

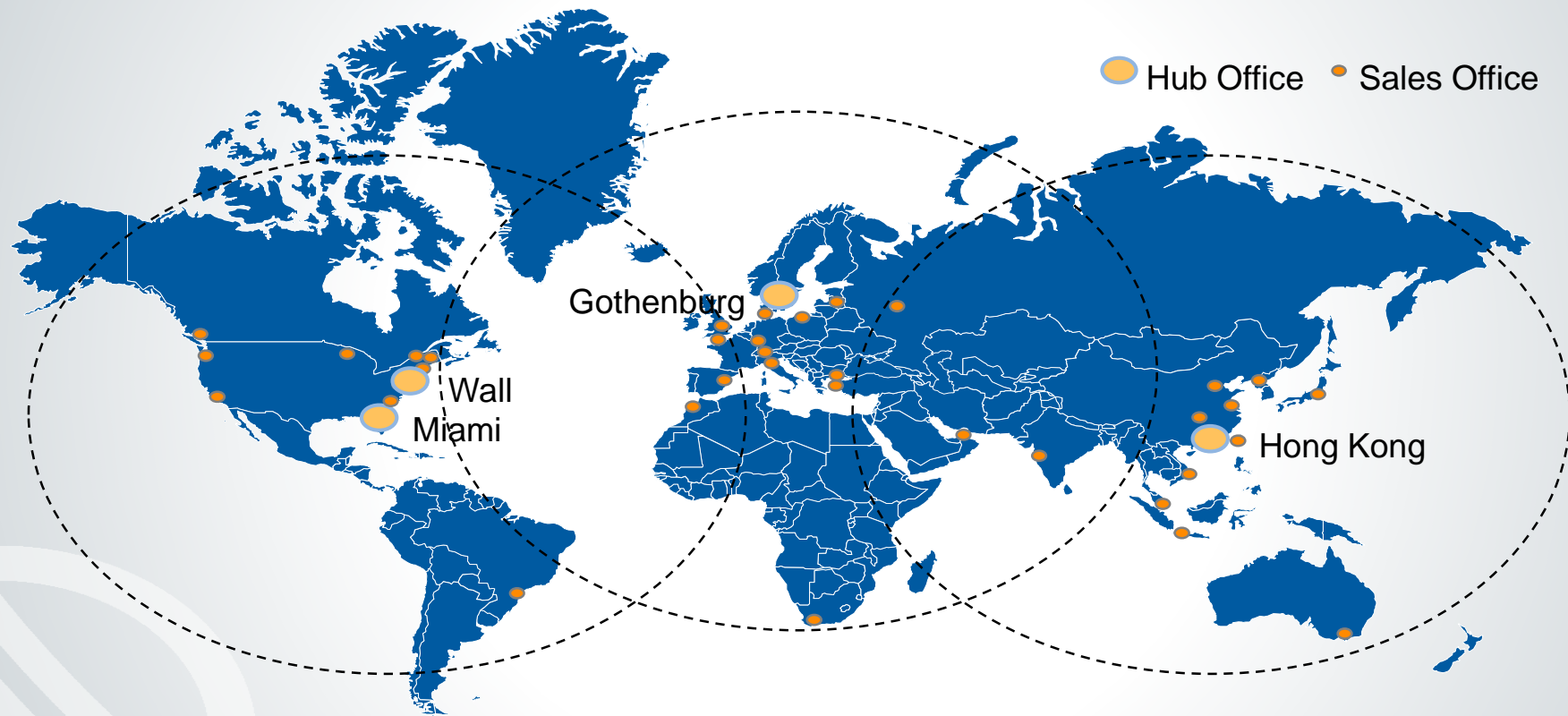


Ekman

BRINGING THE WORLD TO YOUR BUSINESS



EKMAN AROUND THE WORLD



TECHNOLOGY

Is This the End of Recycling?

Americans are consuming more and more stuff. Now that other countries won't take our papers and plastics, they're ending up in the trash.

