



# Cooks River Litter Prevention Framework

16th February 2022

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For the past 3 weeks we've been doing a design sprint where we developed a framework to help you guys get started with the Cooks River Litter Prevention Strategy so in 2025, we are able to see 50% less litter.

## Your mission



Prevent litter



Community engagement



Long lasting change

- There's already good work going on within the community with clean ups, but you wanted to concentrate on litter prevention
- You want us to help get the community engaged
- And create long lasting change

## So how do we tackle this?



Research we conducted

The framework we developed to drive change

Recommendations on how to do this

And how we can prioritise and deliver these initiatives

After going over the Cooks River Litter Prevention Strategy, we wanted to know what was going on around the world.

## International campaigns

17 successful campaigns around the world including Europe, Americas and Asia.

8

motivated  
people through  
**community  
pride**

4

motivated  
people through  
**emotional  
messaging**

3

aimed to drive  
results by  
making the act  
**easy to do**

2

aimed at  
enforcing  
change through  
**social pressure**

[Full research notes](#)

Overall we looked into 17 campaigns and they fell into four different types of categories. They focus on community pride, emotional messaging, easy actions and social pressure.

We found out most campaigns motivate people through pride and showing their love for the local community.

# What do the people think?

We received 40 survey responses.

**37/40**

participants

thought their neighbourhood had some to low litter.

**27/40**

participants

were unsure if their community was doing anything about litter.

**20/40**

of participants

weren't doing anything about litter and the other half did very little.

## Main concern

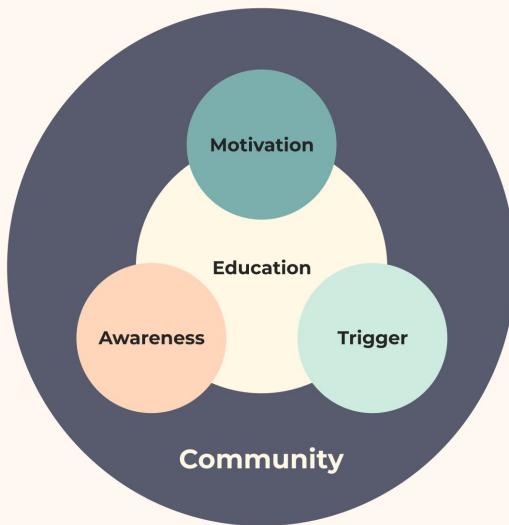
1. Environmental damages
2. Wildlife
3. Hygiene

[Full survey results](#)

In the survey we conducted, we found that most of our participants were not aware if the council or community within that area held any litter prevention initiatives.

Half of the participants were not doing anything about the litter in their neighbourhood, however they passionately voiced their concerns on how litter affects the environment, wildlife and the overall hygiene within the community.

## Framework to drive change



From our research, we designed a framework that illustrates the elements for community engagement in litter prevention.

We found that awareness, motivation and triggers are all key components that drive education and encourage long term change.

However, we found this is not a linear process and there are multiple ways this can be addressed.

We're going to be discussing each of these components - starting with motivation.



# Motivation

We studied some research papers to understand human motivation.

Because it's the key driver in creating long term change. We studied four ways we could encourage people to tackle litter prevention.

# Motivation

## Emotional engagement

[Murray P 2013, How Emotions Influence What We Buy, viewed by 31th Jan 2022](#)



It's a powerful tool that helps people to decide with their hearts and is proven to have more influence than the mind.

Out of 1,400 successful advertising campaigns, emotional content performed twice as well as rational content.

Studies show that people rely on emotions, rather than information, to make decisions. Emotional responses to marketing actually influence a person's intent and decision to buy more than the content of an ad or marketing material.

[Murray P 2013, How Emotions Influence What We Buy, viewed by 31th Jan 2022](#)

Out of 1,400 successful advertising campaigns, those with purely emotional content performed about twice as well (31% vs. 16%) as those with only rational content.

[Doodly R 2005, Emotional Ads Work Best, viewed by 31th Jan 2022](#)

Additional recourse

[Hartmann P, Ibáñez VA & Sainz FJF 2005, 'Green branding effects on attitude: functional versus emotional positioning strategies'. Marketing intelligence & planning.](#)

## Motivation

### Personal experience

[Haselhuhn MP, Pope DG, Schweitzer ME & Fishman P 2012, 'The impact of personal experience on behavior: Evidence from video-rental fines'. Management Science, 58 \(1\), 52-67.](#)



Personal experience serves a basis for reflection.

From reflections, we can develop ideas and opinions that can potentially motivate us to take action.

Personal experience is a unique way for changing behavior as it can influence seasoned individuals with prior experience. Though we found that it can decay over time, personal experience can motivate long-term behavior.

[https://repository.upenn.edu/cgi/viewcontent.cgi?article=1145&context=oid\\_papers](https://repository.upenn.edu/cgi/viewcontent.cgi?article=1145&context=oid_papers)

# Motivation

## Personal benefit

[May J 2011. Psychological egoism.](#)



For personal benefit, sometimes we are motivated by egoistic reasons and how things will benefit us.

This can inspire people to push for better social and economic outcomes.

## Motivation

### Local closeness

[Zero Waste Scotland N.D., Some of the Best Litter Prevention Campaigns from Around the World, viewed by 28th Jan 2022](#)

[LearnMate N.D., Social Purpose and How it Relates to Informal Language, viewed by 8th Feb 2022](#)

LEITHERS  
DON'T  
LITTER.



People feel more concerned by issues that feel close to home.

This can cause people to feel discomfort or upset as it touches upon sensitive or personal matters.

Local closeness brings intimacy and inclusiveness, throughout a community.

We have linked these motivation types as examples in the coming slides.



# Awareness

What are some ways we can raise awareness?

