The Infrastructure Investment and Jobs Act (IIJA)

Aka: The Bipartisan Infrastructure Law (BIL)

How Can Interested Parties Benefit from the $1-Trillion bi-Partisan Infrastructure Act?

Association of Proposal Management Professionals

- ❖ **BPC Dallas 2022**
- ❖ **May 22-25, 2022**
- ❖ **Gaylord Texan Resort & Convention Center**
- ❖ **Dallas, Texas**

OCI

ORGANIZATIONAL COMMUNICATIONS INC.

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The Infrastructure Investment and Jobs Act (IIJA)

❖ **$65 B in Federal spending for Clean Energy and Power**

❖ **$65 B for High-Speed Internet**

❖ **$25 B for Airports**

❖ **$319 B for Roads and Bridges**

❖ **$21 B for Environmental Remediation**

"A billion here, a billion there, and pretty soon you're talking about real money."

❖   **Sen. Everett Dirksen**

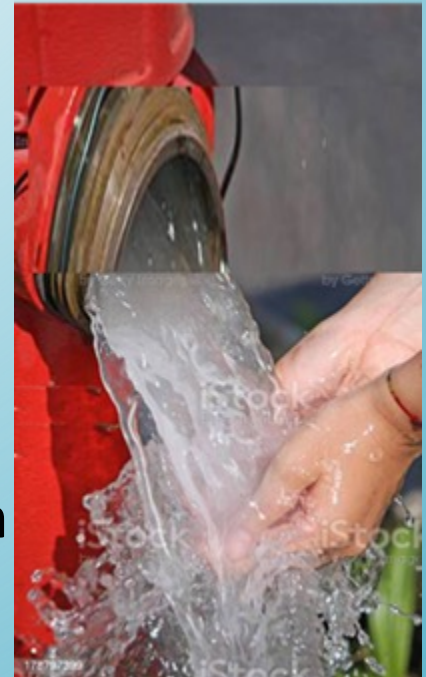# The Infrastructure Investment and Jobs Act The Bipartisan Infrastructure Law (BIL)

❖ **This act is HHHHHHUUUUUUUUUGGGGGGGGGEEEEEE**

❖ **When I accepted this assignment, I had no idea there was so much material to cover. You really feel like a farmer. Who has 100 pounds of fertilizer -- to fit into a 5-pound bag.**

❖ **I fear that I'm doomed to leave many of you unsatisfied. If I were to provide the depth really needed -- to COVER YOUR SECTION. Then we'd be here for two weeks.**

❖ **Researching this program has been a thrilling challenge. And I am anxious to share what I found.**

OVERVIEW of TODAY'S TALK

❖ 1. <u>Overview</u> the entire $1T in funding:

   ❖ By Agency   ❖ By type of technology

❖ 2. Detail the <u>Mechanism</u> thru which you get funding

   ❖ Grants   ❖ Contracts

❖ 3. Focus on <u>five key programs</u>:

   1. $319 B for Roads and Bridges

   2. $75 B for Clean Energy and Power

   3. $65 B for High-Speed Internet

   4. $21 B for Environmental Remediation

   5. $21 B for Airports

Drinking from a firehose

Now, Let's Look at IIJA Funding by

1. **Technology**

2. **Agency**

3. **Funding Mechanism**

The Infrastructure Investment and Jobs Act (IIJA)

Technology	Funding
➡ Airports and FAA Facilities	$25.00
➡ Broadband	$64.40
➡ Clean Energy and Power	$75.00
Electric Vehicles, Buses, Ferries	$24.80
Environmental Remediation	$21.60
Passenger and Freight Rail	$66.00
Ports and Waterways	$16.70
Public Transportation	$82.10
➡ Resilience	$42.90
➡ Roads, Bridges and Major Projects	$318.90
Safety	$37.70
Water	$64.30
Other	$8.70
Total*	$847.90

