

Innovative,  
Collaborative End-  
Market Solutions  
Built for Colorado



# WHO IS THE CEDDC?



## CEDC MISSION

We help companies that transform wasteful linear consumption models, products and services to circular ones grow or locate in Colorado as an integral part of a Colorado circular economy.



## CEDC VALUES

Innovation  
Collaboration  
Leadership  
Accountability  
Passion  
Communication



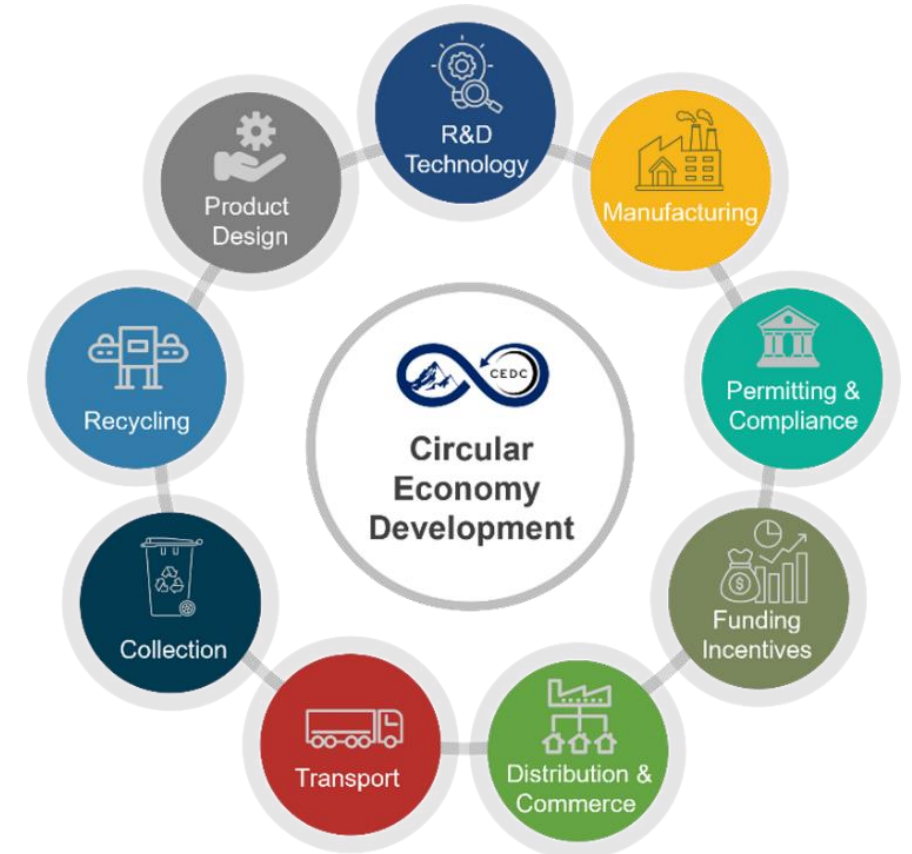
## CEDC VISION

To keep all materials out of the landfill and circulating at highest value in the economy.

# WHAT WE DO

Services and technical assistance provided to projects admitted to the CEDC

Develop Circular Model Solutions	<b>Economic Development</b>
Environmental Compliance	Manufacturing Recycled Content Inputs
<b>Public-Private Partnerships</b>	Transportation & Logistics
Financial Analysis	<b>Project Management</b>



# WHO WE DO IT WITH



## Players – Sectors and Industries

01 Manufacturing	⊕ Product Design	⊕ R&D	⊕ Technology
02 Recycling	⊕ Haulers & Processors	⊕ Cities and Counties	⊕ Policy
03 Transportation	⊕ Trucking, Rail, Transload	⊕ Departments of Transportation	⊕ Freight – Domestic & International
04 Distribution	⊕ Wholesale	⊕ Retail	⊕ Logistics
05 Funding	⊕ Government and Foundation Grants	⊕ Investors	⊕ Loans
06 Economic Development	⊕ Real Estate	⊕ Workforce Development	⊕ Financial Incentives
07 Business Development	⊕ Incubators and Accelerators	⊕ Project Management	⊕ Strategic Partnerships
08 Government	⊕ Health and Environment	⊕ Permitting	⊕ Public-Private Partnerships
09 Private Sector	⊕ Corporations	⊕ Service Providers	⊕ Small Business
10 Not for Profit	⊕ Trade Associations	⊕ Chambers of Commerce	⊕ Education

