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Singapore

## Environmental experts sound the alarm on how fast Singapore's only landfill Semakau is filling up

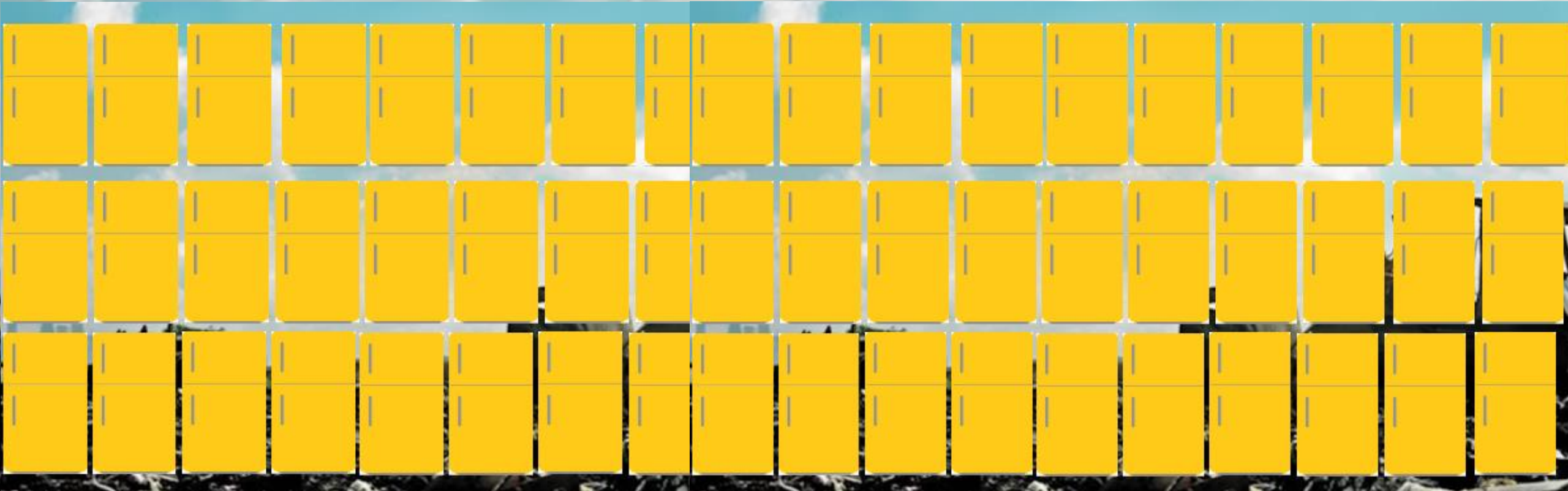
The rubbish produced by nearly 6 million people in Singapore is incinerated, resulting in over 2,000 tonnes of ash and non-incinerable waste like sludge getting sent to Semakau every day.





**66,000** dispensed out monthly!  
**~1043 kg** of landfill waste

**12,516 kg/ year**



# Pharmacy repackaged medication box

## PET Film Window

- CE: 0.00087g
- Purpose: Visual check



## REQUIRED

## Paper Cardboard

- CE: 0.01g
- Purpose: Contain medication strips



## REQUIRED

## Paper Sticker (2)

- CE: 0.00068g
- Purpose: display drug information (Batch number, expiry date)



## REQUIRED

## Paper Sticker (1)

- CE: 0.00068g
- Purpose: box seal, QC done

## REQUIRED

## Paper Label

- CE: 0.0018g
- Purpose: display dosing instruction and patient information

# Our Goal

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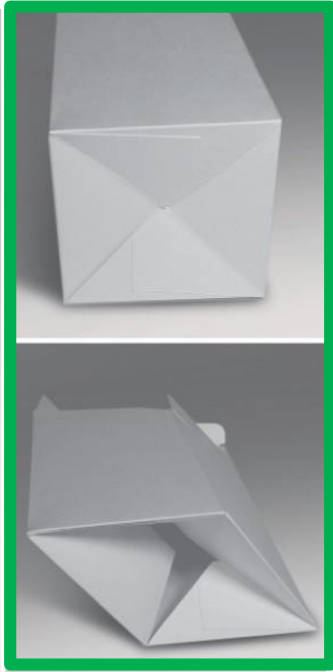
✓ 100% Recyclable

✓ 0% to landfill waste



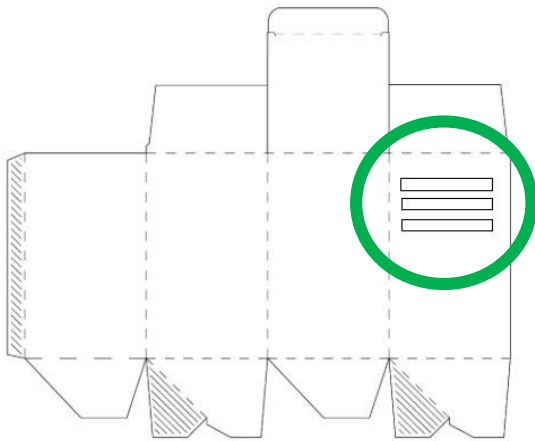


# Eco-Medbox



### AUTO-LOCK BOTTOM BOX

The Auto-Lock Bottom Box is a construction that allows boxes to collapse flat and pop-up in one swift motion. The unique bottom construction automatically locks while providing strength and support to the weight of the product within.



# Eco-Medbox

## Design modifications

- Box flap-- Auto-lock (*using interlocking features*)
- Drug window-- Box slits
- Drug info sticker-- Compacted design (*45% size reduction*)

# Eco-Medbox

## Alternative materials

- Recycled paper
- SATO paper label, adhesive recycle compatible

## Removal of:

- PET film
- 1 paper sticker

## Repackaging material cost savings:

- \$11,200/ year  
*(less material, less manufacturing steps)*

## Repackaging manpower savings:

- 324 hr/ year = 0.15 FTE

**Total savings per annum = \$20,000**






# Eco-Medbox



 **No impact on operational efficiency**

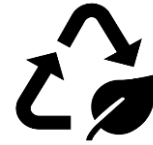
 **No impact to product integrity**

 **Box assembly efficiency**





↑ Productivity  
**\$42,000/ year \***



**Eco-Medbox  
Return Scheme**



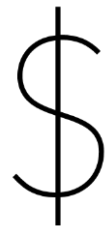
**To 8 other healthcare  
institutions/ polyclinics with  
automated  
dispensing machines**



**Green Citizenry**



**Future Landscape  
Eco-Medbox**



↓ Production cost  
**\$60,000/ year \***

**SG GREEN PLAN**

**Eco-Medbox supporting SG  
Green Plan 2030**