Red arrows identify programs to be focused on today

❖ **Alphabetically, by Dollars**

The Infrastructure Investment and Jobs Act

Roads, Bridges & Major Projects	$318.90	38%
Public Transportation	$82.10	10%
Clean Energy and Power	$75.00	9%
Passenger and Freight Rail	$66.00	8%
Broadband	$64.40	8%
Water	$64.30	8%
Resilience	$42.90	5%
Safety	$37.70	4%
Airports and FAA Facilities	$25.00	3%
Electric Vehicles, Buses, Ferries	$24.80	3%
Environmental Remediation	$21.60	3%
Ports and Waterways	$16.70	2%
Other	$8.70	1%
	$848.10	100%

❖ **Descending, by Percentage**

Red arrows identify programs to be focused on today

Funding by Agency

Department of Transportation	**$572.60**
Department of Energy	**$74.90**
Environmental Protection Agency	**$60.90**
Department of Commerce	**$51.20**
Department of the Interior	**$30.60**
Army Corps of Engineers	**$17.10**
Federal Commun. Cmmsn	**$14.20**
Department of Agriculture	**$9.80**
Department of Homeland Security	**$8.00**
Dept. of Health & Human Svs.	**$4.00**

❖ **Descending, by Dollars**

Funding by Agency

Federal Communications Commission, $14.20

Department of Agriculture, $9.80

Department of Homeland Security, $8.00

Department of Health and Human Services,…

Army Corps of Engineers, $17.10

General Services Administration, $3.40

Department of the Interior, $30.60

Others, $1.00

Department of Commerce, $51.20

Environmental Protection Agency, $60.90

Department of Energy, $74.90

Department of Transportation $572.60

Funding by Technology

Funding by Mechanism

IIJA Funding by Mechanism ($B)