## How might people become aware?

Social Media

Website

Presentation

School Involvement

Workplace Involvement

Signage

Documentary

Educational Video

Posters

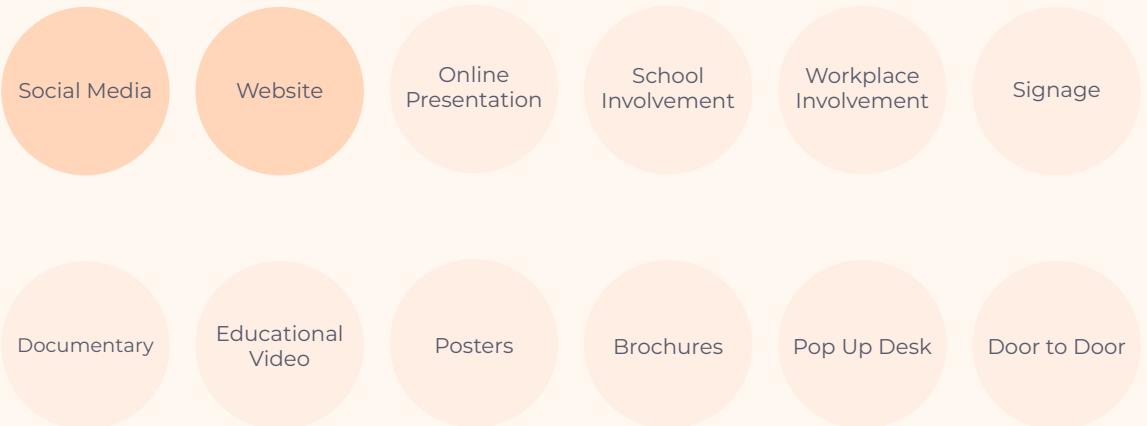
Brochures

Pop Up Desk

Door to Door

We come up with a lots of ideas. Here are some examples of how you might engage the community.

## How might people become aware?



Each of these methods have different levels of engagement.

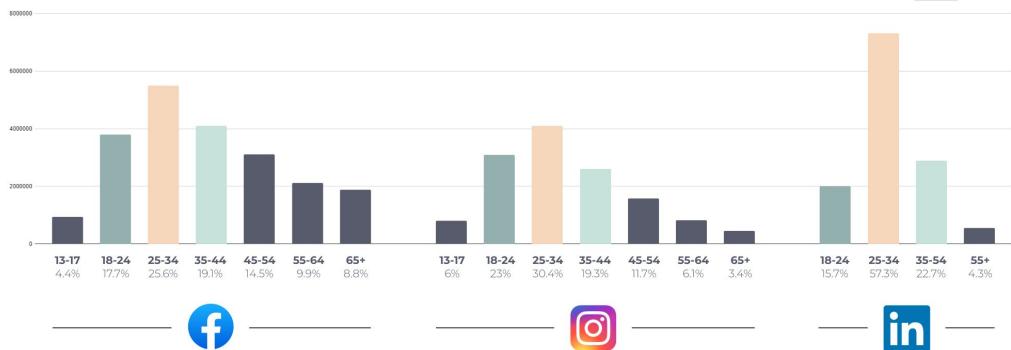
But it's fair to say that social media will have the highest visibility with relative ease and minimal expense.

We also believe that the website will become crucial in navigating your audience to stay informed and take action.

# Platforms



Social media users in Australia per age group - January 2022



<https://napoleoncat.com/stats/social-media-users-in-australia/2022/01/>

We did some research on social media platforms.

In Australia, Facebook and YouTube has the highest usage, followed by Instagram.

Different social media platforms attract different age groups, so choosing the correct platform may be more beneficial for particular campaigns.

Because LinkedIn is growing, it can be a great place to target professionals and businesses.

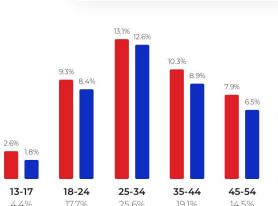
# Statistic per social media platform

CIVIC 2022, Australia's most popular social media sites 2022, viewed by 11th Feb 2022  
<https://napoleoncat.com/stats/social-media-users-in-australia/2022/01/>

 Facebook users in Australia  
January 2022

♂ 21 452 400

♀ 53.9%  
men



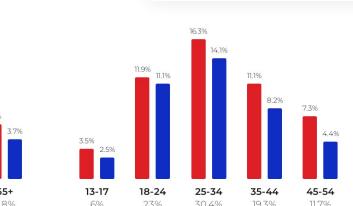
 NapoleonCat.

Source: NapoleonCat.com

 Instagram users in Australia  
January 2022

♂ 13 467 900

♀ 56.4%  
men



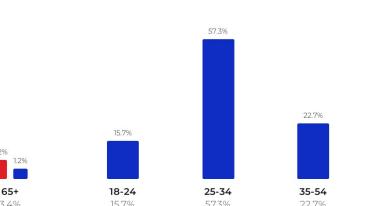
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Source: NapoleonCat.com

 LinkedIn users in Australia  
January 2022

♂ 12 750 000

♀ 57.3%



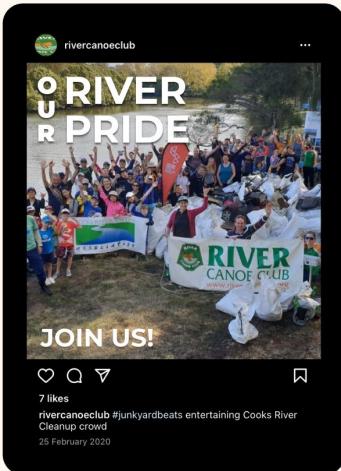
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Source: NapoleonCat.com

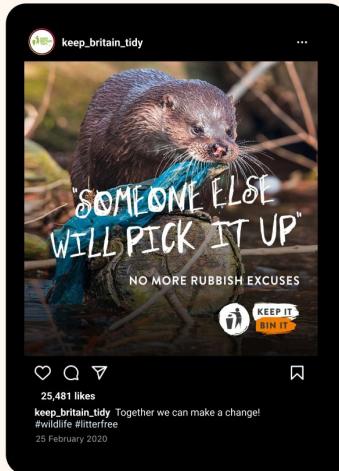
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# Social media

