WASTE

China's New Front in the War on Pollution









World's Recycling Bin Now Closed



The Biggest Source of Plastic Trash You've Never Heard Of



Photo credit: Istockphoto/Gannet77

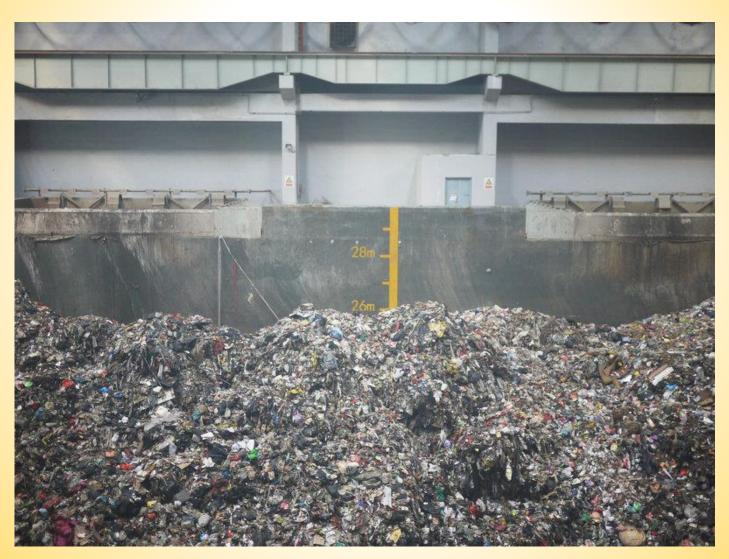
U.S. agriculture ~ billion pounds plastic annually
Films used for mulch/greenhouse covers/wraps for bales, tubing and pipes.
Also nursery containers, pesticide containers, silage bags, storage covers, twine and more.

Plastic Mulch on Cotton Crops in Xinjiang



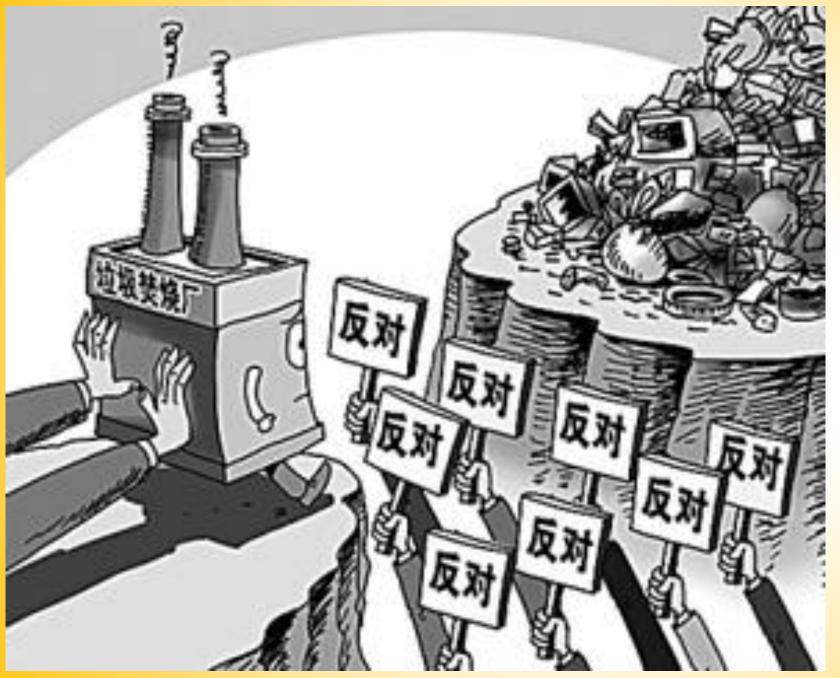


China's Solid Waste Will DOUBLE by 2035 to 500 million tons annually



~2100 Landfills

Photo Credit:
Rob Schmidtz/NPR



1.4 million tons per day by 2025 and likely half will be incinerated

231 incinerators, 103 planned





Shenzhen Planning World's LARGEST Waste-to-Energy Plant



Source: Gottlieb Paludan Architects

https://www.seeker.com/china-is-building-worlds-biggest-trash-incinerator-1771091940.html



2018 Soil Waste Law Amendments

Recycling Action Plan (54% by 2020!)

46 City Pilot Cities on Waste Sorting

Compulsory Waste Classification System by 2020

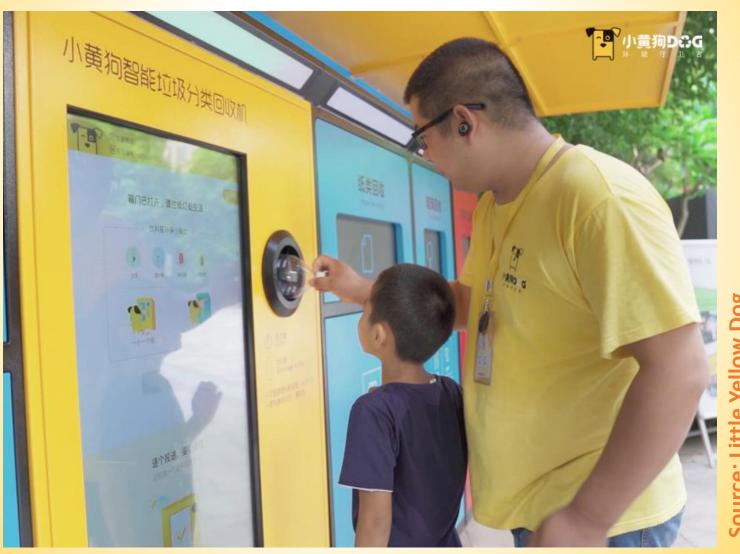
2017 Guidelines on **External Packaging Standards**

