

NSW Government Chief Scientist and Engineer
The University of New South Wales

NSW Circular Economy Innovation Network Local Government Engagement Workshop

Conversation Tracker

21 June 2019

AUSTRALIA | NEW ZEALAND | SINGAPORE | KENYA | USA



UNSW
SYDNEY



ThinkPlace

Introduction

Purpose of this document

The purpose of this document is to capture a synthesised summary of the conversations and activities that took place during the NSW Circular Economy Innovation Network Local Government Engagement Workshop held on 21 June 2019.

Please note that this document does not capture the conversation verbatim, rather it presents a snapshot of key discussion points and activities.

About the project

The core role of the Circular Economy Innovation Network is to provide connectivity and coordination between government, industry and research organisations to solve problems, foster innovation and deliver socio-economic benefits (skills, jobs and solutions) to the NSW community, through a more sustainable approach to the design of goods and services, use of resources and management of waste.

The NSW Circular Economy Network local government co-design workshop, aimed to **build connections, excitement, and momentum that will energise and catalyse game-changing innovations.**

Workshop agenda

Session theme	Presenter
Welcome	Professor Veena Sahajwalla, NSW CEIN Director
The circular economy: overview and challenges	Neville Stevens AO, NSW CEIN Steering Committee Chair
Introduction to NSW CEIN	Professor Margaret Harding, NSW CEIN Board Chair
Practical opportunities and industry case studies	Michael Sharpe, Director NSW and ACT Advanced Manufacturing Growth Centre
Workshop methodology	Rodger Watson
Problem exploration <ul style="list-style-type: none"> - What are the barriers? - What are the opportunities? 	Facilitated group work
Problem framing <ul style="list-style-type: none"> - Who has been involved? - Who could be involved? - What is important to them? 	Facilitated group work
Innovation sprint <ul style="list-style-type: none"> - What could the solutions look like? - What are the big themes? 	Facilitated group work
What are the next steps?	Rodger Watson Professor Veena Sahajwalla, NSW CEIN Director

Problem exploration: What are the barriers?

In the first activity, participants were asked to select a material of focus. Materials included low grade plastic, glass, textiles, household furniture, low grade paper and e-waste. Groups were formed around each material and asked to discuss the barriers and opportunities of each. Groups came together to generate a synthesized list of barriers that could be addressed in future activities. Barriers included:

Lack of understanding around waste

- Shared definitions are missing
- More education needed
- Limited knowledge of outcomes
- Need to share emerging opportunities as they are identified

Not enough research about waste including:

- Technical difficulties of recycling
- Technical limitations of materials
- Decreasing value of materials as they are recycled and reused
- Detailed product analysis

Improved legislation and regulation

- Management of stock piles
(Where can they be moved? How might we overcome time restrictions?)

Not enough use of materials

- Lack of market
- Lack of economic incentives (can we remove GST for recycled and repaired materials?)

Need for stronger leadership

- Limited product stewardship

Need for more effective brokering between stakeholders

Volume of materials

- Abundance of low-quality products

Lack of collaboration

- Often resulting from concerns around IP and commercial in confidence

High costs of:

- Breaking down fibres
- Disposal
- Separation
- Repair
- Transport
- Recycled and reused materials can have a lower value

Inconvenience for consumers

Transport of materials

Contamination of materials

- Microfibre complications
- Washing cost
- Removing cost
- Need for better collection systems and models for local reuse and reprocessing

Lack of people with skills to repair

Problem framing: Stakeholder mapping

To frame the problem participants were invited to remain in the same groups and consider the stakeholders in each ecosystem. Groups spent time answering the prompting questions, who has been involved in this ecosystem? Who could be involved in the future?

Who has been involved?

Federal Government (Product Stewardship Act)
 Councils/Local Government
 Environmental Protection Authority
 Waste industry sorting and processing
 Waste Contractors and Recyclers Association of NSW
 Industry Associations (APAC, EA)
 Non-Government Organisations
 Not for Profit Organisations
 Social entrepreneurs
 Community groups
 The media (War on Waste)
 Resource exchange (Facebook and Gumtree)
 Collectors and Processors
 Australian Standards
 Australian Circular Fashion

Who could be involved?

Consumers (provide levies)
 Federal Government
 Treasury (Waste Levy)
 Political leaders
 Roads and Maritime Service
 Regulators and legislators (to provide incentives)
 GST regulators
 Advanced Manufacturing Growth Centre
 NSW Planning
 Private sector, businesses and shops
 Supermarkets
 Standardisation Organisation (local and international)
 Construction industry
 More manufacturers
 Primary producers
 Product designers and developers
 Fashion Designers
 Industrial Designers
 Banks and superannuation firms

Imports/Exports Sectors
 Repurpose organisations
 Economists
 Private investors
 Research and development
 Social enterprise
 Charities
 Waste services
 Educators – universities, schools, teachers and curriculum developers
 Social Media Influencers
 Sustainable events (e.g. Splendor in the Grass, Dark MoFo)
 Research Organisations
 Repair Centres
 De-construction companies
 Consultants
 Civil construction industry
 Consumer lawyers
 Agriculture industry

Problem framing: Stakeholder mapping



Problem framing: Motivations and drivers

To continue framing the problem groups were asked to explore the motivations and drivers of key stakeholder groups by answering, what is important to them?

Stakeholder	What is important to them?
Federal Government	<ul style="list-style-type: none"> • Votes and public opinion • International practice • Economics • Short-term politics • Political alignment
State Government	<ul style="list-style-type: none"> • Reputation • Avoiding risk • Outcomes • Strategies • Legislative framework • Levy revenue
Councils/ Local Government	<ul style="list-style-type: none"> • Community expectation / satisfaction / well being • Public opinion • Financial viability • Roads, rates, rubbish • Transparency • Macro-scale engagement / inclusion • Reputation and integrity • Continuity / consistency • Risk mitigation • QBL outcomes • Cost • Ease • Local, sustainable economy • Consistency • Avoiding risk • Proven systems and technologies • Best value – economic / environmental / social

Stakeholder	What is important to them?
Manufacturers	<ul style="list-style-type: none"> • Operational efficiencies • Innovation • Financial viability • Market leading (environmental standards) • Public perception (reputation) • Market differentiation • Continuity / consistency • Resilience (security) • Market demand / conditions • Profit • Appropriate availability of resources • Quality of products • Retain customer base • Product security • Brand reputation • Perception • Market share
Regulators	<ul style="list-style-type: none"> • Elections • Regulating • Employment • Leadership • To provide support (resources / financial) – Innovation • Accountability • Compliance • Manage risk • Backlash • Community