## Build pride



## Evoke emotion



## Local closeness

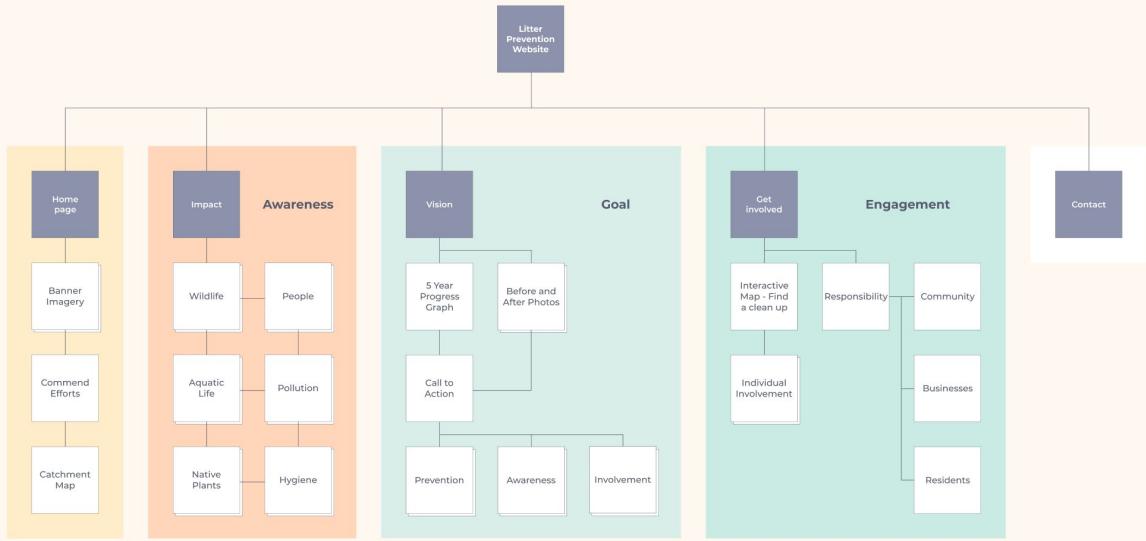


Thinking back to what drives motivations that we talk before.

We have created some examples of social media posts.

These examples include elements of building pride, evoking emotions and linking a sense of local closeness together with slogan and call to action.

# Litter Prevention website



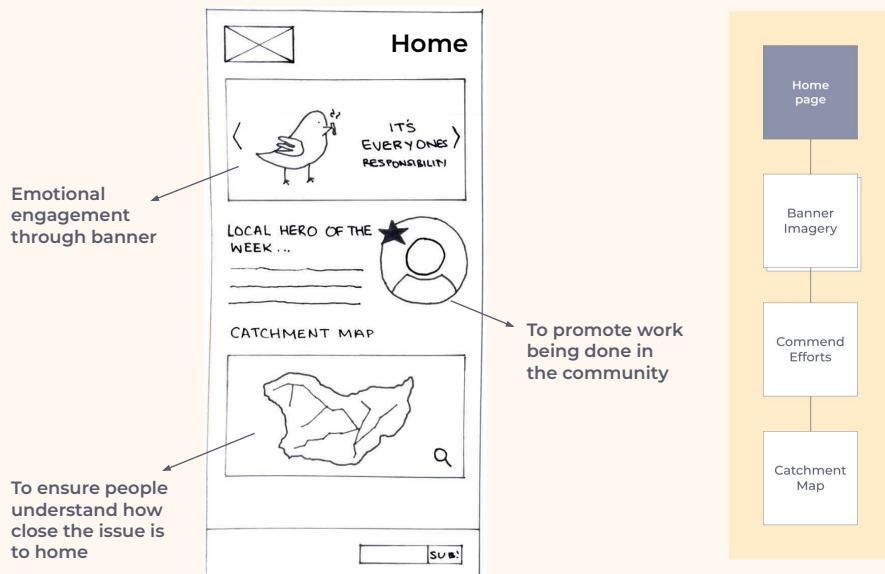
We explored ideas on what the Litter Prevention website might entail.

This graph lays out the basic structure of the website.

First, we need educate people on the impact of litter to raise awareness.

Then show them the goal and overall progress made so far.  
Then give them an easy way to get involved.

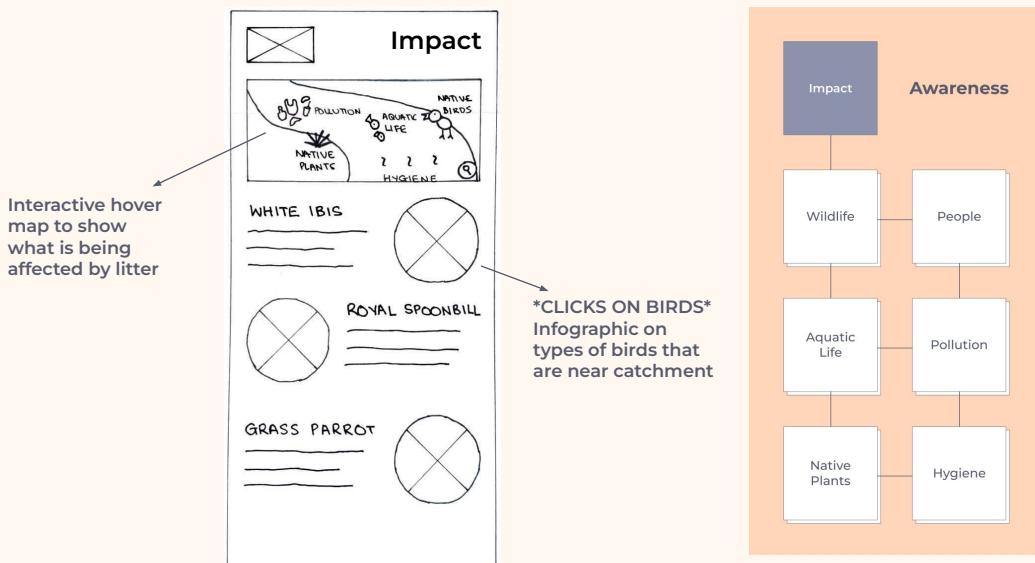
# Website



We did some basic sketches to illustrate the format of this information.

