

Partnering to Deliver Circular Economy  
Infrastructure for Regional Victoria

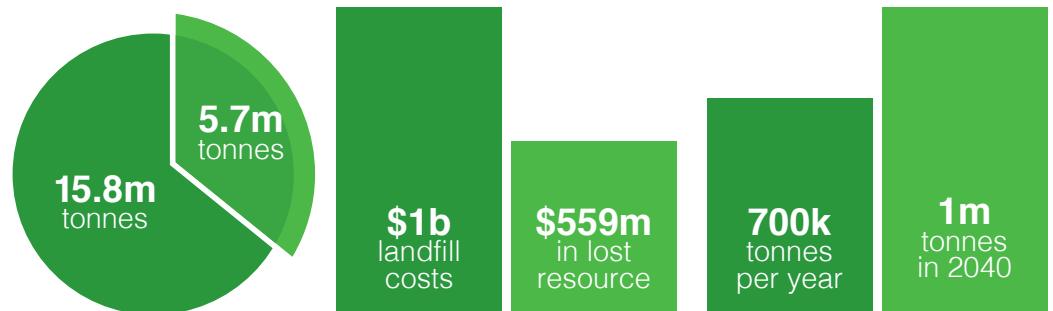


# The Challenge

- Bendigo landfill at capacity
- Council/Victorian government committed to no new landfill and 80%+ diversion
- But the region lacks appropriate recycling infrastructure

## The waste challenge

We face rising costs, shrinking landfill capacity, and regulatory shifts.



**VICTORIA**  
Victoria generates 15.8 million tonnes of waste annually; 5.7 million tonnes still go to landfill. Landfilling costs exceed \$1 billion per year, with \$559 million in lost resource value.

**LODDON MALLEE**  
Loddon Mallee generates 700,000 tonnes of waste per year, projected to exceed 1 million tonnes by 2040.

Advanced Energy Tech (AET) has developed a game-changing initiative designed to reduce landfill reliance, lower waste management costs, and drive circular economy benefits.

# Advanced Resource Recovery Centre

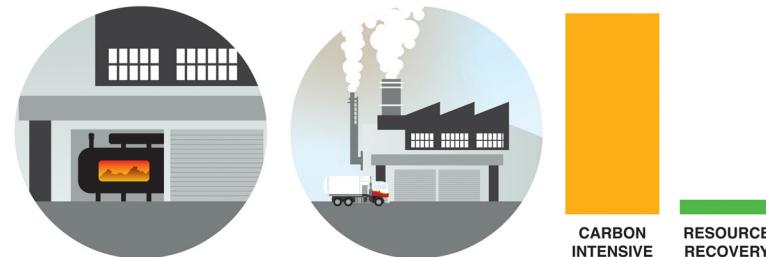
- The ARRC is a **true resource recovery facility** — not waste-to-energy.
- It uses **AI, robotics, and precision sorting** to recover materials from **commingled red-bin and yellow-bin streams**.
- Its **modular, flexible design** and **new technology** directly address longstanding regional barriers — scale, input quality, and mixed waste handling.
- It provides **local industry** with **high-value circular feedstocks**, enabling downstream reprocessing, remanufacturing, and innovation.