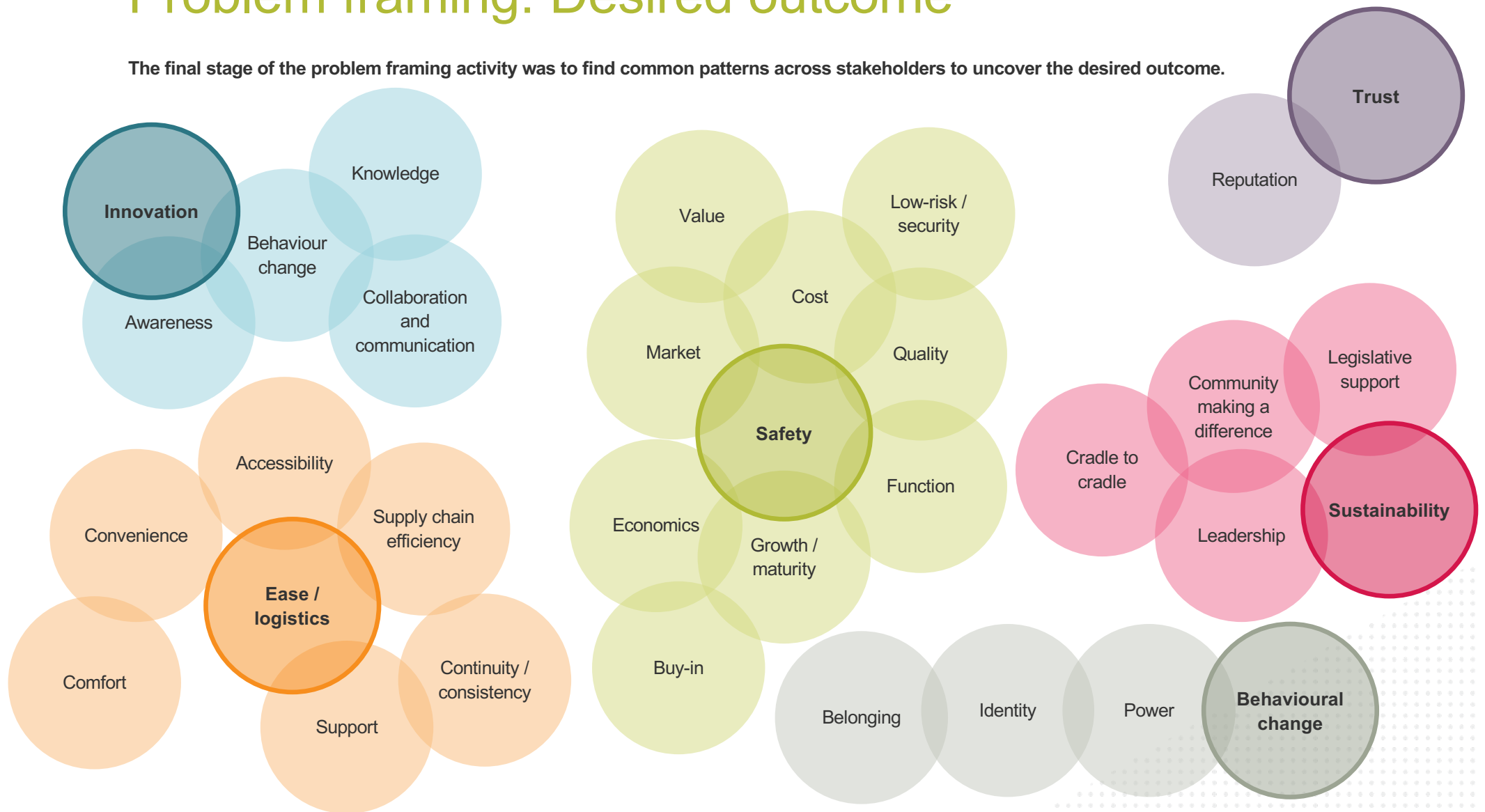
Problem framing: Motivations and drivers

Stakeholder	What is important to them?
Community /consumers	<ul style="list-style-type: none"> • Incentives and convenience • Item longevity • What it does • Peer group
Waste operators	<ul style="list-style-type: none"> • Cost • Tonnage • Markets
Disposers	<ul style="list-style-type: none"> • Cost • Ease • Stigma
Purchasers	<ul style="list-style-type: none"> • Cost • Style • New • Accessibility • Ease
Retailers	<ul style="list-style-type: none"> • Cost • Profit • Ease • Logistics • Stand out brand
Reprocesses	<ul style="list-style-type: none"> • Clean stream • Logistics • Cost market • Secure markets for product • Adequate industrial land • Intellectual property • Low contamination input product
Social enterprise	<ul style="list-style-type: none"> • Job creation • Funding sources

Stakeholder	What is important to them?
Repairers	<ul style="list-style-type: none"> • Demand and skills • Opportunity and design • Design for repair and documentation • Skills • Parts supply
Disrupters	<ul style="list-style-type: none"> • Alternative delivery (what it does) • Demand • Business model • User behaviour
Product designers	<ul style="list-style-type: none"> • Markets and consumer behaviour • Legislated incentives • User feedback to inform design • Behavioural change models
Charity	<ul style="list-style-type: none"> • Cost • Funding of program
Educators	<ul style="list-style-type: none"> • Recognition • Quality • Funding
Researchers/ Universities	<ul style="list-style-type: none"> • Reputation • Innovation • Data integrity • Financial viability • Funding • IP • Commercialisation
Roads and Maritime Services	<ul style="list-style-type: none"> • Structural integrity • Consistency of product supply • Product spec • Availability • Cost efficient • Proven use and durability

Problem framing: Desired outcome

The final stage of the problem framing activity was to find common patterns across stakeholders to uncover the desired outcome.





Innovation sprint: What could the solution look like?

The second half of the workshop was an innovation sprint, dedicated to rapidly generating ideas. The ideas were voted on by participants. The following pages outline the most popular ideas.

Idea card #1 (4 votes)

Mandate recycled content

All manufacturers and importers are required to include the percentage of recycled content for plastic products.

Material: Plastics

Area of focus : Manufacturing and packaging

What are the barriers? Monitoring, product type specifications and rollout time

Who will it benefit? Federal Government and industry

Idea card #12 (19 votes)

100% levy hypothecation

More of a levy on landfill. Money returned to the Waste and Resource sector for avoidance, reuse, recycling, recovery and infrastructure to support.

Material: All

Area of focus: Funding

What are the barriers? NSW Government Treasury 4-year funding cycle, loads of \$\$, conflict of interest (we will not get a waste levy if there is no waste)

Who will it benefit? State Government

Idea card #51 (5 votes)

Legislate textile imports

Limit the type of textiles we import/create clothing with to ensure high quality and ease of recyclability. Maintain end-markets (no point bringing in products that will just end in landfill). Establish watchdog to ensure standards.

Material: Textiles

Area of focus : Quality of recycling

What are the barriers? End-markets, legislation and regulation

Who will it benefit? Government

Idea card #31 (9 votes)

Hard look at Product Stewardship Scheme

Federal Government to mandate Product Stewardship and increase the number of materials on the scheme (mattresses, e-waste, clothing).

Innovation sprint: What could the solution look like?

The second half of the workshop was an innovation sprint, dedicated to rapidly generating ideas. The ideas were voted on by participants. The following pages outline the most popular ideas.

Idea card #26 (8 votes)

Common standards and regulation for textiles

Common standards across councils and agencies for waste management and processing. Governance of waste management. Connectivity and education.

Material: Textiles

What are the barriers? Cost, private and public facilities, incentives, collection, difficulty communicating

Who will it benefit? Councils and Consumers

Idea card #6 (4 votes)

Clothing library

Wearable clothing (that meet specified standards) can be borrowed using a membership and subscription service. Community social enterprise. Use existing infrastructure – libraries and op-shops. Could be extended to tools and camping equipment.

What are the opportunities? Excess, systems, one off purchases

Who will it benefit? Consumers and charities

Idea card #7 (12 votes)

Mandate percentage of recycled content in civil works

Roads, footpaths, hard surfaces

Material: Plastic and other

Area of focus : Civil works

What are the barriers? Specifications, availability, stockpiling restrictions

Who will it benefit? Government (State, Local and Federal)

Idea card #33 (8 votes)

Digital market place

Removing barriers to participate in Gumtree and Facebook. Create secure exchange places.

Material: Furniture

Who will it benefit? Community

Innovation sprint: What could the solution look like?

The second half of the workshop was an innovation sprint, dedicated to rapidly generating ideas. The ideas were voted on by participants. The following pages outline the most popular ideas.

Idea card #53 (4 votes)

Learn from other markets

Look up and look around. Learn from more advanced countries and markets on how best to deal with waste.

What are the barriers? Cost, incentives and drive

Who will it benefit? Government, universities and waste industry

Idea card #4 (4 votes)

Government support for repair skills training

Repair certification. Incentive to repair. Subsidized investigation. Job Network Style. Include update/upgrade to reduce replacements.

Material: E-waste

What are the barriers? Lack of repair skills and cost to repair

Idea card #23 (4 votes)

Microfractory

Regional permanent facility. Sorting feedstock, shredding clothing. Taking back to market.

Material: Textiles

Area of focus : Recycling fiber recovery

What are the opportunities? Volume going to landfill, transport and accessibility

Who will it benefit? Local Government, consumers and charity shops

Innovation sprint: What could the solution look like?

The second half of the workshop was an innovation sprint, dedicated to rapidly generating ideas. The ideas were voted on by participants. The following pages outline the most popular ideas.

Idea card #16 (4 votes)

Upcycling

Building products. Instillation products. Furniture. Padding and packaging.

Material: Low grade paper

What are the barriers? Volume, market value, contamination, transport, economy, lack of people with skills and facilities

Who will it benefit? CEIN, Smart Centre, Councils, Government, Industry

Idea card #47 (9 votes)

Support for sustainable manufacturing

GST Free. Introduce grading for manufacturing, lifecycles and materials. Provide subsidies based on results.

Material: Clothing and textiles

What are the opportunities? Empower consumers, access to sustainable products, improve quality and reduce volume

Innovation sprint: Where do they sit on the spectrum?

