

Circularity

2023

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AUSTRALIAN
CIRCULAR
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PLANET **ARK**

20 Nov | 10:40 – 11:30 AM

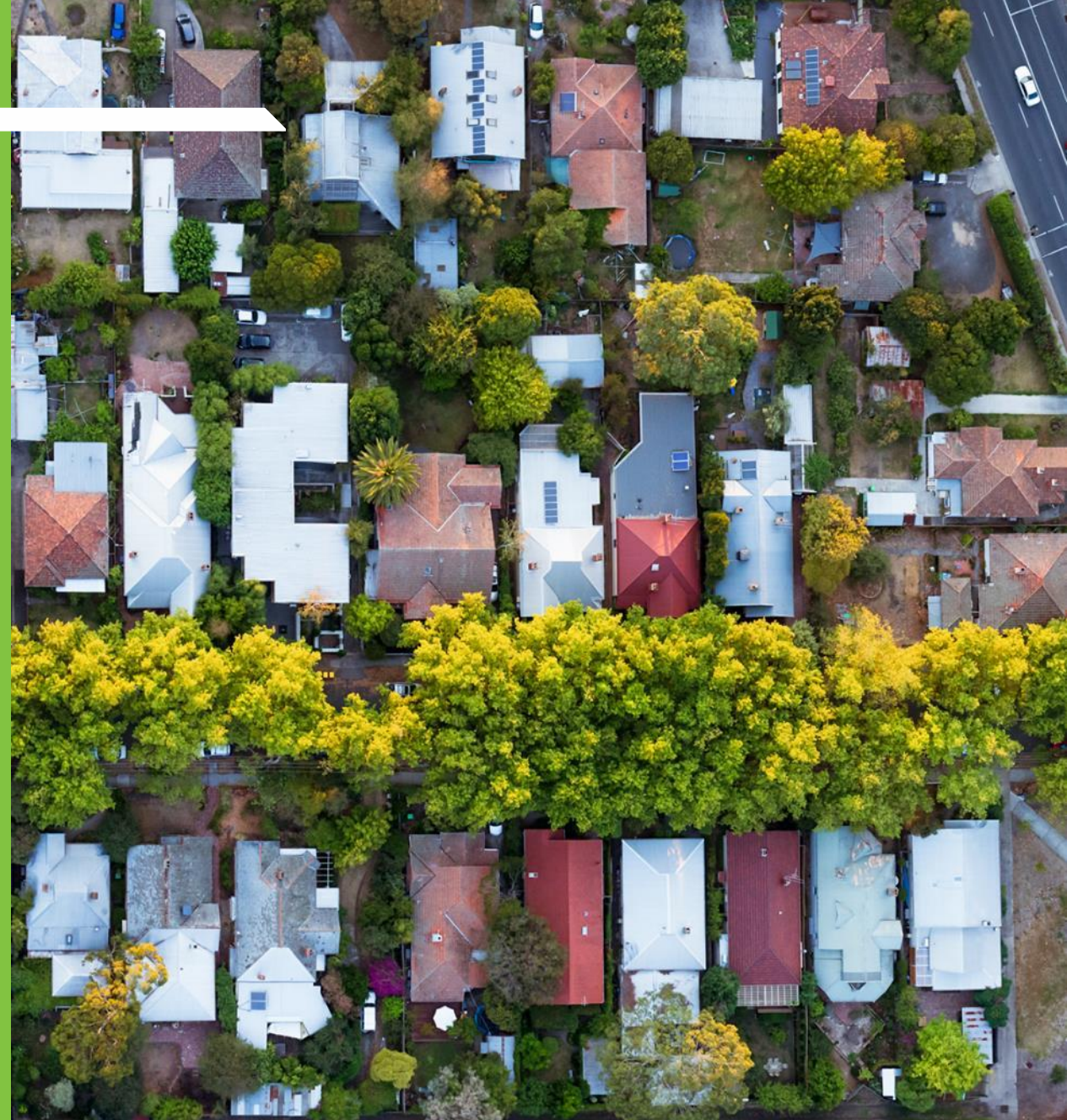
Circular Economy Governance

Circular Economy Governance

Setting the right conditions for innovation

Matt Genever

Interim Chief Executive Officer



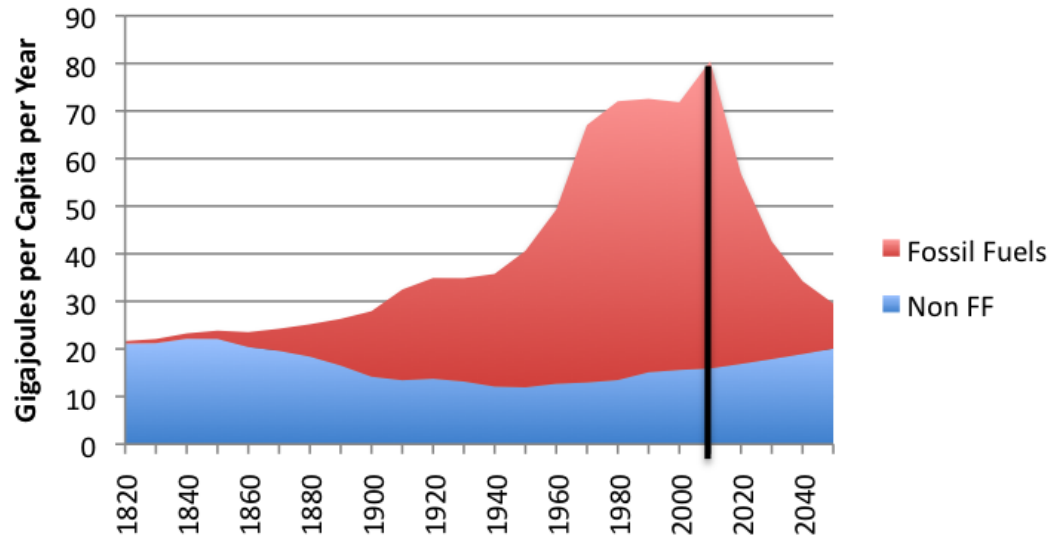
An aerial photograph of a dense, lush green forest. The trees are thick and vibrant, with some rocky outcrops and clearings visible through the canopy. The lighting is bright, suggesting a sunny day.

Acknowledgement of Country

Sustainability Victoria acknowledges that we live and work on the lands of the world's oldest and most sustainable culture. We acknowledge the deep connection to Earth of First Nations peoples and their invaluable contributions to our understanding of climate change and the environment.

What is the role of government?

Forecast of per Capita Energy Consumption



Club of Rome:
Limits to Growth
28.6 Gt

Global material extraction (Gt)

1972

Turn of the millennium
53.9 Gt

COP21
Paris
89.9 Gt

COP26
Glasgow
101.4 Gt

Projected

184 Gt
to
93 Gt

9%

7%

Circularity (%)

?

2000

2016

2021

2050

What is Victoria doing?

Victoria's Circular Economy Policy

- A **\$515 million** of investment into our recycling sector
- Container deposit scheme
- Standardised waste and recycling system
- Single-use plastic ban
- Regional Circular Economy Plans
- Circular Economy Act 2021
- Recycling Victoria, a new agency