ALANA SEMUELS MAR 5, 2019

JAN. 10, 2019, AT 1:38 PM

The Era Of Easy Recycling May Be Coming To An End

By Maggie Koerth-Baker

Filed under Recycling



Single-Stream Recycling













Baled Mix Paper from Single-Stream













CHINA POLICIES

- GREEN FENCE
- NATIONAL SWORD
- 5-YEAR PLAN (16'-20')



Vietnam looks set to ban import of mixed paper and mixed plastics

By **Paul Sanderson** - July 30, 2018

 129  0

 Like 4

GOVERNMENT

REST OF WORLD

MALAYSIA AND VIETNAM FOLLOW CHINA'S LEAD WITH WASTE IMPORT RESTRICTIONS

By **Rob Cole** | 6 August 2018 | [Add a Comment](#)

Dear all,

Following up on findings of discrepancies in the importation of waste paper by Indonesian Customs at the port of arrival of Tanjung Emas – Semarang and Tanjung Perak – Surabaya, and while awaiting the issuance of waste paper inspection technical guidelines by the Ministry of Trade, we hereby convey that inspection methods currently applied for waste paper inspection namely 10% stuffing supervision was declared invalid.

The verification of waste paper import will be returned to its original rules, namely by 100% stuffing supervision. This provision is the same as the verification rules for the import of other types of non-hazardous waste (steel scrap, plastic, etc).

In addition to ensuring that the waste paper being examined is not contaminated with hazardous or toxic waste (B3) and not contain excessive impurities, random items must be opened at least 2% (two percent) from the total shipment bales. The maximum impurity limit is 0.5%.

The enactment of this change in inspection conditions applies to the inspection as of April 1st, 2019, and everything will be adjusted after the issuance of waste paper inspection technical guidelines by the Ministry of Trade.

Thus we convey this notice to be carried out strictly and orderly.

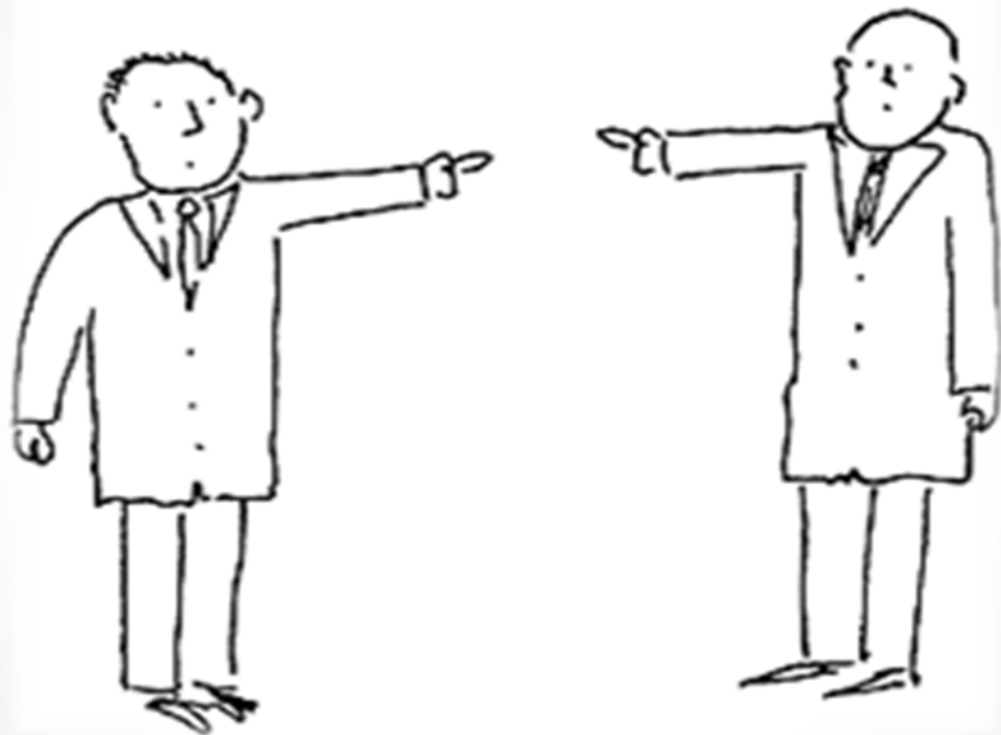
Sincerely yours,



Andre Esfandiari

 Head of KSO Sucofindo – Surveyor Indonesia

WHOSE FAULT ?



THERE IS PLENTY OF BLAME TO GO AROUND...

