China's old industrial base

Northeast China, the new area will make full growth use of its location to gather talents, technology Echoing the national strategy, Changchun New and funds to broaden its economic scale, upgrade Area must shoulder the responsibility of leading • Changchun High-tech Industrial Development environment and building a green, low-carbon its industrial structure and further promote the regional development.

Area as key development spaces, the Harbin- Asia by establishing an open and innovative indus- industry upgrading and transition of urban areas, has natural scenery but also enjoys an excellent Changchun urban agglomeration will be con- trial system, a strategic platform that could serve developing itself into a livable ecological new area environment. structed into an area that will have key com- the whole region and an international transport that can demonstrate integrated development of petitiveness and influence in Northeast Asia by channel. complementing each other's advantages and coop-

• The need to implement the Changchun-Jilin- (\$14.5 billion) Tumen River corridor's opening-up and develop- China's intelligent equipment manufacturing mation and comics, optoelectronics information, ment strategy



Thina and Europe to enable Jilin province to Changchun New Area to upgrade and transform cine. forming itself into a key city in Northeast Asia. Scientific arrangement

To this end, it needs to improve its competitive- Positioning: Attaching importance to new and It will build Changchun New Area into an effi-

Moscow, Russia

To implement the Changchun-Jilin-Tumen intelligent control systems and numerical control ecological tourism and entertainment zone. It is especially important to integrate resources River corridor's opening-up and development machine tools and basic manufacturing equip-competitiveness.

Changchun New Area's missions also include Changchun-Jilin-Tumen River strategy will be ment industry clusters with output of several Northeast Asia Land Port, Longxiang Interna-

pen industrial system that is well connected with ridor that connects six Northeast Asian countries Based on the area's excellent ecological environ east Asia will thus be established with Changchun and pensions will be well integrated to establish equipment manufacturing and modern agricul-

With industry clusters in health-related food. area. • The strategy to make Changchun into a key manufacturing and services, there will be several Scale: With construction land of 62 sq km, it will industries with output of several hundred billion have a capacity to hold 400.000 people. to build up a main transport channel between It's an important responsibility and mission of yuan, including top-rate food and biological medi-Space distribution: Importance will be given to

It needs the new area to further enhance its Changchun High-tech Industrial Development industrial cluster for automotive industries. • Changchun New Area to build three corridors functions in international services for changing Zone, Changchun Beihu Scientific and Technologi- The eco-system in cold areas: An objective sysin accordance with the Belt and Road Initiative itself from a key regional city into a key interna- cal Development Zone, Changchun Airport Eco- tem for building a cold regional ecological city in nomic Development Zone and Changde Economic Northeast China

Located in the center of the economic corridor • An area that could lead regional economic into a green and healthy city that boasts a spirit of carry out 13 action programs.

Zone

With Changchun New Area and Harbin New ness in Northeast China and even in Northeast high technology industries, the zone will promote cient, green and ecological place which not only

erating for innovation and industrial support. • Two centers, two industrial clusters and sev- ters, it will have capacity to hold 500,000 people. eral industries with an output of 100 billion yuan Space distribution: Importance will be attached to an innovation and software industrial park, anicenter: priority will be given to key spare parts, biological medicine, and auto and spare parts.

There will also be two business and trade centers in the zone.

•Changchun Airport Economic Development

Positioning: With importance given to international cooperation and aviation logistics, the zone will be a key area in regional opening-up and cooperation as an intelligent city in Northeast China for demonstration. Scale: With a construction area of 79 sq km, it

will have a capacity to hold 400,000 people. Space distribution: Importance will be given

to the aviation related industry, health and pensions, international education and information winter sports and aviation logistics. There will be a Northeast Asia International Exhibition Center. Northeast Asia International Conference Center Northeast Asia Cultural Exchange Center and an exhibition hall to display Changchun New Area's

Changchun Beihu Scientific and Technological Development Zone

Positioning: With priority given to strategic emerging industry, high-end production and life services, the zone will be an international, modern

manufacturing, to promote regional industrial Space distribution: Importance will be attached to high-end equipment, opto-electronics informa nels that cross China to Mongolia and Russia, the This will help to form several intelligent equip-tion and biological medicine. It will build the tional Business Area, an Olympic Sports Center

a sustainable mechanism for green consumption. ture, it will be an innovative and livable new urban

general aviation, advanced equipment, top-rate

food and engineering machinery. It will build Changbaishan Food Industrial Park and an auto

and promote its international influence to make They are also modern urban areas that fea- da's Vancouver, and Germany's Freeburg, which itself an important platform serving the country's ture economic development, green ecology, and are located at a similar latitude to Changchun, diversified cultural and intelligence management. and with the aim of building an ecological city in Changchun New Area also aims to build itself China's cold northern regions the overall plan will

These will focus on constru pattern that is safe and stable, forming a livable residential living space.

SCAN IT! FOR MORE contact at **86-431** com.cn

Changchun New Area has mapped out a brilliant future: as a national-level new area, a free trade experimental area, and a key hub in China's opening-up to the world. It will play a pivotal role in implementing China's Belt and Road Initiative. Now the area has embarked on its journey to becoming a powerhouse for the domestic economy and will spearhead the extension of China's global connections.

By CHEN MEILING in Changchun chenmeiling@chinadaily.com.cn



of auto parts factories

Wang Wenbo, assistant general manager of the company, said that in the past, managers had to gather workers every morning to distribute the workload, which felt like a waste of time.

"We aim to revolutionize old methods and update our databases with a small screen and the internet," he said. "It will significantly improve effi-

ciency, reduce the cost of management and save paper used to record all the information before." **Dotential to grow** The intelligent factory management system is the result of efforts to innovate the traditional into a free trade industries of Changchun, capital of Northeast China's Jilin province.

The city is known as a base for top automobi brands like China FAW Group Corporation. It is have strengths in also home to the 70-year-old Changchun Film Studio, Changbai Mountain and extreme cold, industry, scientific research and falling to minus 20 C in winter.

Last year saw Changchun step into a new devel opment phase once the State Council approved infrastructure and services construction of Changchun New Area in Febru ary, the 17th national new area since Shanghai's Sun Yaming, Pudong New Area was approved in 1992.

