

One pass baling system

The future of Bioenergy in WA

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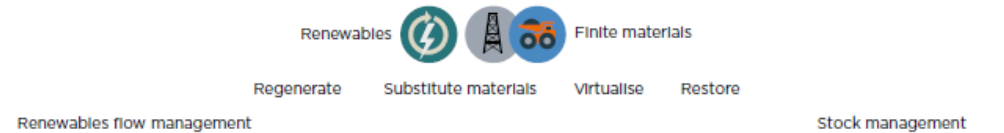


Circular economy

PRINCIPLE

1

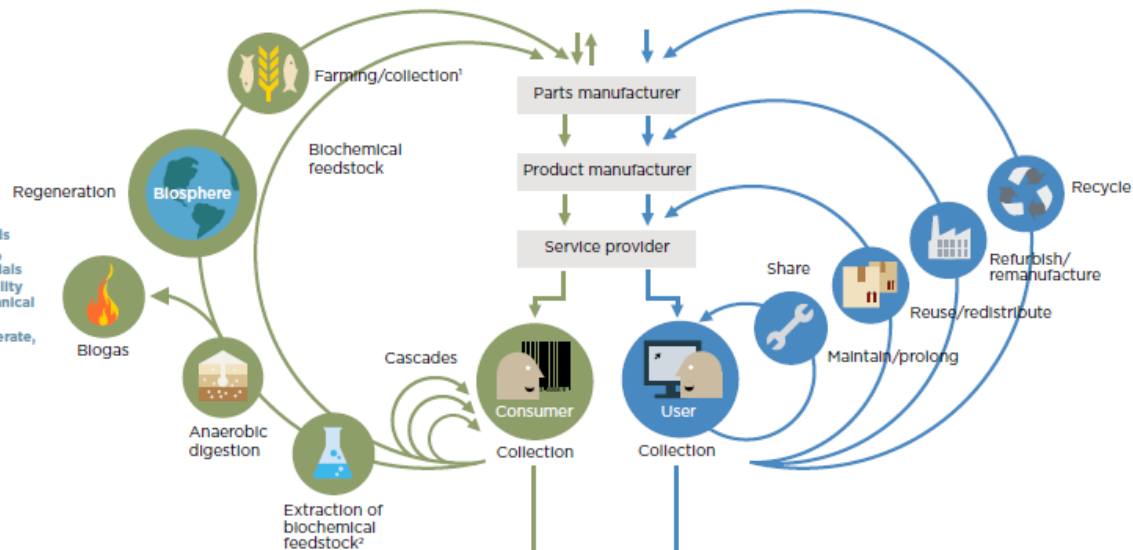
Preserve and enhance natural capital by controlling finite stocks and balancing renewable resource flows
ReSOLVE levers: regenerate, virtualise, exchange



PRINCIPLE

2

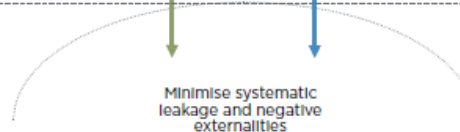
Optimise resource yields by circulating products, components and materials in use at the highest utility at all times in both technical and biological cycles
ReSOLVE levers: regenerate, share, optimise, loop



PRINCIPLE

3

Foster system effectiveness by revealing and designing out negative externalities
All ReSOLVE levers



1 Hunting and fishing

2 Can take both post-harvest and post-consumer waste as an input

Source: Ellen MacArthur Foundation, SUN, and McKinsey Center for Business and Environment; Drawing from Braungart & McDonough, Cradle to Cradle (C2C).