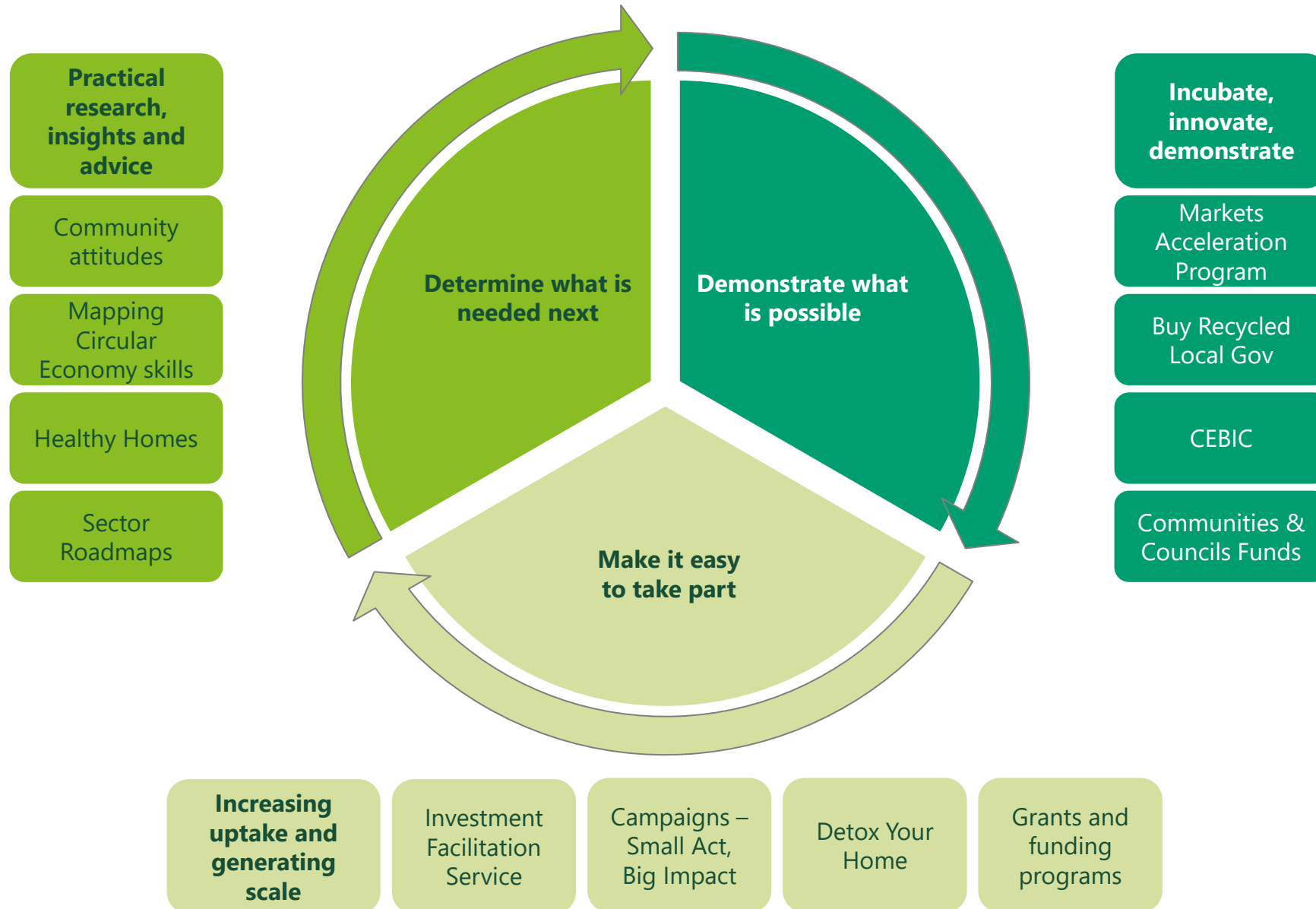


Recycling Victoria
A new economy

February 2020

VICTORIA
Environment,
Land, Water
and Planning

Unique role of Sustainability Victoria



Demonstrate what is possible



**Circular Economy
Business Innovation Centre**

Buy Recycled Service

Make it easier to take part



Before You
Leave Home.

shopping

-  **BAG**
-  **WALLET**
-  **KEYS**
-  **PHONE**



Determine what is needed next



Energy upgrades reducing bills and improving health



1000

upgraded homes
in Melbourne's
west and the
Goulburn Valley



\$972

Average cost
saving over
winter



43

mins per day less
exposed to cold
temperatures



For every **\$1**

saved in energy,

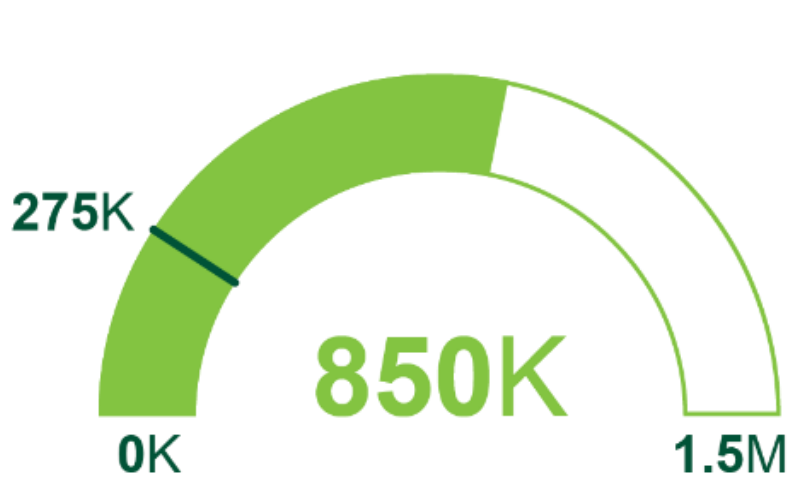
\$10

was saved in health

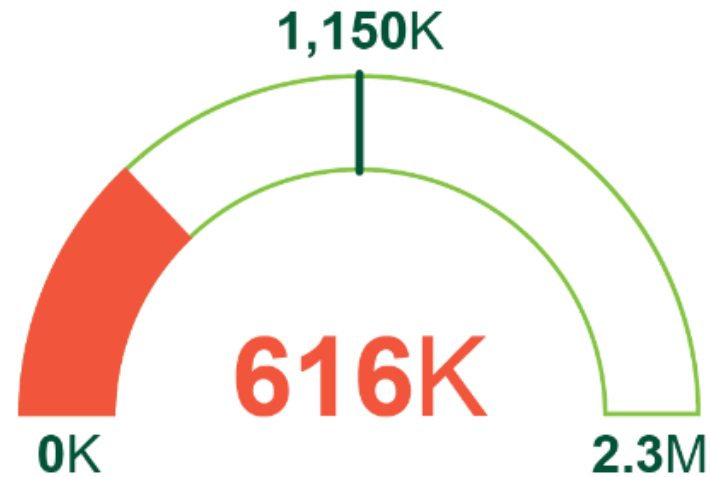


What's our impact?

