# DON'T WASTE YOUR EDUCATION EFFORTS: WHAT WORKS TO REDUCE RECYCLING CONTAMINATION





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CIRCULAR ECONOMY

BehaviourWorks

AUSTRALIA





One of Australia's leading environmental behaviour change organisations.

PROVIDING POSITIVE ENVIRONMENTAL ACTIONS, FOR EVERYONE.

Why?

The world must transition to a carbon neutral and circular economy

Established in 1992, Planet Ark Environmental Foundation is an Australian not-for-profit.



### **OUR PROGRAMS**



































**Endorsed by** 





## Waste isn't Waste until it's Wasted



## NATIONAL RECYCLING WEEK

## PLANET ARK

7-13 NOVEMBER 2022

Council & community resources available at <a href="https://nationalrecyclingweek.com.au/councils">https://nationalrecyclingweek.com.au/councils</a>

### **INFORMATION** ≠ **BEHAVIOUR**

"Having the requisite knowledge and ability to recycle does not mean that an individual will recycle"

(Davies et al. 2002)



### **EXAMPLES OF BEHAVIOUR CHANGE TOOLS**



## SELF-MOTIVATED CHANGE & CREATING AGENCY

- "Thank you"....
  - Personalising
  - Values people's role
- Yes/No



### **EXAMPLES OF BEHAVIOUR CHANGE TOOLS**





### **NEGATIVE SELF-EFFICACY**

- Loss aversion
- Personalising



### **EXAMPLES OF BEHAVIOUR CHANGE TOOLS**

#### **GAMIFICATION**



# HOST A RECYCLING TRIVIA EVENT

Planet Ark has created a Recycling Themed Trivia package for you to use at home or work. Challenge your friends, family, colleagues and bosses to see how much they really know about recycling.

**GET YOUR FREE TRIVIA PACK** 

Available at

https://recyclingnearyou.com.au/nationalrecyclingweek/trivia





BehaviourWorks

AUSTRALIA

# What works to Reduce contamination of kerbside recycling bin

Jennifer (Downes) Macklin, Research Fellow, BehaviourWorks Australia

**NRW 2022** 



There's no magic pill for behaviour change...





...but we can increase the odds of success.



#### Who we are











#### Who we are

### **Consortium partners**

BehaviourWorks Australia wouldn't be where it is today without the ongoing support of our consortium partners.

Made up of a group of state and federal government agencies, along with The Shannon Company, the BWA Consortium is the vehicle through which the partners collaborate, share intellectual property and build capacity for behaviour change.

#### **Our Consortium partners**





Environment, Land, Water and Planning









In 2018, BehaviourWorks and our Consortium partners collectively recognised that Australia is facing a major issue...







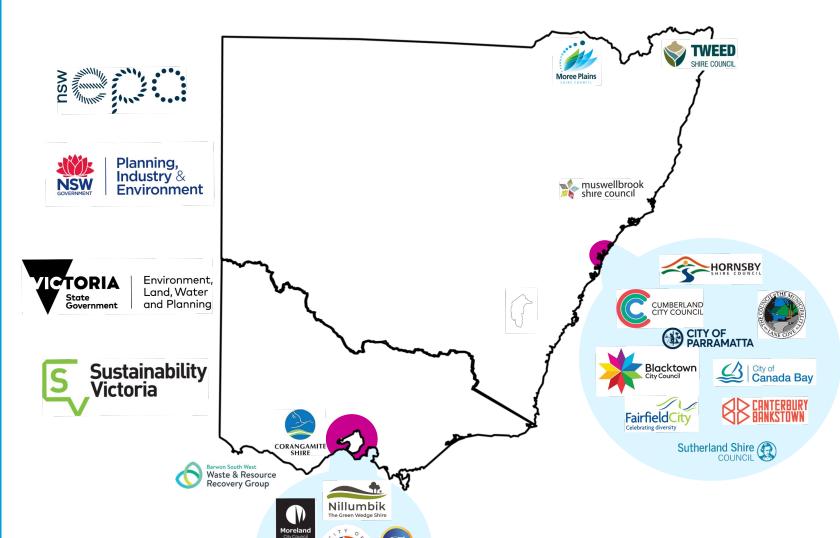




GEELONG



Governments at all levels got together and worked with BehaviourWorks to learn more and discover what works.

