Lessons from Colorado:
A Proven Model for Advancing the Circular Economy

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CIRCULAR
COLORADO

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Presentation

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CIRCULAR COLORADO

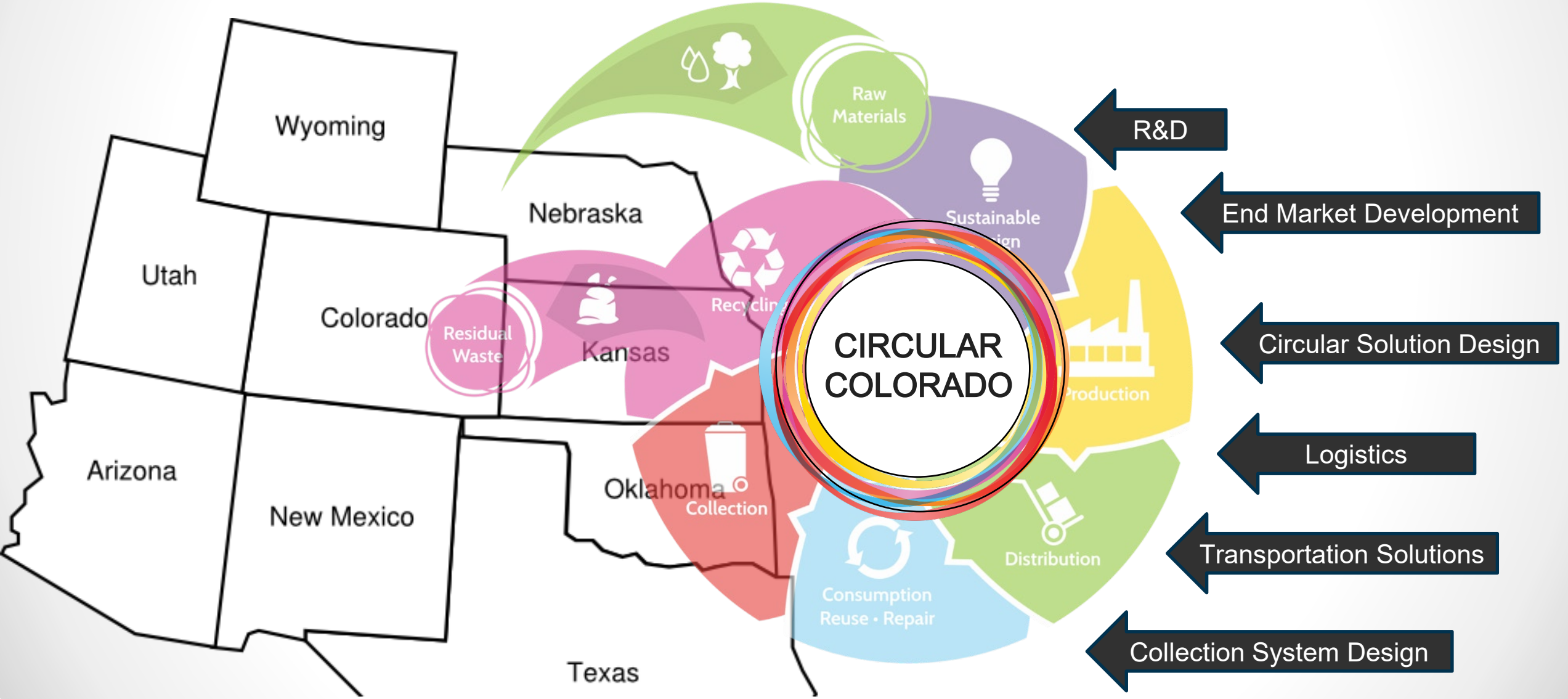
From Capture to Manufacture

Our Mission

Develop and implement tangible, actionable and measurable projects that support the creation of a circular economy in Colorado and the region

What We Do

Operations-focused services for all elements of designing and implementing regional circular economy solutions.