System enablers	Pre-product	Product use	Disposal	Recycle/ resource recovery
<p>#29 Legislate longevity</p> <p>#12 100% levy hypothecation</p> <p>#51 Legislate textile imports</p> <p>#13 CE Implementation plan</p> <p>#57 Changing government regulation</p> <p>#26 Common standards and regulation</p> <p>#56 Policy support</p> <p>#14 Guaranteed recurrent funding of the implementation plan</p> <p>#52 Government putting money where mouth is</p> <p>#35 Redefine waste</p> <p>#1 Mandate recycle content</p> <p>#7 Mandate recycle content in civil works</p> <p>#58 Q+A Hub like Whirlpool</p> <p>#39 Consumer education</p> <p>#48 Community education</p> <p>#55 Sustainability education</p> <p>#3 Behavioural change</p> <p>#54 Power of positive behaviour</p> <p>#38 Fashion forward</p>	<p>#5 Explore product stewardship</p> <p>#40 Product stewardship</p> <p>#41 Product stewardship</p> <p>#31 Mandate product stewardship</p> <p>#30 Product stewardship</p> <p>#19 Product stewardship take back</p> <p>#22 Research and development</p> <p>#4 Engagement between science and business school</p> <p>#18 Market research</p> <p>#53 Learn from other markets</p> <p>#46 Fibre research</p> <p>#45 Research recyclable materials</p> <p>#47 Support for sustainable manufacturing</p> <p>#40 Design so it lasts</p> <p>#34 Soft plastic packaging</p> <p>#2 Pull it down, put it back together</p>	<p>#20 Use not own</p> <p>#44 Sharing economy</p> <p>#6 Clothing library</p> <p>#33 Digital marketplace</p> <p>#42 Bag exchange</p> <p>#28 Composting</p> <p>#27 Large scale, regional composting</p> <p>#43 Toy reuse, recycle and resell</p> <p>#60 Clothing collection system</p> <p>#9 Collection points</p> <p>#21 Grassroots alternative re0use</p> <p>#11 Take back scheme</p> <p>#36 Reuse-wash, go refill</p> <p>#37 Ilk delivery/return</p> <p>#61 Market identification</p>	<p>#17 Understanding disposal costs</p> <p>#10 Asbestos risk management</p>	<p>#49 New end life for recycled paper</p> <p>#59 Government support for repair skills training</p> <p>#32 Build plastic roads</p> <p>#15 Upcycling excess textiles</p> <p>#16 Upcycling</p> <p>#62 Textile recycling facility</p> <p>#23 Micro factory</p> <p>#8 Source separation</p> <p>#25 Use recycled content in building fabric</p> <p>#24 Compacting textile insulation</p> <p>#50 RDF</p>





Appendix

Idea Cards

System enablers



Idea Card

029

#

~~029~~

GIVE YOUR IDEA A NAME

(5-7 words)

LEGISLATED LONGEVITY

Material type:

E-WASTE

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

MINIMUM WARRANTY (REPAIR)

- DESIGN FOR REPAIR

- AUSTRALIAN STD - CANNOT SELL WITHOUT



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

OVERCOMING OBSOLETE
DESIGN
THROW AWAY

WHO IS THE IDEA FOR?

GOVT
PRODUCER



Idea Card

~~00~~ 012

GIVE YOUR IDEA A NAME

(5-7 words)

100% LEVY hypothecation.

Material type:

All

Area of focus:

Funding

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

more of levy on landfill & returned to the W+R sector for avoidance, reuse, recycling, recovery + infrastructure to support.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- NSW ~~Govt.~~ Govt. - Treasury
- 4 year funding cycle
- loads of \$\$
- conflict interest - won't get waste levy if no waste!

WHO IS THE IDEA FOR?

State Govt.



Idea Card

51

GIVE YOUR IDEA A NAME

(5-7 words)

legislate textile imports

Material type:

textile

Area of focus:

quality for recyclability

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- limit the type of textiles we import/create clothing with to ensure high quality and ease of recyclability
- maintain our endmarkets → no point bringing in products that will just end in our landfill.
- watchdog for standards

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

endmarkets
legislation & regulation

WHO IS THE IDEA FOR?

Government



Idea Card

A policy directive

013

GIVE YOUR IDEA A NAME

(5-7 words)

An implementation plan for the Circular Economy Policy.

Material type:

Low Grade Plastics.

Area of focus:

Governance

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

We need the government to give us a comprehensive + connected approach that includes measurable/tangible actions that can be undertaken and gives all stakeholders confidence. Maybe even mandatory regulations on procurement, etc. + some accountability

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

It would resolve confusion around accountability + inaction

WHO IS THE IDEA FOR?

The State & Feds



Idea Card

#

057

GIVE YOUR IDEA A NAME

(5-7 words)

chasing government regulation

Material type: low grade paper

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

advocate + apply pressure on state + federal government to make decisions / take action to increase value of low grade paper

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

leadership
lack of collaboration
cost visibility / transparency

WHO IS THE IDEA FOR?

government

everyone



Idea Card

Common Standard / Regu

026

GIVE YOUR IDEA A NAME
(5-7 words)

Material type:

Area of focus:

→ textiles

DRAW OR DESCRIBE YOUR IDEA
(How might you describe it to your grandma?)

- across councils/agencies to a common agreed standard for waste management & process
- Governance of waste management.
- Connectivity / education

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- Cost
- Easier to communicate
- Private & public facilities.
- Incentives
- collection.

WHO IS THE IDEA FOR?

- Council
- Consumer.



Idea Card

POLICY

SUPPORT

#56

GIVE YOUR IDEA A NAME

(5-7 words)

CO-OPERATION WITH STATE
GOVT REGULATORS

Material type:

Area of focus: LEGISLATION / REGULATIONS

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

REGULATORS TAKING A PRO ACTIVE APPROACH TO IDENTIFYING
THE PROBLEMS OF USERS / RECYCLERS TO PROVIDE THE
ENVIRONMENT OF PROBLEM SOLVING RATHER THAN
PROSECUTION

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

REGULATORY

WHO IS THE IDEA FOR?

ALL



Idea Card

FUNDING ~~THE~~

#

~~014~~

GIVE YOUR IDEA A NAME

(5-7 words)

Guaranteed ~~ongoing~~ recurrent funding of the implementation plan

Material type:

L.G. Plastics

Area of focus:

Finance

014

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

The things we need to do need money. There could be a variety of sources - private & public sectors, shared projects. An injection of capital, seed funding is needed to get things going.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Gets LG ^{Govt} on board. and achieves outcomes in a reasonable time frame

WHO IS THE IDEA FOR?

Public/Private sector.



Idea Card

#

052

GIVE YOUR IDEA A NAME

(5-7 words)

Government putting money where

Material type:

Furniture.

Area of focus:

and anyone they fund.

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Fed, state, local gov. ~~pe~~ buy furniture that
meets all of these circular economy
principles^{ies} to show demand.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

provides market

WHO IS THE IDEA FOR?

government.



Idea Card

035

GIVE YOUR IDEA A NAME

(5-7 words)

Redefining definition waste

Material type:

Plastics.

Area of focus:

Legislation.

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

'Waste' ^{converted to} resource = should no longer be
regarded as 'waste'.
+ treated as

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- generalised
-

WHO IS THE IDEA FOR?

- fed + state.





Idea Card

001

GIVE YOUR IDEA A NAME

(5-7 words)

MANDATED REC.
CONT.

Material type:

PLASTICS

Area of focus:

Manufacturing, packaging

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

All manufacturers ^{+ importers} required to include 1% recycled content for plastic products.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Monitoring
Product type specifications
Rollout time

WHO IS THE IDEA FOR?

Govt (mandate) feds.
Impact on industry



Idea Card

#

207

GIVE YOUR IDEA A NAME

(5-7 words)

Mandate %. Recycled - civil works

Material type:

Plastics + other

Area of focus:

Civil works

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Mandating %. recycled plastic ^{+ other} content in
civil works - roads, footpaths, hard surfaces

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- Specifications
- Availability
- Stockpiling restrictions

WHO IS THE IDEA FOR?

State + local Govt
+ feds.



Idea Card

Qs and As HUB like Whirlpool

58

GIVE YOUR IDEA A NAME

(5-7 words)

Material type:

Area of focus:



DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

CEIN website acts as a HUB where people can post Qs and get answers like "How do I access an empty container to ship produce abroad?"