Mixed Funding Mechanism 84.9 — Next Slide

Other 4.7

Contract 9.0 — Next Slide

Credit/Loan/Financial Assistance 26.0

Direct Federal Spending 27.8 — Next Slide

Grant or Cooperative Agreement 695.5

Source: whitehouse.gov/build

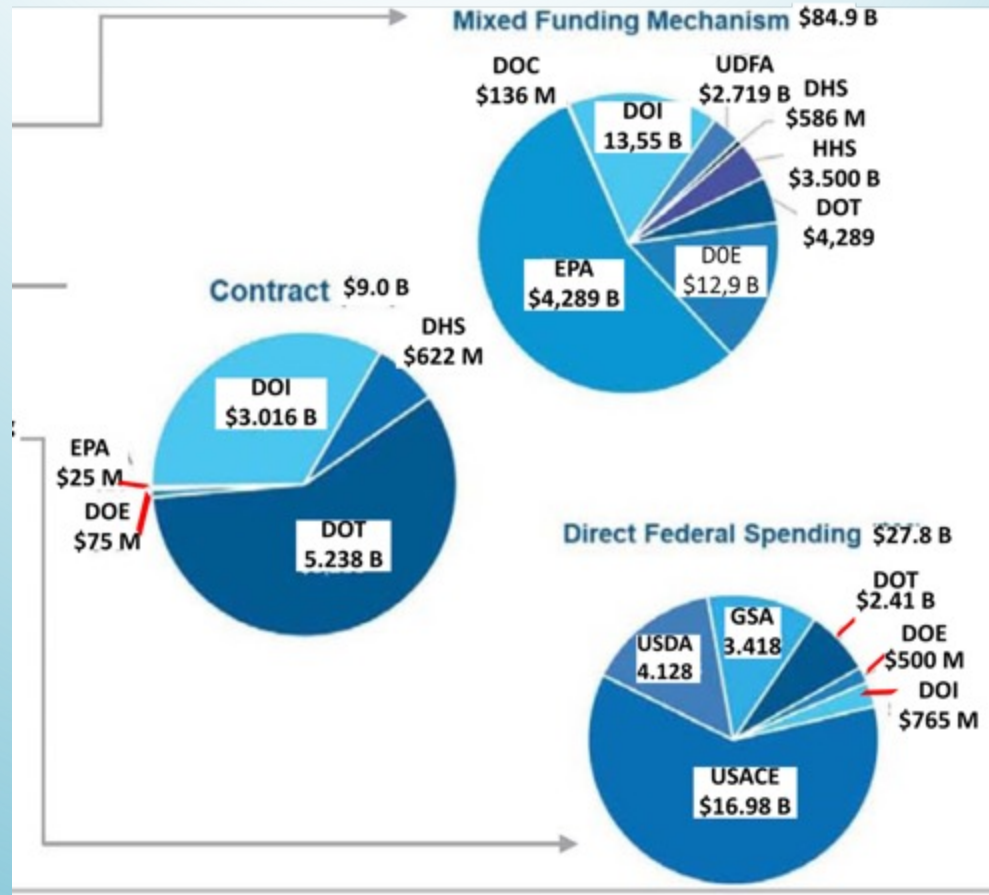*Based on currently available data; does not represent the total ($1.1T)
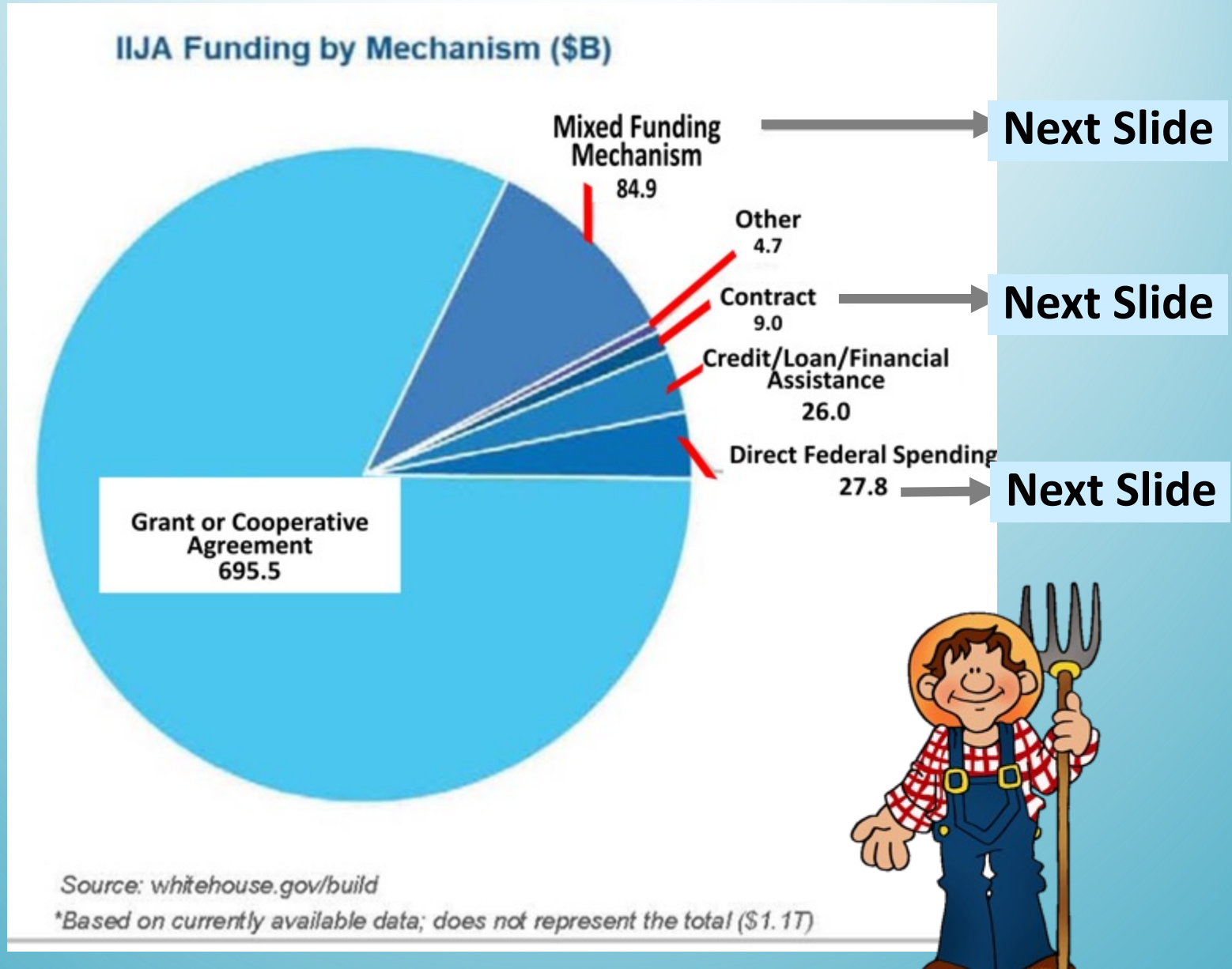
Funding by Mechanism (Detail)