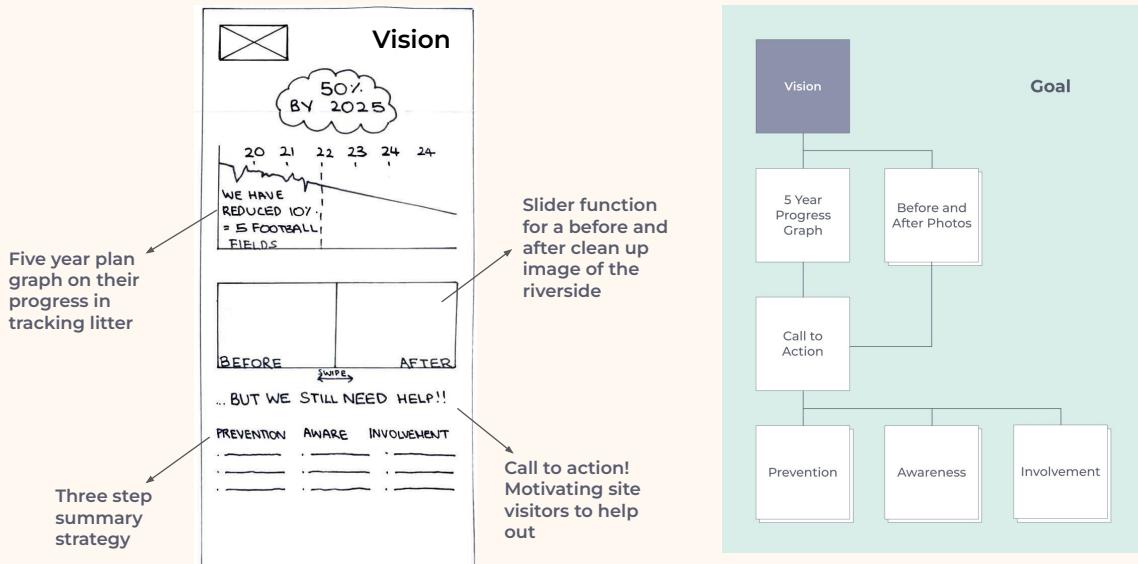
The Home Page's main intention is to capture the audience's attention by acknowledging responsibility and showing how close the problem is to home. We also wanted to recognise the people within the community that are already doing good work to help encourage others to join in.

# Website



The impact page educates people on the effects of littering around the catchment area as they might not be aware. This can be done in an interactive way to make more fun and exciting with pictures and graphics.

# Website



The vision page is a visual representation to help people understand the progress of the goal and easy steps on how people can get started.

Photos, graphs and charts to depict this.

# Website

The diagram illustrates a website page titled "Get Involved" and its corresponding sitemap under the heading "Engagement".

**Website Page Content:**

- Header:** Get Involved
- Section:** WHO IS RESPONSIBLE?
- Icons:** COUNCILS (people in a circle), BUSINESSES (handshake), RESIDENTS (house).
- Text:** WE ALL NEED TO DO OUR BIT!
- Section:** FIND A CLEAN UP!
- Map:** A map showing four locations labeled A, B, C, and D.
- Form:** POSTCODE  with dropdown options A, B, C, D.

**Annotations:**

- An arrow points from the "Explaining what role people play and what they should already be doing eg. Council should provide sufficient bins" text to the "WHO IS RESPONSIBLE?" section.
- An arrow points from the "Giving site visitors the closest option for a clean up" text to the map and dropdown form.

**Sitemap (Engagement):**

```
graph TD; GetInvolved[Get involved] --> InteractiveMap[Interactive Map - Find a clean up]; GetInvolved --> Responsibility[Responsibility]; InteractiveMap --> IndividualInvolvement[Individual Involvement]; Responsibility --> Community[Community]; Responsibility --> Businesses[Businesses]; Responsibility --> Residents[Residents]
```

The getting involved page shows how you can help as a local resident from home or how you can get involved with the community in a simple way.

This might include a sitemap on where the closest clean up is so you know how far you need to travel. As Ivy touched upon before, this might make people understand that the issue is closer to home than they think.

# RCC website

Over the past few years, the River Canoe Club has worked with a number of local stakeholders such as the Cooks River Alliance and The Mullets to organise clean up events along the Cooks River. Building on the success of these past events, the River Canoe Club is pleased to announce our most ambitious environmental project for the Cooks River!

Our aim is to develop a comprehensive [litter prevention strategy](#) to halve the waste across the Cooks River Catchment area by 2025. Through litter prevention, we want to create a 'loved and healthy river valley enriching the heart of Sydney' as part of the 2030 Cooks River Community Vision.

We want to hear from you if you are interested in helping to create a healthy and vibrant Cooks River.

This [short survey](#) is a great way for you to get involved. Your contribution will help us formulate our action plan to help reduce litter in the River by 50% by 2025.

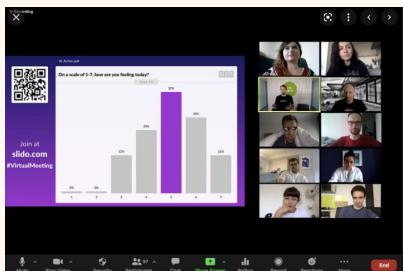
Feel free to also [sign up to our email](#) list to stay updated on the progress and opportunities to get involved in the Cooks River Litter Prevention Strategy (we promise we won't spam you).

While the website is being built, we suggest you make small changes on the River Canoe Club website to make it easier for people to be informed and get involved.

According to our research, these three sections could include:

- Information about the current state of the river and what kind of impacts there are.
- The prevention strategy itself so people are able to read about some of the info
- And a section on how site visitors can help the cause

# Presentations



Other effective ways to raise awareness maybe include online presentations, speaking at schools and clubs.

[https://aev.gouvernement.lu/fr/actualites.gouvernement%2Bfr%2Bactualites%2Btoutes\\_actualites%2Bcommuniques%2B2021%2B04-avril%2B13-campagne-sensibilisation-littering.html](https://aev.gouvernement.lu/fr/actualites.gouvernement%2Bfr%2Bactualites%2Btoutes_actualites%2Bcommuniques%2B2021%2B04-avril%2B13-campagne-sensibilisation-littering.html)

<https://www.stopwaste.org/at-school/take-action-at-home/take-action-at-home-litter-free-action-project>

<https://blog.sli.do/live-polling-in-zoom-tips/>

<https://phrma.org/Coronavirus/PhRMA-Statement-on-Presidential-Executive-Order-Restricting-Diversity-Training>

# **But how do we drive LONG TERM change?**

These were some of the ways you can raise awareness but we also have to think about how we can drive long term change.