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Finding out what's available to enable businesses to overcome challenges

WHO IS THE IDEA FOR?

Anyone seeking a quick answer to identify a solution

Then create FAQ'S & case studies



Idea Card

039

GIVE YOUR IDEA A NAME

(5-7 words)

Consumer Education

Material type:

Textile

Area of focus:

clothing use

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



- ☐ Quality of textiles
- ☐ Re-use and recycling
- ☐ all people get the same message

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

lack of understanding
inconsistencies
visibility & transparency

awareness
collaboration

WHO IS THE IDEA FOR?

Gov't and industry lead
for the community



Idea Card

048

GIVE YOUR IDEA A NAME

(5-7 words)

community education

Material type:

low grade paper

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- composting course
- paper making
- reuse (community)

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

transport
leadership

collection

cost

WHO IS THE IDEA FOR?

local community
local government



Idea Card

EDUCATION - SUSTAINABILITY

#

085

GIVE YOUR IDEA A NAME

(5-7 words)

BUSINESS, PEOPLE, PLANET

Material type: waste materials.

Area of focus: community, council

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?) think

people need to be more sustainability

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- engagement with community
local govt

BARRIERS

- cost
- too hard? Behaviour change

WHO IS THE IDEA FOR?

- community
- local govt





Idea Card

003

GIVE YOUR IDEA A NAME

(5-7 words)

BEHAVIOURAL CHANGE

Material type:

E-WASTE

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

POST REPAIR INFORMATION + OPPORTUNITY ON
UNRELATED (BUT INTERESTED) ALTERNATIVE PLATFORM
IN COMMON USE + DISPERSION

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

MAKE REPAIR AN OPTION
PROVIDE KNOWLEDGE

WHO IS THE IDEA FOR?

USERS
REPAIRERS



Idea Card

054

GIVE YOUR IDEA A NAME

(5-7 words)

Power of Positive Behaviour

Material type:

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Promote positive behaviour by highlighting
success and that 'it's the norm' — give
sense of involvement.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Getting data, highlighting good
behaviour by individuals.

Barrier Disparity of ~~recycling~~ processes can
alter what constitutes positive behaviour.

WHO IS THE IDEA FOR?

Industry
Local Government
State

(Anyone who wants to recycle)



GIVE YOUR IDEA A NAME

(5-7 words)

Fashion forward

Material type:

Clothing

Area of focus:

Fast Fashion

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Having influencers / publications / media
supporting responsible consumption
& upcycling of fashion.

- Role modelling the desired behaviours
to followers

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

- taps into aspirational
values, desires

WHO IS THE IDEA FOR?

consumers / influencers

Pre-product



Idea Card

05

GIVE YOUR IDEA A NAME

(5-7 words)

EXPLORE + DEVELOP PRODUCT
STEWARDSHIP

Material type:

EWASTE

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

~~USE ONLY~~ - RESEARCH MODEL + Function + Stakeholder
+ requirements to permit Stewardship
TO WORK
- Follow up with legislated Standards

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

CRADLE TO CRADLE
Prolong MATERIAL
LIFE/USE

WHO IS THE IDEA FOR?

USERS
PRODUCERS



Idea Card

040

GIVE YOUR IDEA A NAME

(5-7 words)

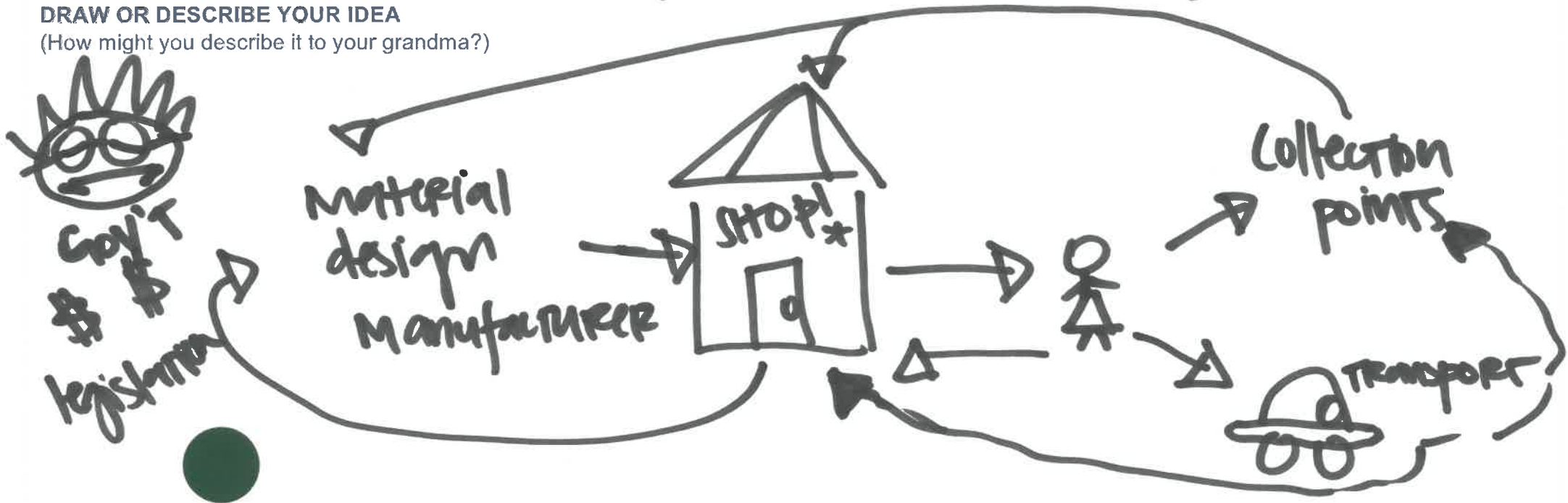
Product Stewardship

Material type: **Textiles**

Area of focus: **clothing**

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

convenience / accessibility
contamination
innovation
collaboration
legislation

product stewardship
collection systems

WHO IS THE IDEA FOR?

Everybody benefits
driven by gov't & industry



Idea Card

Product Stewardship

#

041

GIVE YOUR IDEA A NAME

(5-7 words)

Product Stewardship (Full lifecycle)

Material type: Low Grade Plastic

Area of focus: Product Design

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Creating standards + guidelines for ^{the full} end to end product lifecycle — making businesses responsible for what they create from end to end.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Improves quality of product
quality / avoidance / redundancy
removes inbuilt obsolescence

WHO IS THE IDEA FOR?

Industry Bodies
CEAN.



Idea Card

Hard look@ Product Stewardship #031 Scheme.

GIVE YOUR IDEA A NAME

(5-7 words)

Fed. Govt to mandate PS

DRAW & DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

The PS — (mandatory side) to be given the weight to do what it was designed to do

Get ↑ things on the scheme properly.

mattresses
e-waste
clothing

Material type:

Area of focus:

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

WHO IS THE IDEA FOR?



Idea Card

product
Stewardship by Manufacturers

030

GIVE YOUR IDEA A NAME
(5-7 words)

PST

Material type: clothing
Area of focus: Fashion

DRAW OR DESCRIBE YOUR IDEA
(How might you describe it to your grandma?)

When a clothing manufacturer makes and sells a product, the customer can return to the supplier for reuse/recycling

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- Data exists



WHO IS THE IDEA FOR?

Government to leverage the levers they have.



Idea Card

019

GIVE YOUR IDEA A NAME

(5-7 words)

Product stewardship - take back.

Material type:

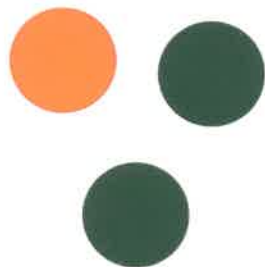
Plastics (non-CDS)

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Incorporate cost of recycling into price of product & providing market incentive to return.



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

WHO IS THE IDEA FOR?

- producers + CDS cleaner
- cost
- impact on kerbside - multiple systems
- Need markets + Need lower grade markets as CDS

Federal.



Idea Card

Research & Development

022

GIVE YOUR IDEA A NAME

(5-7 words) Commercialisation of R&D.

Material type: low-grade Plastic

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Tap into existing R&D projects and commercialise them so they can be utilised by broader industry / other stakeholders.

