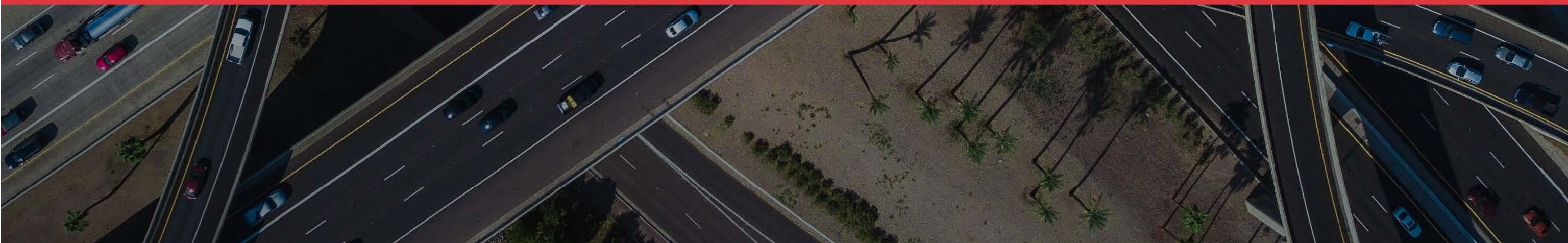


**BUILD AMERICA CENTER**

INNOVATIVE FINANCING AND DELIVERY  
OF TRANSPORTATION INFRASTRUCTURE

# Building America's Future: Academic Strategies for Supporting IIJA and IRA Implementation







# BUILD AMERICA CENTER

INNOVATIVE FINANCING AND DELIVERY OF TRANSPORTATION INFRASTRUCTURE

The Build America Center (BAC) will mobilize the use of innovative financing, funding, and project delivery solutions to foster new approaches to transportation infrastructure development and delivery through creation of a knowledge hub, spurring innovation with cutting edge research, collaborative partnerships and the development of an academy to deliver innovative education and training plus tailored technical assistance.



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### BAC BIL Support

- Funding Strategy
- Program Analysis
- Application Planning
- Project Identification and Scoping
- Fundability Review
- Benefit Cost Analysis
- Justice 40 Review and Analysis
- Application Development
- Application Review
- Data Analysis
- **No Charge to Localities**

## BAC Performance in Numbers

2 Tools

35+ Localities

20 Grant Applications

\$75+ million

4 Guides & Standards

## BIL LAUNCHPAD

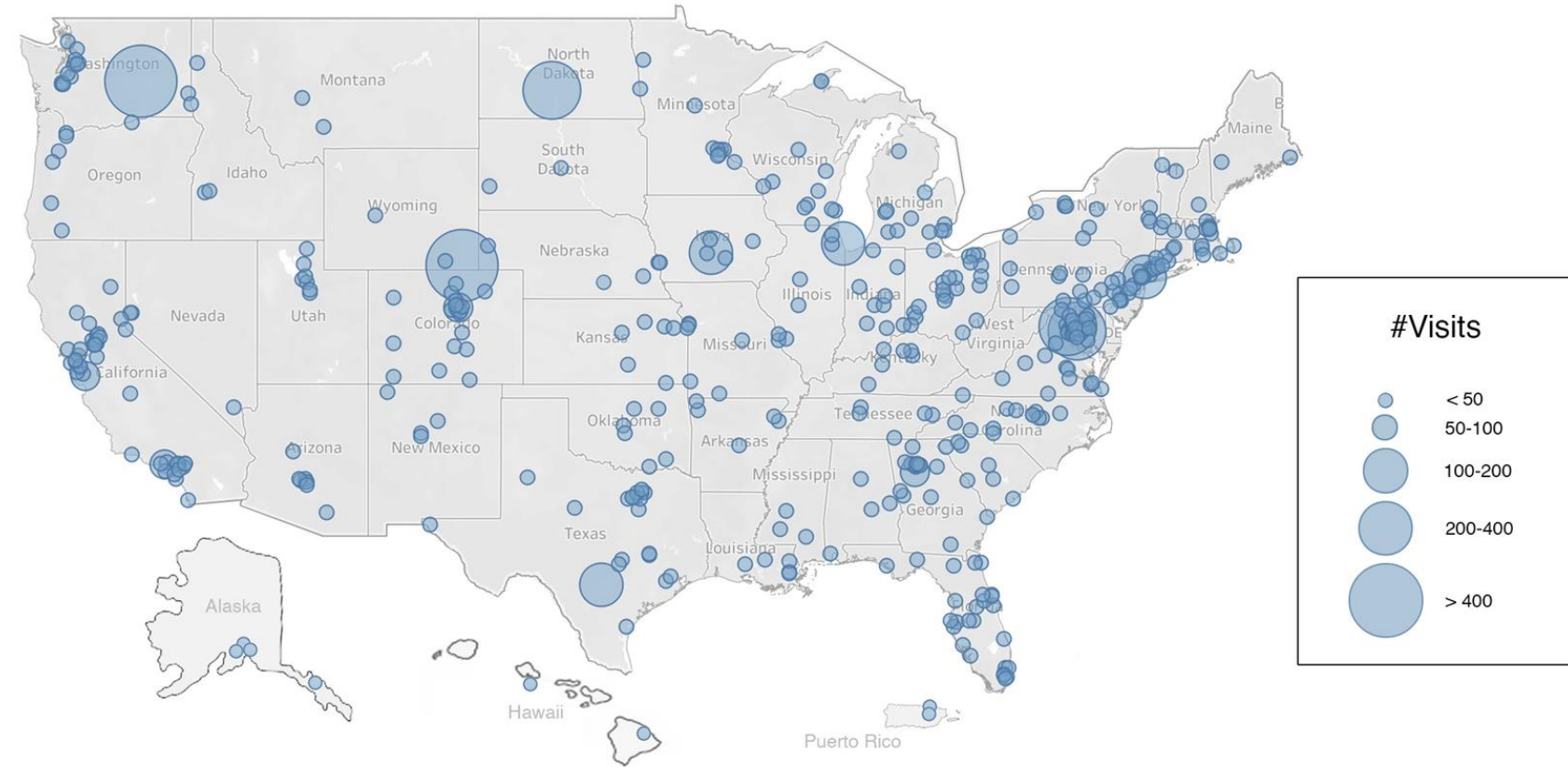
- [Billaunchpad.com](http://Billaunchpad.com)
- NOFO, Plan Ahead, Awards w/ full application packages
- SS4A, SMART, RAISE, TCP, Low/No Emissions, CFI, RIA, etc.
- Build Infrastructure Better Symposium
- CFO Forum
- Stanford Infrastructure Forum
- Modernizing Infrastructure Webinars
- Major Project Database
- Enhancing Mobility Innovation