# Causes of behavioural change



Dr BJ Fogg | Founder of Behaviour Lab | Stanford University.  
[BJ Fogg N.D., Fog Behavior Model, viewed by 1st Jan 2022.](#)

So this is the graph from Dr BJ Fogg

He is the founder of Behaviour Lab at Stanford University, and has developed this model of behaviour change for over 20 years.

The model suggests that three elements must converge at the same time for a behavior to occur, which is Motivation, Ability, and a Prompt.

This model also suggests that changes are made by starting with small and easy steps.

According to our research, we found out everyone has the ability to pick up litter, but they don't have enough motivation and triggers, so their behaviour doesn't change.

We've also look at some other behaviour studies, and we put them in the hand over document.

<https://behaviormodel.org/>

# Human behavioural studies



These are some examples of human behaviour models that could influence long term change.

Social proof refers to our innate herd mentality. If we find ourselves in a situation where we're not sure what to do, we tend to copy others. If we are able to leverage this and get more people involved, naturally others will join.

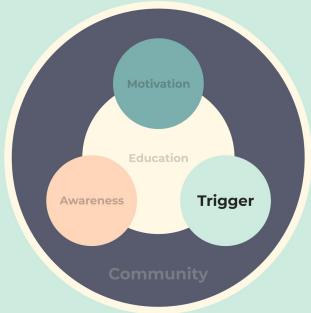
The Scarcity Bias is what causes us to put higher value on something in short supply, high demand or available within a limited timeframe - think diamonds! If we can get the community to see that we only have one Cooks River, people may start to realise how important it is.

The Mere Exposure Effect refers to our tendency to prefer things over others, merely because they are familiar. The more time someone sees a campaign, the more they may become open to that idea.

Temporal discounting is our tendency to put more value on the now. Think ice cream now, gym later. If we can demonstrate the River health in 5-10 years time, maybe more people will join to help.

[Download PDF](#)

<https://drive.google.com/file/d/19o4WGfQ1HPqCbWhaMxt8yTAkxHjOLx4B/view>



# Trigger

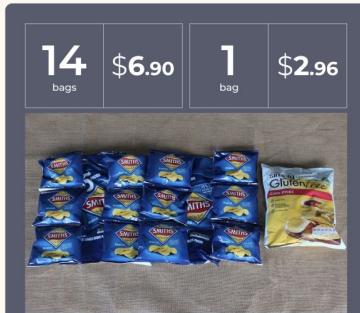
# We are all responsible!



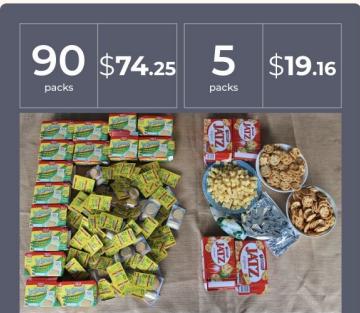
To create long term behaviour change in community - we must start small and focus on the individuals.

# Proactive

## Packaging usage



Small differences adds up over time, lets do it NSW



We can save our river and our wallets at the same time



Promote containers to store snacks

[Litter Free Living N.D., Litter Saving Tips, viewed by 31st Jan 2022.](#)

The first example is about reducing the use of packaging. By highlighting the difference between individual and bulk (bou) packaging, and the price difference, can really show the benefit to the customer, while reducing packaging.

For example, instead of having 14 individual bags of chips buying 1 large pack will create less packaging.

There is also a large difference in price!

So we can use this to encourage people to buy just the 1 bag and use containers instead.

## Trigger at point of purchase



Ideally, these types of messages can be coupled with triggers at the supermarkets to remind people.

This might include having the message on shopping cart, basket, green bags and aisle signage where snacks are located.

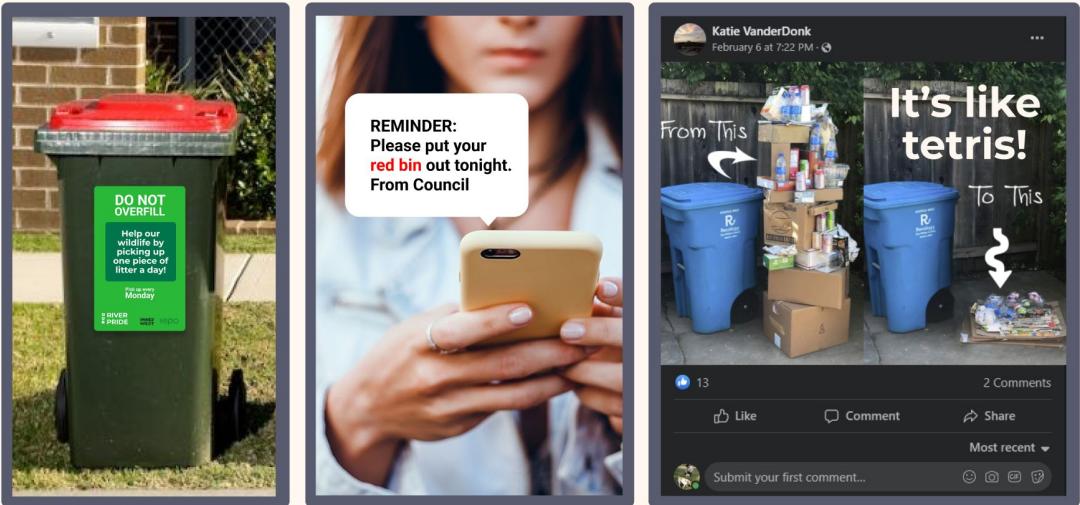
Also, if we want to promote less single use plastic bags, we can encourage supermarkets to sell mesh bags near the veggie section as a trigger.

Litter saving tips. [Litter Free Living, N.D., Litter Saving Tips, Viewed by 31st Jan 2022.](#)

Other ideas:

- Mesh bags sale at fruit and veg section
- Free mesh bag giveaway
- Air tight clips for larger packaging giveaway
- Educate people about how to keep food fresh for bigger packaging
- Promote containers for kids lunches/snacks
- Container giveaways

## Reminders for overfilled bins



[Rethinkwaste 2020, 5 Tips For Managing Your Recycling, Compost & Garbage, viewed by 10th Feb 2022](#)

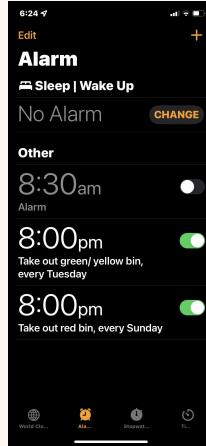
Messaging on bins, may also help reduce overfilling and ensure people are taking bins out on the correct night.

