# Eco-Economic Perspectives Integrating a circular economy model to facilitate a

Integrating a circular economy model to facilitate a conversation around long-term goals and strategies to protect the sacred land in San Juan County

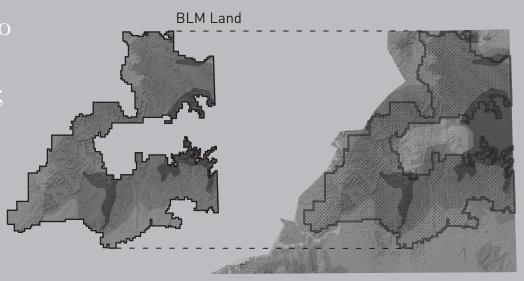
## Contents

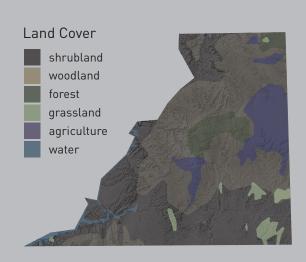
| <b>•</b> | Land use overview      | 3 |
|----------|------------------------|---|
|          | Circular economy model |   |
|          |                        |   |
|          | Adding value to waste  |   |
|          | Biomass recycling      |   |
| <b>•</b> | Path to opportunity    | 7 |
| •        | Bibliography           | 8 |

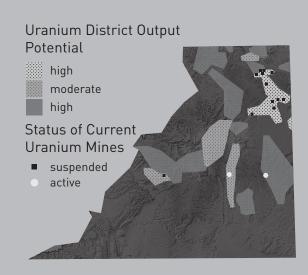
#### Land cover overview

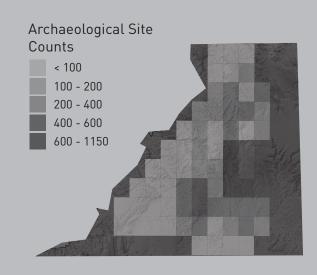
"Late carbon-based society has tended to render and define rural areas as **post-modern consumption spaces**; places which individuals can choose for residence, business, or play."

Lawrence Kitchen & Terry Marsden

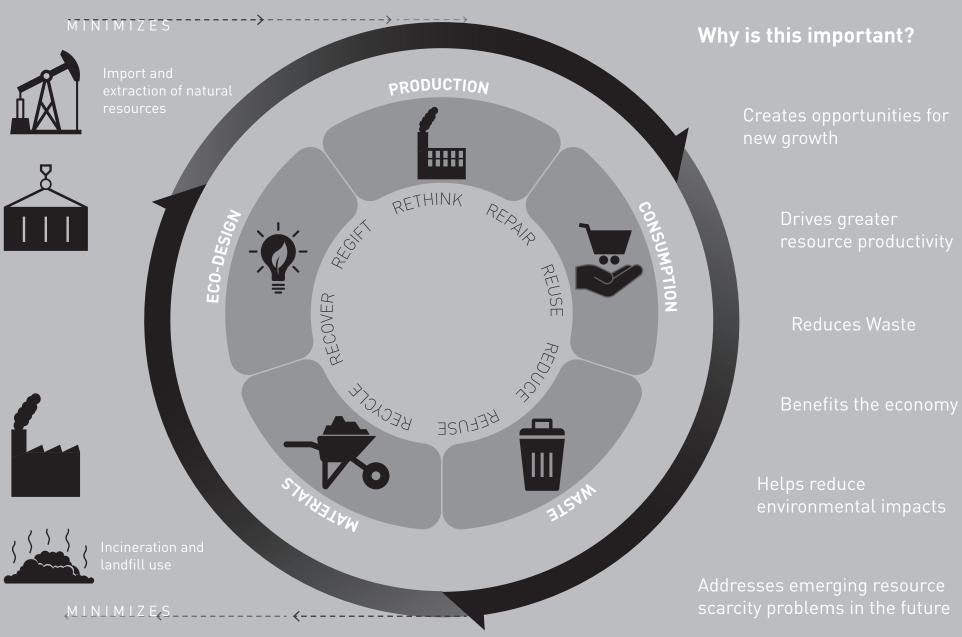








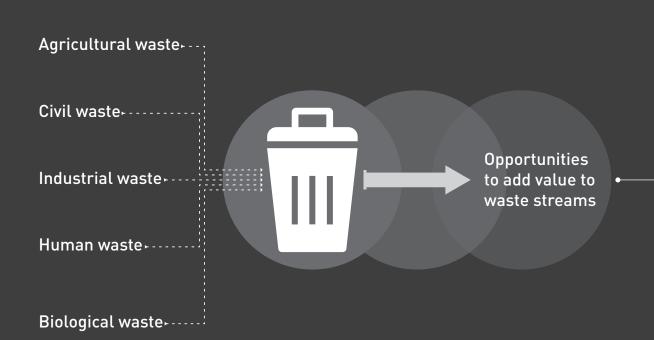
# Circular Economy



# Adding value to waste

"You never over-harvested or -hunted, and what you did take, you would use every bit to honor the earth and life you took"

Jamie Okuma Indigenous Artist



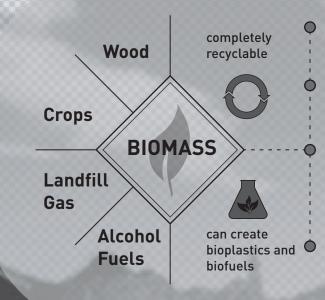
How can we use biomass circularly?

