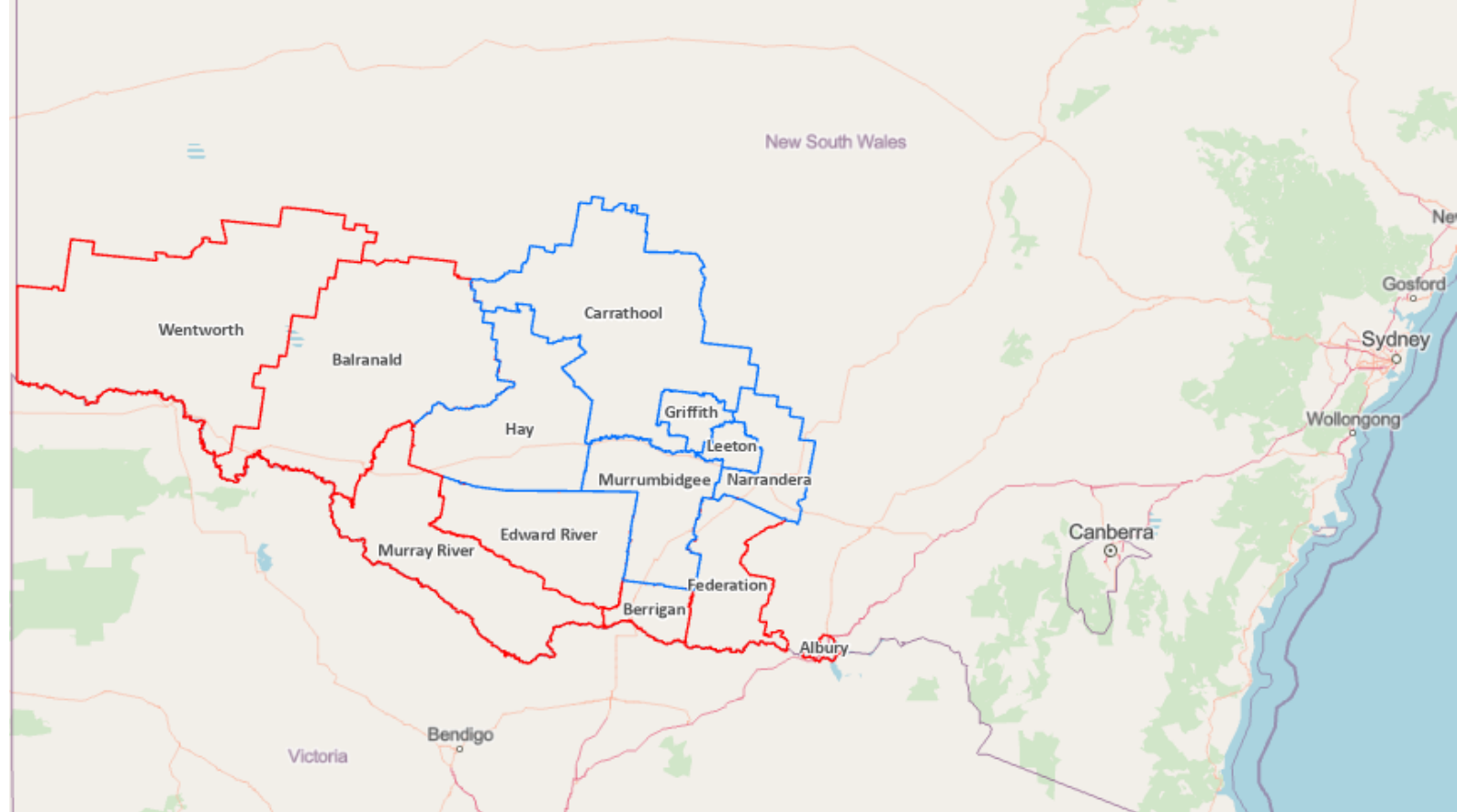RAMJO
**RIVERINA
WASTE GROUP**

RAMJO
**MURRAY
WASTE
GROUP**

PIONEERING SUSTAINABLE SOLUTIONS

**RIVERINA & MURRAY
REGIONAL RESOURCE RECOVERY TEAM**

This initiative is supported by the NSW Government through the NSW Environmental Protection Agency.

CIRCULAR ECONOMIES FACE SPECIFIC CHALLENGES IN REGIONAL AREAS

High Transport Costs

Lack of Infrastructure

Limited Resources

Old Fashioned Attitudes

Landfill can be Cheaper than Recycling

How can innovation help overcome these barriers?

CURRENT CE TECHNOLOGY ASPIRE PLATFORM

- Subscription-based

- Only includes data from signed-up businesses

- High cost for councils or large organisations

- **Need for a regional alternative**: Why Aspire doesn't fully meet regional needs.