FEARLESS INNOVATION

- [Billaunchpad.com](https://Billaunchpad.com)
- Total Users : 10000+ since Jan 2023
- Monthly New Users: 528
- Maximum Daily Users: 242
- Data Coverage
  - 100+ NOFOs, 5000+ Awards
  - 3000+ Localities, 1000+ Application Documents
  - Project Narrative, Benefit Cost Analysis, Supporting Documents, Climate Impact Analysis, Equity Analysis, etc.
- Covered BIL Programs: SS4A, RAISE, RCP, TCP, INFRA/Mega, etc.
- State Dashboard and AI-Chatbox



BILLAUNCHBOT



### BILLaunchpad Accelerates Localities' Grant Application

1-Click Technical Assistance

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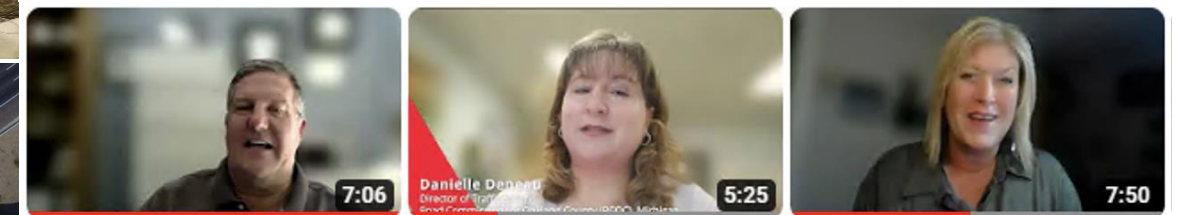
# Technical Assistance Highlight