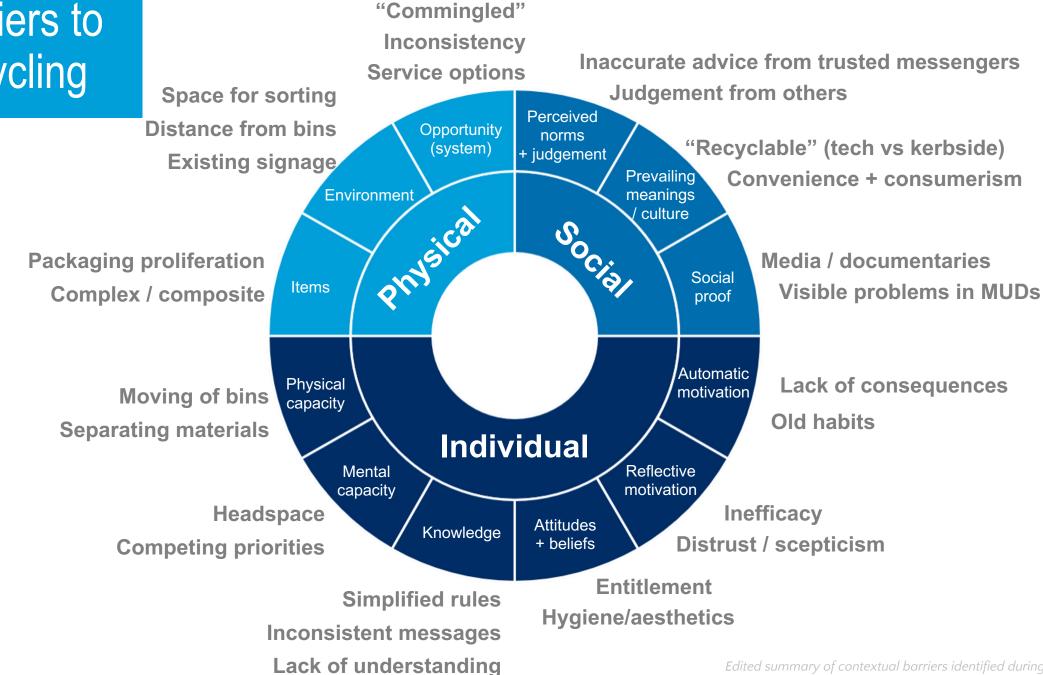




# What we learned about contamination



### Many barriers to good recycling



Edited summary of contextual barriers identified during Behaviour Change training exercises by Jenni Downes