2018 Guidelines
on Green Packages for Express Deliveries





Little Yellow Dog Smart Trash Bins Money to Wechat Wallet for Recyclables



ource: Little Yellow D



- THE PORK INDUSTRY IN CHINA



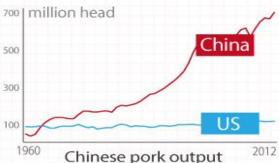
65% of the meat consumed by China is pork.

Per Capita Annual Pork Consumption in China



China consumes about of the world's pork.

HALF



Chinese pork output has increased by 15 times over the past five decades.

High hog population density in China has tightened supplies of feed and damaged the environment.

China: 94 pigs

US: 20 pigs





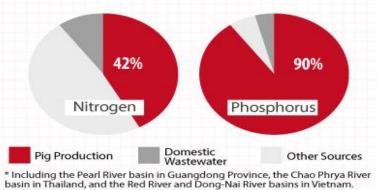


per 100 acres of cropland

The average pig in China produces 5.3 kg of waste each day, which contains nutrients, heavy metals, and pharmaceutical residues.



Pig production accounts for an estimated 42% of nitrogen and 90% of phosphorus flows into the South China Sea.*





Eutrophication of surface water damages wetlands and fragile coastal ecosystems



Leaching nitrates and pathogens contaminate soil and water



Excess nutrients and heavy metals damage soil fertility and shrink



Ammonia, methane, and other gases cause pollution and contribute to greenhouse effect



Diseased pigs are not always disposed of properly – 16,000 carcasses were found in the Huangpu River in 2013

Livestock farm waste is about

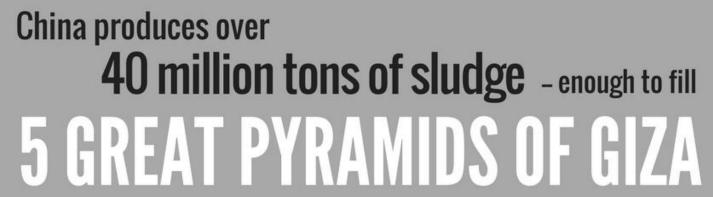
3 TIMES

the amount emitted from industries.

1.29 BILLION metric tons

of waste is produced by the Chinese pork industry per year.





with less than 20% properly treated.

Source: Asia Development Bank







© AFP/Getty Images

Source: Bauer Griffin

Source: Disney

100% Off Grid



Carlton Joint Water Pollution Control Plant, LA County

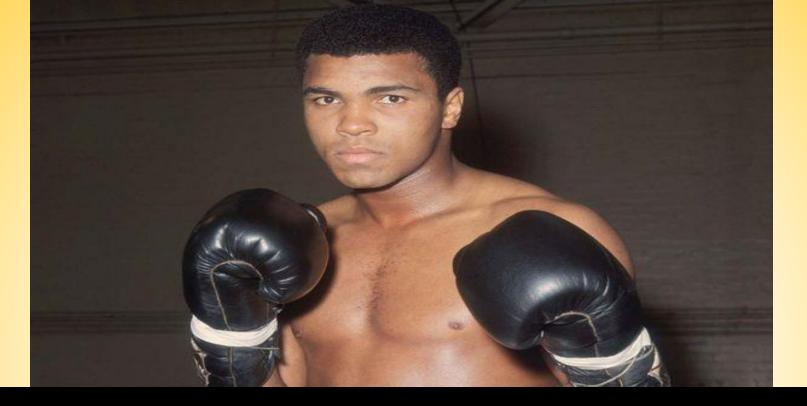


Wong Campion / Reuters



Photo Credit: TOVEN





Join The China Environment Forum! www.wilsoncenter.org/cef







Photo Acknowledgment Links not in PPT Body

Greenhouse photo https://ensia.com/features/the-biggest-source-of-plastic-trash-youve-never-heard-of/

Mikey Mouse Photo http://www.disneyeveryday.com/grab-a-fastpass-to-meet-mickey-mouse-at-the-magic-kingdom/

Body Builders: http://www.gossiprocks.com/forum/just-plain-scary/76519-bodybuilders-venice-beach.html

Pumpkin Pie: https://www.kingarthurflour.com/recipes/pumpkin-pie-recipe

Incinerator Protest: https://e360.yale.edu/features/as-china-pushes-waste-to-energy-incinerators-protests-are-mounting

Plastic Mulch http://www.world-agriculture.net/article/the-benefits-and-challenge-of-plastic-film-mulching-in-china

Title Slide garbage pile Flickr user Gerben van Heijningen

Muhammad Ali https://www.history.com/news/10-things-you-may-not-know-about-muhammad-ali