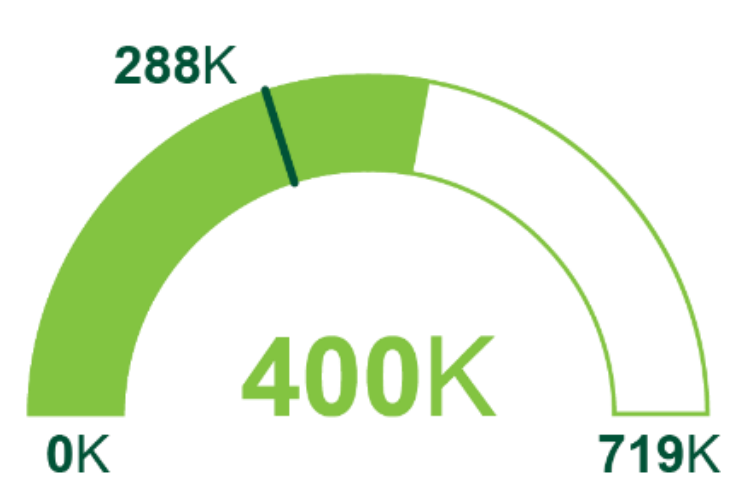
Divert **80%** of waste from landfill by 2030



Cut waste generation by **15%** per capita by 2030



50% reduction of organics to landfill by 2030



■ Current contribution by SV funded projects (forecast tonnes)

— 2025 interim target (tonnes)

Scale and leadership

- Create opportunities for businesses to lead, not just government
- Give people the right tools and the right knowledge
- Sector and industry roadmaps

- Sustainability Victoria is aiming big, for big change
- Keep an eye on the website for upcoming grants and opportunities

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Florian van den Corput

Senior Advisor
Circular Economy

Sustainability Victoria



Ian Overton

Chief Executive

Green Industries
South Australia



Amanda Kane

Manager - Organics

New South Wales
Environment Protection
Authority



Justine Severin

Director – Circular
Economy Programs

Queensland Department
of Environment and
Science

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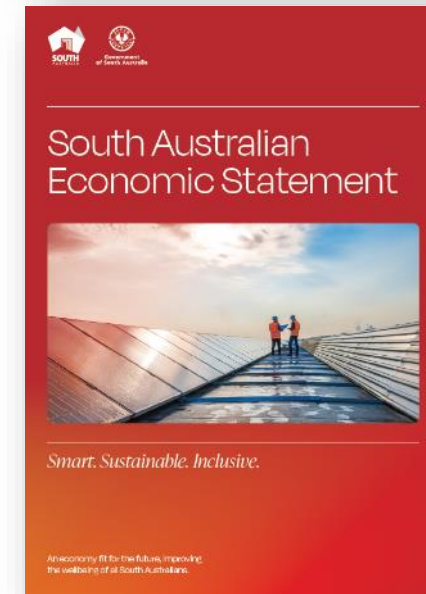
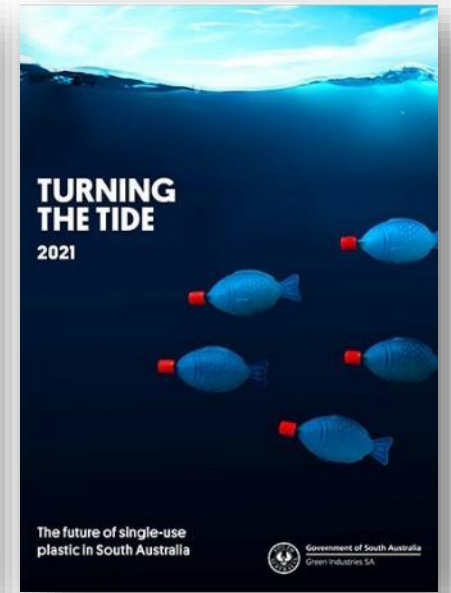
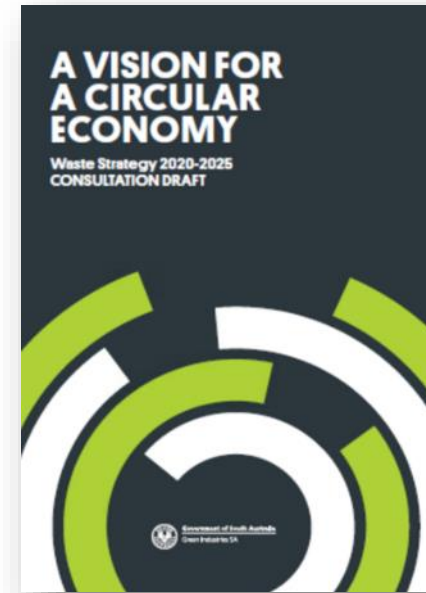