BAC 8 tips for a successful BIL Grant Application

Build America Center 4 subscribers

0 likes, 0 comments, Share, Download, Save



Fort Collins SMART Grant      RCOC SMART Grant      NCRPC SMART GRANT

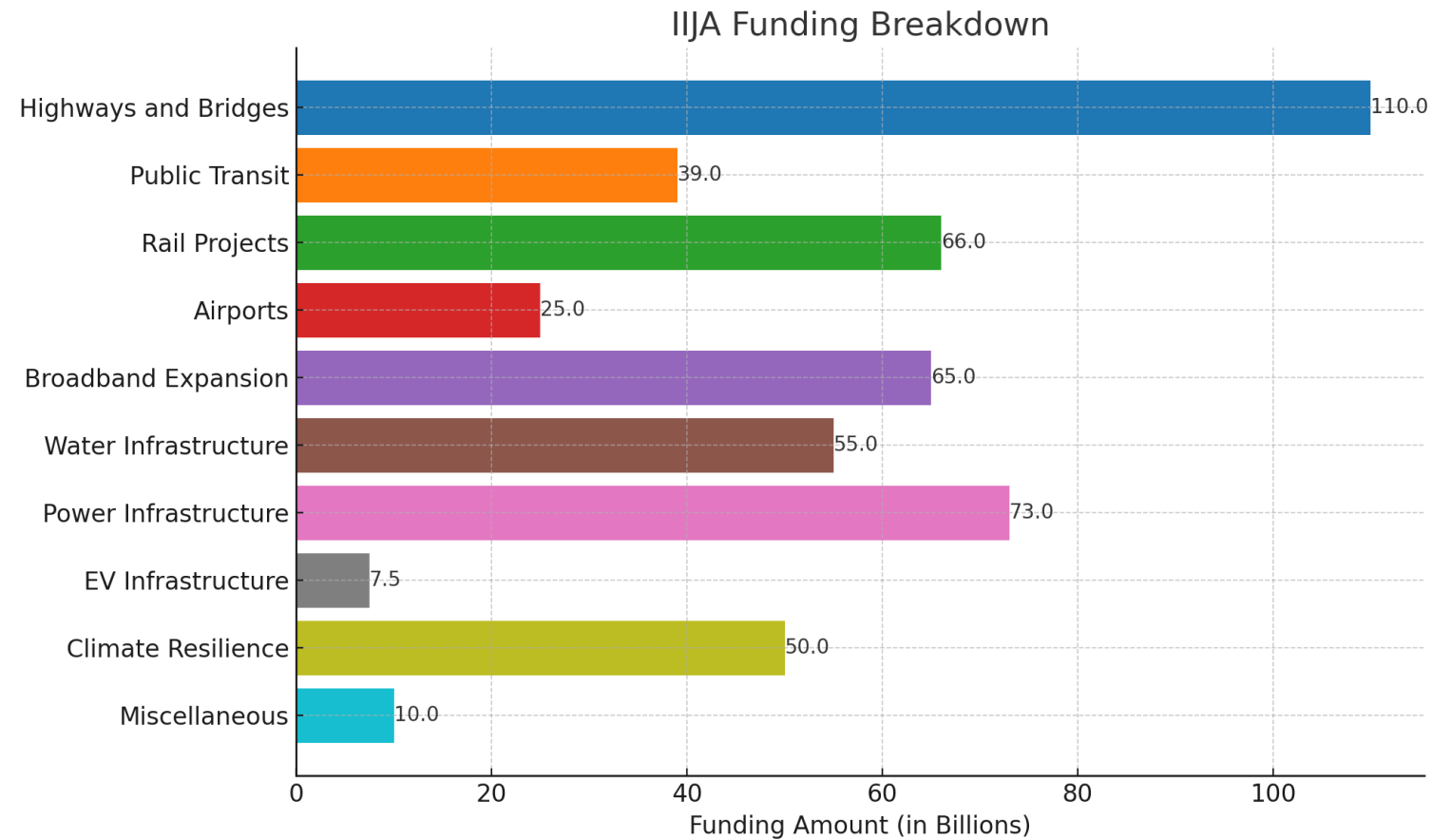
## Expert Panel



<https://www.youtube.com/@buildamericacenter1938>

# IIJA and IRA Findings

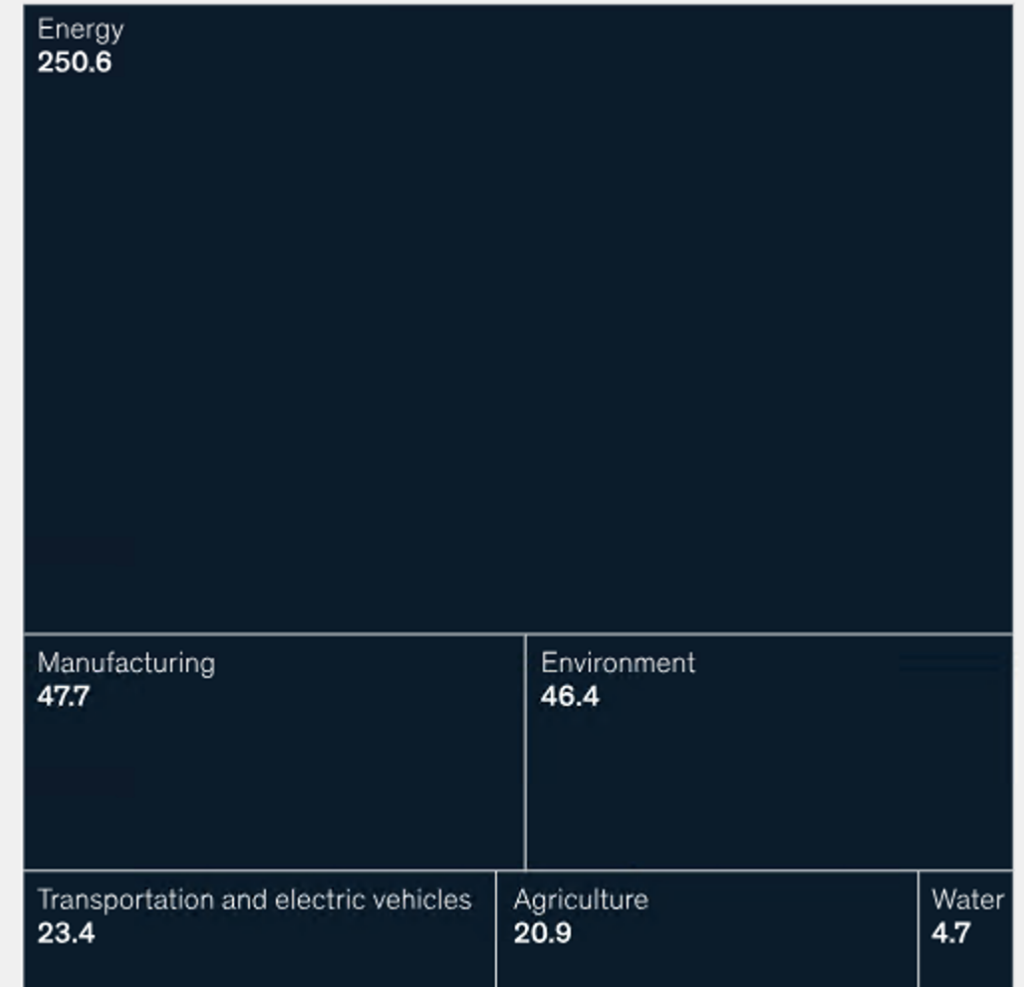
- \$190 billion discretionary funding from USDOT available to localities
- 38% of Funding Awarded to 56K Projects