Mixed Funding Mechanism

Contract

Direct Federal Spending

Catalog of All Major IIJA Programs

PRESIDENT JOE BIDEN
BUILDING A BETTER AMERICA
BUILD.GOV

A GUIDEBOOK TO THE
BIPARTISAN INFRASTRUCTURE LAW
FOR STATE, LOCAL, TRIBAL, AND
TERRITORIAL GOVERNMENTS, AND
OTHER PARTNERS

https://www.whitehouse.gov/wp-content/uploads/2022/01/BUILDING-A-BETTER-AMERICA_FINAL.pdf

Five Key BIL Programs

❖ **Today we will focus on these five programs of the IIJA:**

1	Roads, Bridges, Major Projects	318.9 bill
2	Clean Energy and Power	$75.0 bill
3	Broadband	$64.4 bill
4	Envionmental Remediation	$21.6 bill
5	Airports	$25.0 bill

1
ROADS, BRIDGES MAJOR PROJECTS

$318.9 bill

ROADS, BRIDGES, MAJOR PROJECTS

7 Programs:

1. **Megaprojects**

2. **INFRA**

3. **RAISE grants**

4. **Bridge Formula Program (BFP)**

5. **Bridge Investment Program**

6. **Metropolitan Planning Organizations**

7. **Congestion Mitigation & Air Quality Improvement Program**

Megaprojects

❶

❖ **$5 billion for the National Infrastructure Project Assistance or "Megaprojects." (MEGA) Program**

  ❖ **Provides grants on a competitive basis to support multijurisdictional or regional projects that may cut across multiple modes of transportation.**

  ❖ **Primarily multi-jurisdictional – such as a city and a state**

❖ **Large, complex Megaprojects include—**

  ❖ **Freight intermodal or freight rail projects that provide a public benefit (including public ports)**

  ❖ **Railway-highway grade separation or elimination projects**

  ❖ **Intercity passenger rail projects; and public transport-ation projects eligible for Federal Transit Administration**

ROADS, BRIDGES, MAJOR PROJECTS

PROGRAM OPERATION

❶

PROGRAM: Megaprojects

❖ **OVERVIEW: Overview – $5B   Large multi-modal, multi jurisdictional – projects with national or regional benefit - difficult to fund by other means - and likely to generate national or regional economic, mobility, or safety benefits.**

FUNDING FLOW -- grants on a competitive basis

1. ELIGIBLE ENTITIES -- 7 different types of entity or any combination of the 7 – gist is multi-jurisdictional – such as a city and a state

(A)   a State or a group of States;

(B)   a metropolitan planning organization;

(C)   a unit of local government;

❶

PROGRAM: Megaprojects (cont'd)

(D)   a political subdivision of a State;

(E)   a special purpose district or public authority with a transportation function, including a port authority;

(F)   a Tribal government or a consortium of Tribal govt's

(G)   a partnership between Amtrak and one or more   entitie described in subpar. (A) through (F); and subparagraphs (A) through (G).