According to a statement published on the official website of the State Council on Feb 15 kilometers, aiming to promote the Belt and Road high-end manufacturing industry," he said. Initiative and revitalize the economy of north- He said innovation in agriculture could also Guangdong Longhao Airport Industrial Park. in Changchun. eastern China.

with an economic downturn.

which are well-known throughout the country, and production mechanisms. ndustrial structure is still a heavy task.

the development of industries, but also in busi- mercial satellite, the JILIN-1 Satellite, was into 'made in Changchun," Sun said. sees how dedicated his colleagues are to the new ness models, as well as city's construction and launched in October, 2015 by Chang Guang Satel- He said approval system has been simplified area's growth. management mechanisms," he said. "The new lite Technology, located in Changchun New Area. to attract more projects to come. "The time was "As for myself, this job brings me many chalarea is an innovative platform. There is no need It is the first satellite named after a province. The reduced by 50 percent. Now, it takes only one month lenges, but also brings many touching moments. to follow any fixed mode."

high-end manufacturing, modern agriculture of Sciences. and modern services.







the city and its industries. Scale: With a construction of 48 square kilome-



t an auto parts factory in Changchun, engineers stood in front of a desk with a small display screen hung on the wall. They touched the screen every now and then while dealing with the parts and containers. On the screen, information about the engineer and the parts, his or her working time, quantity of tasks and the amount of standard and substandard products is displayed. It is the intelligent factory management system, developed by Changchun E-Plus Technology, a Changchun-based startup founded in 2015 by a group of former senior managers



area sınce we

Party Chief of Changchun New Area

ing said northeastern China is now confronted Group and Heilongijang Beidahuang Agriculture industrial cluster of high-end manufacturing, bio- es, markets, professionals and ideas in a broader Co, to develop higher-quality food and urban medicine and new material industries," Sun said. international context," Sun said. Though we have some traditional industries agriculture equipped with modern management International industrial parks co-constructed "Located in the center of Northeast China.

the scale and clustering of the industries are The city's scientific strength provides more and other European countries are under way China's cities as a whole," he said. "Now many limited." he said. "The transformation of the opportunities for innovation. It has three nation- with investment and high-end technology being roads have been built, many projects have been al laboratories, 34 national parks and bases introduced. These problems are common in northeastern and many scientific institutes and universities. Also, 12 trade representative offices and 24 car-released. Though we still face some problems, I Chinese cities, hampering economic growth." including Jilin University and the four institutes go-canvassing centers in cities such as Moscow, believe the new area will play an important role lrive the new area's of the Chinese Academy of Sciences, fostering Paris, San Francisco and New York are expected in the revitalization of North high-level professionals every year, he said. to be established in 2030.

company was founded by Xuan Ming, former to introduce and begin a project in the new area." Ever since the planning stages of Changchun He said they would use new technology to president of the Changchun Institute of Optics, Beyond the new projects and management New Area, we have received so much help SCAN IT! cultivate three of its major industries, including Fine Mechanics and Physics, Chinese Academy mechanisms, logistics systems have also been and support from the superior departments. See more on

The statement by the State Council also indiairports and land ports. "Changchun has a long history of producing and cated that Changchun New Area has a unique The new area launched the expansion project has spent many years in different major district New Area! studying automobiles. We can apply state-of-the- geographical position with great potential for of Longjia International Airport in 2015 with and development areas in the city, said. "I see a art information technology to the production of businesses looking to go global. more international routes expected to open, bright future for an innovative, inclusive, fair WWW.CCXQ.GOV.CN

Bohai Bay Rim, Changchun has strong connec- reaching cities in northern Europe, he said. tions with Mongolia, Russia, Japan, the Republic When the project is completed in 2017, the of Korea and many European countries.

in resources and develop their economies quickly. tons per year, according to Sun. The figures are

Spearhead to the world Sun said Changchun New Area aims to become eastern Asian airlines." he said.

a new window to the world by 2030. The first step is to apply for the national new tional cargo train opened on Aug 31, taking just area based on its four high-tech zones, which was 14 days to travel through 13 railway stations in done in February last year. It will make the city five European countries. new free trade area in 2020. And by 2030, the "With more international airlines, railways economic policies should meet the demand of an and ship routes to be opened. Changchun New international trade center.

n industry, scientific research and supporting a gross economy of \$30 trillion," Sun said. 500 enterprises.

area, bringing in a total investment of up to 10 center and foreign consulates.

improved through construction of international Employees in the new area are so passionate the website of

automobiles," he said. "We can also use Internet Located in the center of Northeast Asia and the including Changchun-Russia flights and routes and ecologically friendly new area."

passenger volume will be increased to 60 million Sun said: "Northeast Asian countries are rich every year and cargo volume will reach 3 million We hope to promote trade with these countries." expected to hit 7 and 38 times of those in 2015 "The airport will be the logistics hub of north-

The Changchun-Manzhouli-Germany interna

Area will become the production and material "Changchun New Area has great potential to reservation base in Northeast Asia which covers grow into a free trade area since we have strengths 28 countries with a population of 880 million and

policies to improve infrastructure and services." To attract more international trade, Sun said The new area now has 134 foreign companies the local government will build an international and 25 companies invested in by Fortune Global airport business district near the Longjia International Airport by 2020, which will house a In 2016, a series of projects were settled in the convention center, reception center, exhibition

last year, the new area comprises four districts Plus technology in the research and development billion yuan (\$1.45 billion) for each, including He said they plan to build a first-class modern of Changchun with a planned area of 499 square of satellites, airplanes and robots to promote the Puren International Medical Town, Sinobioway commercial center in Northeast Asia to serve Biological Agriculture Demonstration Zone and foreigners who visit or seek business agreements

be boosted through introduction of international "The new area is attracting more projects, "Only if we target the global market can we Party Chief of Changchun New Area Sun Yam- agricultural enterprises, including Sinobioway which will help to promote the construction of an have more access to modern technology, resourc-

with Japan, the Republic of Korea, Germany Changchun New Area connects northeastern introduced and many new policies have been

Fhough he feels great pressure facing so many "Innovation should be emphasized not only in China's first self-made high-resolution com- "We expect to turn 'processed in Changchun' challenges, Sun said he is deeply moved when he

to participate," the 60-year-old Party chief, who Changchuna

Manufacturing city joins innovation and industry

vative thinking from Israel."