Source: McKinsey & Company

Inflation Reduction Act investments by sector, \$ billion

Total = **393.7**



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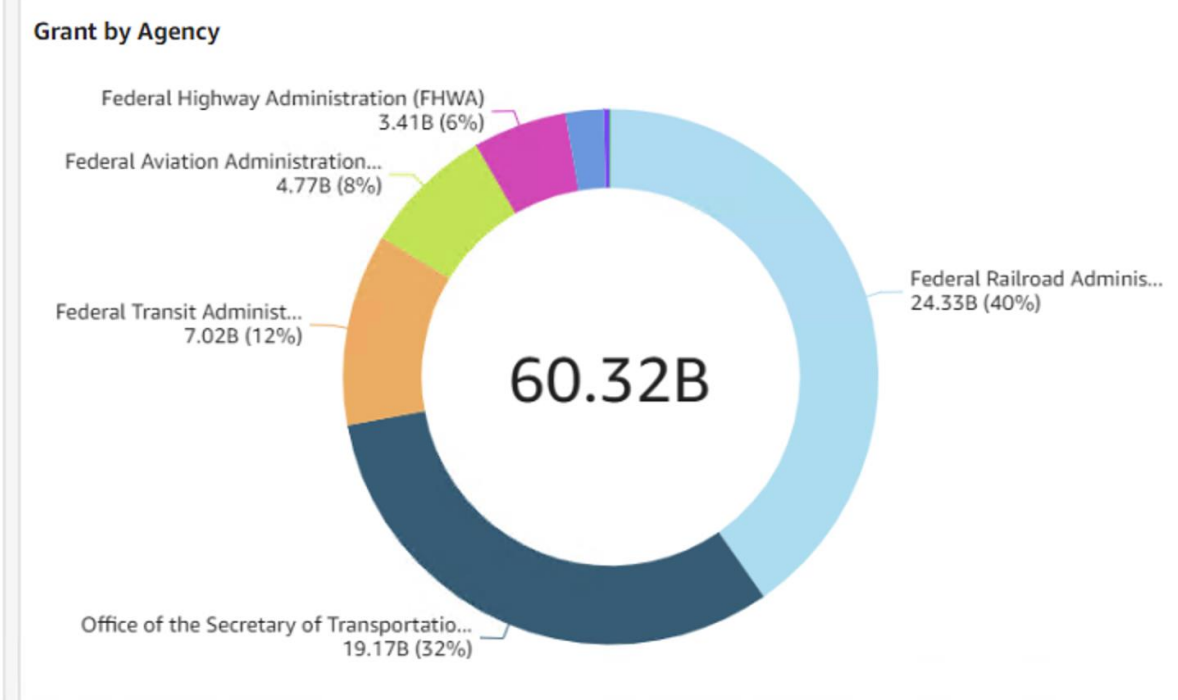
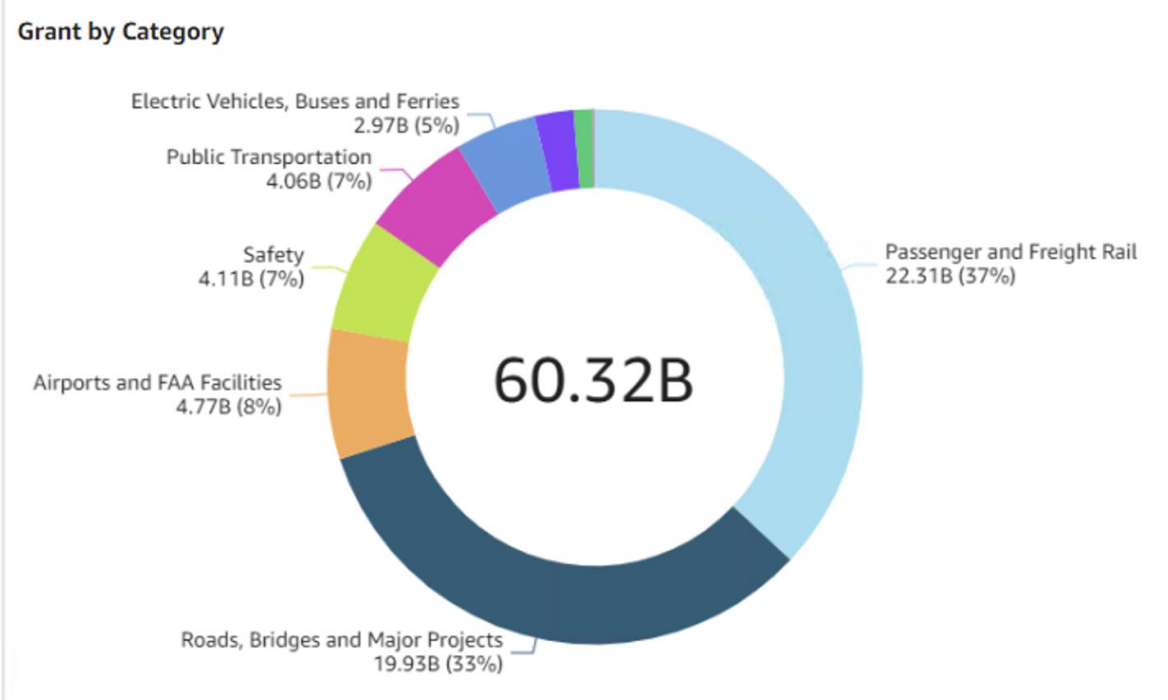
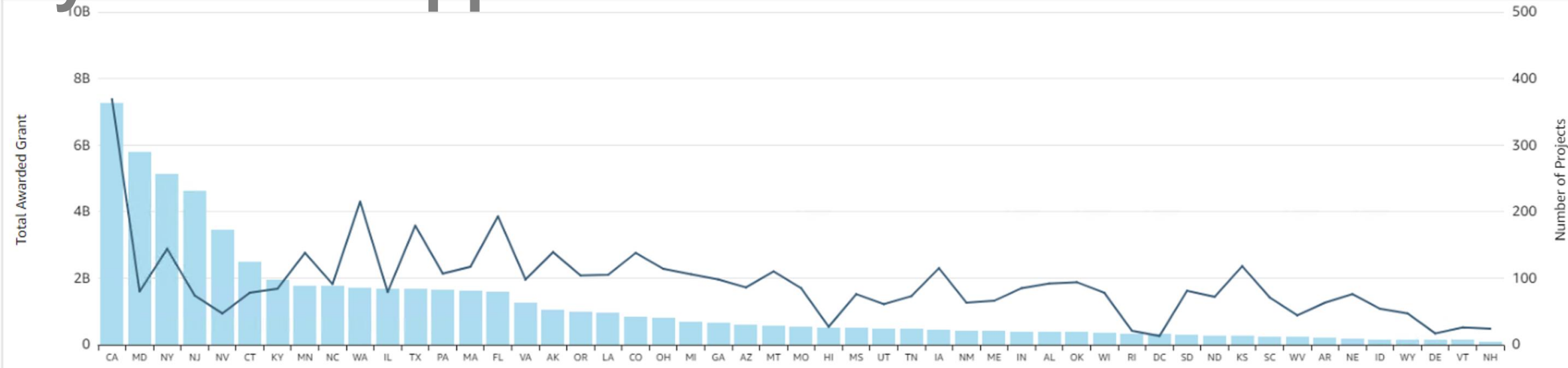
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OF TRANSPORTATION INFRASTRUCTURE