Impacts of wasted nutrients



Food waste to energy Richgro Jandakot



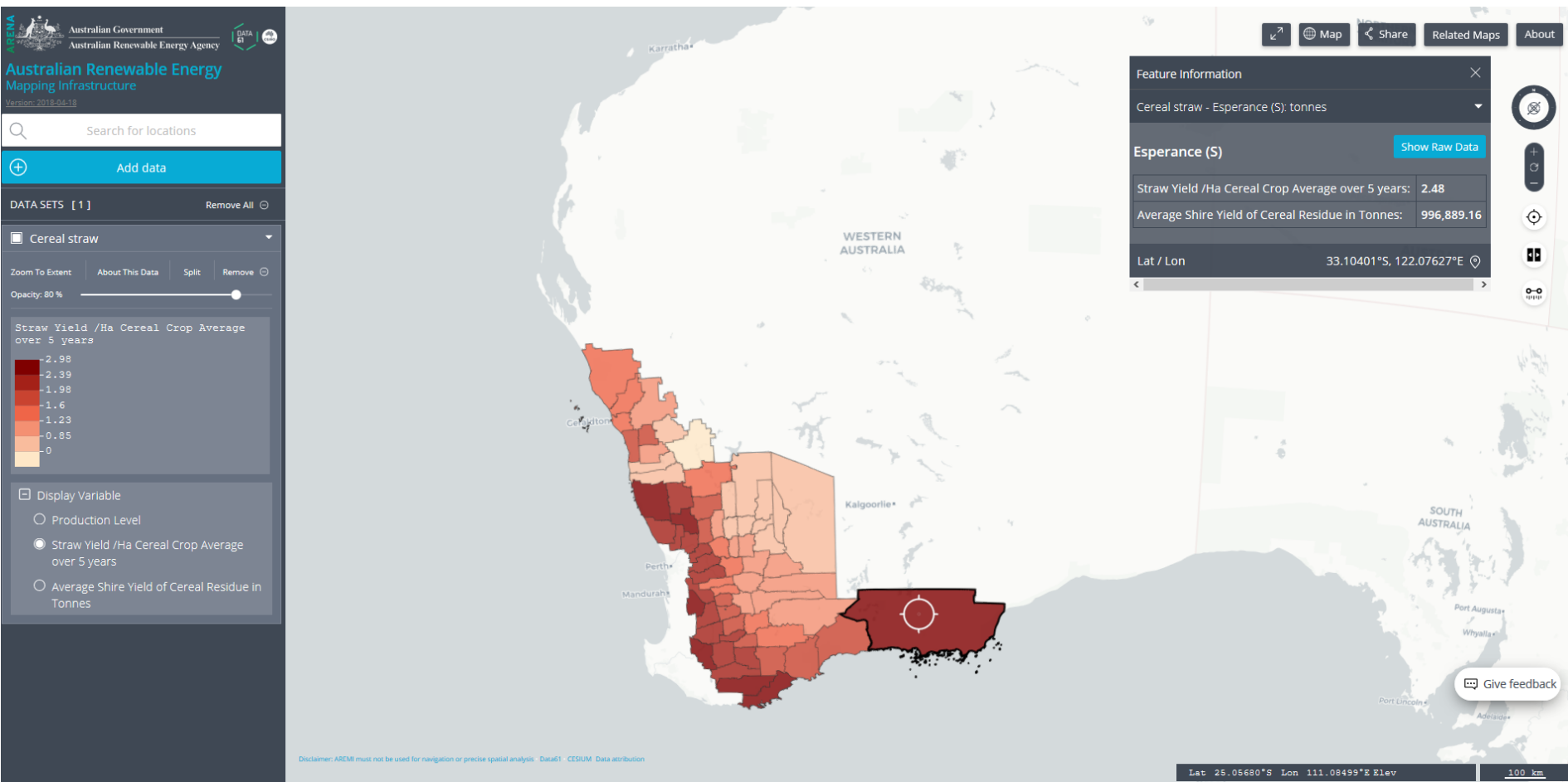
Piggery waste to electricity Kojonup WA




Bioenergy for pool heating in Albany



Biomass mapping



Biomass mapping

 Australian Government
Australian Renewable Energy Agency

**Australian Renewable Energy
Mapping Infrastructure**

Version: 2018-04-18

Search for locations

+ Add data

DATA SETS [2] Remove All

☒ Feedlot Waste Data

Zoom To Extent About This Data Remove

Manure WTW (t/yr)

29160
23760
12600
9720
5670
3888
2268
365

☒ Display Variable

☒ Manure WTW (t/yr)
☐ Manure dry weight (t/yr)
☐ Seasonality (mths)