Prof. Ian Overton

Chief Executive - GISA

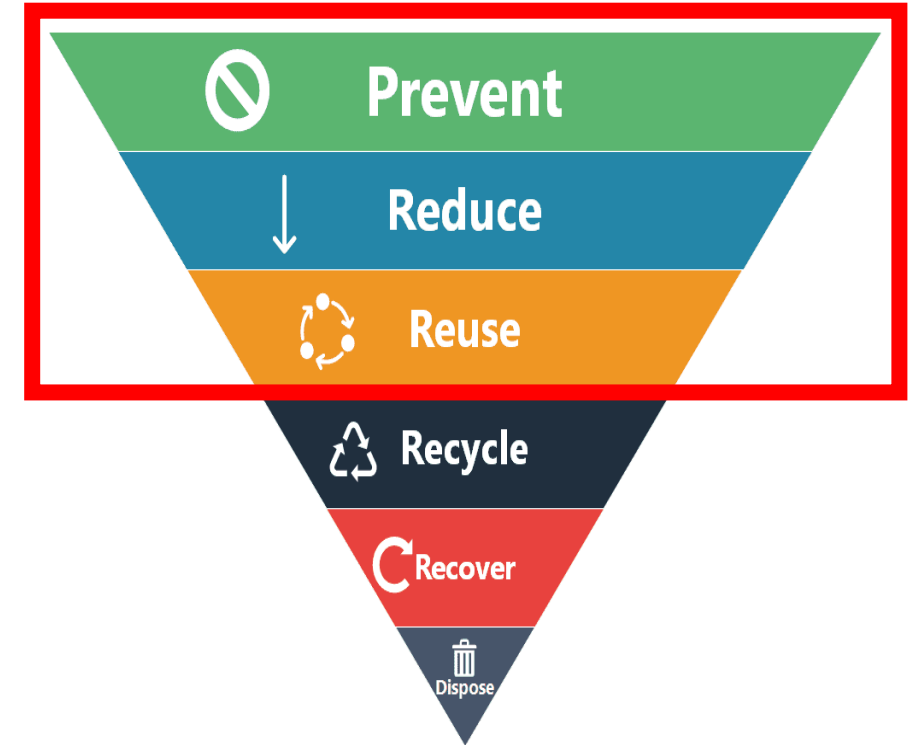
Circular Economy in SA

- **Strategy** – circularity / climate / nature
- **Embedding** – State Economic Statement, Advanced Remanufacturing Strategy, Climate Change Policy, etc
- **Multiple levels** - R&D, commercialisation, business support, capacity and infrastructure, market development, procurement, collaboration, metrics and LCA, policies, legislation, education and guides



Waste Reduction SA

- Education of avoidance
- Circularity plans
- Design out waste
- Procurement of sustainable products
- Banning problematic products/materials
- Reusable products
- Compostable to support food waste
- Built environment, textiles
- Share, repair, repurpose

