

A WASTE MATURITY MODEL

WHAT IS A “MATURITY MODEL”?

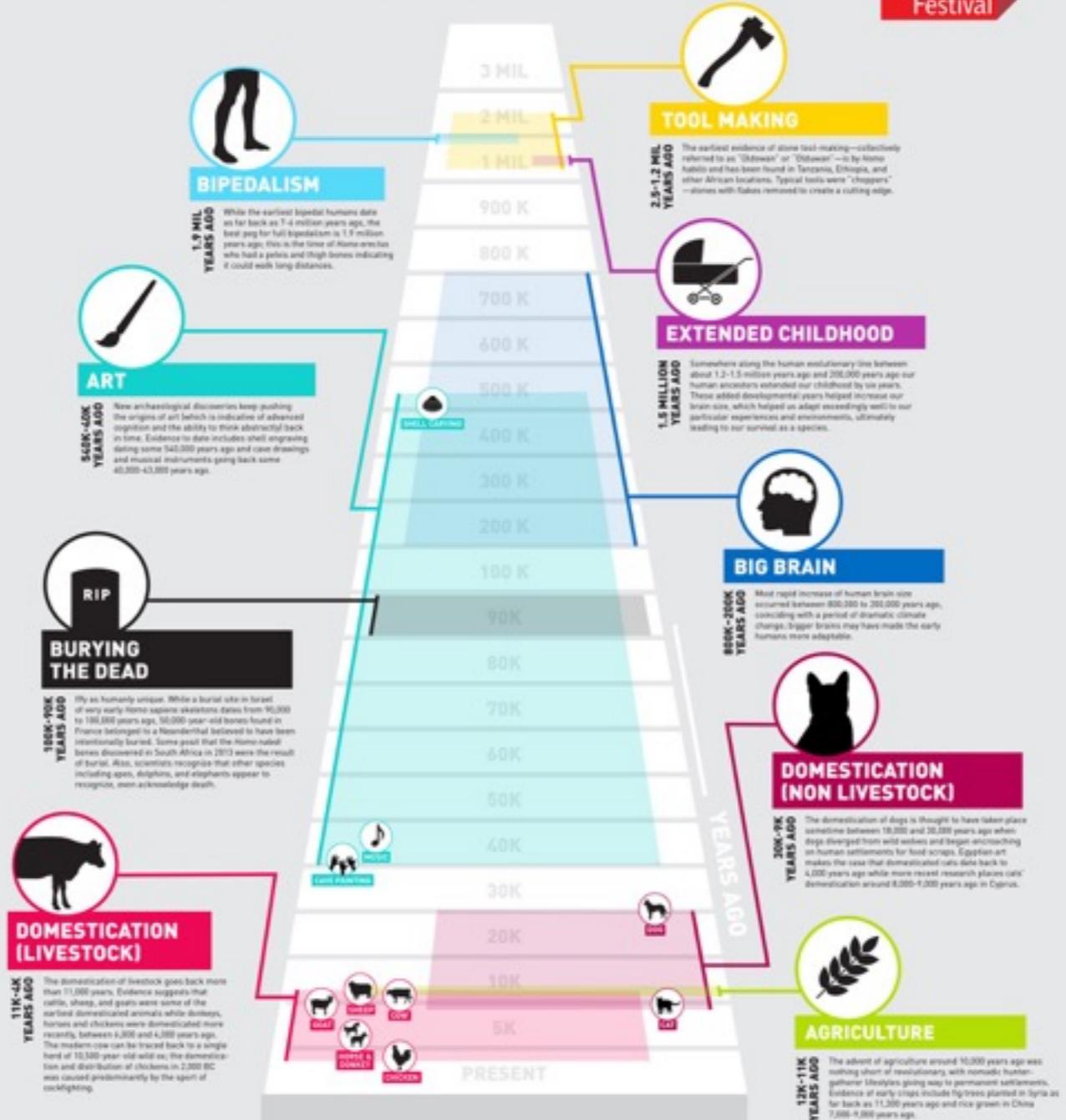
...consider human evolution.

MILESTONES IN HUMAN UNIQUENESS

A TIMELINE SHOWING SOME OF THE PRIMARY DISTINGUISHING CHARACTERISTICS OF HUMANS AND WHERE IN TIME SCIENTISTS PLACE THEM ON THE EVOLUTIONARY SCENE.

BY JULIE ROSSMAN
AND ERICA ROWELL

World
Science
Festival



WHY DO WE NEED ONE?