3. APPLICATION PROCESS -- go to - https://www.transportation.gov/grants/mpdg-how-apply`

4. Funding Cycle – First cycle applications due May 23, 2022 – Next cycle Oct 2022

ROADS, BRIDGES, MAJOR PROJECTS

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INFRA Grants

❖ **$7.25 billion for the Infrastructure for Rebuilding America (INFRA) program**

  ❖ **Supports for <u>multimodal freight and highway projects</u> of national or regional significance to improve the safety, efficiency, and reliability in the movement of freight and peoplea in and across rural and urban areas**

❖ **Eligible Uses: Projects that improve safety, generate economic benefits, reduce congestion, enhance resiliency, and hold the greatest promise to <u>eliminate freight bottlenecks</u> and improve critical freight movements.**

ROADS, BRIDGES, MAJOR PROJECTS

❷ PROGRAM OPERATION

PROGRAM: INFRA Grants -- - $7.250 B in grants for multimodal freight and highway projects of national or regional significance to improve the safety, efficiency, and reliability of the movement of freight and people in and across rural and urban areas.

1. FUNDING FLOW -- Competitive Grant

2. ELIGIBLE ENTITIES -- A State or a group of States, a metro-politan planning organization, a unit of local government or a group of local governments, a political subdivision of a State or local government, a special purpose district or public authority with a transportation function, including a port authority, a Tribal government or a consortium of Tribal governments.

❷ **PROGRAM OPERATION**

PROGRAM: INFRA Grants (Cont'd)

3. **FUNDING CYCLE --Applications to open in the first quarter of 2022. Next cycle for 2023.**

4. **FOR MORE INFORMATION -- - https://www.transportation.gov/grants/infra-additional-guidance**

5. **APPLICATION PROCESS -- https://www.transportation.gov/grants/mpdg-how-apply**

CFDA Number(s): 20.934 – INFRA in Catalog of Federal Domestic Assistance

ROADS, BRIDGES, MAJOR PROJECTS

RAISE Grants

3

- ❖ **$7.5 billion for Rebuilding American Infrastructure Sustainably and Equitably (RAISE) grants**
- ❖ **A competitive grant program (formerly BUILD and TIGER) which provides funding for road, rail, transit, and other surface transportation of local and/or regional significance.**
  - ❖ **Selection criteria includes safety, sustainability, equity, economic competitiveness, mobility, and community connectivity.**
  - ❖ **Specifically targeted to Areas of Persistent Poverty and Historically Disadvantaged Communities; projects that address climate change, ensure racial equity, and remove barriers to opportunity; projects that create workforce development opportunities, good labor standards, create jobs in underserved communities, and training and apprenticeship opportunities.**