Circular Colorado Programs

Transportation & Collections

Material Specific Solution Design & Implementation

End Market Development

Circular Industrial Campus

CIRCULAR TRANSPORTATION NETWORK

CEDC

CIRCULAR ECONOMY DEVELOPMENT CENTER

Circular Economy Development Center (CEDC)

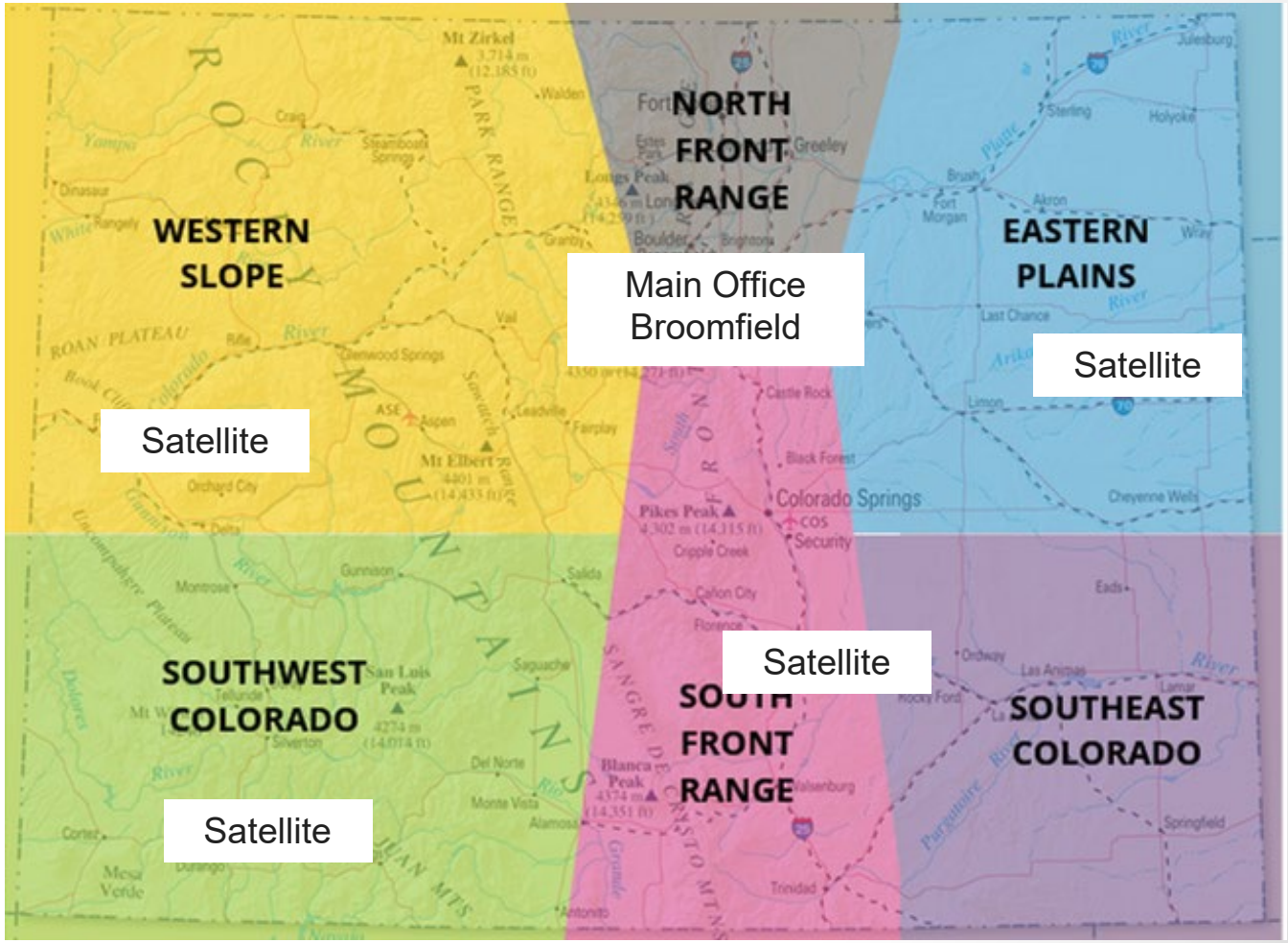
CIRCULAR COLORADO

COLORADO Department of Public Health & Environment

COLORADO CIRCULAR COMMUNITIES

CEDC Objectives:

- Develop comprehensive circular economy solutions for materials that are a significant percentage of the waste stream currently going to landfill or are currently being collected and shipped out of the Colorado market.
- Expand the collection and processing of targeted materials.
- Increase the number of participants actively engaging in Colorado's circular economy, including local communities, Colorado businesses, and new businesses moving to Colorado.