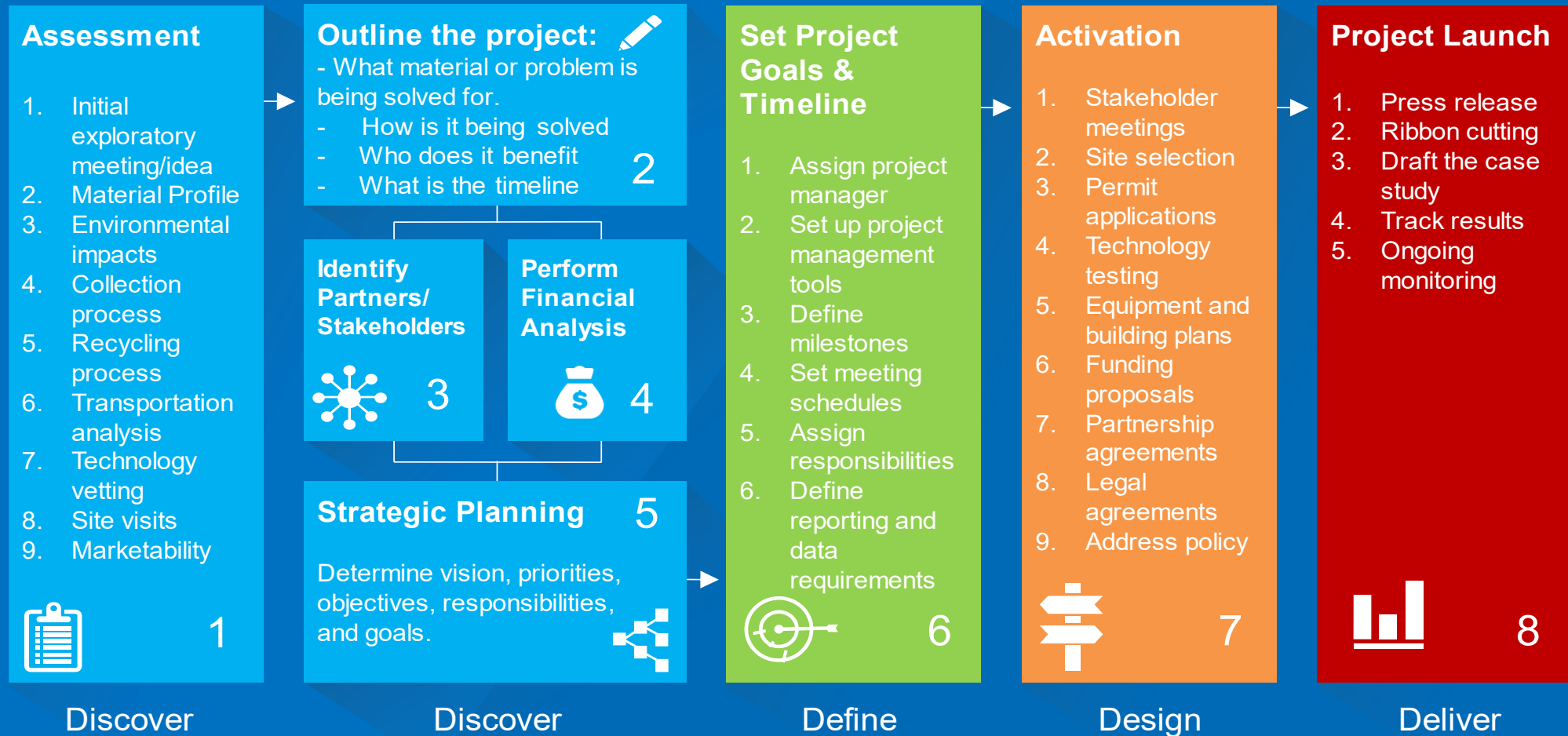
# CIRCULAR MODEL COMPONENTS

The contents within each component are assembled in a step-by-step process to build out each circular economy project