Reminder messages from the council or simply showing how to compact your recycling will help in making sure people are doing the right thing on an individual level.

These are the trigger for proactive level, but what about the trigger for the reactive level?

Other ideas:

- Fridge magnets to remind people to take out bins on certain nights (calendar)
- Stickers to stick on the indoor bins to remind them which night they go out
- Alarm reminders for bins
- Slogan to remind people which night bin goes out
- Resources on how to shrink things down to fit into bins
- Tie your bag campaign so they don't come apart



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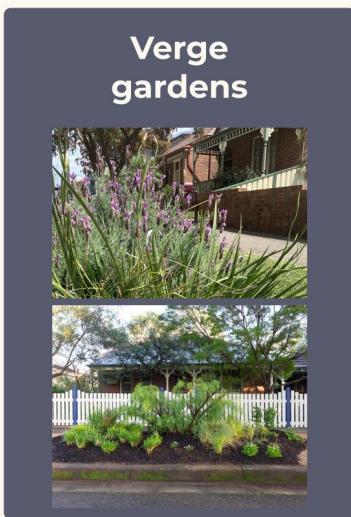
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# Reactive

# Clean your verge



[KeepAustraliaBeautiful N.D., Bin It, viewed by 11th Feb 2022.](#)

Flowers gardens have been proven to reduce litter, encouraging people to plant flowers on their nature strip could be a good solution for hotspot suburbs.

While storm drain signs and general signage may help remind people to do the right thing.

## Other measures

The grid contains five cards:

- Promote plogging with local maps**: An illustration of a hand holding a smartphone displaying a map, with a person jogging and picking up litter in the background.
- “Treasure” hunt clean ups**: An illustration of an open treasure chest溢出着垃圾, and a map with a treasure hunt path marked by a red dashed line.
- Adopt existing app**: Illustrations of a smartphone screen showing the LitterLotto app interface and a McDonald's app interface.
- Learn about native animals as you clean**: Illustrations of a platypus swimming in water and a platypus on land.

Plogging to encourage joggers to pick up litter.

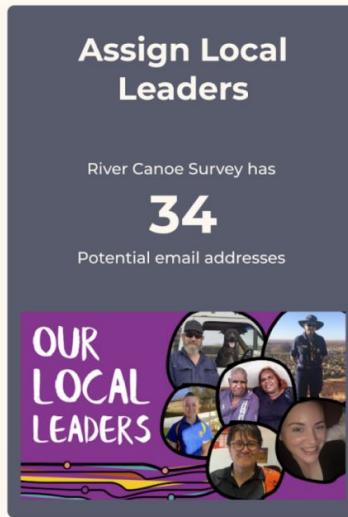
Treasure hunt to gamify clean ups.

Adopt existing apps like Litter Lotto which is available in Australia.

And learning about native animals as you clean.

<https://www.daniellabrosse.art/pukemons-for-leithers-dont-litter>

# Crowdsourcing ideas



Creating competitions with a prize is a great way to get potential ideas but also to get the conversation started.

Assigning local leaders and giving them tools to run a litter workshops online or in person maybe be a great way to source creative ideas from the community.

## What now?



You asked us for ideas on where to start for litter prevention. That you wanted to get the community engaged and create a long lasting change.

This we found to be a very large and complex question, one we believe requires a holistic approach.

From our campaign and human behaviour research, we have found 3 core similarities:

Get your story out there  
Make it easy to get involved and  
Create triggers or reminders

So where do we start? What is the best initiative?

# Every place is different

## Yokohama, Japan

Place-based education



## Singapore

Strict urban laws and heavy fines



## La Villette, Paris

Waterways into swimming hotspots



We realised successful initiatives can take on many forms - there is no one size fits all approach.

Yokohama in Japan achieved 43% reduction in garbage waste with place-based education.

Singapore achieved a clean city by strict urban laws and heavy fines. Although this isn't a path we encourage.

Cities around the world are making polluted waterways into swimming hotspots to reconnect people with rivers and canals.

So what is the right solution for the Cooks River and the communities surrounding it.

Perhaps the first step is a free walking or boat tour that highlights native wildlife and plants and how litter affects them.

Or maybe it's a sponsored bbq's or a small gathering at the river to get the conversation started.

But at the end of the day, you won't know what works best, without trying them first.

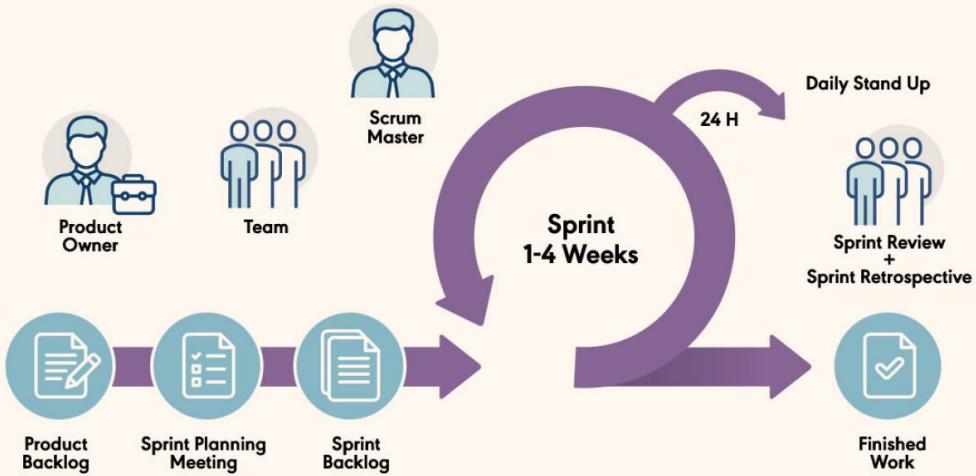
For this reason, we want to go over something called Scrum.