He said construction of hotels, shopping

ed car plant in 2015, said Han Xue, chairmar

entrepreneurs can meet with investors face to

"Our company cooperated with Jilin Uni

courses at the Lin Maker Carnival every Sat

ing of automobiles, unmanned aerial vehicles

For projects that have great potential, she

high-tech startups and boost employment

By CHEN MEILING in Changchun

Changchun New Area takes efforts to pro- malls and apartments in the park are expected

mote innovation and entrepreneurship. to be completed in 2020. "In the past, fewer than 9 percent of the Deputy CEO of Taihua Lightning Protection scientific achievements in Changchun could Wang Chuanwei said: "We were attracted by be commercialized in the market, which is a the park's preferential measures in renting great pity. I thought the scientific strength of workspaces, the infrastructure and the poten the city could better benefit the future," said tial of Changchun New Area." Guo Li, chairman of the board of Changchun Another innovative incubator in Changchur Beihu Science Park Development Co. New Area, known as The Lin Maker Carnival,

Guo said the park, constructed by the also provides a space for entrepreneurs to real Changchun government and Beijing Science ize their ideas. and Technology Park Construction, was inaugurated in 2014.

Ever since the opening of the park. Chang- secretary of Jilin Lintian Yuanda Image Group chun New Area launched a series of policies a company which has 30 years of history in to encourage enterprises and scientific insti- brand visual planning for automobiles, includtutions to settle in the park, including rent ing Toyota, FAW and BMW. subsidies, tax reduction and bonuses for IP and She said the carnival includes a cafe where technological innovation, said Guo.

"We are determined to establish links face, workshops where technological contests between scientific projects and related enterprises and promote innovation within the ing innovation and entrepreneurship. traditional industries of Changchun."

By November 2016, more than 140 techno-versity in innovation and entrepreneurship logical companies, startups and science and education since last year," Han said. "About technological service platforms settled in the 500 students from Jilin University will attend

Most of the companies focus on biological urday and Sunday, covering such topics as medicine, electronic information and new vocational skills, VR technology, and design-

"We target at the competitive industries in and robots." Changchun," Guo said.

LIU RUIFENG / FOR CHINA DAILY

He said the park hopes to restructure the said Lintian will introduce their technology or industries there and helps businesses to products to clients and government. engage in cooperation with foreign countries "The Lin Maker Carnival aims to incubate

in Changchun New Area. "Officials from Changchun and leaders of and entrepreneurship among graduates," companies in the park were invited to join a Han said. cooperative high-tech project with an Israeli "I believe the improving infrastructure, team from June to August last year through preferential policies and innovative atmovideo conference," Guo said. "We expect them sphere in Changchun New Area will encourage to learn about new business models and inno- more leading professionals to come and stay



Robots attract child visitors at the Lin Maker Carnival run by Jilin Lintian Yuanda Image Group.



Seoul, Republic of Korea







CIOMP produces local, loyal graduates for new area

By CHEN MEILING in Changchun

China's first self-made, high-resolution port to the company since the day it was focused on the research, production and commercial satellite, the JILIN-1, was founded. after a province

"In the past, satellites were used only for designed building to meet our demands." He said the company is derived from a

As the former president of the Change- via photos taken and transmitted by their Wang said Changchun New Area gave suphun Institute of Optics. Fine Mechanics and satellites.

taking the project. Someone even asked me: The first phase of the park is expected to be 'How could it be possible to develop satellites completed by the end of 2017. in a place that only grows corn?' Eventually we proved them wrong," Xuan said.

develop high-tech industries thanks to its Ruiguang, general manager of Changchun "Many people encouraged us to move to rich human resources and the scientific Cedar Electronics Technology, has made southern China, but I said 'no'. I was born strength of Jilin University and three instigreat contributions to the LED business of and raised in Northeast China. Changetutes under the Chinese Academy of Sci-Changchun New Area.

orbit," Xuan said. "Since Changchun Insti- street of Changchun," said Wang.

capacity to complete the project." The local government has provided sup-Founded in 2001, the company has been

launched in October 2015 by Chang Guang "To research and develop satellites, we China Central Television, the Beijing subway Satellite Technology located in Changchun needed a high office building with consis- system, the Jilin Highway Monitoring Center New Area. It is the first satellite to be named tent temperature, humidity and cleanliness. and advertising screens in Japan, Moscow The local government built this specially- and the United Arab Emirates.

military and government purposes. The new According to Xuan, the company plans to research group under CIOMP. commercial mode will significantly improve launch 30 satellites every year for a total of "When I worked at CIOMP as a teacher, the flexibility of aerospace information shar- 138 satellites expected to be in orbit by 2030. our research project was to develop LED ing and reduce the costs of research and An online trading platform for aerospace products with high density and high power development of satellites," said Xuan Ming, information is also under construction in Wang said, "Cedar was built under the ho president of Chang Guang Satellite Technol- the area. The platform will allow people ings of CIOMP to industrialize our research from around the world to buy information achievements in a broader market."

Physics, under the Chinese Academy of Sci- "Since Changchun has rich soil for the and spiritually. ences, Xuan put forward his ideas for satel- development of high-tech industries, we "Officials from the local government of lite research in 2012. Two years later, Chang should try to innovate in fields where no came to visit our company, caring about our Guang Satellite Technology was founded to one did before. I see a bright future for the development. They also provided us with undertake the JILIN-I Satellite networking city," said Xuan. The company commenced scientific research funds and reduced or construction of the Aerospace Information exempted taxes." "Northeast China has been regarded as a Industrial Park in March, where the whole He said many of the employees were prothey didn't believe we were capable of under- information processing, will be included. his 70-year-old teacher.

He said the city has great potential to Another scientist from CIOMP, Wang (\$43.2 million) in 2017.