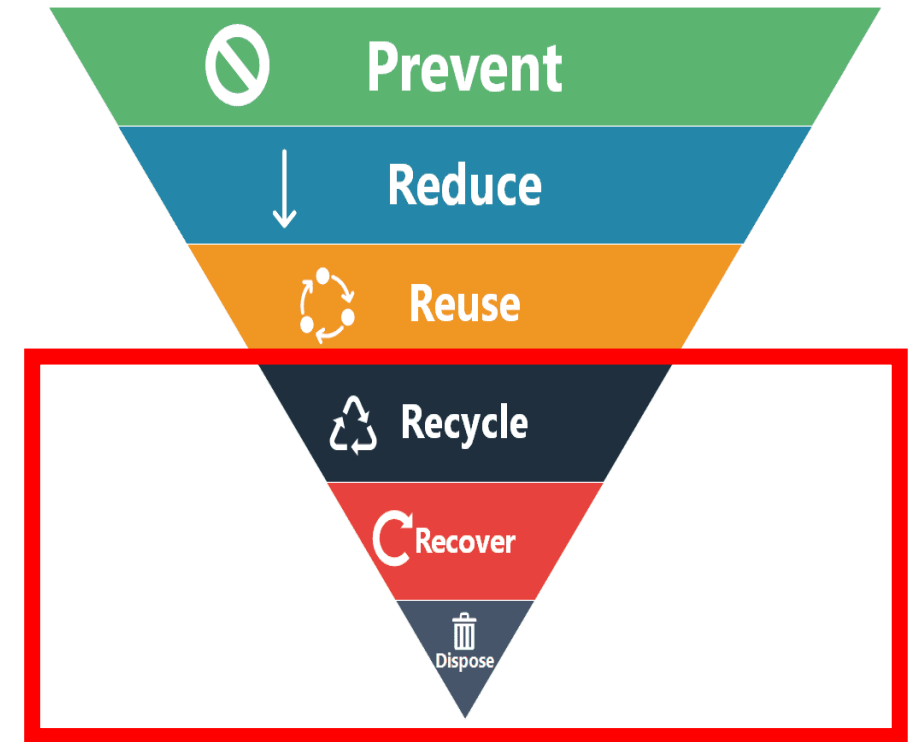


SAZERO
Zero Carbon/Zero Waste

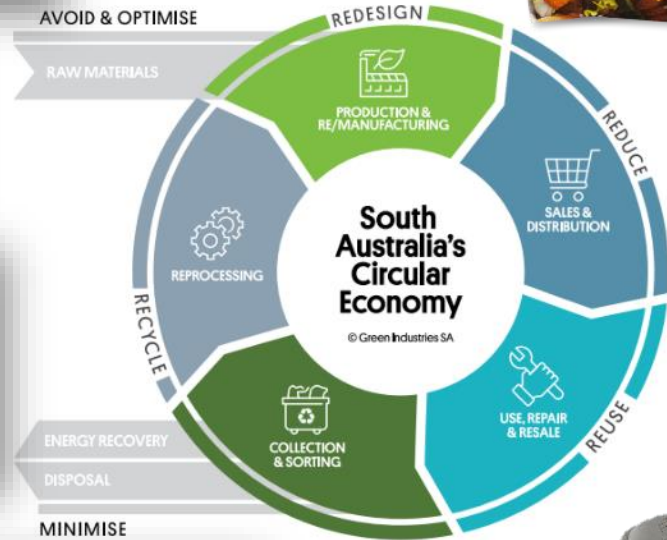
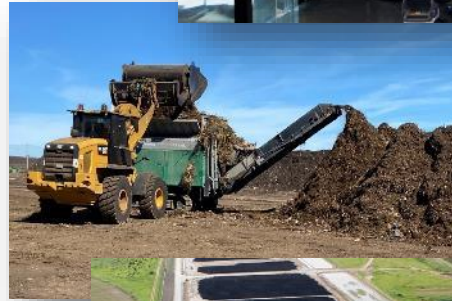


Resource Recovery SA

- Source segregation
- Uniform 3 bin system – home, school, public, street
- C&I collections
- Built environment and food waste
- Market development
- AD and Waste to Energy
- Zero avoidable landfill by 2030 (current 17%)



Food Waste SA



Food and organics 83%
Recycled Post-Farm

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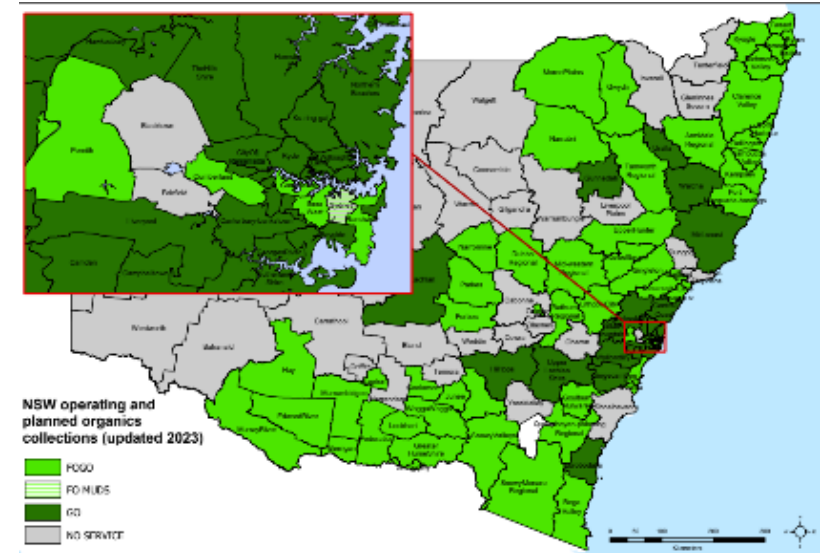
Amanda Kane