A wide-angle photograph of a vast, sprawling garbage dump. The foreground is dominated by a dense, dark mound of trash, appearing as a mix of black, brown, and grey debris. In the middle ground, a small, bright green bush stands out against the waste. The background features a range of hills or mountains under a hazy, light-grey sky. Two tall utility poles stand prominently in the center background.

www.newskarnataka.com

THE LANDFILLS ARE FULL

(and there's no going back)







THE CITY IS ON FIRE
(literally)

THE GARBAGE FIRE IS KILLING US

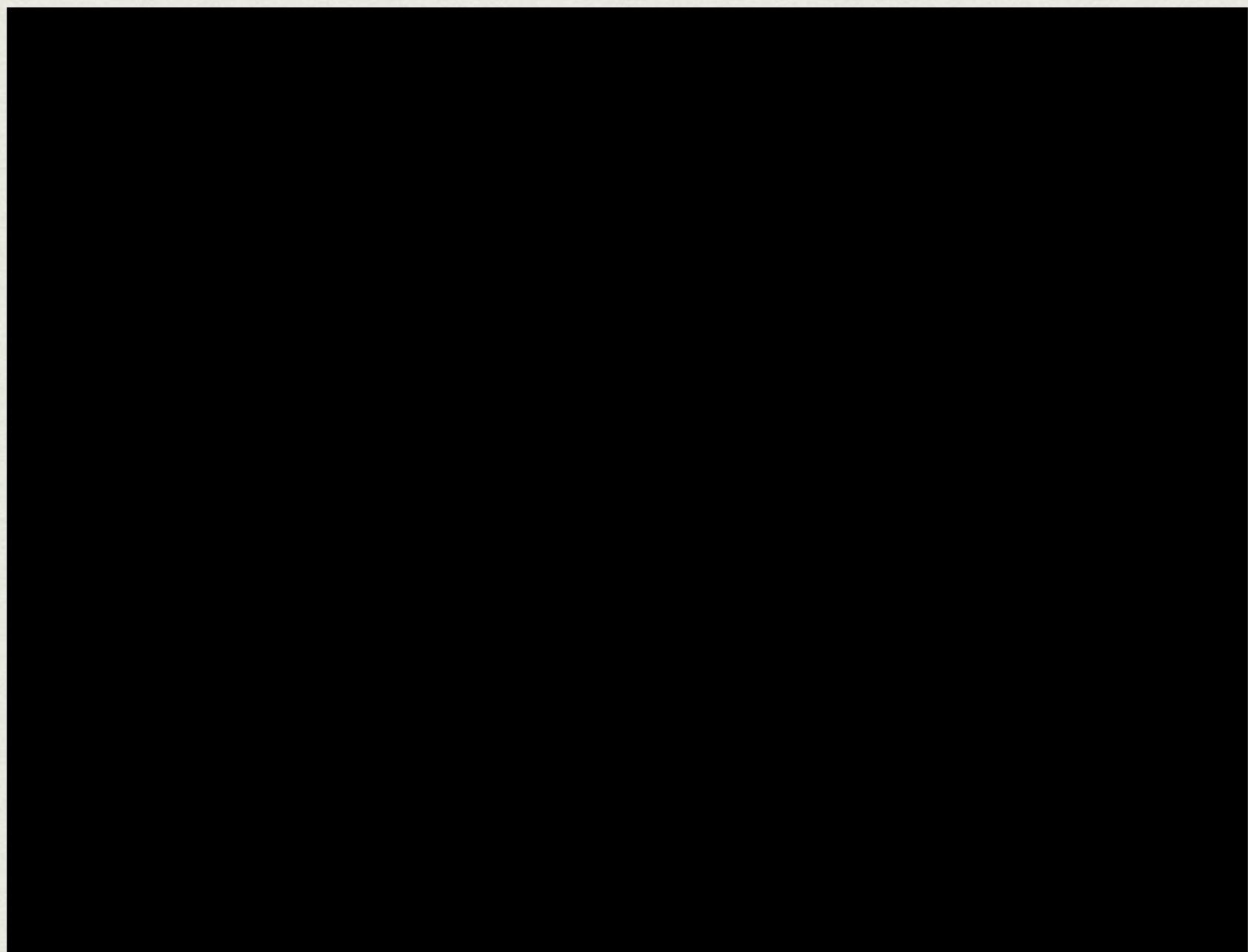
- headache
- nausea
- asthma
- heart disease
- neurological damage
- cancer

BANGALORE HAS BECOME A HORRIBLE PLACE TO LIVE

(and a bad place to visit)

BANGALORE IS FIGHTING THE
GLOBAL GARBAGE CRISIS OF
TOMORROW, TODAY

WE CAN CHOOSE TO DROWN IN CRISIS
OR
WE CAN LEAD BY EXAMPLE



WHO CAN FIX THIS?