"The satellite is like a camera flying in pany produced the street lamps on a whole improved a lot in infrastructure, traffic and

is so warm and soft." sale of LED screens, including those used by

port to the young company, both financially

less developed area for many years. At first, industrial chain, from R&D of satellites to fessors and doctors from CIOMP, including

The company's business will be expanded to the application of LED in agriculture. human's health, and aquaculture. The total sales are expected to reach 300 million yuan

hun has four distinctive seasons which I "I can't wait to tell everyone that our com- am already used to. And these years it has ecological environment," he said. "Besides



Engineers at Chang Guang Satellite Technology, where China's first self-made, high-resolution commercial satellite, the JILIN-1, is launched in October 2015. Changchun New Area boasts a number of leading high-tech companies. LIU RUIFENG / FOR CHINA DAILY

What they say

China Daily reporter **Chen Meiling** interviewed local entrepreneurs at Changchur New Area. They expressed their affection and anticipation for the emerging area.

is place provides a good platfo

young people to realize their own id

Cheaper rent and commodity price

enable graduates to build their lives.

nfrastructure is improving every year

more young professionals are attracte

Han Xue, chairman secretary of Jilin

some other regions, I believe the city's

economy will be revitalized by the ioi

think innovation is the key to develo

hangchun quickly, which means t

Xuan Ming, president of Chang

something no one has tried befo

e launch of the JILIN-1 Satellite by

o revitalize Changchun, I think the local

povernment should make innovation in t

y's strength in traditional industries, su

as automobile, biological medicine and ne

such as big data, Internet Plus and VR cai

be applied into the development of these

ese years, the traffic in Changchun Ne

materials. For example, latest technolo

company in October 2015 is a go

effort of its government, enterprises ar

live and work here."

Lintian Yuanda

Image Group

"I see a bright

Though Northeast

ample of that."

Guang Satellite

Technology

issued a series

of new policies

for enterprises.

which is, to me,

auite inspiring

Development

"I was born and

grew in Jilir

province. I kne

Corporation

China FAW Grou

"The local

government

future for

Changchun.

China has been

regarded as les

developed than

hometown change lot in last few year When I was in high school, there was only farm land in th southern areas o Changchun, Since it

became a national high-tech industria development zone, enterprises and factories were built, along with viaducts, schools, residential buildings, hospitals

and shopping malls. hough many of my classmates at Jil University chose to seek jobs in Beijing and Shenzhen, I had no regret staying because my boss recognizes my work here and I have two lovely children. When you are satisfied with your life, you won't leave. Besides, this is an excellent place for college graduates to settle in. It costs only about 2,500 yuan (\$359.6) to rent a twobedroom apartment and the salary here is no less than that of developed cities." Li Chunmei, assistant general

Pharmaceuticals "Changchun has stepped into a more developed era. I have visited the command center of traffic police in Changchun and saw how big data and cloud computing we

manager of Changchun GeneScience



used in their work. I used to chop thick snow on the road with a kitchen knife, taking a whole day. Now snow removal trucks can quickly remove the snow and traffic has became more convenient. In the past, it took more than two hours to drive from the south to the north of Changchun. Since the construction of viaducts, the time has reduced to about Wang Ruiguang, general manager of



once studied at Jili University and Peking University, and worke in Shenzhen as a professional manager Beijing, Shenzhen and Changchun were three of my selections

when I considered the location for our company in 2004. Changchun New Area, vhich left me with a very good impres was my final decision. When I applied for the registration for our company, the local officials warmly welcomed me. And in the past years, they have never hesitated to help a small company with only 70 employees

"After graduation, I worked in Hangzhou for about a year. Later, I decided to come Wang Chuanwei, deputy CEO of Tai-Hua



young. Besides, the city has attached grea nportance to natural environment and efforts to develop its traditional industrie back to Jilin province. On the one hand, I Lightning Protection











infrastructu preferential policies and innovative atmospher in Changchu New Area wi encourage more leadin professionals come and stav.

chairman secretary of Jilin Lintian Yuanda Image Group

I believe the

Fuji Mountain, Japan

tute of Optics. Fine Mechanics and Physics "Our street lamps use one-third less Changchun New Area has given us great under Chinese Academy of Sciences, also electricity than traditional lamps and can support, for which I feel so grateful. The enviknown as CIOMP, has a long history of study- be used for 10 years. Passersby can read ronment could benefit enterprises' growth ing optical instruments. I believe we have the books under the lamps because the light and prosperity?

Twin ports: Key northeastern belt, road junction gets connected

enjie@chinadaily.com.c

hangchun's plan to build two internationally integrated ports in its new area will accelerate Northeast China's structural economic upgrade d promote international trade with Eurasia. As capital of Jilin province, Changchun is key junction on the China-Mongolia-Russia conomic corridor of the Belt and Road Ini-

The construction of two ports — an airport and an inland port – will build Changchun nto an international logistics hub.

The plan is central to the Changchun govmment's commitment to establishing its new area and revitalizing Northeast Chin d industrial economy.

With a planned area of 499 square kilo- CHINA DAILY meters, Changchun New Area will help to accelerate construction related to the Belt and on with neighboring countries, experts said, and traveling through Central Asia, Chovbal-training opportunities

developing its new area. and Bridge — by constructing twin ports The other two lines crossing each other in social capita

opment of the city and its industries, all of three specialist centers and six logistics strength to develop the new area. which contribute to accelerating overall economic growth. It will help Changchun to One of the inland railway ports will accu- tion are important for Changchun to develntegrate with European and Asian markets mulate goods from northeastern Asian coun- op its new area and build logistics hubs,

and reduce logistics costs. In the near future, Changchun will achieve hub, serving regional needs. regional advantages across Europe, Japan, The three centers comprise an interna- city planning with the Ministry of Housing Russia and the Republic of Korea.

n international airpo

Changchun Airport Economic Development northeastern Asian countries

Cone. according to the plans. The new area has signed an agreement services to specific sectors explore an airport cargo clearance system. industries

vavs and public roads It is also looking to expand its air route e-commerce platforms.

network, with more connections and 72-hour isa-free transit via Longiia airport.

nclude cooperation agreements for customs many investment projects during the con- He believes that the Changchun inla clearance systems with major domestic cus- struction of the two ports, welcoming over- ports benefit from new opportunities toms houses and promotion of cross-border seas and domestic companies to invest in brought by the Belt and Road Initiative,

routes that will connect to Russia and north- companies' headquarters in the future by The area aims to take advantage of urbanern Europe, Longjia airport will increase its building the required offices, commercial ization, the development of the service econtransport capacity and become an airline buildings, research and development cen- omy and high-e ogistics hub in Northeast Asia.