<https://archive.curbed.com/2017/8/3/16089352/city-rivers-swimming-safe>

<https://dotlah.com/2019/09/10/who-cleans-our-singapore/>

<https://www.tandfonline.com/doi/full/10.1080/21681376.2020.1794950>

## Scrum process



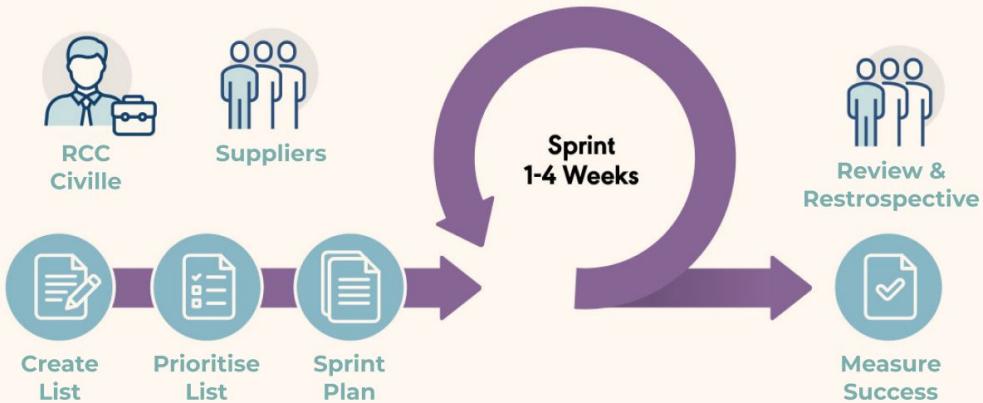
Scrum is a framework that helps teams work together.

Much like a rugby team, scrum encourages teams to learn through experiences, self-organisation and reflect on their wins and losses to continuously improve.

It's widely used in software development but it's becoming more common in other industries like financial services, product development, construction, advertising and much more.

The great thing about this framework, is that we can apply it to test initiatives for the Cooks River, and it might look something like this.

# Scrum for Cooks River



First create a list of all the initiatives that you think will potentially work.

Prioritise that list

Make a plan for the first initiative

Run that campaign on a small scale in a hotspot area

Then measure the success

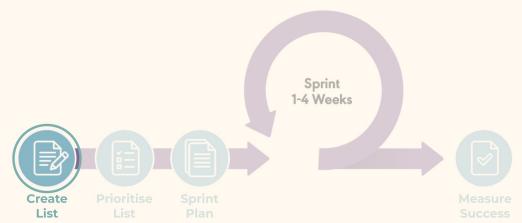
If you are able to run 1 small campaign every month, you'll be able to measure 12 different initiatives in a year and compare the success.

You can then concentrate what worked and cut out what didn't.

Depending on how successful a campaign is, you may find yourself re-prioritising your list, and that's the beauty of scrum, you are able to change direction quickly depending on the community's reaction.

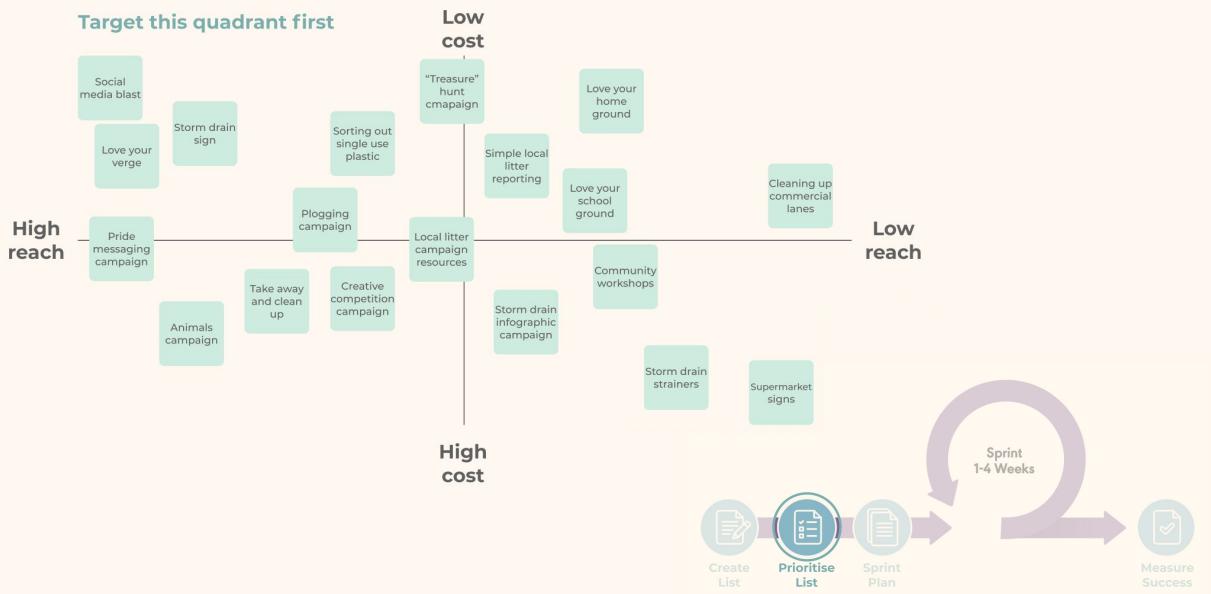
## Create a list

- Sorting out single use plastics
- Simple local litter reporting
- Love your home ground
- Love your school ground
- Love your verge
- Take away and clean up
- Cleaning up commercial lanes
- Local litter campaign resources
- Storm drain signs
- Storm drain strainers
- Animals campaign
- Storm drain infographic campaign
- Plogging campaign
- "Treasure" hunt campaign
- Creative competition campaign
- Community workshops
- Supermarket signage
- Pride messaging campaign
- Social media blast



First just list out all of the initiatives you want to run, any and all ideas are welcome.

# Prioritise the list

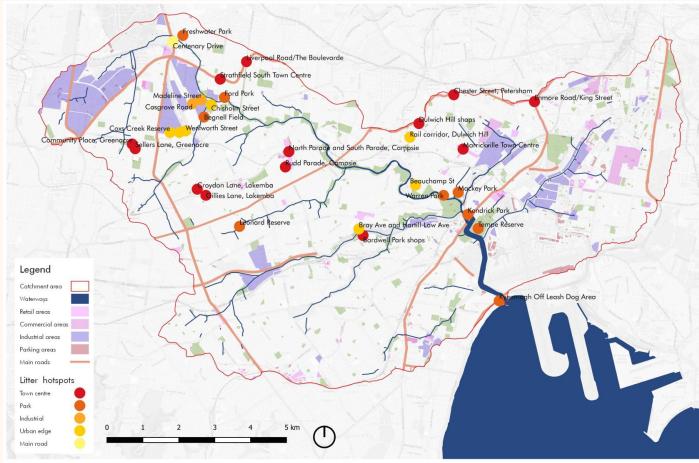


Then plot out all the initiatives onto a quadrant chart with 2 different metrics.