...NOT YOUR MAID...



SARVAN 2015

...NOT THE BBMP...



...NOT THE GOVERNMENT...

BELIEVE IT OR
NOT, YOU ARE
THE ONLY ONE
WHO CAN DO
ANYTHING



WHAT CAN I
POSSIBLY DO?



UNDERSTAND

THIS BRINGS US BACK TO
OUR MATURITY MODEL

WHERE DO YOU STAND?

- 0: the ground
- 1: “a dustbin”
- 2: segregating wet and dry
- 3: recycling
- 4: composting
- 5: activism
- 6: zero waste

IF WE COMPARE THIS TO OUR
HUMAN MATURITY MODEL...

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LEVEL 0 IS PERHAPS A BABY...

STAND CLEAR



**MONKEYS
ARE PRONE TO
THROW THEIR OWN FECES**

...OR PERHAPS A MONKEY.

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LEVEL 1 IS AN EMBARRASSING SIMPSONS
EPISODE



LEVEL 1: OUT OF SIGHT, OUT OF MIND



...ALWAYS REMEMBER WHERE YOUR
GARBAGE GOES

(this is the only home for mixed waste)

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LEVEL 2: THE BARE MINIMUM

- The Karnataka High Court on Dec 17, 2015 passed an order directing citizens in Bengaluru to segregate waste at source.
- This is the law.





1. Organic Waste

(Do **NOT** use a plastic liner)

Kitchen Waste

Vegetable/fruit peels
Cooked food/Leftovers
Egg shells
Chicken/fish bones
Rotten fruits/vegetables
Tissue paper soiled with food
Tea bags/Coffee grinds
Leaf plates



Garden waste *

(small quantity only; from Apt)
Fallen Leaves/twigs
Puja flowers/garlands
Weeds



2. Dry Waste

(Use only reusable bags for disposal)

Plastic (Must be rinsed if soiled)

Plastic covers/bottles/boxes/items
Chips/toffee wrappers
Plastic cups
Milk/Curd packets



Paper (Must be rinsed if soiled)

Newspaper/Magazines
Stationery/Junk mail
Cardboard cartons
Pizza boxes
Tetrapaks
Paper cups and plates



Metal

Foil containers
Metal cans



Glass (handle with care)

Unbroken glass bottles



Other dry waste

Rubber/Thermocol
Old mops/Dusters/Sponges
Cosmetics,
Ceramics, Wooden Chips,
Hair
Coconut shells



E-waste (handle with care)

Batteries
CDs/Tapes
Thermometers



Bulbs/tube lights/CFLs **
(hand over separately)



3. Reject Waste

(Do **NOT** use a plastic liner)

Sanitary waste

(Use a newspaper for wrapping)



Diapers/Sanitary napkins

Bandages

Condoms

Nails

Used tissues

Medicines

Swept dust

(Limited quantities of mixed waste is allowed, such as heavily soiled plastic or soiled paper)

Sharps § (small quantities only;
wrap in newspaper and
hand over separately)



Razors/Blades

Used syringes

Injection vials

Construction debris/Inerts

(Hand over separately)



Rubble

Paints

Silt from drains

Cement powder

Bricks

Flower pots



Broken glass

(wrap in newspaper)

LEVEL 2: THE DETAILS

- You **must** wash and dry:
 - plastic
 - glass
 - metal
- You **must not** ever use plastic bags



LEVEL 2: THE DETAILS

- Read the guidelines!
- If you are unsure about something, put it in reject waste. Dirty paper, tissues, and broken glass are *always* reject waste.
- Wash your milk packets! They go in dry waste.