The airport will be multifunctional, incor- technical service centers. nformation platform and an express goods also included in the plans. customs supervision center.

An international land port

The other key project on the table for vehicles. logistics port, or a land port, with connections aviation equipment manufacturers, includ- destinations by road. across Eurasia.

Set to be the largest railway logistics center nation, via new R&D centers to assist in er example. in Northeast China, it will be an international, the production of light fixed-wing aircraft, After Fedex settled its headquarters in

roads will connect to 31 land ports, 10 airports Companies focusing on producing drones, their distribution service centers here.

businesses and logistics companies to be built. Terminal buildings, freight centers, by transport, communication and property. settle down in the new area. parking aprons for helicopters and light

Four railway routes will pass through aircraft are also expected. Changchun. In addition, the new area will establish a general aviation school focusing on highly-

er big northeastern cities, including Heihe skilled personnel training.



An artistic rendering of the international land port to be set up in Changchun New Area. PROVIDED TO

tries, while the other will be a highway freight they also said.

esearch center focused on building a logistics Changchun's economic development, and The new international airport will be based information system and developing internet that the construction process needs support on the redevelopment of the existing Chang- of things technologies, and a demonstration from the provincial government. hun Longjia International Airport and the center that will exhibit imported goods from According to Zhu, the Jilin provincia

ith Guangdong Longhao Aviation Group The professional logistics zone will serve the central government o rework and expand Longjia Airport, and the automotive, medical and home appliance Wang Yunfang, a professor with the Civi

The city government is transforming the The equipment logistics zones will focus on said the construction of inland ports e-commerce businesses and traditional China more convenien

Investment invitation projects

Meanwhile, other plans in the pipeline The Changchun government will release and supervision

For the airport intends to gather airline revitalization in northeastern areas.

a manufacturing base for sectors such as roads.

Shenyang and Dalian in Liaoning province. to set up sub-campuses, while an experience Road Initiative and deepen regional coopera- This will cross with a line starting in Europe center will provide enthusiasts with private

Changchun will break with the old model san in Mongolia. Arshaan in Inner Mongolia To achieve this, Changchun government autonomous region, Baicheng in Jilin prov- intends to set up an aviation development The city is taking advantage of its important ince, and Changchun to Rashin port in the fund to attract capital and investment from location – at the center of the new Eurasian Democratic People's Republic of Korea. financial institutions, investment firms and

develop a sophisticated transport system an 'X' will connect Tongijang in Heilongijang The construction of Changchun New Area t will incorporate air routes, railways and with the Tianjin railway line, and Chita in and twin logistics ports needs the support Russia with the Dandong railway in Liaoning. of the whole province, Chinese and foreign Such an integrated transport system will Located at the center of Changchun New experts said, adding that the Jilin provincial mprove logistics, in turn leading to the devel- Area, the port will include two rail yards, government should vitalize the province's

Policy support and institutional innova

Zhu Ruolin, a professional assessor of tional trade services center providing customs and Urban-Rural Development, also said learance and financial services, a logistics the airport is an important contributor to

government should recognize the power of The six logistics zones will provide various the airports in leading the regional economy and try to instate preferential policies from

Aviation Management Institute of China irport into an integrated transportation hub manufacturing goods, and the e-commerce Changchun New Area would make interna hat can link airlines, intercity railroads, sub- zones will provide services for cross-border tional trade between Europe and Northeast

> Wang suggested Changchun learn from the Shanghai free trade zone's management experience in investment, finance, service

free trade and the country's policies for the

ters, operational and clearance centers and Changchun's new area is also trying to learn from the successful management of porating an e-port center, a cross-border Public facilities such as hotels, high-end logistics centers around the world. One e-commerce center, an international logistics apartments, hospitals and supermarkets are is the Kansas logistics park in the United States. Located in the center of the US, Kan-In addition, the new area aims to become sas is a major transport hub for rails and

aviation equipment and unmanned aerial Cargo and goods from the western harbors of the US are transported to Kansas Changchun New Area is an international The government hopes to attract global by railways, and then distributed to various

ing those specializing in design and alter- Memphis, also in the central US, is anoth-

comprehensive link for harbors, railways and helicopters and special-function airplanes. Memphis in the 1970s and launched car-A drone manufacturing base will cover go airlines here, logistics and distribution Extending out from Changchun, the com- the functions of producing unmanned aerial industries began to accumulate in the city. prehensive transport corridor of railways and vehicles, spare parts and related accessories. Many large companies have established

and harbors throughout the world. software research and aftersales services will Dubai free trade zones also provide good The inland harbor, railway and road be welcomed to the new area. examples of connecting trade and indusconnections' advantage is expected to At the airport, air command centers, office tries. Wholesale and retail occupies about 30 attract many cross-border e-commerce buildings and air traffic control systems will percent of Dubai's GDP currently, followed

> chinadaily. com.cn



illustration of the international airport to be set up in Changchun New Area. PROVIDED TO CHINA DAILY



Artistic rendering of th International Logistics Service Center

Artistic rendering of the

Changde Service District a

Changchun New Area

Changchun

land ports

benefit from r

opportunities

brought by

the Belt and

the country's

policies for the

Road Initiative

Central business districts usher in international age

By REN QI and HAO NAN

designed to serve as central specialized production services area of more than 5 sq km, will business districts of Changchun are the three major function- mainly highlight export exhibi-New Area will play an impor- ing bodies of central business tion and trade, and financial tant role in strengthening ser- districts.

committee. its development. resources.

or CBDs, represent cities' most Commercial Center, located at ern agriculture and high-end essential landscapes, have been the center of the new area's manufacturing. With the help appearing in China's major eco- Beihu Scientific and Techno- of the 3-sq-km district, the local

jungle of high-rises, such as industrial and living services. the city's processing and manu-Manhattan in New York and The 2-square-kilometer area facturing.