Priority Materials

Waste Tires

- 80,000-86,000 tons landfilled annually, and CO has one of the highest scrap tire stockpiles in the US
- Strong collection, hauling, and processing systems in place

C-HDPE

- 19,000-23,000 tons landfilled annually
- Versatile end uses

Textiles

- 211,000-247,000 tons landfilled annually
- Fastest growing waste stream in the US

Clean Wood

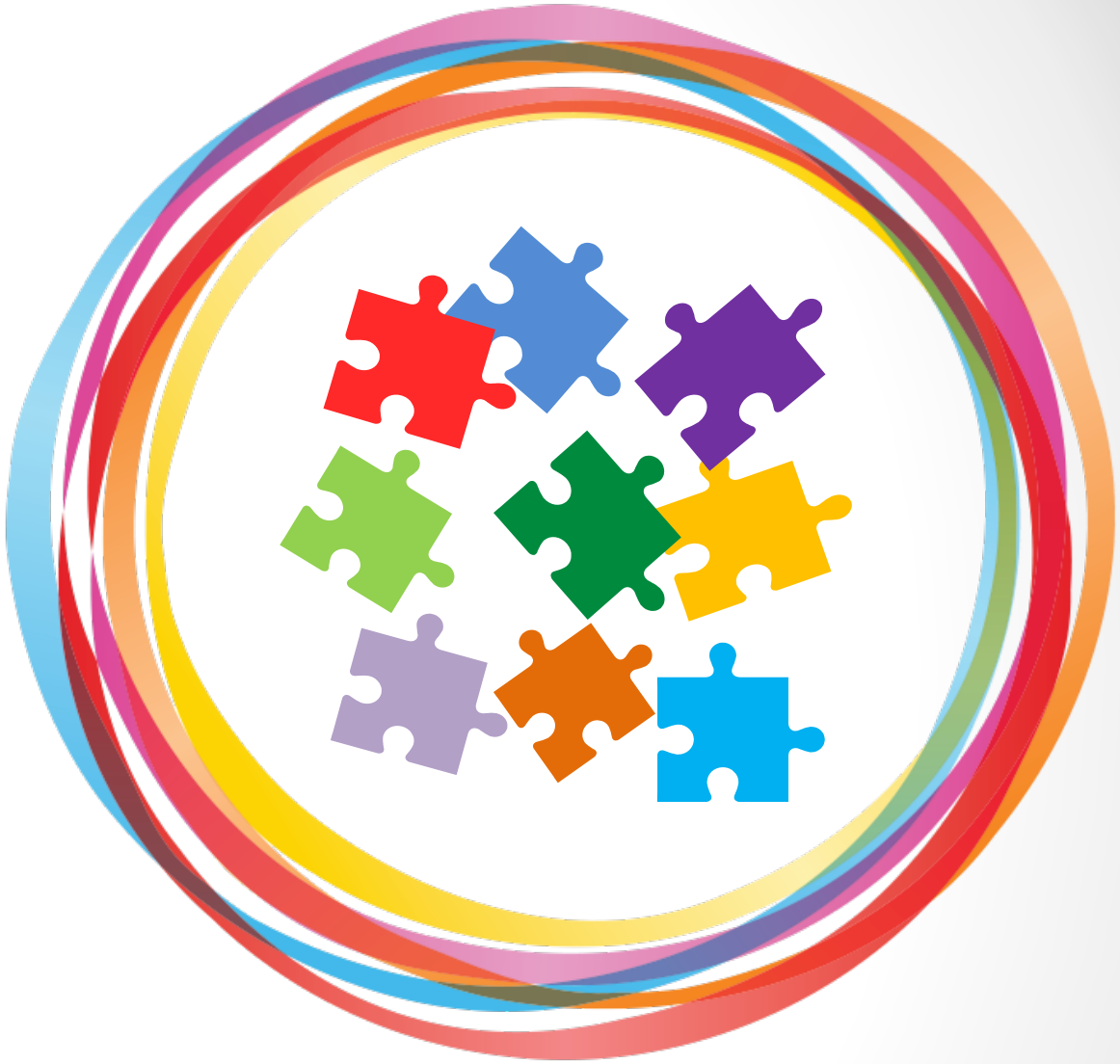
- 214,000-251,000 tons landfilled annually
- Minimal preparation and handling needed