**FEARLESS INNOVATION**



# Discretionary Grants: Opportunities for Universities

- Eligible Applicants for Certain Programs
- Supporting Federal Agencies
- Partnering with State/Local Governments
- Workforce Development
- Data and Case Studies
- University Curriculum





# Research Education or Consultancy

- Am I doing consulting?
- Can I compete with consulting companies?
- How will this benefit my students?
- Can this effort bring grants to my institute?
- How is this grant different from other federal grants?
- Other Questions



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**Louisiana Rural Infrastructure Accelerator**  
Application for USDOT Regional Infrastructure Accelerators Grant Program



Applicant: Governor's Office of Rural Development  
Location: State of Louisiana  
Category of designation: State  
RIA Budget amount: \$ 2,800,000

**ACCELERATE INC**  
A REGIONAL INFRASTRUCTURE ACCELERATOR SERVING MONTGOMERY COUNTY AND THE GREATER WASHINGTON METROPOLITAN REGION

Applicant: Montgomery County Department of Transportation (MCDOT)  
Location: Montgomery County, MD  
Category of Designation: Urban / Metropolitan Planning Organization  
RIA Budget Amount: \$4,000,000

MCDOT

**Clean-Air Electric Hybrid**

**CityBus**  
GREATER LAFAYETTE

**2023 Reconnecting Communities and Neighborhoods (RCN) Program**

*Reconnecting Greater Lafayette: Planning A Community-Based Transit System*

CityBus project aims to relocate its maintenance facility, which has burdened disadvantaged communities' park access, and, through innovative Co-Planning and extensive public engagement, redesign its entire route network in response.

CityBus will collaborate with City of Lafayette, City of West Lafayette, and Build America Center.

**2023**

**Charging and Fueling Infrastructure Discretionary Grant Submission MCEC & Partners**  
UEI# MS3KJNPUMML9

MARYLAND CLEAN ENERGY CENTER

Amy Gillespie  
Maryland Equitable Charging Infrastructure Partnership (MECIP)  
COMMUNITY & CORRIDOR SUBMISSION

**Salisbury Vision Zero Rapid Safety Improvements**

Salisbury Vision Zero Rapid Safety Program  
FY2022 Safe Streets for All - Implementation

Total Project Planning & Design Cost: \$14,891,983.34  
Local/State Match: \$2,938,396.67  
Requested FY2022 SAA Funding: \$11,793,586.67

Submitted by the City of Salisbury, MD to the US Department of Transportation  
UEIC# M2V1878AN7V8  
JAN 28, 2022

Salisbury

**FY 2023 SMART Grants Program**

**Safer & Smarter**  
Reduced Injury and Congestion through Targeted Traffic Signal Technology

Submitted by: The City of Alpharetta, GA | Prepared by: alta

ALPHARETTA

**SMART** Strengthening Mobility and Revolutionizing Transportation (SMART) Grants Program

Recipient	Project Name	Funding	Project Type	Project Summary
North Central Regional Planning Commission	Smart Counties in Kansas	\$1,031,730	UAS	Prototype a GIS-based platform that integrates local infrastructure assets to provide innovative data, monitor asset conditions, and inform technological solutions in Kansas

**Mountain Village Link: SH145 Underpass and Complete Street Evolution**

The Mountain Village Link: SH145 Underpass and Complete Street Evolution project includes two key components, summarized below. Important note: the two project components do not require right-of-way acquisition, and as such, these costs/activities are not included in the request.

**Component 1. Lawson Hill/SH 145 Bicycle & Pedestrian Underpass**  
The proposed underpass is located at State Highway (SH) 145 and Lawson Overlook. It will connect the free public transit Gondola system and Gondola Parking Garage to the new bicycle and pedestrian improvements on local roads to the Lawson Hill community on the west side of SH 145.