securities and accountancy. Changchun Airport Economic Asia Public Service Center, al corporations in the industries national first-class modern ser- construction next year. of finance, trade and insurance vice center to serve Northeast are headquartered. These large Asia, with multiple services of *Contact the writers at rengi*@ companies have the ability to international conferences, exhi- chinadaily.com.cn and

opment in a market economy. exchanges and consulates. Nowadays, corporate head- The International Logistics Four commercial centers quarters, financial centers and Service Center, covering an

vice capabilities of the new area, In Changchun New Area, constructed to serve the Northsaid the area's administrative the four new commercial cen- east Asian Logistics Park and ters are planned to be the core promote the development of They are also about to function zones in terms of gath- the logistics industry in the city. increase the internationaliza- ering international elements, The Changde Service District, tion of the new area and boost industrial elements and human located in the Changde Eco-

dominate local economic devel- bitions, public services, cultural haonan@chinadaily.com.cn

and insurance services. It will be

nomic Development Zone, will Central business districts, The Longxiang International boost the development of modnomic powerhouses. logical Development Zone, will overnment hopes to accelerate free trade and It is traditionally a concrete focus on developing high-end the industrial agglomeration of

Central in Hong Kong, and will integrate conference hotel The Longxiang commercial dominated by tertiary indus-venues and companies of tech-center is now under construc-revitalization tries, not traditional ones. The nological innovation, business tion. Other projects, such as most advanced and developed finance and tourism. the Changchun Northeast Asia in northeastern sectors in these modern societ- The Airport International International Conference and ies include finance, insurance, Business Center, located in the Exhibition Center, Northeast **areas.**" The CBD is seen to have a Development Zone and cover- Northeast Asia Planning Exhibi- Wang Yunfang, a professor function of economic control as ing an area of about 8 sq km, tion Center and a logistics man- with the Civil Aviation it's a district many multination- aims to build itself into an inter- sion, will carry out large-scale Management Institute of



An illustration of the Longxiang International Commercial Center, located at the center of the new area's Beihu Scientific and Technological Development Zone. provided to china daily

WARMEST CONGRATULATIONS ON **THE ANNIVERSARY OF CHANGCHUN NEW AREA!**



CHANGCHUN NEW AREA LOOKING FORWARD

Two ports, four commercial centers, 10 industrial zones, three economic pillars as well as its unparalleled environment will soon illuminate the future of Changchun New Area. After taking shape, the projects will not only be a breakthrough for Changchun in terms of adjusting its economic structure, but also provide a motive for the city, Jilin province and Northeast China to develop their new economy, too.



Left: Researchers at Changchun JA Biotech. Right: An engineer operates the intelligent factory management system made by Changchun E-Plus Technology at an auto parts factory. Changchun New Area aims to build upgraded industrial management driven by leading technology. LIU RUIFENG / FOR CHINA DAILY



A visitor experiences a virtual reality skiing program in Changchun New Area. LIU RUIFENG / FOR CHINA DAILY



competitiveness tosterin several large sectors

Li Guanghui, vice-president at the Chinese Academy of International Trade and Economic Cooperation at the Ministry of Commerce

By SONG MENGXING songmeng xing@chinadaily.com.cn

to focus on the future.

proved by the State Council in February.

he auto industry, and the four strategic emerging equipment.

science and technology finance, information ser- for such equipment.

conference and exhibition).

agriculture.

old industrial center. Changchun New Area plans to grow into a chain.

nanufacturing equipment. of China's auto sector, paying close attention to Jilin University.

automobiles and auto parts. Local officials said Jilin has solid industrial promoting modern agriculture is a fundamen- platforms and incubators will help to promote the foundations in fields such as new energy vehicles, tal way to help farmers to increase income and opening-up of the industrial system in the area.

lithium batteries and battery materials. boost agricultural productivity nationwide. As such, Changchun New Area is planning and development as well as the manufacturing to build modern agricultural systems. to set up an innovative industrial system of key components such as high-power batteries. It aims to improve production of vegetables,

turing and modern services and agriculture Technology, develop the space industry and become more self-sufficient in fresh food.

The area aims to become a new and powerful as Guangdong Longhao Aviation Group Co Ltd to products to visitors. ngine for the economic development of Jilin prov-help it to become an important general aviation The United Nations Office for Project Services

five plus six plus two," officials said. es of Jilin by dedicating resources to the devel- ture and food safety industries. Five refers to one advantaged sector, namely opment and manufacturing of ice and snow The project, with total investment valued at 30

cine and new materials and energy. han Sports Industry Group, which it hopes will lems.

care and tourism and MICE (meeting, incentive, largest biological medicine industrial park in Asia. finance, e-commerce trade of agricultural prod-Related organizations in the area can already ucts and food safety accountability systems. The "two" represents modern agriculture's two produce 24 kinds of vaccines, which the area The area plans to use its strengths in high-tech logical vaccine industrial cluster.

developed quickly in recent years along with the cals, a large genetic engineering pharmaceutical the area will center around, focusing on transnational strategy for reviving Northeast China, an enterprise, and will use the company's needs port, e-commerce and opening-up. and experiences to develop a related industrial Aviation, railway and road logistics will also

ocusing on three key fields: crucial parts, intel- duction is expected to depend heavily on border e-commerce. ligent control systems and machinery and basic research organizations and universities such The area also focuses on development of parks as the Changchun Institute of Applied Chem- specifically built to serve leading industries.

The area will be able to produce both finished mass energy technologies and related products. space information industrial park.

They said Changchun New Area will build a The area views modern agriculture one of its whole industrial chain for new energy automo- sectors with the most potential. It will depend on 't is fitting for a place labeled a "new area" biles, focusing on blade electric vehicles and plug- Jilin's rich natural resources, solid agricultural in hybrid electric vehicles, and promote research foundation and the strength of its brands' R&D

focusing on sectors of advanced manufac- The area will, based on Chang Guang Satellite meat, eggs and milk and help the country become

the end of 2020, the area's officials said. a nationally influential center for satellite applica-The new area's location in Northeast China was tion demonstration, R&D and manufacturing. based on agriculture and build modern agricul-It also hopes to attract leading companies such tural parks that promote technology and provide

ince, of which Changchun is the capital. industrial center in northeastern China. and Changchun New Area agreed to develop an The new area's industrial system will feature The area plans to use the snow and ice resourc- international demonstration area for the agricul-

billion yuan (\$4.35 billion), will use technologies industries of advanced equipment manufactur- It has attracted a high-end ice and snow equip- like big data, cloud computing and geographic ng, optoelectronic information, biological medi- ment manufacturing project from Shandong Tais- information systems to tackle food safety prob-