## Waste options

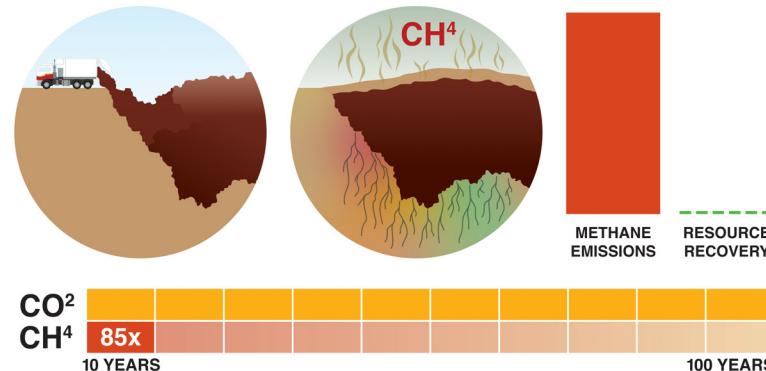
### Advanced Resource Recovery

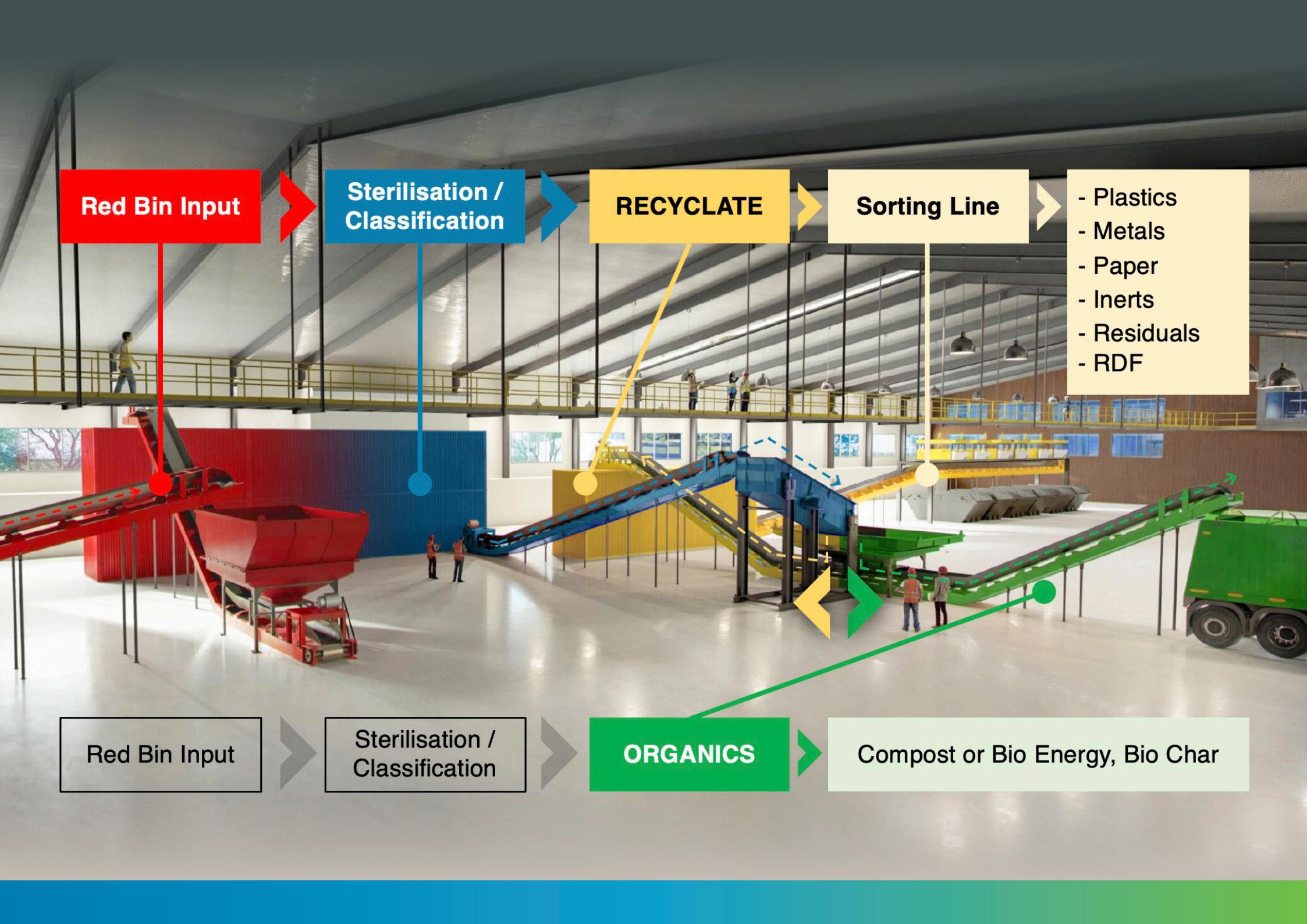


### Waste to energy



### Landfill





# Project Value

## Building a Thriving and Sustainable Regional Economy



### Investment

\$50 million capex.



### Jobs & Skills Boost

Creates 180-250 construction jobs and supports up to 150 ongoing positions, contributes to a local, skilled workforce



### Circular economy catalyst

By converting waste into high quality feedstocks, it can ignite new businesses in advanced recycling, bio-product manufacturing, renewable materials and circular economy services across the region



### Environmental Champion

Significantly reduces greenhouse gas emissions - potential to avoid 80,000 tonnes of CO<sub>2</sub>e Annually



### Community Leader

Project prioritizes open communication and community engagement, promotes shared responsibility for a sustainable future