# STEP-BY-STEP

## Step-By-Step Circular Economy Development



# CIRCULAR MODEL GUIDE

## Assessment

1. Initial Idea/Exploratory Meeting	<p>Possible questions:</p> <ul style="list-style-type: none"> <li>– Ask for a full presentation of the product/service.</li> <li>– What stage is the product or service (lab, commercialization, growth, etc.)?</li> <li>– Are there patents or trademarks?</li> <li>– What is the capex requirement?</li> <li>– Are there partner agreements in place?</li> <li>– Does it require a special labor force?</li> <li>– What size building and/or outdoor space is required?</li> <li>– How much power is required?</li> </ul>
2. Material Profile	<ul style="list-style-type: none"> <li>– What is the material?</li> <li>– What is the material quantity demand?</li> <li>– Are there additional materials in the process?</li> <li>– Is there a cost for the material or a tipping revenue?</li> </ul>
3. Environmental Impacts	<ul style="list-style-type: none"> <li>– How is the material processed? Any hazardous chemicals?</li> <li>– Has a life cycle analysis been completed?</li> <li>– Is there an environmental product declaration?</li> <li>– Are there special permits required that you know of?</li> <li>– Are there emissions involved?</li> <li>– How much water is used?</li> <li>– Are there stormwater issues?</li> <li>– Is anything being stored outside?</li> </ul>
4. Collection Process	<ul style="list-style-type: none"> <li>– How is the material collected?</li> <li>– Does it require special containers or vehicles?</li> <li>– Where is it collected (drop sites, industrial, commercial, etc.)?</li> <li>– Does the material need to be processed?</li> </ul>
5. Recycling Process	<ul style="list-style-type: none"> <li>– Does the material need to be sorted?</li> <li>– Does material need to be baled or packaged in any way?</li> <li>– What are the contamination factors?</li> </ul>
6. Transportation Analysis	<ul style="list-style-type: none"> <li>– How is the material transported to the manufacturing facility?</li> <li>– What is the transportation plan for distribution?</li> <li>– Do the finished goods require a specific type of transport?</li> </ul>

## Outline the Project

– Choose your project manager and identify your team.
– Develop a brief project plan.
– Outline what the problem is, how it is being solved, and who it benefits.
– Estimate a timeline.

## Strategic Planning

Information to gather:
– Identify hurdles or challenges
– Identify partners and collaborators
– Will this be a public-private partnership? Are there economic development incentives?
– Identify stakeholders and stakeholder communication needs
– Identify any applicable policies, ordinances, or regulations
– Outline site needs and potential locations
– What are permitting requirements?
– What are the funding needs?
– With the company or solution, review financials or perform a basic financial analysis.
Draft a strategic outline
– Describe the vision
– What are the priorities?
– What are the objectives?
– What are the responsibilities?
– What are the goals?

## Project Plan

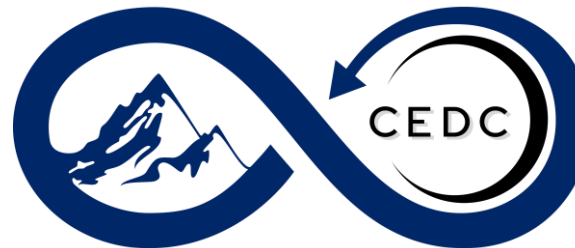
– Set up project management tools (Gantt charts, communication, digital resources).
– Define the milestones and who on the team is responsible for each one.
– Set meeting schedules.
– Assign responsibilities and determine if they are staff or contractor roles.
– Determine if any permits or regulatory requirements will affect the timeline.
– Set up data gathering protocols and requirements.
– Decide on reporting criteria and reporting frequency.