Six stands for the six modern service industries: make the area an important production center The project plans to stretch industrial chains and expand industrial scale by adding fields such vices, cultural creativity, trade logistics, elder Changchun New Area also hopes to house the as advanced biological science and technology,

emerging industries, refined foods and urban hopes will drive the development of a large bio- information technology to develop an internationally-influential modern services sector. Advanced manufacturing in Jilin province has The area is home to GeneScience Pharmaceuti- Trade logistics is among those modern services

be promoted in the area, which will build some mart equipment manufacturing center in China, New materials and energy technology pro- e-commerce logistics parks to expedite cross-

The area also aims to become the Silicon Valley istry at the Chinese Academy of Sciences and The area hopes to foster 10 symbolic parks, including a high-end equipment manufacturing trends in transnational corporations' automotive The field will prioritize development of new industrial park, a new energy vehicle industry materials, new energy automobiles and bio-park, a biomedicine industrial park and an aero-

Officials at Changchun New Area said that The 10 parks that contain projects of service

Planning for integrated, innovative development

Changchun New Area's overall planning for 2016-30 offers comprehensive and detailed analysis growth. Guanghui, vice-president at the Chinese mostly focus on industrial activities, with Academy of International Trade and limited impact on regional economic Economic Cooperation at the Ministry of growth, Bai said.

Commerce. Li said economic development in Area takes this into account and pays Northeast China has slowed in recent considerable attention to fostering years, including in Jilin province, of which productive services, such as technology Changchun is the capital. He explained and finance, information services and hat leading industrial systems have not trade logistics as it establishes opening been built, and that economic growth did up and innovative industrial system not have strong support systems.

According to Li. Changchun New Area plans to expand and extend the area's value chain and promote its core competitiveness globally by fostering several large sectors such design. as automobiles, high-end equipment manufacturing, optoelectronic information and biological medicine. By doing so, the area's industries will clusters. support wider economic development, The development process should

The plan also proposes opening-up economic elements, and balance the and establishing innovative industrial external environment with industrial systems. Li said, adding that undertaking clusters' internal operations, said Liu such activity in the new area reflects Innovation-driven development is Jilin's economic development ambitions. not limited to high-tech sectors, as In his eyes, Changchun New Area, as an traditional industries may also promote engine for Jilin's future development, entrepreneurship and industrial needs to closely integrate with the wider innovation, he added.

province and Northeast China. production, national-level new areas of some advanced sectors such as well, such as services and management. processing. She added that the new area aims to

integrate local industries and the city, becoming engines of regional economic of the area's leading industries, said Li Various development zones in China

According to Bai, Changchun New

Liu Binglian, dean at the Institute of Economic and Social Development of Nankai University, said the new area has scientific and reasonable strategies and goals in terms of industrial system

According to Liu, choosing the right locations depends on taking many factors to create distinctive industrial

consider both national and international

Changchun New Area not only Bai Xuejie, a professor at the Institute supports strategic emerging industries, of Economic and Social Development of such as biomedicine and new materials. Nankai University, said that aside from but also is boosting the competitiveness gradually improve other city functions as automobiles and agricultural product

SONG MENGXIN





Changchun Cedar Electronics Technology has strong backup from **Changchun E-Plus Technology** helps to streamline industrial the Chinese Academy of Sciences. LIU RUIFENG / FOR CHINA DAILY

production and monitor engineers' workload. LIU RUIFENG / FOR CHINA DAILY



A staff member at the Changchun GeneScience Pharmaceuticals. LIU RUIFENG / FOR CHINA DAILY

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10 industrial parks

The construction of the 10 industrial parks in Changchu New Area features innovation in functions, contents and management. Each park comprises a leading and charact industry in which service centers, industrial bases ar incubators for industrial innovation will be settled, with

number of business projects under negotiation. The park wil

open to pooling of land as a way to achieve self-manageme

play an important role in the construction of the environme

and the atmosphere of innovation and entrepreneurship

Focus on smart, eco-friendly growth

By REN XIAOJIN renxiaojin@chinadaily.com.cn

Angchun, a northeastern city rising out of the cold soil in Jilin province, is , accelerating the pace of its environmen Lal development by building Changchur

Following the call of the 13th Five-Year Plan (2016-20), the city aims to accelerate its transformation from an industrial town into a modern environmental smart city.

Even though it is built on the frozen soil, Chang chun bears the title "city of spring" in Northeast

Literally meaning "long-lasting spring", Change hun is a monsoon-prone city with four distinct sea sons, with winter usually lasting for five months. Changchun has also long been regarded as China's City of Automobiles or China's Detroit, because of its large industrial bases, focusing on automotive production.

But now the city is chasing after another nam that of an eco-friendly city with a combination of greener urban design, a low-carbon lifestyle and well preserved natural resources in its newlyplanned area.

Jilin needs to push its ecological civilization, strengthen counter measures against pollution, promote clean energy and expand its green land, said President Xi Jinping during a recent trip to Jilin The goal is to make the sky bluer, the land greener and the water cleaner, to create a better environment, he added.

Ecological civilization is a new concept proposed by former president Hu Jintao as futureoriented guidance for development, recognizing the damage already done to the environment by the mushrooming economy

Throughout the past decade, Northeast China's economy has boomed at the cost of the environ ment, interrupting the balance between economy

For example, heavy industries' layout was planned without taking into consideration the impact on the environment.

The exploitation of resources exceeded the env ronment's capacity.

Boosting the economy without substantial dam age to the environment is the major obstacle in the progress of urbanization.

Jilin government believes that the key to solving this problem is to achieve maximum efficiency. hrough quality space and resources.

"Natural resources are Jilin's essential stronghold and it is also a precious gift from nature," said Bayin Chaolu, Party chief of Jilin. "We need to ensure awareness of green development and let green development be the guideline," he added. At present, Changchun is working toward

becoming a major city in Northeast Asia. The recently approved Changchun New Area development plan covers the period of 2016-30. Its main strategy will echo the Belt and Road Initiative in order to revitalize Northeast China

and the National New-type Urbanization Plan, and finally aim to build an ecological city up from foundations in the frozen land.

Piloting a cold region eco-system

Based on its particular climate and geo conditions, Changchun has adapted its development to reflect that of other established cities, such as Vancouver, Canada, and Freiburg, Germany.

