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Charging for plastic bags may have unintended costs

Charging for plastic bags would affect how people dispose of food waste and increase the spread of vermin and diseases, says the writer. ST FILE PHOTO

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For The Straits Times

The National Environment Agency (NEA) is in discussions with the four major supermarket chains – FairPrice, Dairy Farm Group, Prime and Sheng Siong – to introduce a charge for plastic bags. The objective is to reduce the burden of waste disposal.

waste disposal.
Singapore consumes more than
800 million tonnes of plastic each
year, but recycles just 7 per cent.
Incinerating the plastic generates
carbon dioxide, contributing to
global warming. The residual ash
adds to the limited landfill at Pulau
Semakau

A charge for plastic bags would deter consumption of plastic bags and help to reduce environmental costs. Charging for plastic bags, however, may have unintended consequences for public health and estate cleaning.

It would affect how people

It would affect how people dispose of food waste and increase the spread of vermin and diseases.

One of the great conveniences of Singapore residential living is the ubiquitous rubbish chute. Toss the waste into the hopper and, instantly, it is out of sight, out of mind. Banana peels, vegetable scraps and chicken bones all drop to the ground, becoming someone

else's problem.
Free plastic bags at least
encourage people to wrap their
food waste before tossing it into the
chute. Even so, the long fall may
tear the bags, causing contents to
spill. So, unlike many advanced
economies, we need daily rubbish
collection. If not, the problem of
cockroaches and rats would be

The combination of free plastic bags and rubbish chutes is an application of the economic

principle of "second-best".
Generally, this economic
principle states that, if the
allocation of resources in two
related domains is distorted,
correcting a distortion in one
domain might amplify the
distortion in the other domain, and
so, reduce overall welfare.
The economic principle of

The economic principle of "second-best" explains why the Government subsidises the infrastructure of train and bus service. Private cars cause congestion, which is a negative externality. The obvious way to correct this externality is to charge for congestion. As we cannot completely charge for congestion, subsidising public transport is the second-best policy.

It is obvious that free distribution

It is obvious that free distribution of plastic bags leads to excessive consumption of plastic bags. Equally, it is almost axiomatic that ready access to rubbish chutes encourages people to discard waste without proper care.

Removing the subsidy for plastic bags would just exacerbate the careless discard of food waste.

Advocates of charging for plastic bags have cited a similar policy in Hong Kong as an example. Yet, they may not be aware that the design of many residential buildings in Hong Kong differs from those in Singapore.

Singapore.
My wife's family lives in Hong
Kong. Their flat does not have a
rubbish chute. Rather, a cleaner
goes to each of the building's 24
floors to clear rubbish from a
common bin at the fire secape.

common bin at the fire escape.

Newer apartment blocks in Hong Kong do have rubbish chutes.

Concerned about the proper disposal of food waste, the estate management gives free rubbish bags to residents liberally. And, of course, the rubbish bags are made of plastic. So, any gain from reducing the consumption of supermarket plastic bags should be balanced against the increased consumption of rubbish bags.

Back to Singapore. We already have a serious litter problem. It suggests that, generally, civic consciousness is at a rather low level. If plastic bags cease to be "free" (actually, they are not free, they are bundled with groceries), then more food waste would be directly thrown into chutes. More cockroaches and fatter rats.

Some have suggested that people can wrap their food waste in newspapers. Are they serious? How would they like to clear the bins at the bottom of each apartment block? This is a job that no Singaporean wants to do. Making the job even more unpleasant will only increase our reliance on foreign workers.

reliance on foreign workers.
I do not know if there has been any complete study on the effects of charging for plastic bags on total consumption of plastic bags (including purchases of rubbish bags), public health and the cost of estate cleaning. Absent a clear understanding of the costs and benefits, I suggest that the NEA

carry out a trial in one town.
Measure the actual change in
plastic consumption. Monitor the
effect on public health. Gauge the
impact on cleaners and cleaning
contractors. Then decide whether
it makes sense to roll out the policy
to the whole nation.

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