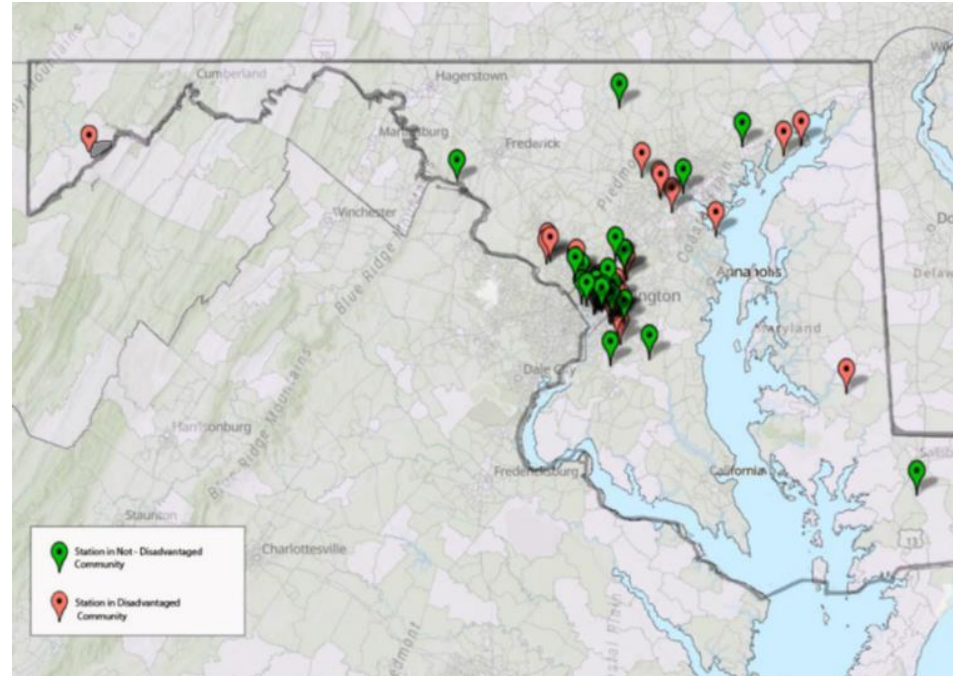
**Component 2. Bicycle & Pedestrian Connections & Improvements**  
These improvements will expand 2.75 miles of an existing 22-foot cross-section of Mountain Village Boulevard, Russell Drive, Double Eagle Drive, Adams Ranch Road, and Lawson Overlook to a 34-foot cross-section with 11-foot travel lanes and 6-foot paved bicycle and pedestrian lanes in each direction. The project provides a direct connection to the Lawson Hill dead-restricted neighborhood via the Lawson Hill Underpass to the west Mountain Village's dead-restricted neighborhoods and the Gondola Parking Garage to the east.

San Miguel County, San Miguel Authority for Regional Transportation (SMART), Town of Telluride, and Lawson Hill community www.LawsonHill.com



# FHWA Charging and Fueling Infrastructure Grant

USDOT FUNDING GRANT PROGRAM	
Applicant	<b>Maryland Clean Energy Center (MCEC)</b>
Award	\$15 M
BAC Technical Assistant Provided:	<ul style="list-style-type: none"> <li>- Program Analysis and Strategy</li> <li>- Emission and equity analysis</li> <li>- Innovative Financing Strategy</li> <li>- Proposal Development</li> </ul>



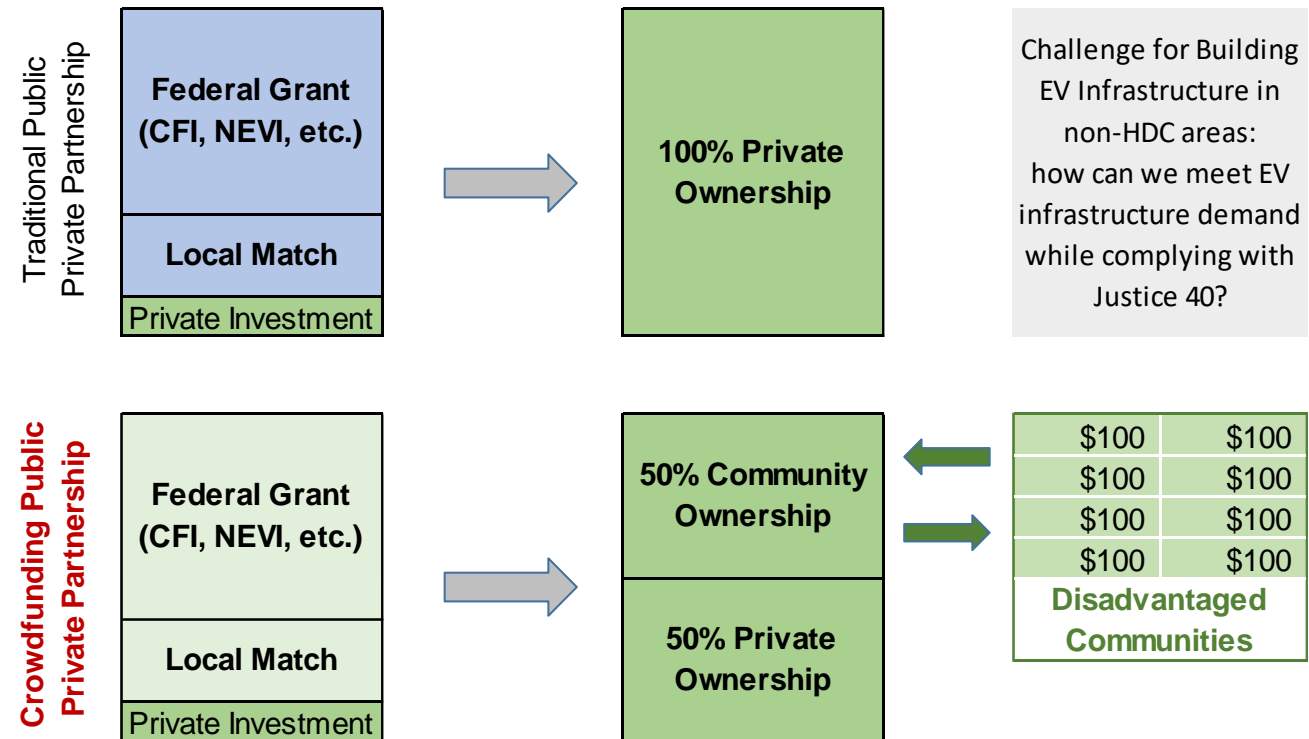
**Charging and Fueling Infrastructure Discretionary Grant Submission MCEC & Partners**  
 UEI# MS3KJNPUMML9