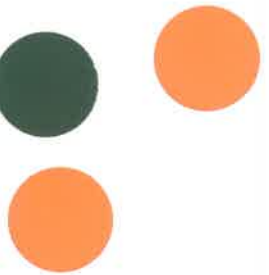
Get to minimum viable product faster. and gather learnings.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Commercialisation
Share Intellectual property

WHO IS THE IDEA FOR?

Industry
Universities





Idea Card Engagement Between Science and Business School # 004

GIVE YOUR IDEA A NAME

(5-7 words)

• Multidisciplinary collaboration

Material type:

Area of focus: Commercialization of Research

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Science + Business = Sustainable/feasible Solution

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

New science and profit.

WHO IS THE IDEA FOR?

University



Idea Card

MARKET RESEARCH

018

GIVE YOUR IDEA A NAME
(5-7 words)

Creating New market

Material type: Wastes . material .

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- Find out the new consumers / ~~to~~ product / process .
- To make value from wastes .

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

- Find Alternatives
- Barriers:
- Time
 - Cost
 - Participation
 - non responsiveness

WHO IS THE IDEA FOR?

Industry .



Idea Card

Learn from other markets

053

GIVE YOUR IDEA A NAME

(5-7 words)

Look up, Look around

Material type:

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Learn from more advanced countries/markets
on how to best deal with waste.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

Cost; incentives; drive

WHO IS THE IDEA FOR?

Government, universities,
waste industry



Idea Card

046

GIVE YOUR IDEA A NAME

(5-7 words)

Fibre Research
~~Fibre Innovation~~

Material type: Textiles

Area of focus: Recycling/

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- learn how well various fibres recycle, including other quality/longevity properties
- Figure out what products can be made or extracted from used textiles

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Volume.

Research

Technical limitations of materials

Technical limitations of recycling

WHO IS THE IDEA FOR?

Industry

Researchers.



Idea Card

#

045

GIVE YOUR IDEA A NAME

(5-7 words)

Design for Research Recyclable Materials

Material type:

Textiles

Area of focus:

Recycling

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

~~Draw~~

□ innovation to recycle mixed fibres for re-use

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Research

Technical limitations

decreasing value of material

WHO IS THE IDEA FOR?

Industry

Researcher



GIVE YOUR IDEA A NAME

(5-7 words)

SUPPORT 4 SUSTAINABLE
MANUFACTURING

Material type:

clothing
textiles

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

~~* empower~~

* gst free

* grading(manufacturing)(life cycles)
(materials) + provide subsidies
based on results

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

- * empower consumers
- * access to sustainable
product
- * improve quality & reduce volume

WHO IS THE IDEA FOR?



Idea Card

#

040

GIVE YOUR IDEA A NAME

(5-7 words)

Design so it lasts.

Material type:

Furniture

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



no more built in obsolescence
government charges you if
your product does not last
a reasonable time
frame.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

bad design / turn over
of furniture

WHO IS THE IDEA FOR?

manufacturers / designers



Idea Card

4034

GIVE YOUR IDEA A NAME

(5-7 words)

Soft plastics packaging

Material type:

Soft Plastics

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Reduce use excessive plastics.

- eg peeled banana, mandarin, avocado
(plastic wrap)

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- price + convenience
- norms

WHO IS THE IDEA FOR?

- retailers



Idea Card

002

GIVE YOUR IDEA A NAME

(5-7 words)

Material type: *Furniture*

Area of focus: *Design*

pull it down / put it back together

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

• *modular*

• *resident can dismantle + recycle @ home or repurpose or repair*

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- *market*
- *lack of repairers*
- *source separation*
- *clean stream.*

WHO IS THE IDEA FOR?

- *Furniture designers.*

Product use



Idea Card

020

GIVE YOUR IDEA A NAME

(5-7 words)

USE NOT OWN

Material type:

E-WASTE

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

PRINTING ON DEMAND - SHARED RESOURCES

- SEGMENT THE MARKET
- e.g. only print at the institution (students)
- e.g. Coffee Shop Printer

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

CONVENIENCE + CULTURE

WHO IS THE IDEA FOR?

USER +
PROVIDER



Idea Card

044

GIVE YOUR IDEA A NAME

(5-7 words)

Share economy

Material type:

Furniture

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

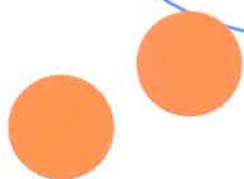
(How might you describe it to your grandma?)

local - neighbourhood - resource
Sharing

notice board.
to exchange

- tool library

-



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

it can still be used and
works but has little
value.

WHO IS THE IDEA FOR?

Community



Idea Card

Clothing Library.

666

GIVE YOUR IDEA A NAME

(5-7 words)

Material type:

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Wearable clothing (meets standards) can be 'borrowed'. ~~free~~ - member based - subscription.

- Community social enterprise
- Use existing infrastructure
library / op shops
- tools
- camping

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- Excess
- Systems /
- one off purchases
- Opp: Stylists / niche / identity

WHO IS THE IDEA FOR?

- consumers
- charities



Idea Card

033

GIVE YOUR IDEA A NAME

(5-7 words)

Digital market place.

Material type:

Furniture.

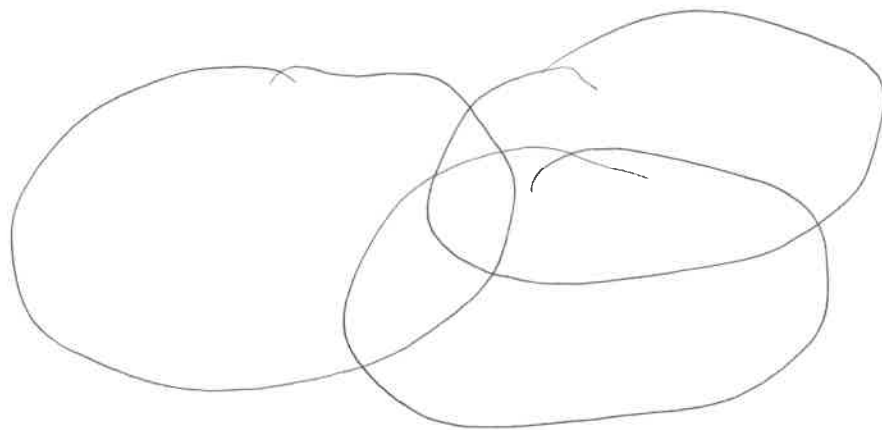
Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Removing barriers
to participate
in guntree/facebook

secure exchange places.



routes
free trailers
to move it.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

movement of useable
furniture through the community

WHO IS THE IDEA FOR?

Community.



Idea Card

042

GIVE YOUR IDEA A NAME

(5-7 words)

Bag exchange

Material type:

soft plastic bag

Area of focus:

collaborative consumption.

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

drop off + available @ retail points
eg boomerang bags

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- hygiene / perceptions
- storage + transport.

WHO IS THE IDEA FOR?

consumers
retailers.



Idea Card

028

GIVE YOUR IDEA A NAME

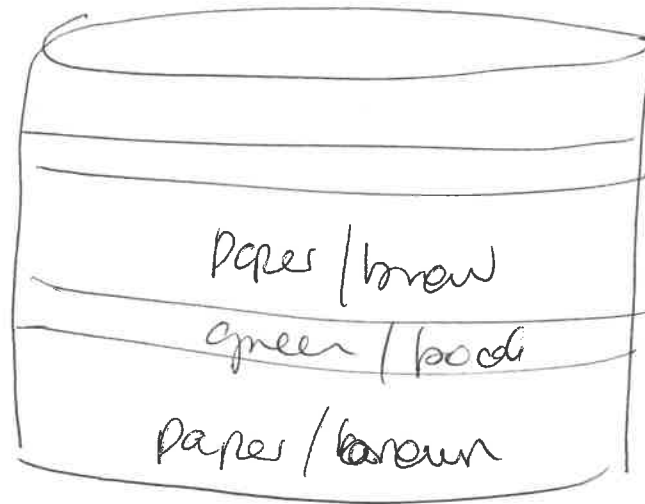
(5-7 words)

COMPOSTING - local/
household

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

compost bin



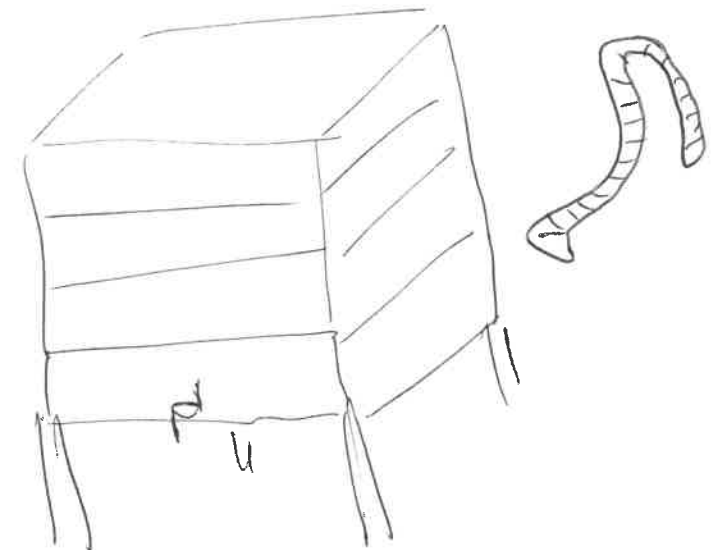
Material type:

low grade paper

Area of focus:

/schools / community groups

Worm farm



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

contamination
transport

WHO IS THE IDEA FOR?