## Most common issue is confusion





Confused, so give up

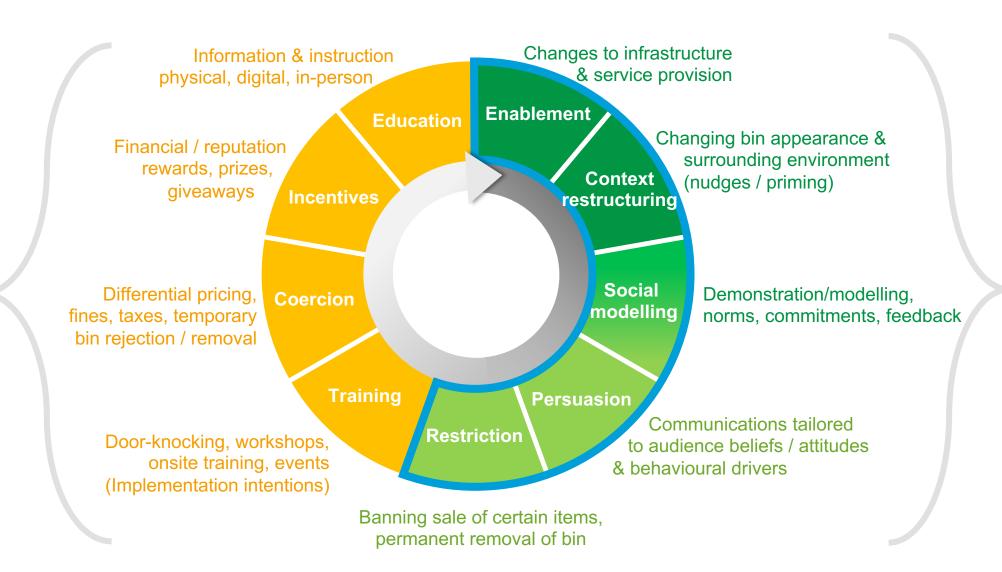




Think they know (though they don't) so don't pay attention

#### Limited evidence of what works, but some clues

#### What works to reduce contamination?



**MORE** 

evidence

in literature

/ practice

LESS /
POOR
evidence
in literature
/ practice

## What we did



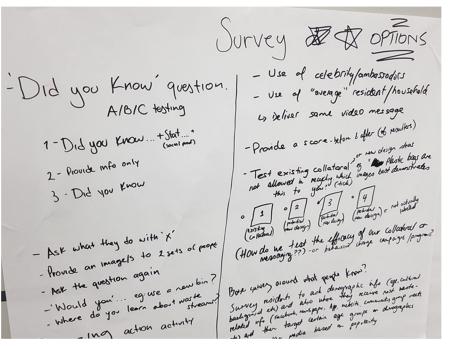
### Co-designed feasible solutions to trial

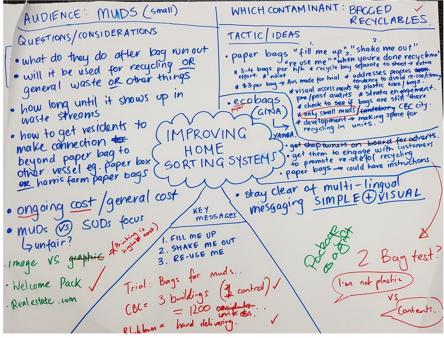












### Conducted a series of experiments / trials

#### What works to...

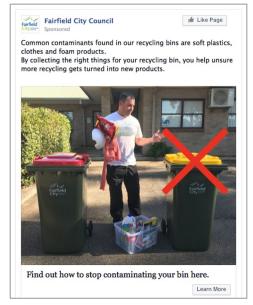
Grab and hold people's attention?	Improve people's sorting knowledge?	Improve people's sorting behaviour?		
(Visually)	(Short-term)	(Actually!)		
Facebook	Survey-based	Context	Systems	Feedback
ONLINE EXPERIMENTS		FIELD TRIALS		

#### **ONLINE EXPERIMENTS**

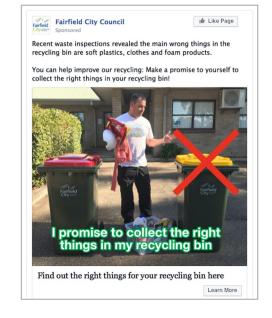
#### Facebook

Social media posts (Messages / images)









# Facebook Survey-based Social media posts (messages / (lists, images, messages) messages)





# ONLINE EXPERIMENTSFacebookSurvey-basedContextSocial media posts<br/>(messages /<br/>images)Flyers<br/>(lists, images,<br/>messages)Priming +<br/>Bin bay materials<br/>+ Followup





**FIELD TRIALS** 



ONLINE EXPERIMENTS		FIELD TRIALS		
Facebook	Survey-based	Context	Systems	
Social media posts (messages / images)	Flyers (lists, images, messages)	Priming + Bin bay materials + Followup	Priming + Reusable bags + Followup	





ONLINE EXPERIMENTS		FIELD TRIALS		
Facebook	Survey-based	Context	Systems	Feedback
Social media posts (messages / images)	Flyers (lists, images, messages)	Priming + Bin bay materials + Followup	Priming + Reusable bags + Followup	Priming + Personalised feedback





# What we learned about what works



# Targeting contamination & leakage at the same time creates confusion



# Focusing on 'no' items is more effective at getting them out of the bin



# Messaging can affect behaviour for **better or worse**, and we need to know more

Both of these messages increased contamination

Australia's recycling system is changing.

Now more than ever, it matters

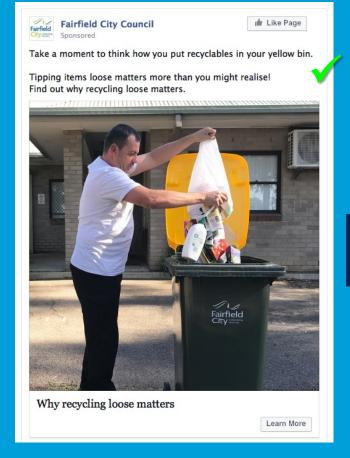
what you put in the recycling bin.

A bit worse

In NSW, 80% of what goes in the yellow bin gets recycled.
With your help, we can get this even higher!