CE DATA PORTAL INTRODUCTION

- Origins
  - $1m grant from Transport NSW Innovation Fund.
- Developer
  - Peclet Software
- RAMJO & Albury City's Role
  - Testing, data validation and recommendations.

Department of Planning and Environment

Challenge Brief
Circular Economy

Smart City Innovation Challenges

March 2022

DATA PORTAL – KEY FEATURES

Predictive Waste Output: Using ABR data and French models to anticipate regional waste streams.

Challenges in Data Validation:

| Registered vs. actual business locations. | Registered business names differing from trading names. | Addressing these issues in the trial for better accuracy. |

CASE STUDY 1

FOREST ONE

■ Converts pallets to timber laminate.

CASE STUDY 2

GOTERRA

■ Converts organic food waste into protein for animal feed

DEMONSTRATION

peclet
TECHNOLOGY

Circular
Economy
data portal

RR Rebecca Randall

CE Home Page   CE App   Raw data   Build your own Map   Feedback form

Overview   Dashboard   Data Analysis   Riverina & Murray

Industrial Symbiosis Data Analysis

5,013 producers **1,444,336 t/year** of residual materials

Include low confidence predictions ⓘ

Search & Filters

Existing takers ⌄   Potential takers ⌄   Heatmap ✓   Quantity (t/year) ✓   Producers ✓

10.44

0.76

292.24

42,305.48

120,377.84   569.3

1,300.58

36,357.48

27,555.85

4,524.5

3,105.12

164,720.52

Orange

Bathurst

Mildura   316.43   70,165.55

7.17   15,476.75   544.46

48,525.5

72,175.24   8,306.17

59,282.96

1,591.56   15.43
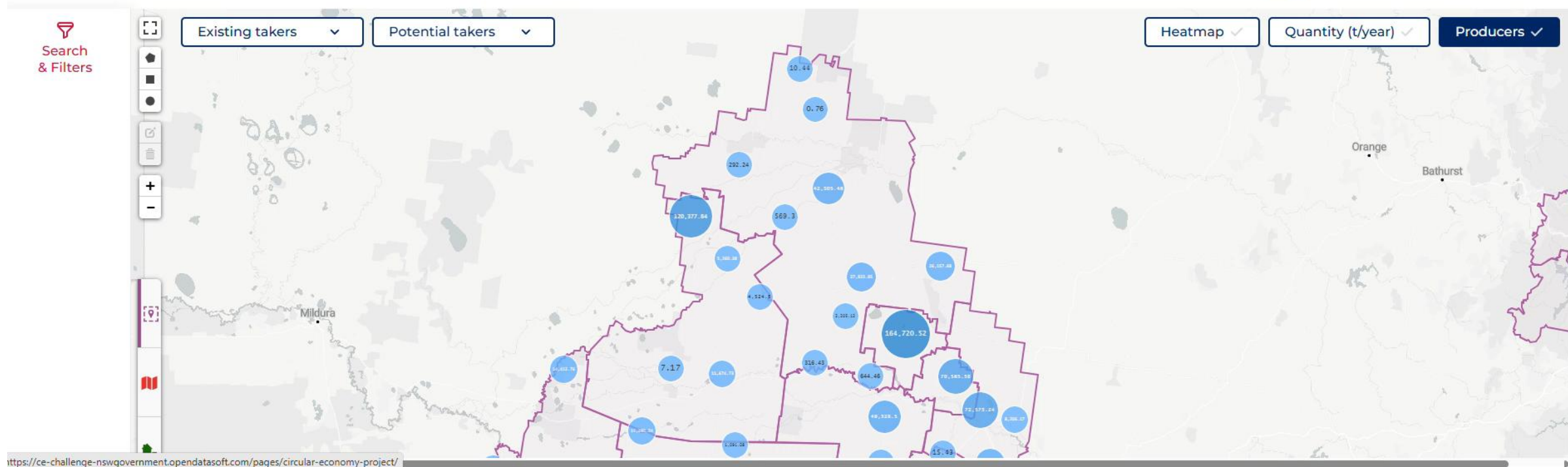
BENEFITS OF THE CE DATA PORTAL MODEL:

- **Unrestricted Access to Business Waste Data**

  The model allows businesses to share their waste data without major restrictions, providing valuable insights into regional waste streams. This transparency enables:

  - Better Future Planning

  - Identification of Opportunities

  - Collaboration

ADDRESSING THE RISKS

- **Concerns Over Data Privacy:**
  While unrestricted data access has many benefits, there is a risk that businesses may be hesitant to participate if they fear their data will be publicly visible.

- Mitigation Options:
  - Opt-in privacy controls
  - Aggregated, anonymized data

KEY RECOMMENDATIONS

Statewide Expansion in a staged approach → Business Engagement → Enhance Portal Functionality

COMMENTS & QUESTIONS