Idea Card

027

GIVE YOUR IDEA A NAME

(5-7 words)

Composting - regional large scale

Material type:

low grade paper

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

composting for commercial - ~~food waste~~
commercial sized composting facilities
↳ provide infrastructure

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

education economics
contamination volume
transport

WHO IS THE IDEA FOR?

industry



Idea Card

~~10~~043

GIVE YOUR IDEA A NAME
(5-7 words)

Toys ^{Recycle} Reuse / Resell

Material type:

Plastic toys

Area of focus:

collaborative consumption

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- Put age hot stamped on product - safety regs. to increase reuse
- Recycled content in plastic toys
- take back for recycling plastic toys.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- safety info + age
- changed production

WHO IS THE IDEA FOR?

Govt mandate.



Idea Card

60

GIVE YOUR IDEA A NAME

(5-7 words)

clothing collector
system

Material type:

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

logistics door to door collector - eg Textiles
by ethical social enterprise
within a neighbor
sub-communal level.
[communal eg provides bags]
makes bags
dresses to library of
clothes.
manages
down supply chain ethically.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

WHO IS THE IDEA FOR?



Idea Card

009

GIVE YOUR IDEA A NAME

(5-7 words)

collection points

Material type:

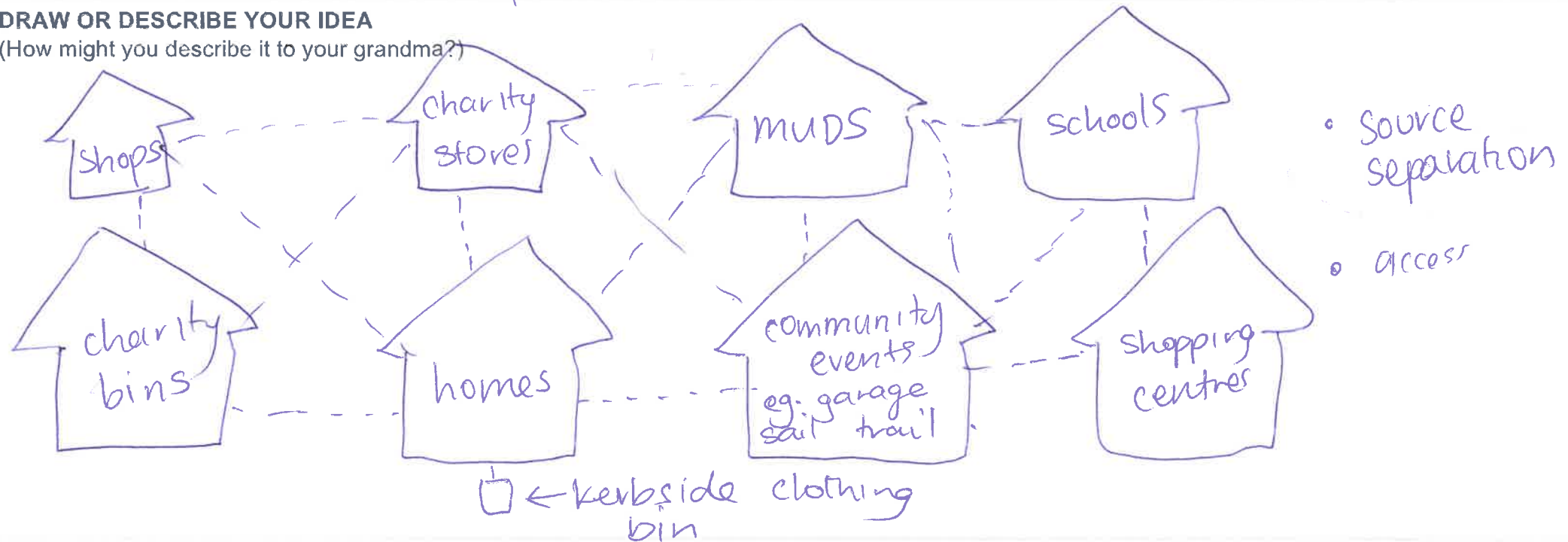
textiles

Area of focus:

residents / MUDs

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

access
contamination

WHO IS THE IDEA FOR?

consumers / residence



Idea Card

#

021

GIVE YOUR IDEA A NAME

(5-7 words)

grass roots
alternative re-use

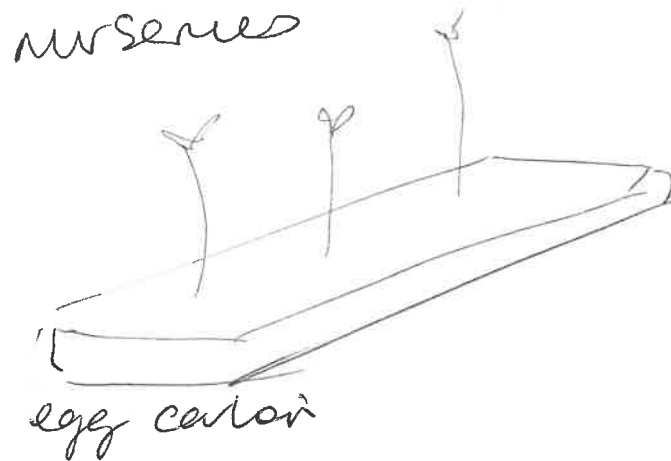
Material type:

low grade paper

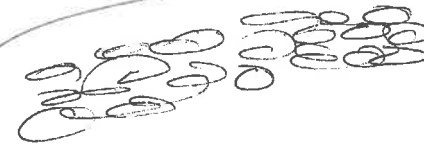
Area of focus:

DRAW OR DESCRIBE YOUR IDEA

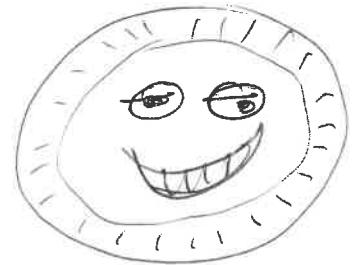
(How might you describe it to your grandma?)



weed matting



crafts



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

buy-in
transport
lack of collaboration
contamination

WHO IS THE IDEA FOR?