- ✓ Single-stream was always a flawed concept
- ✓ Overall poor recycling education in our country
- ✓ Often lazy & non-caring consumers
- ✓ Retailers & Brands only fairly recently taking some responsibility for end of life of packaging
- ✓ MRF's running their systems too fast
- ✓ Customers accepting mediocre quality for too long
- ✓ Politicians in office not doing enough





□ A GUIDE TO □ A BETTER BIN

RECOMMENDED PRACTICES BY THE RECYCLING INDUSTRY

ACCEPTABLE/PREFERRED*



Corrugated Cardboard
(Wavy center layer,
NO wax paper)



Boxboard
(Dry-food boxes, paper bags, egg cartons, & rolls,
NO wax paper)



Junk Mail, Periodicals, & Office Paper
(Envelopes, catalogs, & soft cover books,
NO wax or shredded paper)



Food & Beverage Cartons
(Aseptics such as milk, juice, & broth cartons)



Rigid Plastic Bottles & Containers
(#1, #2, & #5 plastics)



Metal & Food Cans
(Aluminum, tin, & foil)



Glass Bottles & Jars
(Food & beverage bottles & jars)

- ✓ No items smaller than 2" in size
- ✓ All containers are empty, rinsed & dry
- ✓ Cardboard is flattened & broken down
- ✓ The bin contains NO items from the PROHIBITED list



For more information on what makes
a Better Bin, visit **ABetterBin.org**

*Source: ISRI's guidelines for inbound recyclables for Materials Recovery Facilities

Artwork provided courtesy of Casella Waste Systems, Inc.

PROHIBITED



BATTERIES OF ANY KIND
DON'T BELONG



TANGLERS
DON'T BELONG



PLASTIC BAGS
DON'T BELONG



BAGGED RECYCLABLES
DON'T BELONG



CLOTHING/TEXTILES
DON'T BELONG



FOOD WASTE/ LIQUIDS
DON'T BELONG



SCRAP METAL ITEMS
DON'T BELONG



ELECTRONIC WASTE ITEMS
DON'T BELONG



NO Medical Waste
(Rubber gloves, sharps, pills, etc.)



NO Hazardous Materials or Explosives
(Find safe and secure disposal near you)



NO Toys, Hangers, or Shoes
(Donate gently used items)



NO Coated Paper Items
(Items with a plastic lining such as waxed coffee or soda cups, & waxed paper plates)



NO Plastic Wrap, Films, or Tarps
(Food bags or wrappers, plastic wrap, shrink wrap, or tarps)



NO Wood, Waste, or Tires
(Wood, diapers, human/pet or yard waste, or rubber)



NO Disposable Items
(Styrofoam®, napkins, paper towels, tissues, plastic utensils, dirty recycling, register tape, condiment packets, straws, stirrers, & coffee pods)



NO Ceramics or Baking Glass
(Donate gently used items)

Understanding & Tackling Quality Issues

- Programs have abandoned sound educational practices
- Residents increasingly placing most of their consumable household items in their recycling bins, recyclable or not
- Residents place items in bins “hoping” they are recyclable
- When residents relocate they often think same rules apply
- In some places households are attempting to meet “Pay as you Throw” garbage restrictions by putting refuse in recycling bins
- Programs expanding the scope of “acceptable” recyclables as packaging material evolved without understanding the economic & quality impacts or whether an item is truly recyclable.

What does the Path Forward Look Like?

- Many municipalities will revert back to Dual Stream Recycling
- Technology will continue to improve
- Domestic Mill capacity on the rise
- Government will finally be forced to get more involved
- Landfill taxes will rise
- Retailers will develop more recyclable friendly packaging
- Short-term pain, long-term gain

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ALANA SEMUELS MAR 5, 2019

World population projected to reach 9.8 billion in 2050, and 11.2 billion in 2100

21 June 2017, New York

The current world population of 7.6 billion is expected to reach 8.6 billion in 2030, 9.8 billion in 2050 and 11.2 billion in 2100, according to a new United Nations report being launched today. With roughly 83 million people being added to the world's population every year, the upward trend in population size is expected to continue, even assuming that fertility levels will continue to decline.



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THANK YOU!

Michael J. Arcieri