The term includes raw material from plant or animal origin, including crops from agriculture, water cultivation, and forestry.

Biomass is completely recyclable and can be used as food, fuel, or material.

Closing material cycles reduces costs of waste and purchasing, while improving the condition of the environment.

## Biomass recycling

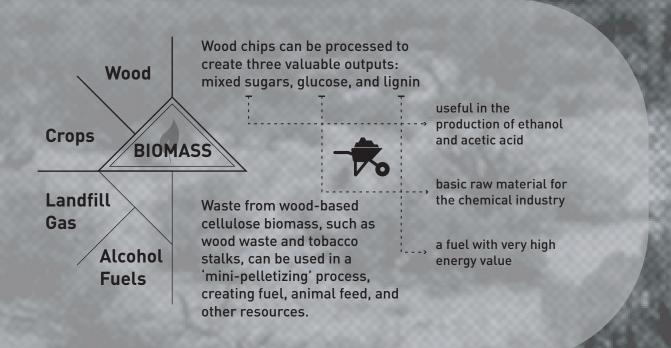


Using resources reclaimed from the ground rather than importing them from elsewhere.

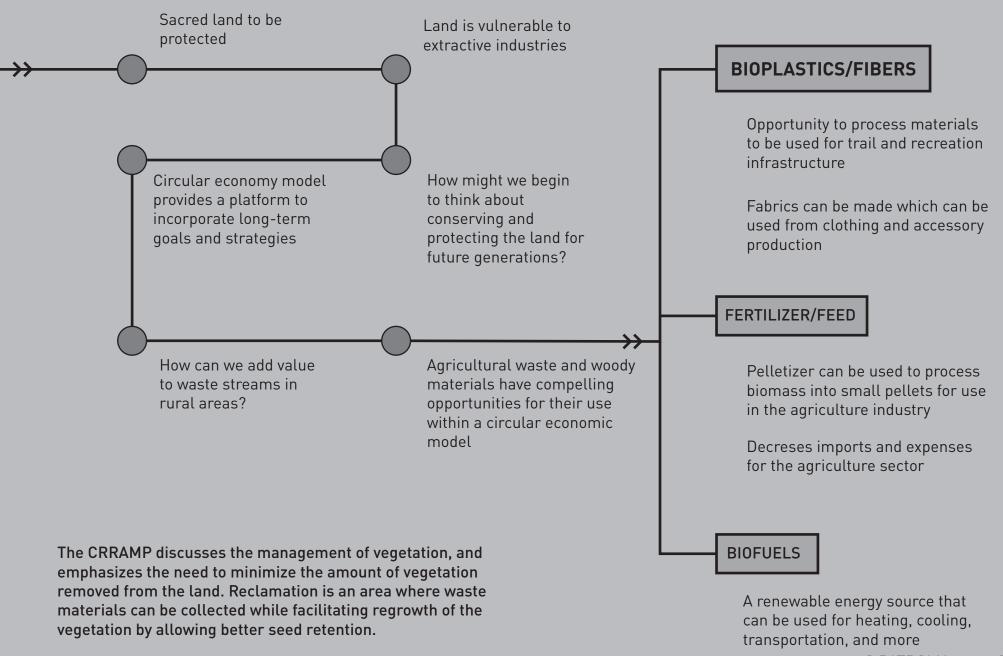
Can be converted into fuel, fibers, or industrial chemicals.

Raw materials from sewers can be extracted and processed into products such as fertilizer for growing new food.

On-farm recycling can be circular when cows feed on grass in the meadow while their manure keeps the land fertile, eliminating the need to buy food and manure.



#### Path to opportunities



# **Bibliography**

https://www.sciencedirect.com/science/article/abs/pii/S0048969720328928?via%3Dihub

https://www.kuer.org/public-lands/2020-05-20/the-white-mesa-mill-has-become-a-dumping-ground-for-radioactive-waste-tribe-and-advocates-say

https://statisticalatlas.com/county/Utah/San-Juan-County/Industries

https://mountainscholar.org/bitstream/handle/10217/47081/San\_Juan\_Biol\_Assess\_2003.pdf?sequence=6

https://www.researchgate.net/publication/326636588\_The\_circular\_economy\_A\_broader\_perspective\_for\_rural\_areas

https://www.vogue.com/article/indigenous-designers-sustainable-fashion-roundup

https://farm-energy.extension.org/research-summary-small-scale-biomass-pellet-production-project/#Why%20is%20This%20Important?

https://kenniskaarten.hetgroenebrein.nl/en/knowledge-map-circular-economy/hoe-maken-we-biomassa-en-voedsel-circulair/

https://sustainabledevelopment.un.org/topics/ruraldevelopment/decisions