# There are some promising messages



CONTAMINATED BINS WON'T BE COLLECTED SO RECYCLE RIGHT

Putting the wrong thing in can:

- spoil other recycling
- spoil other recycling
   damage sorting machinery
- · be dangerous for collection vehicles and staff

**Did you know?** Putting the wrong thing in your recycling bin costs Council and the environment.

# Traditional approaches (signage / educational materials) are not sufficient



# Behaviourally-informed, personalised feedback can reduce contamination

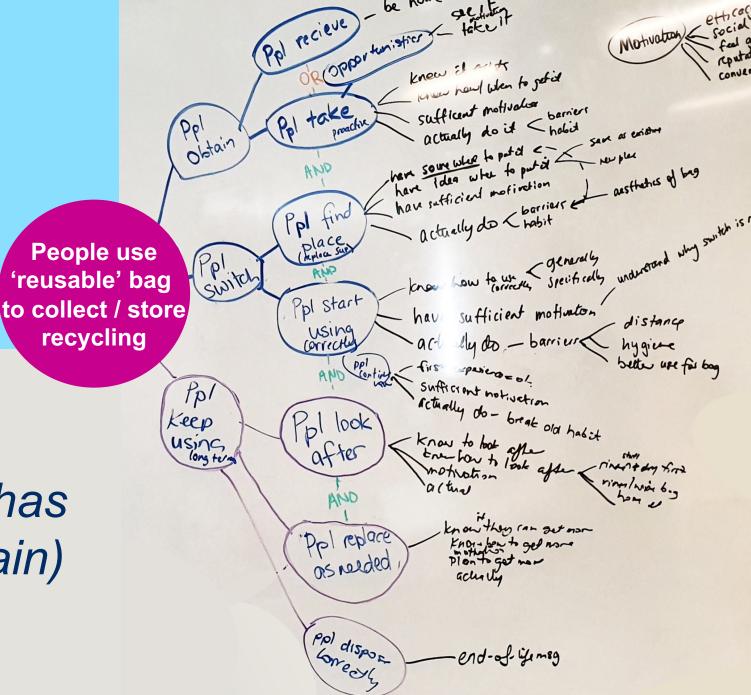


We still need to investigate other less-intensive options

## What you can do



Be very clear, and targeted on what you want to achieve



(Just one 'behaviour' has many steps in the chain)

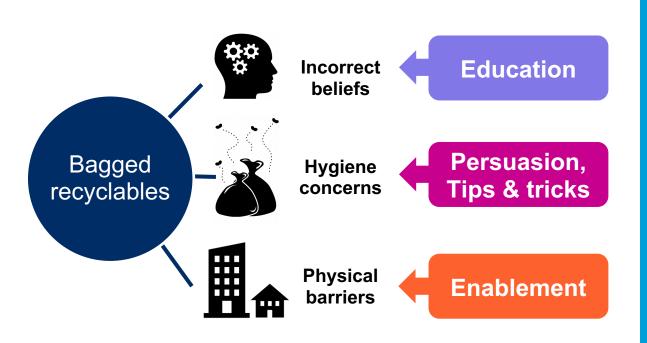
Be very clear, and targeted on what you want to achieve

# Understand the specific issues



# Be very clear, and targeted on what you want to achieve

Understand the specific issues



Match your approach to the main barriers

Be very clear, and targeted on what you want to achieve

Understand the specific issues

Test, learn and adapt

Match your approach to the main barriers

## THANK YOU



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### BEHAVIOUR CHANGE TRIAL RESOURCES

#### **Available at the National Recycling Week Resource Hub**



















## BEHAVIOUR CHANGE TRIAL RESOURCES

#### Available at the National Recycling Week Resource Hub

## RESOURCE HUB

National Recycling Week, 7 - 13 November, is reminding Australians this year that **Waste isn't Waste until it's Wasted**. Our resources are FREE to use and designed to help you learn how to recycle right, reduce waste and contamination, and engage with positive sustainable actions at home, work, and in your community.

Councils, schools and community groups can add their logos to our assets for free. If you're a business, please contact us for permission to use your logo on these assets or to use the National Recycling Week logo on your own.

Email recycling@planetark.org

Please feel free to contact us with resource suggestions.

#### **RESOURCES**

**V SOCIAL MEDIA GRAPHICS** 

∨ INFOGRAPHICS

**V POSTERS & SPECIAL COLLECTION SIGNS** 

**V BEHAVIOUR CHANGE TRIAL RESOURCES** 

https://nationalrecyclingweek.com.au/councils/hub



## THANK YOU



and remember

## WASTE ISN'T WASTE UNTIL IT'S WASTED!

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