Organics Manager – NSW EPA

FOGO – the naturally circular waste stream



- NSW requiring statewide roll out by 2030
- Turns food waste into a product that helps food grow
- Sophisticated collection systems in place
- Existing and emerging technologies for processing
- Desirable as an end product – AD, compost, animal feed
- Beneficial – improves soil health, sequesters carbon, improves water retention, boosts yields



Not all that easy

- Human behaviour - people need to use it properly, resist change
- Economics are tight, low willingness to pay (for the service and end product)
- Avoidance - best, but hard and confusing
- Infrastructure is expensive, has odour risks and people don't want them next door
- Compost is bulky, expensive to buy and transport, hard to spread
- Quality is critical – but people keep wanting to put other things in it



NSW program covering all bases



- Avoid – food donation and Love Food Hate Waste
- Supply – sorting, collection infrastructure, education, training
- Sufficient processing capacity – 1.2 million tonnes needed
- Product quality – NSW FOGO inputs limits, education
- Support end markets – Cool Compost, government procurement



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Queensland
Government

Justine Severin

Director, Circular Economy Programs – QLD DES

Queensland's Transition to a Circular Economy

Department of Environment and Science

Justine Severin, Director - Programs

Office of Circular Economy

Waste Management and Resource Recovery Strategy

Strategic Priority 1

Reducing the impact of waste on the environment

Strategic Priority 2

Transitioning to a circular economy for waste

Figure 2: Waste and resource management hierarchy

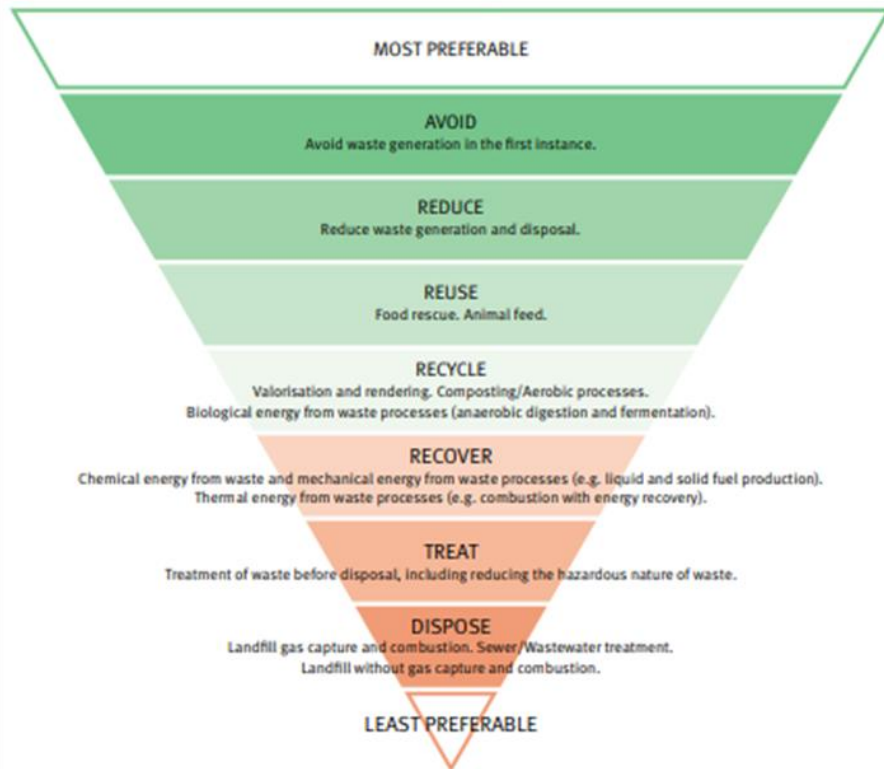
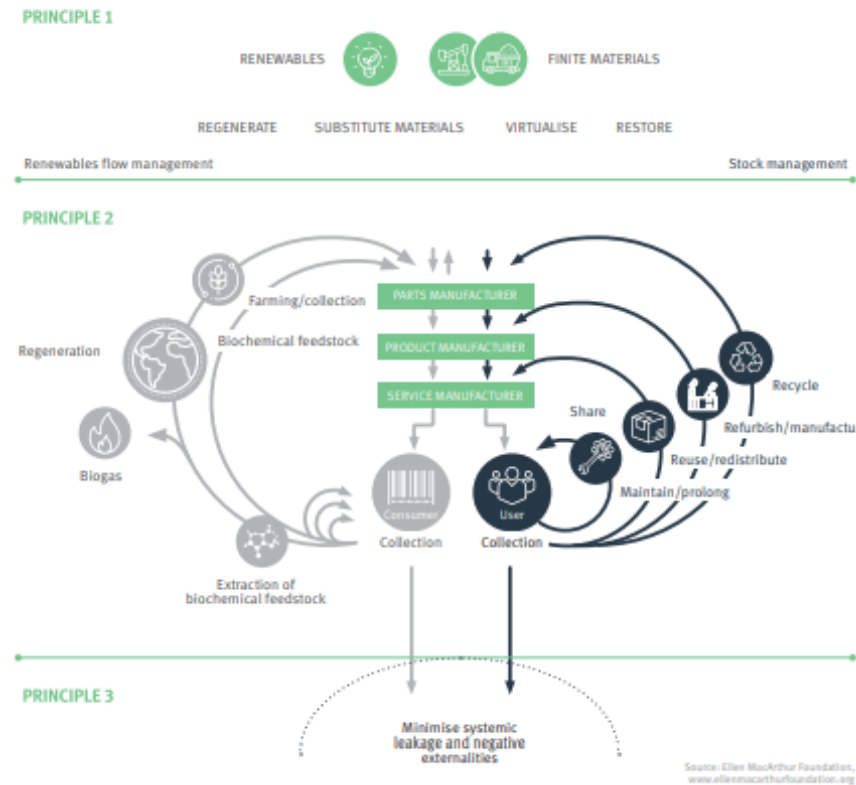