Here I've used cost and reach but these axes can be changed to suit your needs.

Usually you'll want to start with something that is low cost as you may learn from the first few initiatives and this chart may look very different quickly.

## Plan a sprint



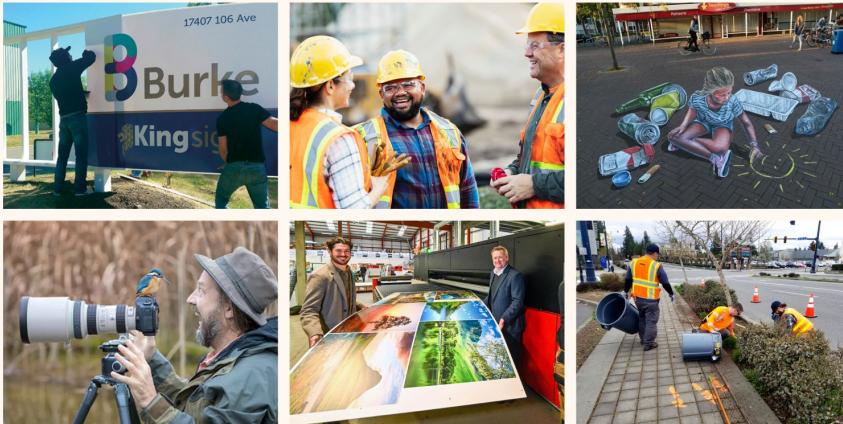
Once you've chosen the first initiative, make a plan.

It's great that you have this hotspot data from the strategy so you'll know exactly where to deploy these initiatives.

The idea of scrum is breaking down big tasks into small ones

so we think any given initiative should only be deployed in one suburb first to see how well it does.

## Sprint 1-4 weeks



Once you're ready, you'll run the campaign.

We have listed local contacts including a wildlife photographer, a signage installer and a large format printer.

Their details are in the slide notes should you need them.

### **Leila Jeffreys - Photographer**

For any urgent requests, please call Kristen on +61 (0)420 416 711 or email [kristen@leilajeffreys.com](mailto:kristen@leilajeffreys.com)  
<https://www.leilajeffreys.com/>

### **Stephen Lear - Signage installer**

0415 166 191  
[stephenlear@rocketmail.com](mailto:stephenlear@rocketmail.com)

### **Next Printing - Large format printer**

Managing Director - Romeo Sanuri  
0425 377 196  
[romeo@next-printing.com](mailto:romeo@next-printing.com)

Senior Account Manager - David De Freitas

0438 546 548

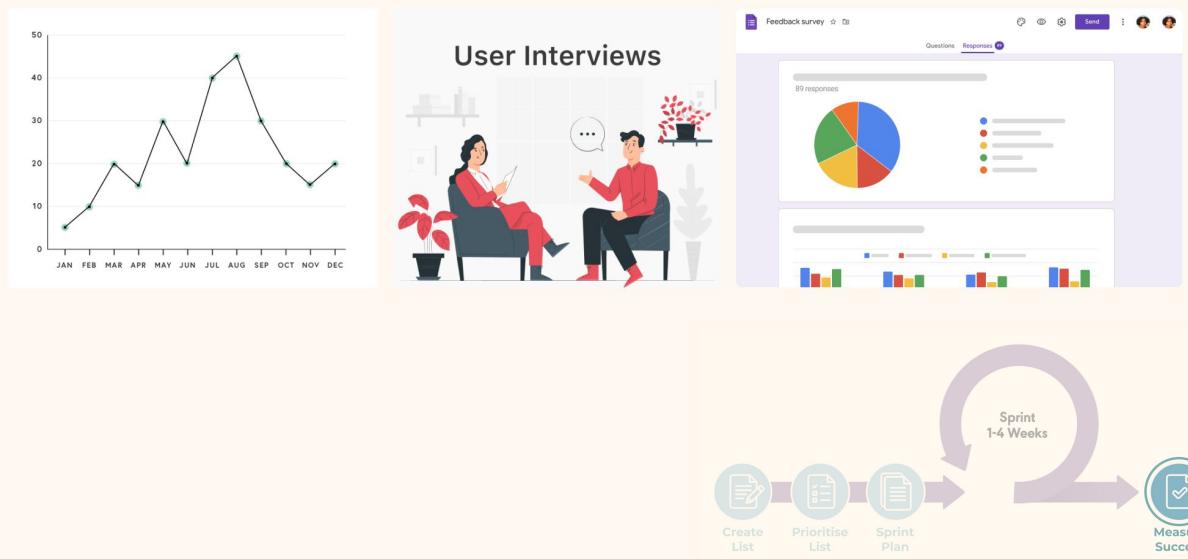
[david.f@next-printing.com](mailto:david.f@next-printing.com)

Unit 3-5, 2 Burrows Road South,  
St Peters, New South Wales, 2044, Australia

E: [enquiries@next-printing.com](mailto:enquiries@next-printing.com)

P: 02 8622 5500

# Measure success



After a fixed time you will want to measure the success of the campaign.

This maybe through website analytics, user interviews, surveys or any other measurable means.

We believe your finding will then steer the direction of the next campaign or initiative.

## Start small



In summary, scrum is a framework that allows you to test small then measure the success so you don't have to make big decisions at the start but only commit when you have evidence that it will work.

# Summary



In summary, the framework consists of 3 core components, which is motivation, awareness and trigger.

All of which will assist in educating the people to build a strong community.

Dr. BJ Fogg's behaviour model suggest that if we are able to start with something small, people are more likely to develop long term habits.

The last graph shows how these individual habits feed into a larger change within the community.

As Van mentioned at the start of the presentation, we believe this requires a holistic approach and we are optimistic that our framework will help!

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# Thank you!

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