ROADS, BRIDGES, MAJOR PROJECTS

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PROGRAM: RAISE Grants

Overview **- Provides a unique opportunity for DOT to invest in road, rail, transit and port projects that promise to achieve national objectives. Previously known as BUILD and TIGER Grants. $1 - $25M size range. $35M for areas of persistent poverty.**
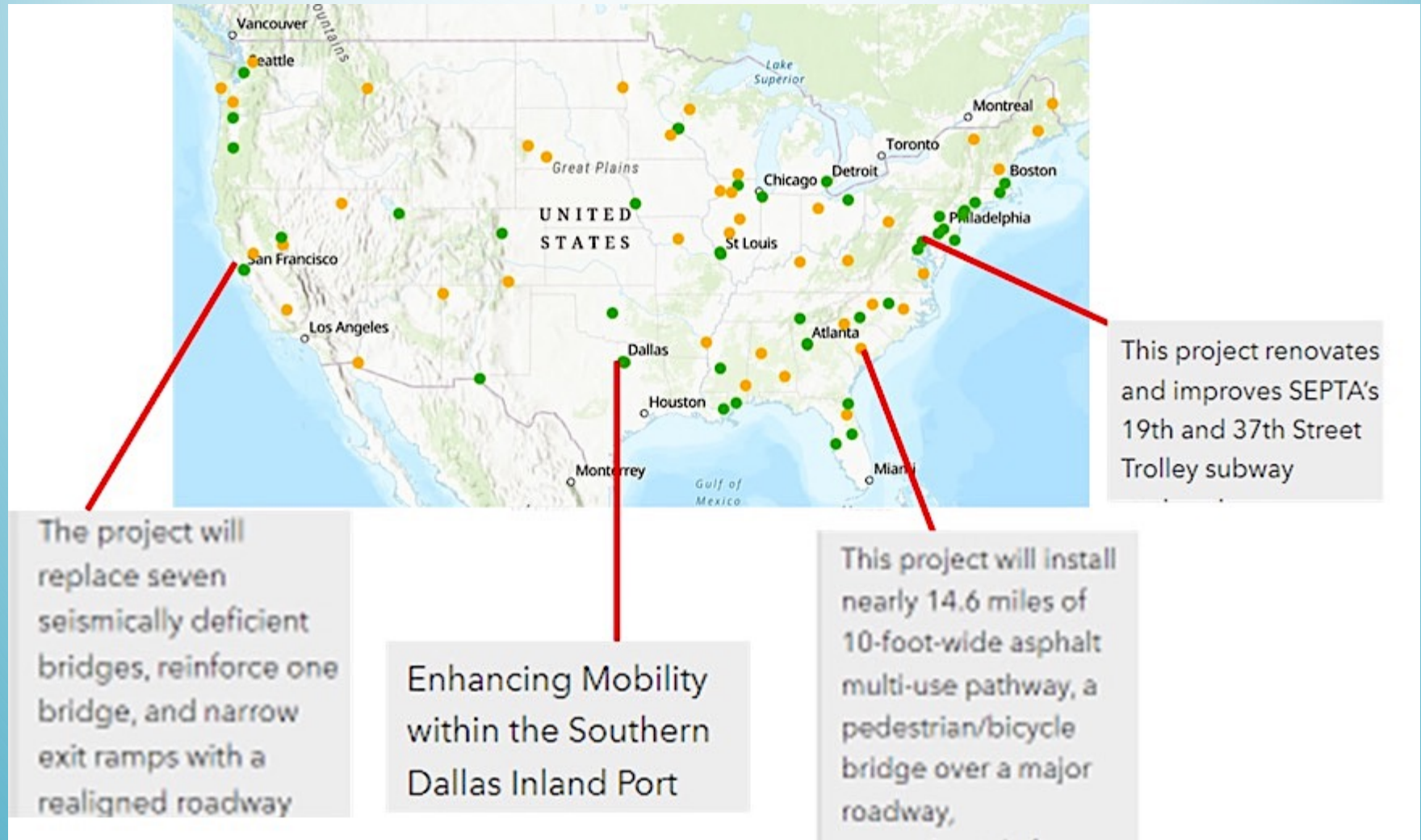
1. **FUNDING FLOW -- Competitive Grant -- a Notice of Funding Opportunity (NOFO) for $1.5 billion in grant funding <for 2022> through the RAISE program has been published. $1 - $25M grant size range. $35M for areas of persistent poverty. No more than 80% federal match to grant funds.**

ROADS, BRIDGES, MAJOR PROJECTS

❷ PROGRAM   RAISE Grants (Cont'd)

2. **VEHICLE** –   Part of the FY22 Multimodal Project Discretionary Grant Opportunity (MPDG)

3. **ELIGIBLE ENTITIES** -- Any public entity, including municipalities, counties, port authorities, and MPOs that support multi-modal, multi-jurisdictional projects that are more difficult to support through traditional programs.

4. **APPLICATION PROCESS --** ttp://www.transportation.gov/RAISEgrants/raise-info

5. **FUNDING CYCLE** -- Due 14 April 2022. Next round 2023 applications to open in the first quarter of 2022.