Figure 3: Circular economy principals.



Strategic Priority 3

Building economic opportunity

2050 Targets

- 25% reduction in household waste
- 10% of all wastes going to landfill
- 75% recycling rates across all waste types

Waste Reforms



10-year \$1.1B Recycling and Jobs Fund (budget allocation, 5 years)



\$153.7M – Regional waste management plan implementation



\$24M – Education and behaviour change



\$147.2M – Industry development infrastructure



\$120.8M – Circular economy initiatives and programs

Circular Economy Initiatives - examples

- CE principle and definition included in Qld legislation, June 2023
- Draft Action Plans emphasise design, repair, reuse
- Solar Recovery Pilot
- CE Accelerator Hubs - Townsville, Mackay, Toowoomba
- EcoBiz – carbon module
- Buy Queensland 2023 – CE target alongside emissions reduction target



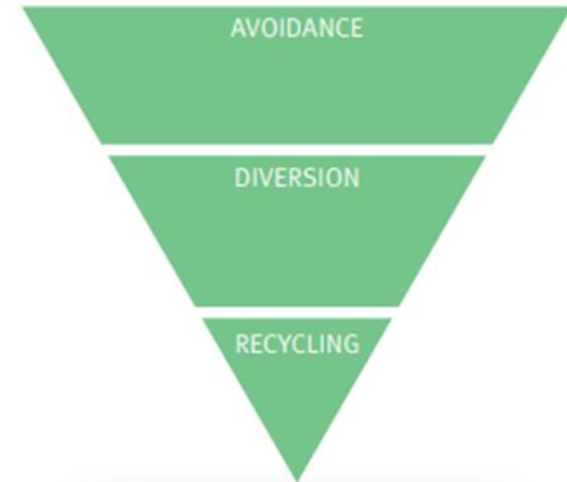
Queensland Organics Strategy

Key objectives for Queensland

By 2030, Queensland will:

1. halve the amount of food waste generated
2. divert 80 per cent of the organic material generated from landfill
3. achieve a minimum organics recycling rate of 70 per cent.

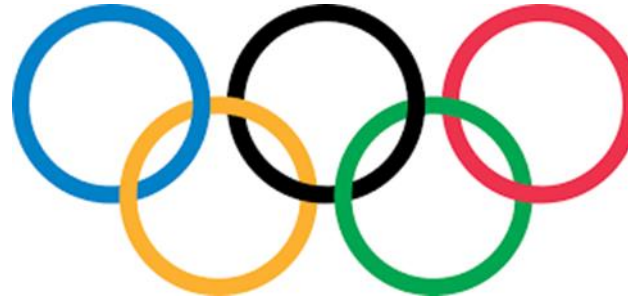
Mandate improved management of organics materials
not mandating the approach



Challenges



Opportunities



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