community
industry - landscaping
local government - build on existing services



Idea Card

011

GIVE YOUR IDEA A NAME

(5-7 words)

take back scheme

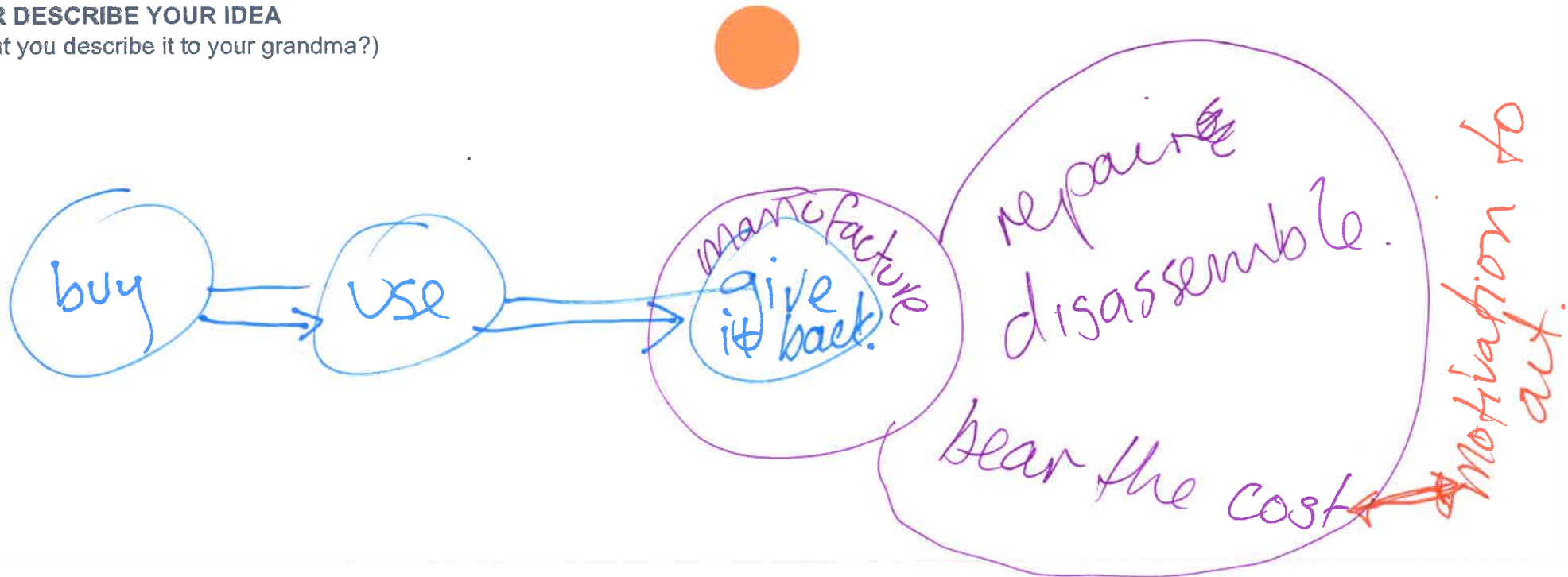
Material type:

Furniture

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- more who need to deal with it

WHO IS THE IDEA FOR?

Manufacturer / consumer



Idea Card

936

GIVE YOUR IDEA A NAME

(5-7 words)

Reuse - wash + Go/Refill

Material type:

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Avoiding single use plastics by using reusable washable/standardised bottles/jars.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- lightweight
- storage
- hygiene
- convenience

WHO IS THE IDEA FOR?

Fed + State Govt.
Industry



Idea Card

Q37

GIVE YOUR IDEA A NAME

(5-7 words)

Milk delivery/return

Material type:

Plastics

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Return glass bottles eg. 1970s milk delivery
Washable.

Return to store.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- Convenience
- administering
- light weighting / durability v. weight.

WHO IS THE IDEA FOR?

Fed + State
Industry



Idea Card

61

GIVE YOUR IDEA A NAME

(5-7 words)

MARKET IDENTIFICATION

Material type: Low Grade Plastics

Area of focus: MARKETS



DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

~~How can we find~~



Use CEIN to network avenues for buying /selling materials for re-use.

Push → Pull mechanism

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Opening up silos for end-products

WHO IS THE IDEA FOR?

Industry → Manufacturers

Disposal



Idea Card

017

GIVE YOUR IDEA A NAME

(5-7 words)

understanding disposal cost.

Material type:

Furniture

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- separate costs for Bulk waste Collection - users pays so \$ understood.

link behaviour w consequence / cost.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- political.

WHO IS THE IDEA FOR?

Local government.



Idea Card

010

GIVE YOUR IDEA A NAME

(5-7 words)

ASBESTOS

RISK MANAGEMENT

Material type:

GLASS

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Glass fibres were used in road base for 30 yrs - small amount of ^{asbestos} contamination meant disposal of glass stockpile
→ Commercial decision to move away from glass

The rules are too extreme and the risk is magnified beyond its reality.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Better address risks both ^{consequence} & ^{probability}
Barrier - 'uninformed' audience.
Less waste of materials due to
*asbestos 'contamination'
Better education on risks and management.

WHO IS THE IDEA FOR?

Government & legislators /
Regulators
Industry.

Recycle/resource recovery



Idea Card

041

GIVE YOUR IDEA A NAME

(5-7 words)

diversified/
new end life or recycled
paper

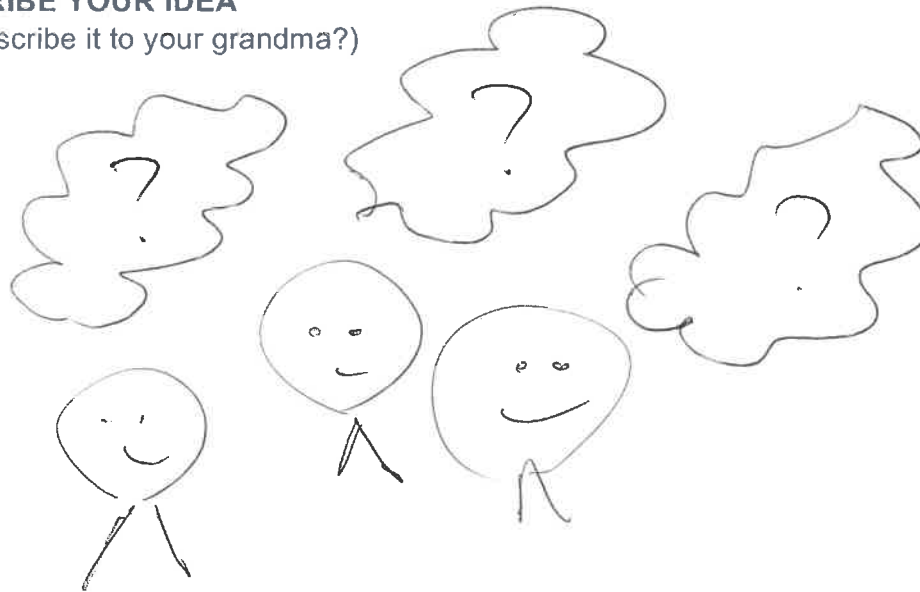
Material type:

low grade paper

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



R & D - Think Tanks

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

knowledge
volume
leadership

lack of collaboration
not enough use
cost
inconvenience

WHO IS THE IDEA FOR?

industry
government



GIVE YOUR IDEA A NAME

(5-7 words)

GOVT SUPPORT FOR REPAIR
SKILLS TRAINING

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

REPAIR CERTIFICATION

- INCENTIVE TO REPAIR / SUBSIDISED INVESTIGATION
- INCENTIVE TO REPAIR (e.g. Job Network style)
- INCLUDE update/upgrade to Disincentive Replace

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

LACK OF REPAIR / COST TO REPAIRERS
OPPORTUNITY / INVESTIGATE PRODUCERS

WHO IS THE IDEA FOR?

REPAIRERS

PRODUCERS



Idea Card

Infrastructure

632

GIVE YOUR IDEA A NAME

(5-7 words)

Build plastic roads

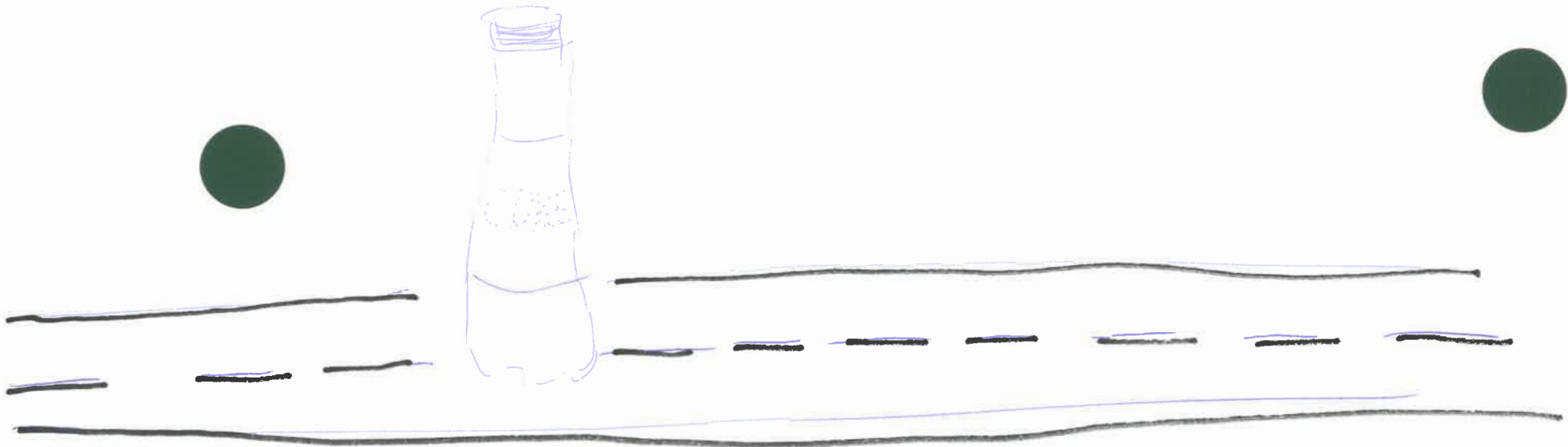
Material type: Lowgrade Plastics

Area of focus: Infrastructure

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

Use plastic in roads.