6. **FOR MORE INFORMATION --** http://www.transportation.gov/RAISEgrants/raise-info

ROADS, BRIDGES, MAJOR PROJECTS

Four RAISE Grants, 2021

The project will replace seven seismically deficient bridges, reinforce one bridge, and narrow exit ramps with a realigned roadway

Enhancing Mobility within the Southern Dallas Inland Port

This project will install nearly 14.6 miles of 10-foot-wide asphalt multi-use pathway, a pedestrian/bicycle bridge over a major roadway,

This project renovates and improves SEPTA's 19th and 37th Street Trolley subway

4 **The Bridge Formula Program (BFP)**

❖ **$28 billion for the Bridge Formula Program**
  ❖ **Provides formula funding to States to replace, rehabilitate, preserve, protect, and construct bridges on public roads.**

❖ **Includes a 15 percent ($4 billion) set aside for off-system bridges.**

❖ **These are bridges often owned and maintained by cities, counties, and towns—typically located on roads normally ineligible for federal highway funding.**

ROADS, BRIDGES, MAJOR PROJECTS

❺ The Bridge Investment Program

❖ **$12.5 billion for the Bridge Investment Program**

❖ **A competitive program to replace, rehabilitate, preserve, or protect some of the nation's most important and economically significant bridges on the National Bridge Inventory.**

❖ **Expected to help repair approximately 15,000 highway bridges**

ROADS, BRIDGES, MAJOR PROJECTS

❻ Bridge Funding Breakdown by State

❖ **Most Infrastructure programs have a breakdown of funding by state**

   ❖ **Many different paradigms used for funding breakdowns**

   ❖ **The following slide is an example – Bridge Investment Program by State**

      ❖ **1.   Minimum funding - $45M**

      ❖ **2.   CA – largest funding - $486M ($574.7) M**

❖ **NOTE:**

   ❖ **Bridge Investment Program – competitive funding**

   ❖ **Bridge Formula Program – funding by algorithm**

The Bridge Funding by State

INFRASTRUCTURE LAW, TITLE VIII OF DIVISION J, PUBLIC LAW 117-58

State	Bridge Formula Program		
	Bridge (Main)	Off-System Bridges	Total
Alabama	38,250,000	6,750,000	45,000,000
Alaska	38,250,000	6,750,000	45,000,000
Arizona	38,250,000	6,750,000	45,000,000
Arkansas	51,137,381	9,024,244	60,161,625
California	488,567,652	86,217,821	574,785,473
Colorado	38,250,000	6,750,000	45,000,000
Connecticut	102,990,424	18,174,781	121,165,205
Delaware	38,250,000	6,750,000	45,000,000
Dist. of Col.	38,250,000	6,750,000	45,000,000
Florida	44,772,107	7,900,960	52,673,067
Georgia	38,250,000	6,750,000	45,000,000
Hawaii	61,922,724	10,927,540	72,850,264
Idaho	38,250,000	6,750,000	45,000,000
Illinois	252,678,280	44,590,285	297,268,565
Indiana	63,361,353	11,181,415	74,542,768
Iowa	79,398,653	14,011,527	93,410,180
Kansas	38,250,000	6,750,000	45,000,000
Kentucky	80,367,406	14,182,484	94,549,890
Louisiana	186,214,294	32,861,346	219,075,640
Maine	38,250,000	6,750,000	45,000,000
Maryland	74,911,138	13,219,613	88,130,751
Massachusetts	206,998,770	36,529,195	243,527,965
Michigan	103,388,157	18,244,969	121,633,126
Minnesota	55,391,557	9,774,981	65,166,538
Mississippi	38,250,000	6,750,000	45,000,000
Missouri	88,982,221	15,702,745	104,684,966
Mississippi	38,250,000	6,750,000	45,000,000
Missouri	88,982,221	15,702,745	104,684,966
Montana	38,250,000	6,750,000	45,000,000
Nebraska	38,250,000	6,750,000	45,000,000
Nevada	38,250,000	6,750,000	45,000,000
New Hampshire	38,250,000	6,750,000	45,000,000
New Jersey	209,199,776	36,917,608	246,117,384
New Mexico	38,250,000	6,750,000	45,000,000
New York	347,626,950	61,345,932	408,972,882
North Carolina	83,888,881	14,803,920	98,692,801
North Dakota	38,250,000	6,750,000	45,000,000
Ohio	88,646,875	15,643,566	104,290,441
Oklahoma	48,959,111	8,639,843	57,598,954
Oregon	49,033,120	8,652,904	57,686,024
Pennsylvania	300,371,235	53,006,688	353,377,923
Puerto Rico	38,250,000	6,750,000	45,000,000
Rhode Island	43,341,710	7,648,537	50,990,247
South Carolina	50,357,611	8,886,637	59,244,248
South Dakota	38,250,000	6,750,000	45,000,000
Tennessee	68,556,517	12,098,209	80,654,726
Texas	98,056,920	17,304,162	115,361,082
Utah	38,250,000	6,750,000	45,000,000
Vermont	38,250,000	6,750,000	45,000,000
Virginia	98,252,567	17,338,688	115,591,255
Washington	111,077,373	19,601,889	130,679,262
West Virginia	93,174,236	16,442,512	109,616,748
Wisconsin	38,250,000	6,750,000	45,000,000
Wyoming	38,250,000	6,750,000	45,000,000
Total	4,511,374,999	796,125,001	5,307,500,000