## Activate the Project Plan

<p>This is the part of the project when all the “doing” begins to happen. It is important to document each step and keep all information in a central location for the project team to access. <i>This is the job of the Administrator with help from the Project Manager.</i></p> <p>All these things should be happening simultaneously throughout the project:</p> <ul style="list-style-type: none"> <li>– Stakeholder meetings</li> <li>– Site selection</li> <li>– Permit applications</li> <li>– Technology testing</li> <li>– Product testing</li> <li>– LCA and EPD processes started if not already in progress</li> <li>– Building layout or co-location plans</li> <li>– Funding proposals</li> <li>– Partnership agreements and all legal contracts</li> <li>– Address any policy or regulatory issues</li> <li>– Begin drafting communication</li> <li>– Begin to line up transportation solutions if needed</li> </ul>
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## Project Launch

<p>You did it! The site is opening or the product is being manufactured and going to market. Your job is not done. For the model to be beneficial to the industry, you will need to:</p> <ul style="list-style-type: none"> <li>– Draft a case study or a report on the project process to be used as a model.</li> <li>– Conduct ongoing monitoring in case assistance is needed for the first year.</li> <li>– Track results for at least three years.</li> </ul>
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# SAMPLE PROJECTS

SAINT-GOBAIN ACQUIRES ASPHALT SHINGLE RECYCLING TECHNOLOGY, ADVANCING ITS COMMITMENT TO WASTE REDUCTION



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**WE ALL  
HAVE STORIES  
TO TELL**







# SAMPLE PROJECTS

WE ALL  
HAVE  
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**High Value**

**Highest Best Use**

**High Volume**



**70-125 tires per barrier**

**1000 barriers (One-mile 660)**  
Recycles 70,000 waste tires  
Reuses 1.5+ million pounds and diverts from landfills  
Reduces 2.1+ million pounds of GHG emissions

75,000 recycle tires per barrier mile  
6,000,000 tires in 80 barrier miles  
440 million pound CO2e reduction by replacing concrete with PRETRED barriers.

**WASTE to Value**



**Scrap Tires**



# SAMPLE PROJECTS

## TRANSLOAD FACILITIES DEFINED

### What is transloading?

The transfer of goods from one mode of transportation (truck) to another (rail car) at an intermediate stop between the shipper and final destination.

1



2



3



4



5



## Front Range Transload



**WE ALL  
HAVE STORIES TO TELL**

# PATH TO FUNDING

The CEDC can help connect projects to funding sources.



## Front Range Waste Diversion Enterprise Fund

\$13M Annual Fund to  
invest in recycling and  
circular economy  
infrastructure



## Impact Investing

Private investment  
interested in making a  
positive social or  
environmental impact



## OEDIT Advanced Industries

Early stage capital and  
retention grant up to  
\$250,000



## Federal Grants

Federal financial  
assistance for specific  
projects such as research,  
technology, specific  
material solutions

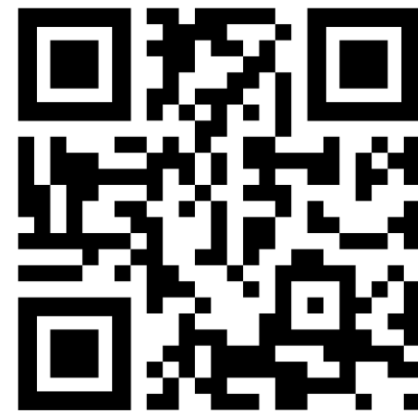


# Contact Us **Circular Colorado & CEDC**

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# OUR PANEL



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**Laura Davis**  
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Environmental Health  
& Safety



**Jenifer Freeman**  
Constellation Strategies

Public Affairs  
Stakeholder  
Engagement



**Laurie Johnson**  
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