**MARYLAND CLEAN ENERGY CENTER**

Amy Gillespie  
 Maryland Equitable Charging Infrastructure Partnership (MECIP)  
 COMMUNITY & CORRIDOR SUBMISSION

## NEVI and CFI Program

- EV Charging Demand and Revenue
- Justice 40 Compliance
  - low demand from HDCs
- Crowdfunding P3 Models for EV Charging Infrastructure Network
- New Model for Public Engagement

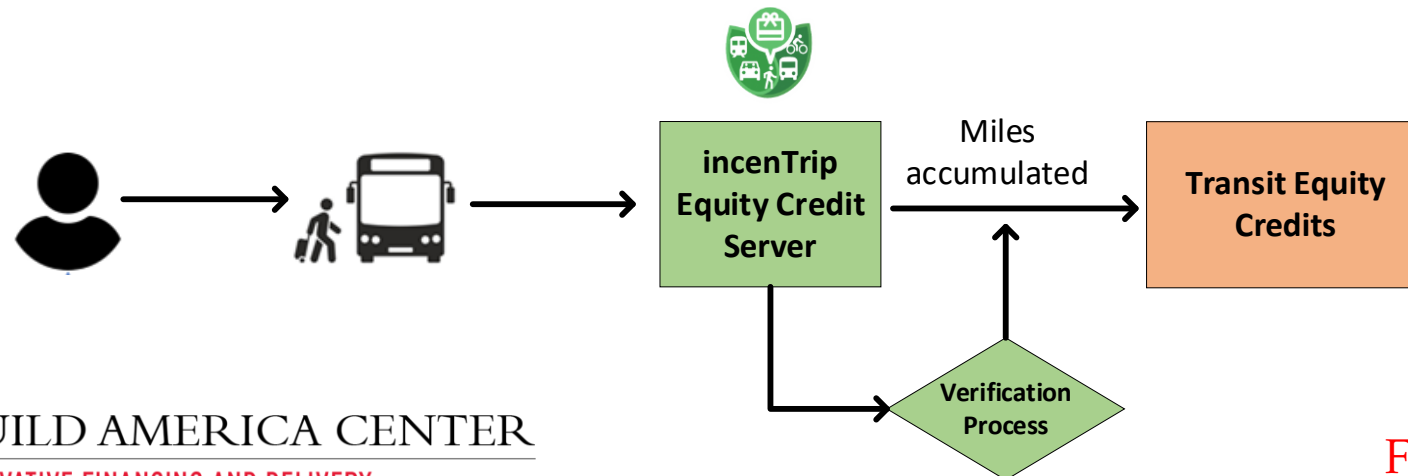
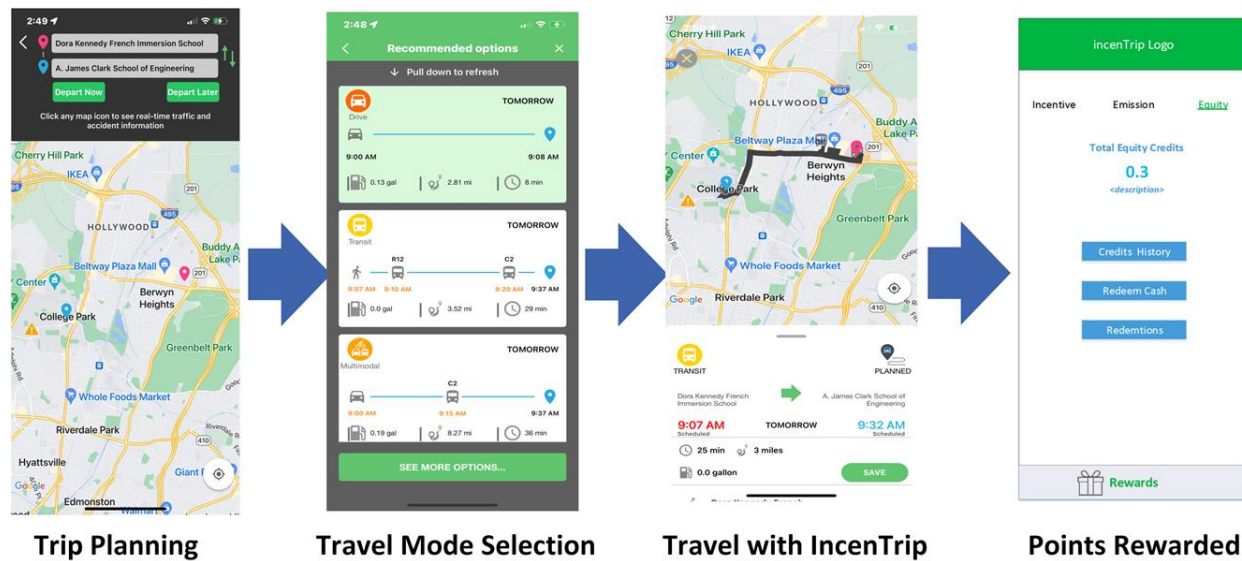




