

南華早報 | 香港浸會大學 | 發行量 / 接觸人次: 105,347 | 2021-03-25 報章 | CITY10 | LIFE | By Sian Powell sian.powell@scmp.com

Before it goes to waste

Restaurants, shops and NGOs worldwide are linking with apps to funnel uneaten and unsold food to the needy rather than let it rot in landfills and add to greenhouse gases

Loaves of bread from a popular chain bakery outlet will not be fresh enough for customers by tomorrow, so tonight they will be collected by a volunteer and taken to a charity for distribution to the hungry.

Containers of soup won't be ordered by restaurant customers for a set lunch today, so tonight they will go to a discount food rescue app for a flash sale. The cupcakes and luxury desserts left over in an elite bakery will be marked down by half to get them moving to food rescue customers rather than be consigned to the garbage bin.

From a small base, food rescue is accelerating in Hong Kong, encouraged by the government, appreciated by the needy and enthusiastically adopted by the price-conscious.

A new anti-food-waste app, Phenix, was launched in Hong Kong in February, in partnership with the members-only designer fashion flash sale firm OntheList.

Already popular in France, Belgium, Italy, Portugal and Spain, Phenix in Hong Kong has so far signed up about 20 providers, including restaurants such as Oolaa and Cali-Mex, shops such as Cakery, the Rise bakeries and most recently, the City'super supermarket chain.

Phenix app users can specify the types of food they want to buy from shops and supermarkets, such as fruit and vegetables or dried goods, and nominate whether they are vegetarian, and whether they require halal or organic food.

Offers from shops and restaurants of the types of food available appear on the app, along with prices, time windows for collection, the geographic location of the provider and how far they are from the customer.

Cakery, for instance, in the Landmark building, might on the day offer a small selection of cakes, such as two cupcakes, for a price reduced from HK\$110 to HK\$55, available for collection for an hour after 5.30pm. The Black Garlic restaurant in Pacific Place may offer a seafood, rice, vegetable and soup set for HK\$40, for collection between 6pm and 7pm.

OntheList co-founder Delphine Dultzin says many dozens of Phenix's baskets, such as cheese baskets from Cheese Club and bakery baskets from Little Mermaid, have already been snapped up by eager customers and she expects the app to grow fast. OntheList members have been intrigued by the Phenix concept, she says.

"Phenix in France has as many as 8,000 partners," she says. "Here, it's just beginning. We have the customers, they are very interested."

Food rescue programmes like Phenix will go some way towards minimising the massive waste of food in Hong Kong. Millions of cooked meals, boxes of fruit and vegetables, meat and seafood, loaves of bread and other baked goods



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are wasted in Hong Kong every year.

Wet markets and other markets in the city have ways to minimise food waste, by discounting foods that are nearing their use-by dates, and donating leftovers to local charities. Yet, according to the Environmental Protection Department (EPD), an average of nearly 3,500 tonnes of food was wasted every day in Hong Kong in 2019, and it seems unlikely there has been much of a reduction since then.

Nearly all this food waste wound up in landfills, breaking down and producing greenhouse gases that contribute to climate change.

The Phenix model in Hong Kong resembles the popular Too Good to Go app that is taking off around the world. Launched in Copenhagen, Denmark, in 2016, and now operating in 15 countries in Europe, Too Good to Go says it has signed up more than 77,000 food providers and more than 33 million people around the world.

Using the TGTG app, consumers can pick up massively discounted bags of leftover food for, say, US\$5, from providers at a specific time, usually at the end of the day.

Governments everywhere are funding worthy food rescue projects in an attempt to chip away at the mountains of ready-to-eat food discarded every day.

More than a sixth, or 17 per cent, of all food produced around the world ends up being thrown away, according to the 2021 United Nations Food Waste Index report that used data from more than 50 countries. Despite this massive waste of food, the 50-page report notes more than 3 billion people globally cannot afford a healthy diet.

Artificial intelligence is increasingly being used to deal with the problem. Japan produces a massive 6 million tonnes of food waste every year, according to a Reuters report - the most per capita in Asia. The Japanese government has enacted a law to halve food waste costs from 2000 levels by 2030, encouraging the private sector to find solutions.

AI is now used by large Japanese retailers to monitor sales in an attempt to reduce overstocking, to check whether products have been damaged during shipping, and to provide discounts on unsold food.

Convenience chain Lawson in Japan uses AI to estimate how much of the products for sale may go unsold or fall short of demand, Reuters reports. Lawson aims to reduce excess stocking by a third and halve food waste at all stores by 2030 compared with 2018 amounts.

The private sector has been given incentives to limit food waste. According to the EPD, by January 2021, 23 nongovernment organisations had been funded to run 37 food-waste-minimisation projects and 61 food rescue operations.

Breadline, a Hong Kong web app developed by <u>Baptist University</u> assistant professor Daisy Tam, has volunteers who transport leftover bread and bakery goods to charities for those residents who often cannot afford to feed themselves. A volunteer who has registered with the Breadline app picks up donated loaves at a bakery's specified time and delivers them directly to a nominated NGO.

Tam won a Fulbright scholarship to MIT in 2018 to create the Breadline app, now run as part of her HK FoodWorks research organisation.

Although some bakeries stopped donating bread during the pandemic, Breadline operations continued with the bakeries that carried on with the programme. To date, Tam says, Breadline has delivered 27,000 loaves of bread,



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"so 27,000 breakfasts, if you like".

"I am really interested in a decentralised system, where people are enabled by technology," Tam says. "Volunteers can act very independently, which worked out really well during Covid-19 because we were able to continue operations."

Food rescue is an important way to minimise food waste, she says, and more efficient than collecting food waste and composting it, or converting discarded food into biofuel - methods also used by the Hong Kong government.

Since Hong Kong's recycling operation O. Parkl began in 2018, it has used anaerobic digestion technology to convert nearly 82,000 tonnes of food waste into biogas to generate electricity, the environment department says. O. Parkl has a capacity of 200 tonnes a day, and uses microorganisms to break down the food in an oxygen-free environment. The waste residue is converted into compost for use in landscaping and agriculture.

The Hong Kong government collects food waste for this type of recycling from schools, hospitals, public markets, cooked food venues, shopping centres and wet markets in public housing estates as well as wholesale food markets. In addition 120 operations - factories, restaurants, airline caterers, shopping malls and hotels - voluntarily collect, separate and deliver their food waste to 0. Parkl for recycling.

"To be honest, I think not enough is being done, even though there is a good vision and guidelines towards reducing food waste," Tam says.

"We all want to be more sustainable, especially in an urbanised environment. But a lot of the interest and effort has gone into waste to energy, and composting - looking at non-edible food waste and making it something else."

After shops close and cannot sell food, but before the food begins to rot, there's an "in-between time", of a few hours she says, when the loaves, or fruit, or vegetables can be channelled to the poor.

"Before we think about how to transform food into something else, let's just treat food as food," she adds. "Let's get food to where people need it."



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