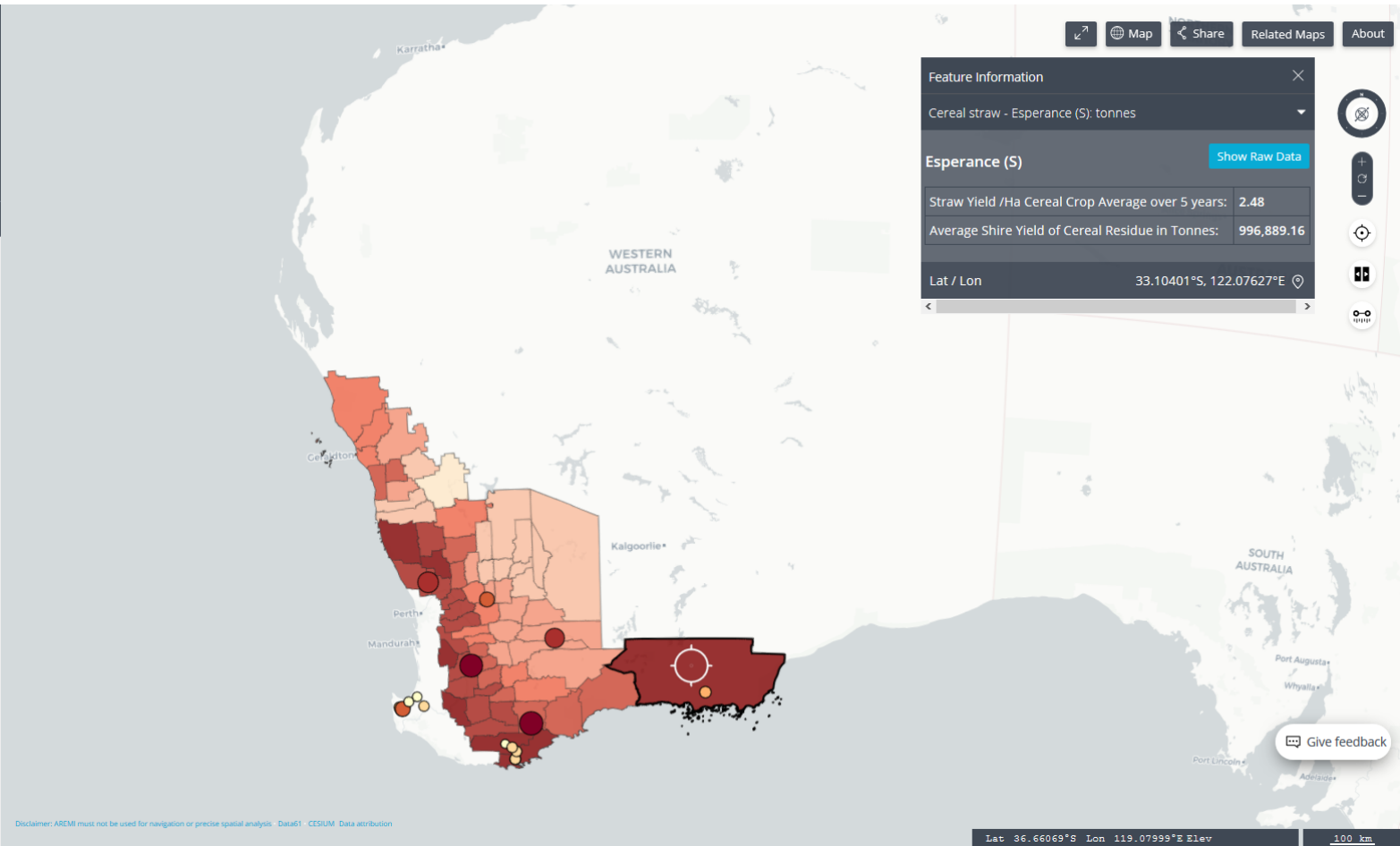
☒ Cereal straw

Zoom To Extent About This Data Split Remove

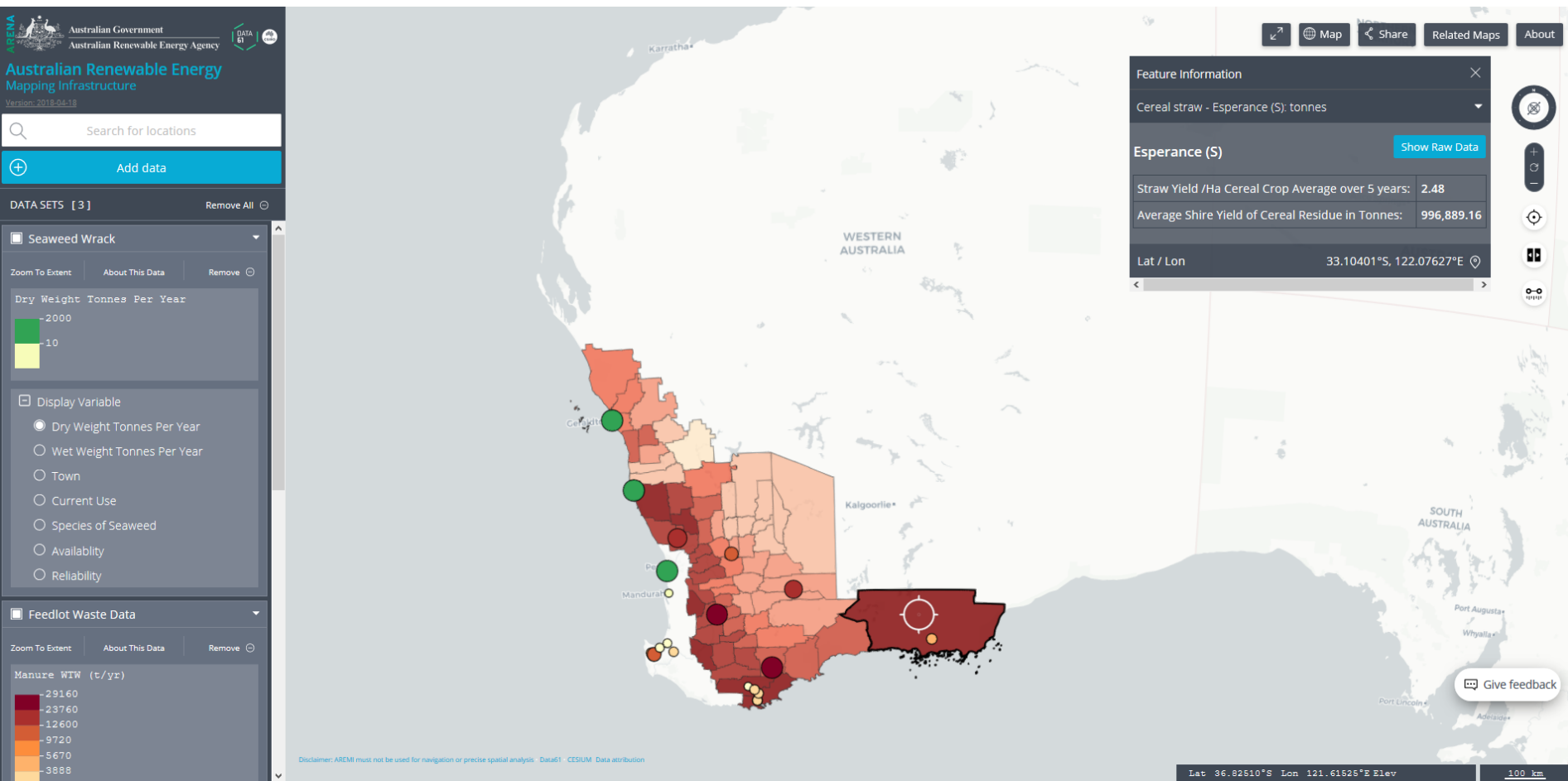
Opacity: 80 %

Straw Yield /Ha Cereal Crop Average over 5 years

2.98
2.39
1.98
1.6
1.23
0.85
0



Biomass mapping







Department of
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Regional Development

Thank you

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