RRS

CEDC

The Model

See the picture and the pieces come together



Standardize the Process

Circular Economy Puzzle Pieces

PRETRED
BUILD A BETTER WAY

Waste Tires

Manufacturer

Distributer

Retailer

Consumer

Retailer

Hauler

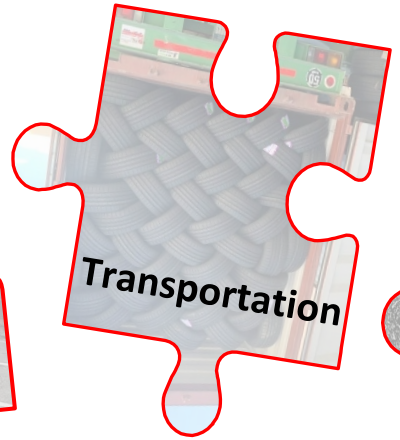
Resell
20-30%

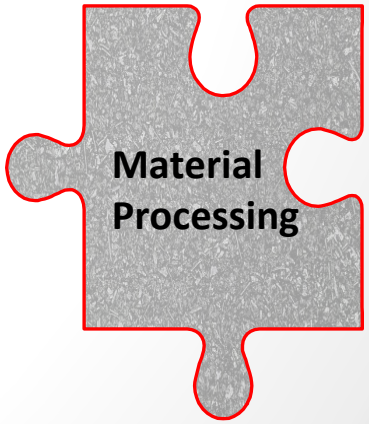
Tire
Derived
Fuel

The GAP

Crumb
Rubber
Processing

Manufacture
New
Products





Colorado Waste Tires

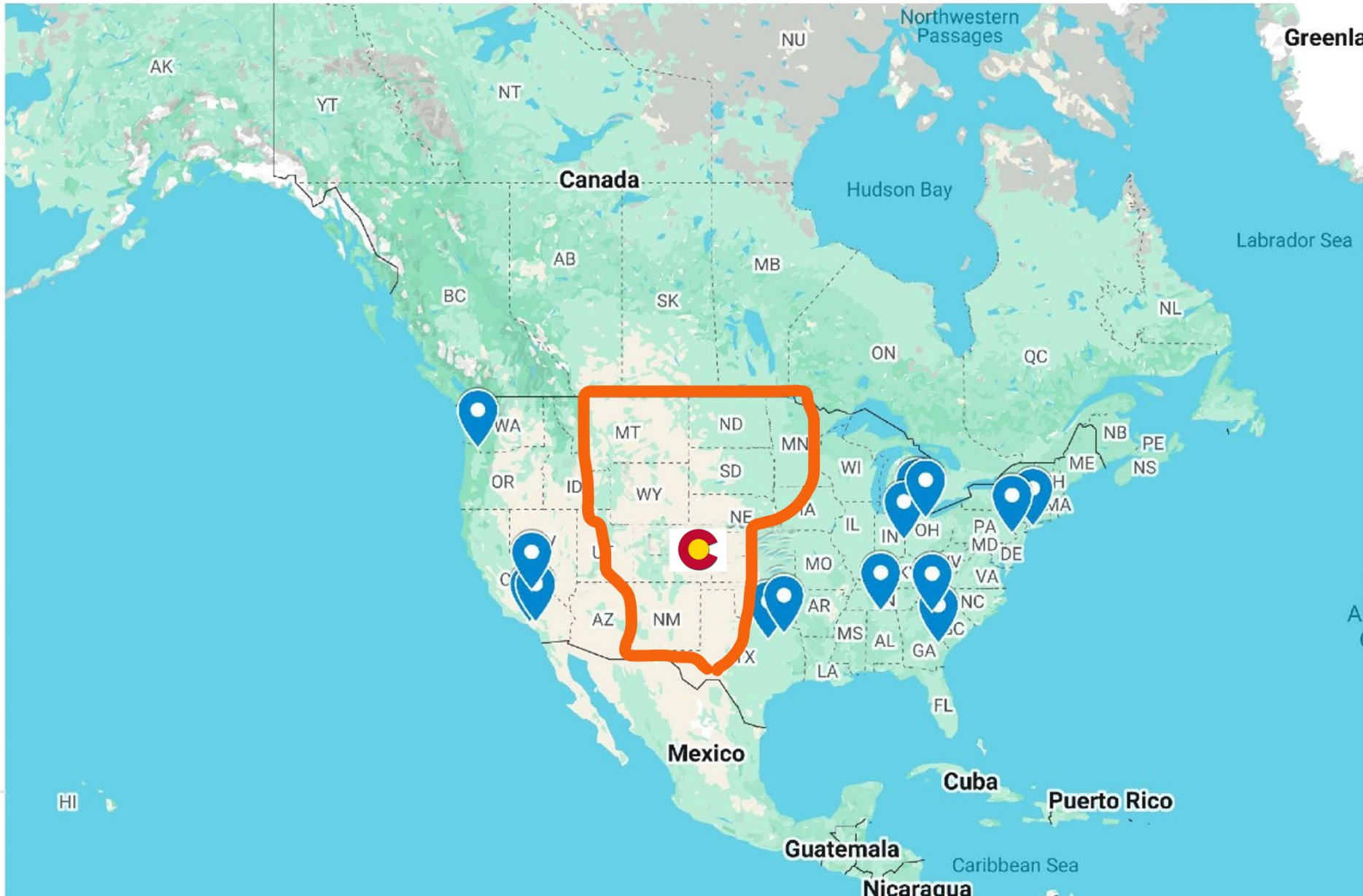
~7.5 M tires a year

~70% going to TDF (tire derived fuel) or ADC (alternative daily cover)