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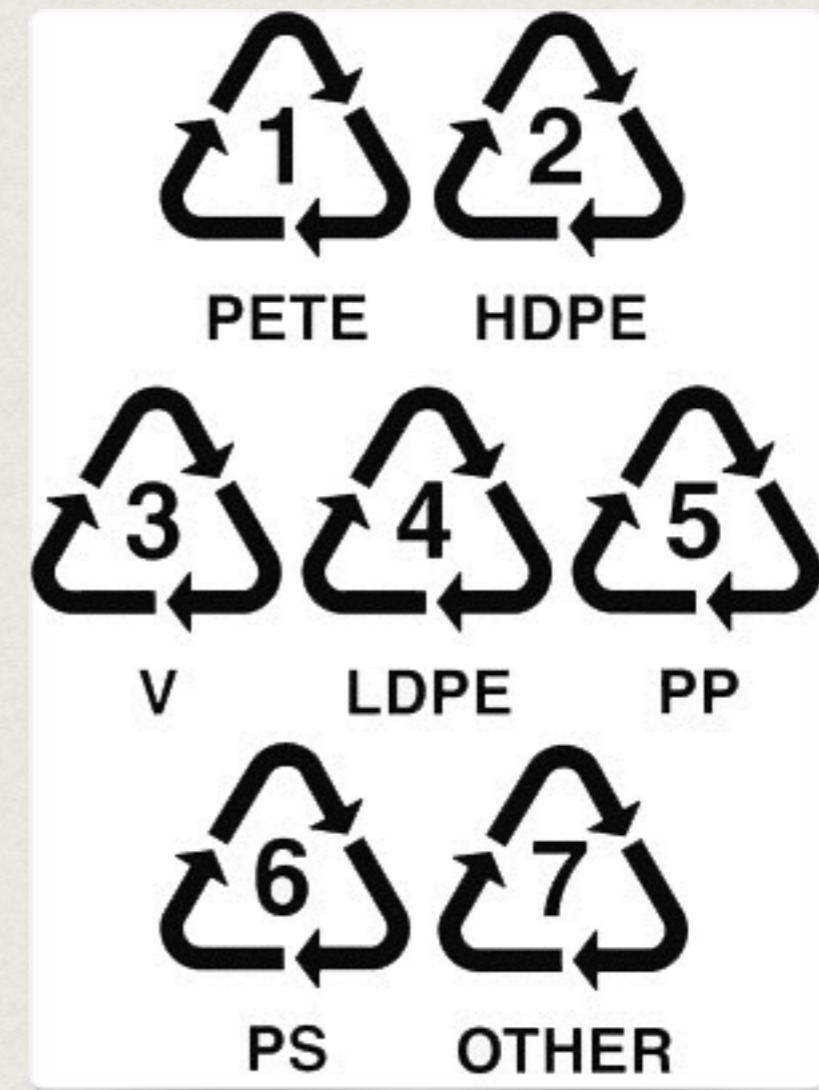
LEVEL 3: RECYCLABLES

- The most basic recyclables are: paper, plastic, glass, and metal
- There's also:
 - e-waste
 - cloth
 - polystyrene (styrofoam)
 - rubber



LEVEL 3: LEARN

- Learn about different kinds of material
- There are over 40 recycling codes/symbols



RECYCLABLES: HOW

- Separate each material from the other. It's much easier for you to separate a few items than for the collection centre to separate thousands.
- For example: paper from plastic, metal lids from glass jars, etc.
- Wash and dry recyclables if necessary



WHERE DO RECYCLABLES GO?

- Your local kabadiwalla or Dry Waste Collection Centre will be more than happy to receive clean and dry recyclables separated by category
- A local Kabadiwalla or DWCC will ensure your recyclables get to a recycling centre, since the BBMP waste pickers can't always ensure this



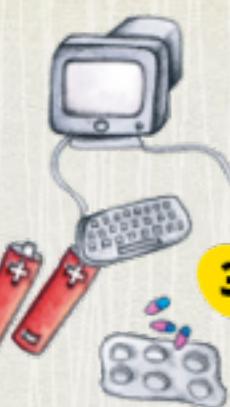
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LEVEL 4: WHERE DO ORGANICS GO?

- In your house! If you compost, there is no need to involve the government, the BBMP, or even the community.





2 RECYCLE & REUSE

Sell to a scrap dealer



3 DISPOSE SAFELY

Find the right agency



4

LANDFILL

Give to municipal truck



1 COMPOST THIS

Individually or as a community



YOU CAN MANAGE THE MAJORITY OF YOUR WASTE INSIDE YOUR HOUSE



AEROBIC AND ANAEROBIC COMPOSTERS CAN
HANDLE VEG AND NON-VEG, RESPECTIVELY



END RESULT? PLANT FOOD.

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LEVEL 5: BUY SMARTER

- Buy less plastic and buy only recyclable plastic
- Tell vendors who give you plastic bags that they are breaking the law
- Always use reusable bags
- Look for a recycling symbol on **everything** you buy



LEVEL 5: BUY LOUDER

- If a manufacturer insists on using non-recyclable materials, shout at them!