### Technological Innovation

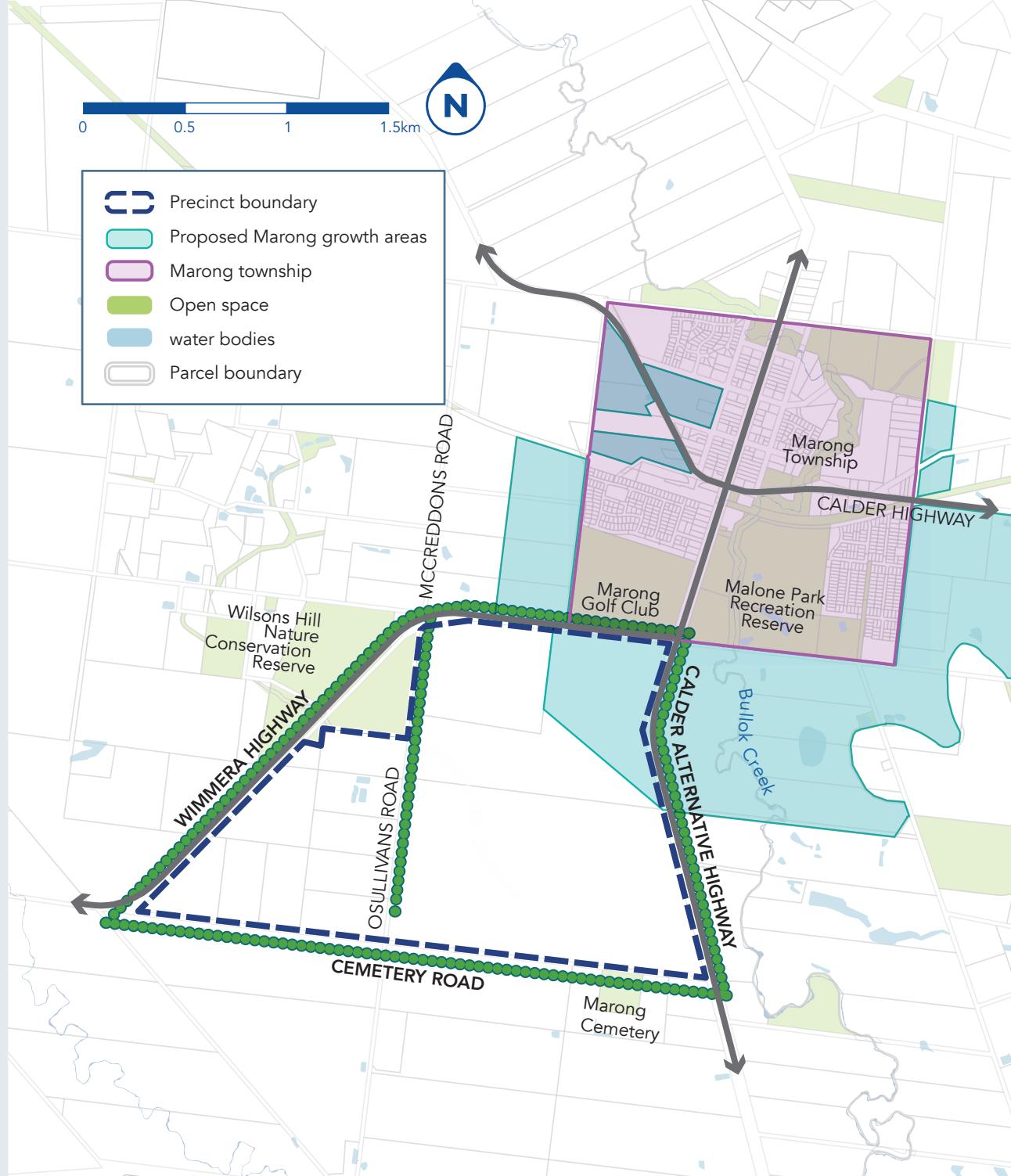
Catalyst for innovation, attracts talent and builds advancements in waste processing, renewable energy, and sustainable materials

# Strategic Fit

## with the Bendigo Regional Employment Precinct (BREP)

### ARRC Enables BREP's Circular Economy Vision

- Provides critical infrastructure to support circular economy industries
- Supplies local, high-value recovered materials for reprocessing and manufacturing
- Aligns with BREP goals: innovation, sustainability, climate leadership
- Creates skilled jobs and supports a resilient regional economy



# Policy Alignment



# ARRC facility development timeline



Feasibility & facility  
sizing finalisation

Waste Supply  
Agreements secured,  
funding finalised

Engineering  
regulatory approvals,  
construction

Full-scale  
operations  
underway

**Building critical  
infrastructure  
towards a better  
future for us all**

# Discussion and path forward

## Questions and discussion

Contact Adam Riley  
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