Vancouver experienced a similar dilemma to that which Jilin is currently facing: over-exploitation of natural resources to meet the demand from its automotive industry.

This led to environmental damage in the western Canadian city. In 2009, Vancouver put forward a report called Vancouver 2020: A Brighter Green Future, to initiate and implement reforms.

Freiburg has also spent 40 years putting forward 41 action plans to transform itself into an eco-friendly city.

Jyri Nieminen, chief sustainability officer at Sweco Finland Ltd. quoted by Changchun Daily. confirmed that Changchun's approach is efficient 'Changchun's plan has been made with careful consideration of successful cases and its own character. It has taken ecology, environment and energy into consideration, and it covers all aspects



Children living in Changchun New Area enjoy a happy moment with a mother. The area is not only a top investment destination, but also a comfortable residential community. PROVIDED TO CHINA DAILY

Natural resources are

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Bayin Chaolu, Party chief of Jil

Changchun's plan has

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Jyri Nieminen, chief sustainability officer at

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character.

Sweco Finland Ltd

portation and administration?

Wang Junzheng, an official with the Standing an eco-friendly city in this cold region. ommittee of Jilin Provincial Committee. "We The new area will be constructed on the base of need to learn from different advanced cities and three geographic features: a green belt from Dahei aim for a better image, because city planning Mountain, four river corridors across the city and ecides the future. We must build a respectful multiple lakes. image of the city as well as focusing on living The mountain area will be strictly protected tandards for residents," Wang added.

ties. Fast-paced urbanization can often lead to a and build an improved river net for better mainrge number of standardized urban cities. tenance

chun New Area will work on preserving its own functional parks to extend the green space. features and identity, such as its unique geological In the city's high-tech zone, residents will be andscape shaped by long-lasting winters. able to spend leisure time in the forest park.

ing principle for the city's plans. The plans have preserved to provide habitats for wild birds.

New Area, the self-cleaning and recycling capabil- ness of and encourage a low-carbon lifestyle, by ity of the water supply system will be enhanced to increasing recycling rates, reducing consumption boost efficient water use.

lishing an end-to-end recycling system from waste energy. collection, transportation, categorization and To make full use of its resources, especially processing, to reduce the consumption of raw household waste, an advanced recycling system materials.

In addition, the new area will emphasize mini- of waste processing centers. mizing pollution by largely optimizing its energy The aim is to create a closed recycling loop to structure, encouraging clean energy, reducing achieve the maximum use of raw materials. residential buildings' energy consumption and In addition, a series of regulations on archiadvocating the use of public transportation. tectural design will be put forward to conserve

A relative industry union, a technology innova-The government will also work on bus routes

the near future.

To reduce air pollution, which is especially severe in Northeast China, the new area will optimize its gas and heating system to reduce emis-

Also, the area will establish a thorough monitoring network for both noise pollution and the ecological environment, with improved regulation. Changchun New Area sets its emphasis on both

the environment and its residents. By taking these needs into consideration, Changchun New Area has worked out its own approach to building an eco-friendly city and has established an example for other northeastern

Shen Qingji, the doctoral supervisor at Tongji University's architecture and city planning department, spoke highly of Changchun New Area's plan: "Changchun New Area sets its emphasis on both the environment and residents. By taking these needs into consideration, the New Area has worked out its own approach to building an ecofriendly city and has established an example for other northern cities."

Protecting natural resources

Changchun New Area will spearhead a strategy o build a harmonious living space where human beings and the forest can co-exist.

The city's designers view the area as a whole rather than as separate segments.

Therefore, the use of farmland, the mountains, the forest and water sources will be systematically administrated by one department rather than separate offices working individually.

Planners of Changchun New Area believe that by authorizing one single office, the area will benefit from a cohesive and integrated design in which all parts work efficiently with each other, to better protect the ecosystem.

"Changchun New Area will make good use of ts abundant natural resources of mountains, forests, lakes, rivers and farmland," said Wu Shunze, deputy head of the Ministry of Environmental Protection's reform office. "It will concentrate on the improvement of the

environment and human It will make use of its abundant mountains,

of life, from living space, to manufacturing, trans-It looks to concentrate on the improvement of

Urbanization is all about city planning," said the environment and human wellbeing, and build

and strategies such as "grain for green" will be Changchun's new city plan learns from these implemented to increase forest coverage.

tablished cities, but also considers its own quali- The new area will also dredge river channels

However, according to the city's plan, Chang- In the inner city, the new area will construct

The concept of green development is the guid- Along the riverside a number of parks will be

ddressed issues such as how to build a low- Two more parks will be placed in the city to carbon economy and improve residents' quality increase the capacity for retaining rainwater and to mitigate potential water logging.

Low-carbon lifestyles

To tackle the lack of water sources in Changchun Changchun New Area will also raise awareof traditional energy resources and promoting use Also, the area will reduce solid waste by estab- of public transportation that operates on clean

will be established all over the city with a number

Furthermore, Changchun's new area will experi-energy. In order to eliminate the urban heat island ment with industrializing wooden structure archi-effect, large public buildings will be covered in green roofs.

tion center and a state-level lab will be set up in and bicycle lane planning to promote a low-carbon system for commuters.



The Beihu Wetland Park covers 164,000 square meters in Changchun New Area. PROVIDED TO CHINA DAILY



Industrial Park (15 sq km) Development of intelligen agriculture and high-tech



sq km): Development of ai travel and logistics



Industrial Park (0.2 sq km) Production of satellites and unmanned aerial vehicles,



General Aviation Industrial

manufacturing.



Park (7.5 sq km): industrial base for the

km): Construction of a back chain of new energy vehicle

Construction of a diverse

aviation industry.





Modern Agricultural food safety industry.







High-end Equipment Manufacturing Industrial

Big Data Industrial Parl

(1.5 sq km): Construction o

an intelligent digital platforr

based on cloud computing t

serve Northeast China.

Northeast Asian Gree

Health Industrial Park (8 sq

km): Development of elderly

care, tourism, sports and

healthcare industries.

Park (6 sq km): Research and development of logist equipment, aerospace equipment, sports equipment and robots.



nternational Education and Information Industrial Park (13 sq km): Construction of an international college town.

Biomedical Industrial Pai

Industrial Park (2.5 sq