

## Beijing tracks the elderly as they take buses, go shopping

May 30 2016, by Louise Watt

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In this April 1, 2016 photo, a worker swipes the "Beijing Connect" old person's card for a customer at a steamed bread store in a supermarket in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)

These days, when people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population.

The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the [elderly](#) in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million.

Though geared toward the elderly, the program demonstrates how China more broadly is using [big data](#) to better direct the use of [government](#) resources for the country's 1.4 billion people. Beijing's strategy is to use new technology and its heavily censored Internet to innovate and propel China's transformation to a services-based economy—a strategy that Premier Li Keqiang has said "will trigger a new Industrial Revolution."

In a sophisticated example, Beijing municipal government is collecting the disparate data on the elderly in order to predict what services will be needed in the future. This is to make sure it has the necessary budget and services in place, by taking into account people's decreasing mobility, for example, said Bai Qiang, vice president of Beijing Community Service Association, a city government agency.



In this March 15, 2016 photo, Bai Qiang, vice president of Beijing Community Service Association, a city government agency, speaks against a data screen as he introduces the "Beijing Connect" old person's card at his office in Beijing. The data amassed with each swipe of the multi-purpose old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)

"All of the data we are collecting now, including visits to parks, the use of [public transport](#) and (numbers of) shopping trips, will help us to predict whether the elderly will become disabled in the future," Bai said.

The thinking is that if an elderly man is paying fewer visits to parks or taking buses less, that will show up in the data. The government can then judge what the disability rate will be in future and prepare a budget plan in advance, Bai said.

Cardholders interviewed said they weren't concerned about a loss of privacy and praised the program as far more convenient than the coupons the government used to give them for the same services.

"I've no worries. Elderly people don't have any secrets," said Liu Huizhen, 84, who was using her card to buy steamed bread in a small supermarket.



In this May 25, 2016 photo released by Xinhua News Agency, visitors walk past the giant word for "Data" during the Guiyang International Big Data Expo 2016 held in Guiyang in southwestern China's Guizhou province. Authorities in China are using big data to direct the use of government resources for the country's 1.4 billion people. Beijing's strategy is to use new technology and its heavily censored Internet to innovate and propel China's transformation to a services-based economy - a strategy that Premier Li Keqiang has said "will trigger a new Industrial Revolution." (Liu Xu/Xinhua via AP)

"It's hard for [elderly people](#) to count" coin-by-coin, Liu said. "And when you take the bus you just swipe the card, it's very simple and convenient."

The State Council, China's Cabinet, issued a plan to promote big data in August, calling for the accessing and sharing of government data to improve governance. In response, the southern province of Guangdong on April 25 announced a strategy promoting the collection and use of big data in areas including the integration of air and water monitoring information with pollution forecasting, the creation of electronic medical records and the sharing of information on tourists traveling to scenic spots to better manage traffic.

The Guangdong plan also called for the collection of population data on the elderly and a "comprehensive analysis" of their service needs, similar to what Beijing is now offering.

While China is still behind countries such as the United States, Britain and Germany in terms of the development of [big data infrastructure](#), it is unique in its commitment to the project and the speed with which it is progressing, said Zhang Yue, managing director of The Boston Consulting Group in China.



In this March 15, 2016 photo, Bai Qiang, vice president of Beijing Community Service Association, a city government agency, speaks as he introduces the "Beijing Connect" old person's card at his office in Beijing. The data amassed with each swipe of the multi-purpose old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)

Although China's national and local governments, ministries and departments are the owners of a large quantity of financial, residential and other data, they have yet to share the information among themselves, Zhang said.

"The government has realized that if they want to really take full advantage of (what is in) their possession they need to integrate those, otherwise the value of the data is quite limited," she added.

At the same time, China needs to deal with the needs of a rapidly aging population, the result of rapid economic development, longer lifespans and a strict, 35-year-long family planning policy that limited births, creating a shrinking working-age population. While the elderly were traditionally looked after by their children, they are increasingly turning to oversubscribed old people's homes or fending for themselves at home, sometimes with the help of visiting caregivers.

Other regional authorities are also using data-gathering to help the elderly, including in the northeastern city of Shenyang. The city is trying to use the information on the 1.6 million older residents in its database to better match them up with its more than 160 old people's homes.



In this March 15, 2016 photo, Bai Qiang, vice president of Beijing Community Service Association, a city government agency, introduces a sample of the "Beijing Connect" old person's card during an interview at his office in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve

services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)

However, none of those efforts are as wide-ranging and integrated as Beijing's own multi-purpose card, which is slated to be expanded to cover the nearly 20 million people aged 60 and above who live in Beijing and the neighboring regions of Hebei and Tianjin city by the end of 2018.

The card functions as ID and gives free access to public transport and public parks. The government also tops up the card with 100 yuan (\$15) each month, and cardholders can activate an additional function to enable them to use it as a bank card onto which money can be transferred from an account.

Zhao Fangjun, strolling along in a park where a row of elderly were sunning themselves one morning, said that in addition to the government subsidy, his mother-in-law transfers 250 yuan (\$38) onto the card each month. He said the card can be used not just in selected shops and restaurants, but also to hire a cleaner and take out a newspaper subscription.

Rogier Creemers, who researches China's governance of technology at the University of Oxford, said China is a world leader in the degree to which it is integrating such functions.





In this March 31, 2016 photo, a group of elderly women rest on their wheelchairs at a residential compound in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)

"What allows China to do something like this is the fact that behind everything you have a single unified network of power, which is the Chinese Communist Party," Creemers said.

Some cities, like Nanjing, have social security cards with an e-payment function that can be used for public transport and medical treatment and are available to all residents, not just the elderly. Shanghai, China's most

populous city, has just introduced a card for people 65 and over that distributes government subsidies, offers discounts in restaurants and free rides on public transport and can also be used as a bank card. This card doesn't collect big data, however, according to Shanghai government's social security office.

Beijing's database, set up last year, aims to improve home-based care. It includes information on the numbers of elderly living alone, their incomes, and those requiring meal deliveries or simply someone to talk to. Elderly people applying for the card fill out registration forms with government offices found in every neighborhood.

Bai says the data is confidential and cannot be accessed or distributed by anyone without government approval.

"What we are doing is not monitoring, but collecting the data," he said. "All the data we collect aims to enable the government to provide better services to the elderly. For example, if we detected that a type of service was in great demand, we would get in touch with the relevant companies to request a discount."



In this March 31, 2016 photo, elderly women chat as they rest at a residential compound in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)



In this April 1, 2016 photo, an elderly woman looks at the steamed bread on sale at a supermarket in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)



In this April 1, 2016 photo, an elderly woman swipes her "Beijing Connect" old person's card as she buys steamed bread at a supermarket in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)



In this April 1, 2016 photo, a worker swipes the "Beijing Connect" old person's card for a customer at a steamed bread store in a supermarket in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)



In this April 1, 2016 photo, a sign which means "accept the Beijing Connect old person's card" is on display at a steam bread store in a supermarket in Beijing. When people over 80 in Beijing take a bus, see a doctor or spend money, their activities are digitally tracked by the government, as part of an effort to improve services for the country's rapidly growing elderly population. The data amassed with each swipe of the multi-purpose "Beijing Connect" old person's card goes into a massive database of the elderly in the capital. City authorities hope the information will enable them to better cope with their burgeoning population of over-60s, which already stands at 3 million. (AP Photo/Andy Wong)

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Citation: Beijing tracks the elderly as they take buses, go shopping (2016, May 30) retrieved 18 April 2024 from <https://phys.org/news/2016-05-beijing-tracks-elderly-buses.html>

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