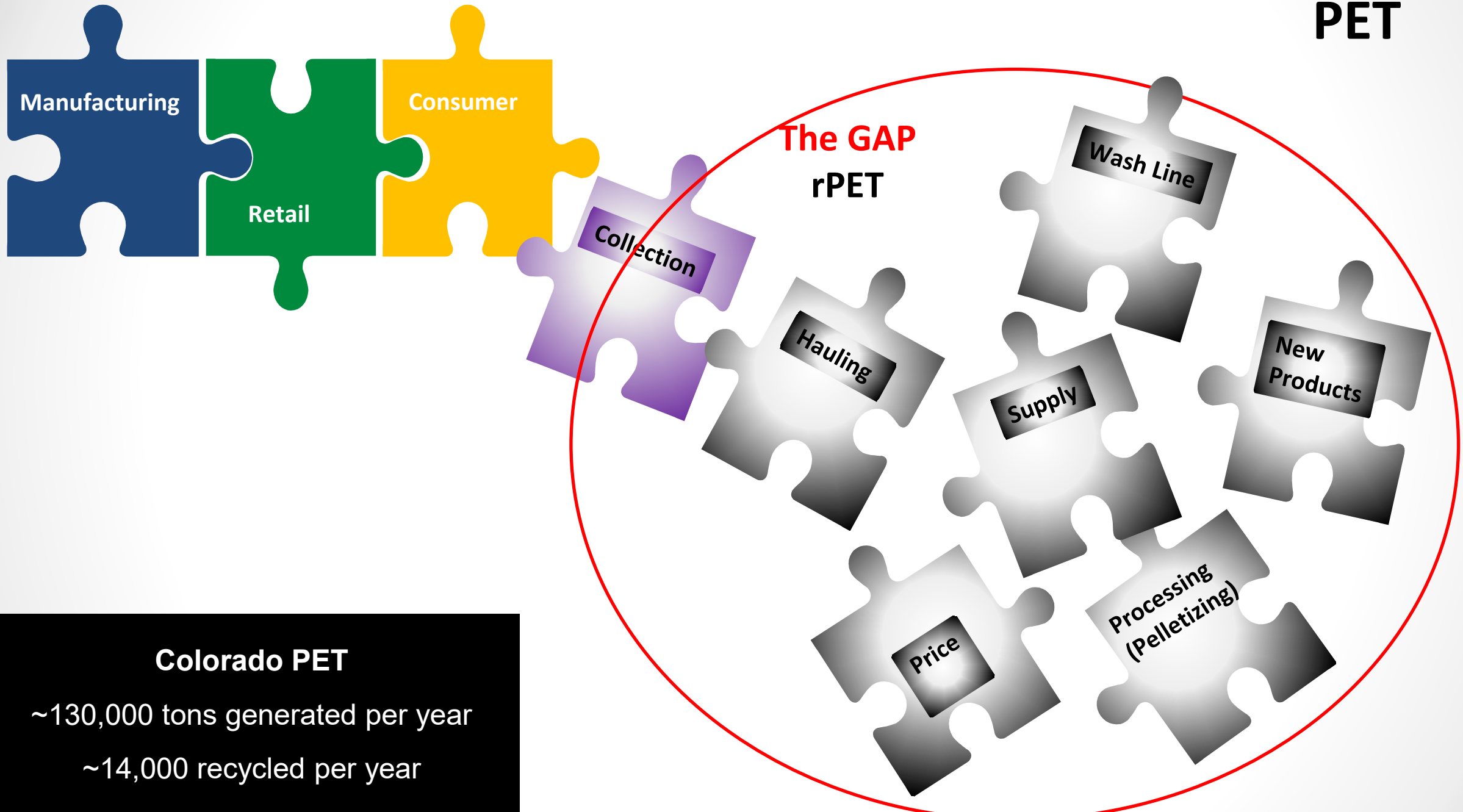
rPET Facilities US

Untitled layer

- Verdeco Group
- D6
- Evergreen
- Indorama
- Revalyu
- Dak
- Phoenix Technologies
- Circularix
- Crystal Geiser
- Repet
- RPlanet Earth
- PQ Recycling
- ORPET
- Indorama



PET



Colorado PET

~130,000 tons generated per year

~14,000 recycled per year

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Audience Q&A

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https://circularcolorado.org

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