

## REASONS FOR INCREASE OF **WATER PRICING**

### ➔ **Singapore's main water source**

Prolonged drought in Johor caused Linggiu Reservoir's water supply to dropped to 22% (lowest record ever)

### ➔ **NEWater and desalination plants**

Building and operating new desalination plants (more expensive than NEWater btw) costs 40% more than it did in 2005.

### ➔ **Upgrading infrastructure**

Urban cities need to maintain water pipelines and building the pipes alone, are costly. PUB spent S\$7 billion on water infrastructure from 2000-2015.

### ➔ **Climate change threat**

Droughts and floods threaten the reliability of water resources.

**SINGAPORE'S  
SUSTAINABLE  
TARGET**

to reach **140 litres** per day by 2030

...currently at **148 litres** per day.

**WATER  
EFFICIENCY  
LABELLING  
SCHEME**

2019: minimum standards for water fittings raised to 2-ticks for new premises/houses

2018: dishwashers will require efficiency labelling

2017: inefficient fittings will start to phase out

2017: 4-ticks washing machines will be introduced

**...MATTER OF  
NATIONAL  
SECURITY**

a message that cabinet ministers have stressed time and time again.

Why is it lost to Singaporeans?

Are people simply following policymakers?

Stuck on conventional paradigms of using water.



## CONSUMPTION

## PRICING

# HOW MUCH DO WE USE?

17 900 litres in the national average per month  
average monthly consumption of a 4-room HDB flat:

**11 400**

litres per month

=

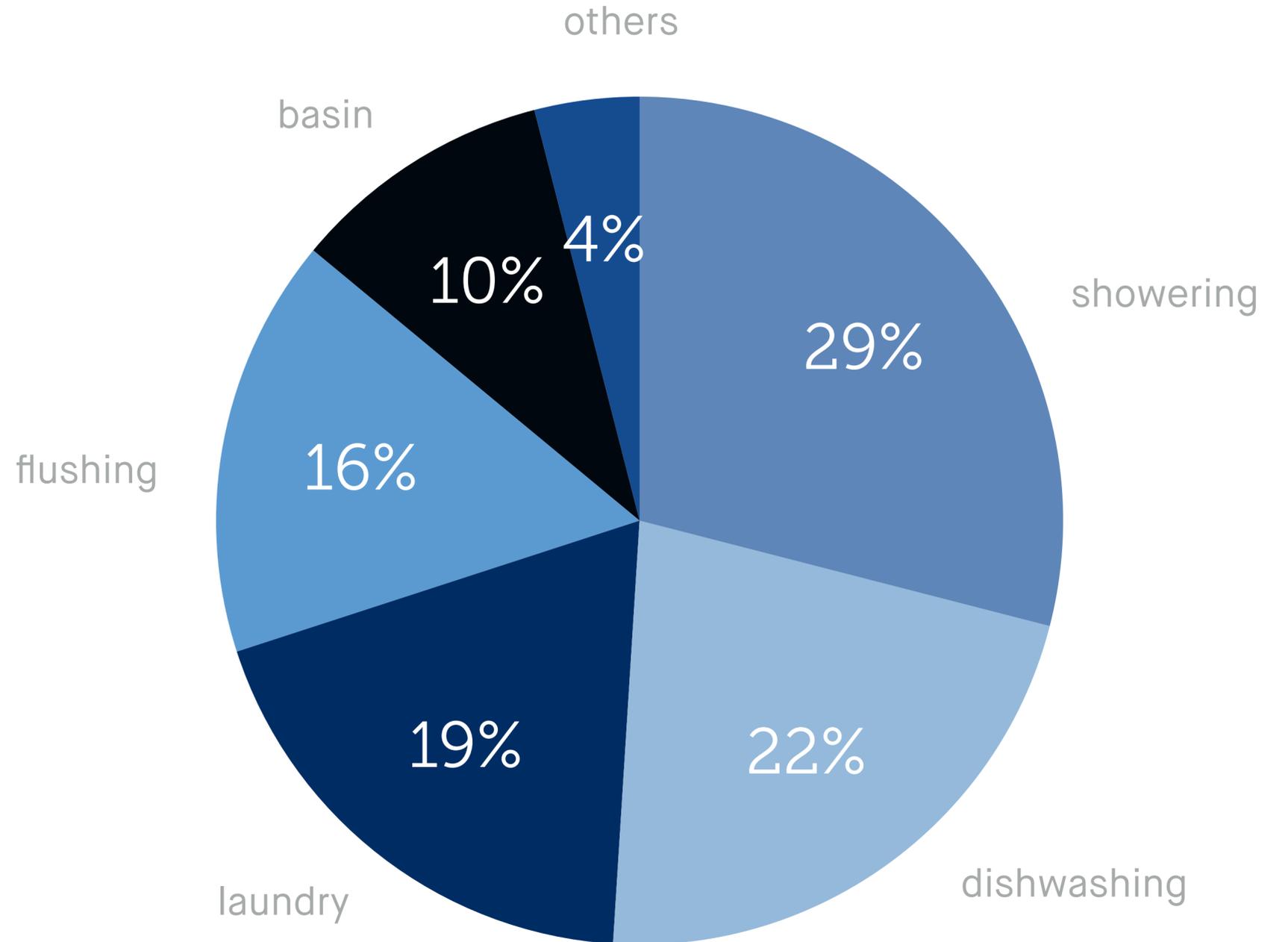
**6 800**

of 1.75l bottles

CONSUMPTION

PRICING

# HOW MUCH DO WE USE?



CONSUMPTION

PRICING

**HOW MUCH  
DO WE USE?**

water usage poll reveals that majority of Singaporeans do not know how much they spent on water.

CONSUMPTION

PRICING

**HOW MUCH  
DO WE PAY?**

the current system is by volume:

**\$1.17** < **40 000** < **\$1.40**  
litres per month

CONSUMPTION

PRICING

## HOW MUCH DO WE PAY?

in European cities, the system is by household size, whereby users are differentiated by tiers.

Barcelona uses below **100 litres** per day.