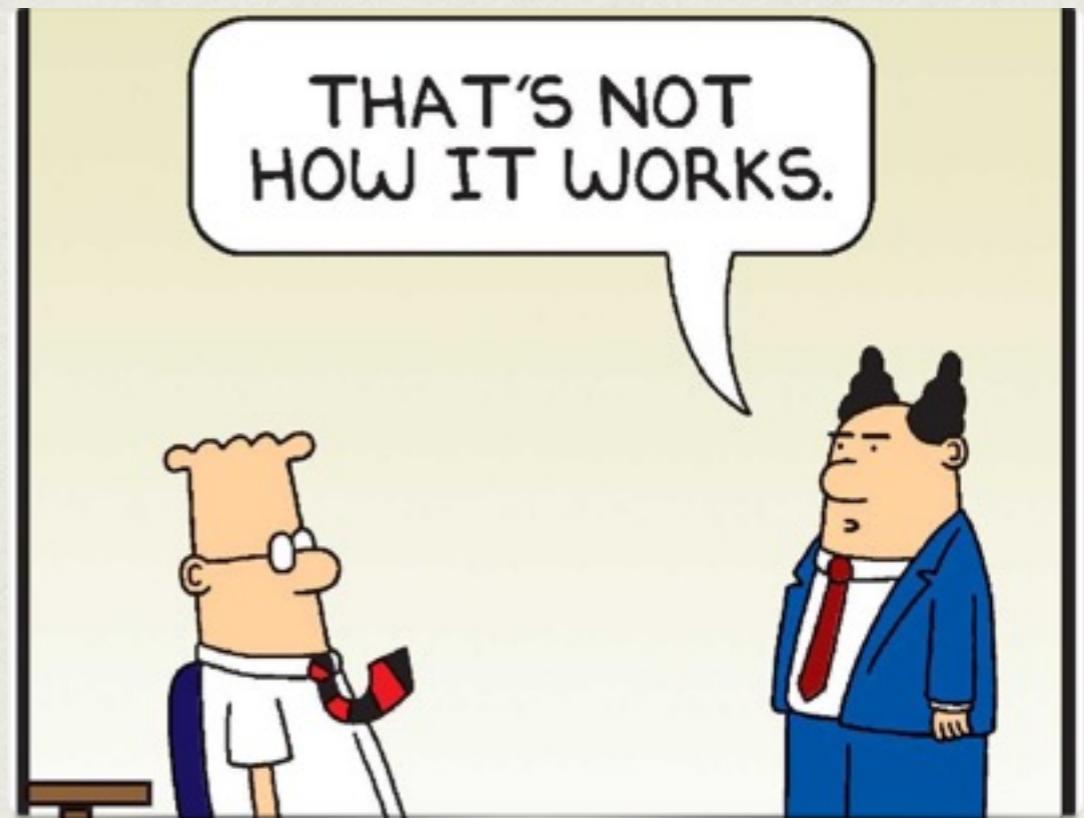
- Twitter
- Facebook
- Email

...it's a connected world. If enough customers complain, the market will respond.



LEVEL 5: TALK

- Convince your friends this is a worthwhile effort
- Convince your coworkers/ classmates that your office/school can do better
- Corporations will change their habits if every employee believes in Zero Waste
- People will change their habits at home if their employers and children give them the same message: **Be clean.**



LEVEL 5: SPREAD THE WORD

- If you have a cook or a maid, educate them
- If you are a cook or a maid, educate in the homes and offices where you work — your network is broad!



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LEVEL 6: ZERO WASTE

- It's not easy, but it's possible
- Zero Waste is easier as a community – and it should be our constant goal
- Zero Waste means zero reject waste, zero incinerated dry waste, and no non-recyclable products

ZERO WASTE: EXAMPLE ONE

- Lauren Singer has only produced one jar worth of waste in two years
- She uses only reusable bags and containers
- She buys everything in bulk



ZERO WASTE: EXAMPLE TWO

- Kamikatsu is a village of 1700 people in Japan nearing Zero Waste
- Citizens must compost and segregate dry waste at source into 34 categories



BANGALORE IS IN A
GARBAGE CRISIS AND WE
MUST ACT NOW.

AT ALL COSTS, MAKE
SURE WET/DRY/REJECT
SEGREGATION IS
HAPPENING BOTH AT
HOME AND AT WORK.

THIS IS THE BARE MINIMUM. IT IS
THE LAW.

THIS MUST BECOME THE NEW
NORMAL. THIS WILL BECOME THE
NEW NORMAL.

IT CAN EITHER BECOME THE NEW
NORMAL BECAUSE WE CHOOSE TO
ACT NOW OR BECAUSE WE ARE SOON
FORCED TO CHANGE BY SMOKE
AND DISEASE.

REFERENCES / THANKS

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