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

Makes use of recycled products a reality
Sustainable procurement

WHO IS THE IDEA FOR?

Council
RMS
Engineers



Idea Card

Upcycling Excess textiles

#

015

GIVE YOUR IDEA A NAME

(5-7 words)

Material type:

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- Upcycle excess textiles into things people want eg. rugs / etc. ^{business opportunity} for social enterpriz
- ~~rugs etc to go to scale~~
 - style + status market sustainability
 - high quality so long lived.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- I.P needed on process
- social enterprise app.

WHO IS THE IDEA FOR?

Consumers

Entrepreneurs



Idea Card

016

GIVE YOUR IDEA A NAME

(5-7 words)

up cycling.

Material type:

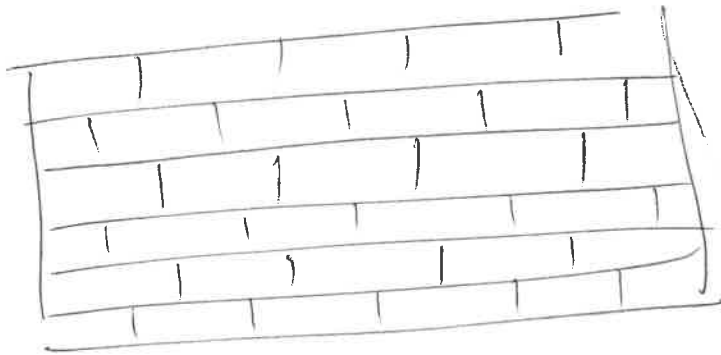
low grade paper

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

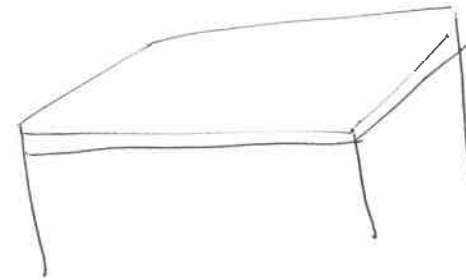
(How might you describe it to your grandma?)

building products

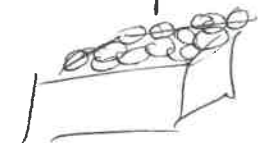


insulation products

furniture



padding / packaging



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

volume
market value

transport
economy

financial incentive

lack of

people w/ skills
+ facilities

contamination

WHO IS THE IDEA FOR?

CEIN

Smart Centre

councils

THINK

research

government

industry - waste



Idea Card

62

GIVE YOUR IDEA A NAME

(5-7 words)

Textile Recycling facility

Material type: textile

Area of focus: recyclability



DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

to establish textile recycling facilities in Australia
(not sorting for re-sale, but breaking back
down to new fibres again)

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

~~contamin~~

visibility

lack of facility

end-market

WHO IS THE IDEA FOR?

industry
government



Idea Card

023

GIVE YOUR IDEA A NAME

(5-7 words)

microfactory

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

regional - permanent
itinerant.

Material type: textile

Area of focus: recycling/fibre recovery

FEEDSTOCK
↑
SORTING



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

volume going to landfill
transport
accessibility
~~high volume~~

WHO IS THE IDEA FOR?

serving consumers & charity shops
led by local government



Idea Card

008

GIVE YOUR IDEA A NAME

(5-7 words)

Source separation

Material type: low grade paper

Area of focus: rec

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

contamination
transport
decreasing value

volume
"buy-in"

WHO IS THE IDEA FOR?

community
industry
markets



Idea Card

025

GIVE YOUR IDEA A NAME
(5-7 words)

use BASIX to ↑ requirement
to demo
use of recycled content in building fabric.

Material type:

Textiles, glass etc.

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)



↑ requirement for
recycled content
thru BASIX

Building specs - eg
not just sound level (acoustic)
but "waste/recycle" in products.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS
IDEA ADDRESS?

~~needing~~ govt to create
legish + regulation

WHO IS THE IDEA FOR?

Architects
Specifiers



GIVE YOUR IDEA A NAME

(5-7 words)

Compacting textile insulation.

Material type:

textiles

Area of focus:

new product

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

- ~~make to meet greenspec requirements~~
- Shredded + compacted waste textiles made into blocks (like batts)
- 'Waste' to help meet sustainability requirements via BASiCs etc.

WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

- multiple fabrics types
- housing sustainability

WHO IS THE IDEA FOR?

Entrepreneur
R+D (uni's)
Govt



Idea Card

#

050

GIVE YOUR IDEA A NAME

(5-7 words)

~~Making Materials~~ RDF

Material type:

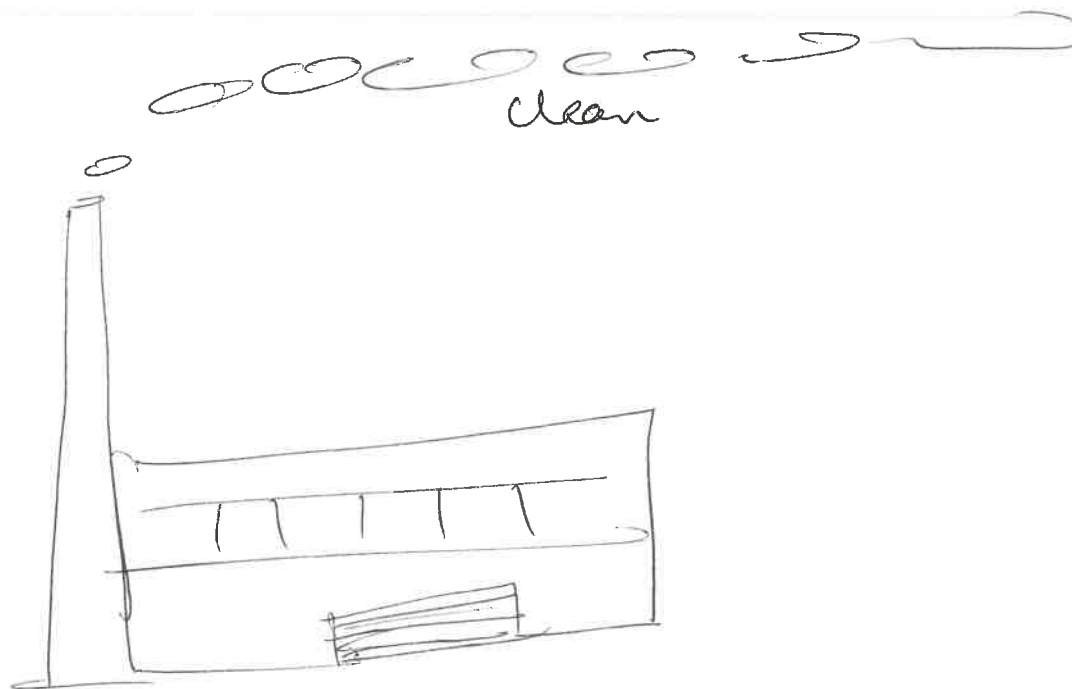
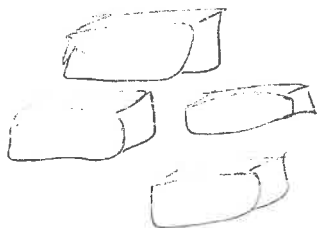
low grade paper

Area of focus:

DRAW OR DESCRIBE YOUR IDEA

(How might you describe it to your grandma?)

brickettes



WHAT BARRIERS AND/OR OPPORTUNITIES DOES THIS IDEA ADDRESS?

volume
residual?

decreasing value

leadership

contamination

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