TECHNOLOGY

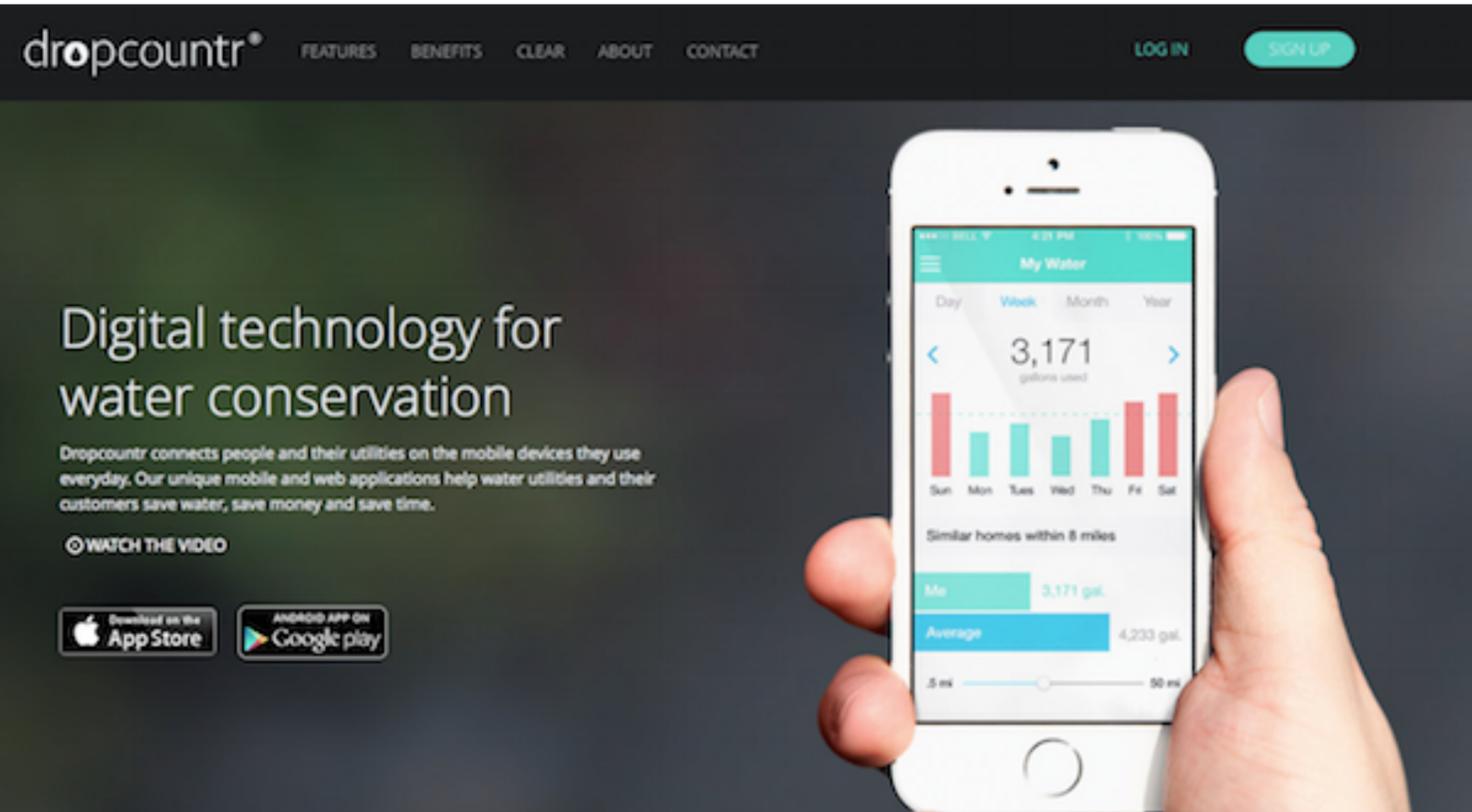
# SMART SHOWER DEVICES

## **A PUB and NUS collaboration**

Study to see if real-time information of water usage during showers would make a difference, by mounting a smart device on shower heads.

Results: residents saved up to 5 litres of daily water consumption.

# TECHNOLOGY



dropcountr® FEATURES BENEFITS CLEAR ABOUT CONTACT LOG IN SIGN UP

## Digital technology for water conservation

Dropcountr connects people and their utilities on the mobile devices they use everyday. Our unique mobile and web applications help water utilities and their customers save water, save money and save time.

WATCH THE VIDEO

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Day	Week	Month	Year
3,171 gallons used			
Sun	Mon	Tue	Wed
Thu	Fr	Sat	
Similar homes within 8 miles			
Me	3,171 gal.		
Average	4,203 gal.		
8 mi ————— 90 mi			



## RESEARCH LINKS

<http://www.straitstimes.com/singapore/top-water-guzzler-showering>  
<https://vulcanpost.com/573748/the-average-water-consumption-of-a-4-room-hdb/>  
<http://www.channelnewsasia.com/news/singapore/minimum-standards-for-water-fittings-to-be-raised-from-april-201-8769098>  
<http://www.todayonline.com/singapore/water-pricing-based-household-size-better-system-expert>  
<http://www.straitstimes.com/singapore/many-singaporeans-unaware-of-monthly-water-usage-poll>  
<https://www.nwl.co.uk/your-home/saving-water/water-saving-kit.aspx>  
<http://www.straitstimes.com/singapore/environment/four-tick-rating-for-washing-machines-to-be-introduced-from-april-1-pub>  
<https://www.renovation.sg/5-renovation-steps-make-home-water-efficient/>  
<https://www.savewatersavemoney.co.uk/severntrent/free-water-saving-products>  
<http://www.todayonline.com/singapore/price-success-how-spores-water-conservation-message-got-diluted>