# Regional Infrastructure Accelerator Grant

- Build On BAC/MTI Research
- Pilot BAC Studies to Meeting Rural Communities Needs
- Align with USDOT Priorities

**Louisiana Rural Infrastructure Accelerator**  
Application for USDOT Regional Infrastructure Accelerators Grant Program

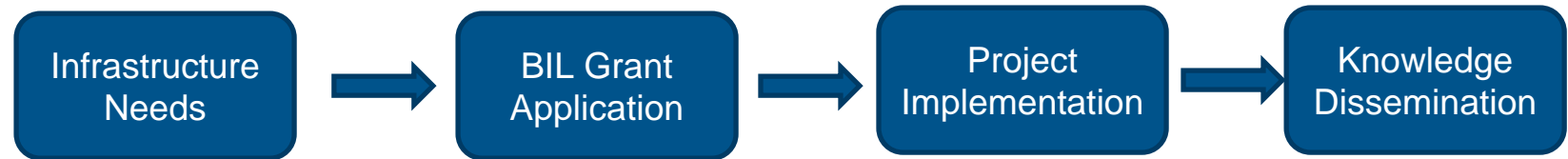


<i>Applicant :</i>	<b>Governor's Office of Rural Development</b>
<i>Location :</i>	<b>State of Louisiana</b>
<i>Category of designation :</i>	<b>State</b>
<i>RIA Budget amount :</i>	<b>\$ 2,800,000</b>



# BAC Technical Assistance Model

- Community-based
- Co-Planning and Co-Design
- Innovative Financing
- Evidence-based and Data Centric Approach
- Knowledge Co-creation



**Project Bundling**

**Crowdfunding for Justice 40**

**Co-Planning  
Emission Equity Credits**



# Where Can I Start?

- Your University and City
- Local Counties and Cities
  - w/o BIL Grants
  - Disadvantaged Communities
  - Rural and Tribal Communities
  - Infrastructure Needs
- Transportation Agencies and Non-Profits
- Targeting Programs Matching Your Expertise/Interest
  - **LCTM/CFI/PROTECT**
  - **RCP/TETDDP**
  - **SMART/SS4A/ADCMS**
- Build Your Partnership
- Universities-led Modernizing Infrastructure Coalition

Low or No Emission Vehicle Program - 5339(c)



**U-MIC**

## Selected Resources:

- [DOT Navigator](#)
- [DOT Discretionary Grants Dashboard](#)
- [FHWA Competitive Grant](#)
- [FTA Grant Programs](#)
- [FRA Discretionary Grant Programs](#)
- [BILLaunchpad](#)
- ETC Explorer
- CEJST
- Rural Eligibility
- USDOT BCA Template



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# Universities-led Modernizing Infrastructure Coalition

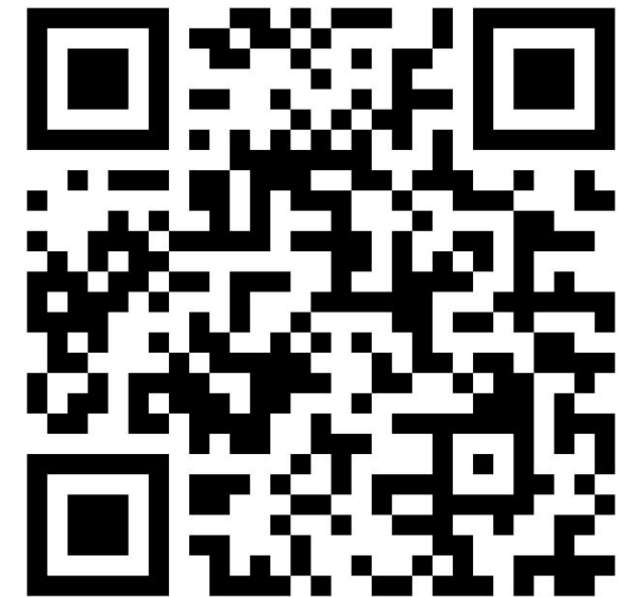


## University Member

- Technical Support for BIL Grant Application
- Capacity Building and Training
- Connections with Local Governments
- Knowledge Co-Creation
- Grant Funding if Awarded
- Student Engagement and Educational Resources/Materials

## Local Community (Public and Private Entities)

- Deep-dive Technical Assistance in Grant Applications
- Access to Cutting-Edge Tools and Resources
- Collaboration on Policy and Public Outreach
- Workforce Development
- Continuous Support and Follow-Up



<https://forms.gle/CKeuvS3WvwCUKwFFA>



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# BUILD UPON SUCCESSFUL PARTNERSHIP



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Website: [bac.umd.edu](http://bac.umd.edu) email: [bac@umd.edu](mailto:bac@umd.edu)



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