6

National Highway Performance Program

❖ **National Highway Performance Program**

  ❖ **$148 Bill to increase the resiliency of the National Highway System to mitigate the cost of damages from sea level rise, extreme weather events, flooding, wildfires, or other natural disasters.**

❻ PROGRAM: National Highway Performance Program (NPP) (Cont'd)

1. **FUNDING FLOW** –First round of funds (Fiscal Year 2022) were released to state transportation departments in December 2021. Next round of funding (Fiscal Year 2023) to be released to state transportation departments in October

2. **ELIGIBLE ENTITIES** -- Highway and bridge projects, generally on the National Highway System, plus certain bridge projects on non-National Highway System federal-aid highways

3. **FUNDING CYCLE** --$28.439B for 2022 and $29.008B for 2023 - Funds released in Oct. for coming year

ROADS, BRIDGES, MAJOR PROJECTS

❼ Metropolitan Planning Organizations

❖ **The Transportation Infrastructure Finance and Innovation Act Program**
  - ❖ **Provides Federal assistance for eligible surface transportation projects.**

❖ **Eligible Uses: Surface transportation projects, including highway, transit, intercity passenger rail, freight rail, intermodal freight transfer facilities, modifications inside a port terminal, and electrification of buses, ferries, trains, and transit-oriented development.**

❼ PROGRAM: Metropolitan Planning Organizations

Overview -- **Establishes a cooperative, continuous, and compre-hensive framework for making transportation investment decisions in metropolitan areas. Looking at variables such as travel demand forecasts, observed data, and housing patterns.**

1. **FUNDING FLOW -- $438M – 2022 and $447M - 2023**

2. **VEHICLES – Metropolitan Planning Organizations Grants**

3. **ELIGIBLE ENTITIES -- Local-and-regional-partners in metropolitan areas with a population over 50,000, with the responsibility for transportation planning. The IIJA act permits more than 1 in an area**

4. **For More Info -- h**ttps://www.fhwa.dot.gov/planning/index.cfm

ROADS, BRIDGES, MAJOR PROJECTS

❼ Congestion Mitigation & Air Quality Improvement Program

❖ **Congestion Mitigation & Air Quality Improvement Program**
   ❖ **To reduce congestion and improve air quality in areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter**

ROADS, BRIDGES, MAJOR PROJECTS

7 **PROGRAM: Congestion Mitigation & Air Quality Improvement Program**

1. **FUNDING FLOW** -- Total $13.200B with $2.536B – 2022 and $2,587B - 2023. First round of funds (Fiscal Year 2022) was released December 2021. Next round of funding (Fiscal Year 2023) to be released October 2022.

2. **VEHICLE** – – Formula Grant to States

3. **ELIGIBLE ENTITIES** -- Funding goes to state depts of transportation. What happens then varies from state to state. e.g., some state depts of trans. select the projects they want to fund. Others ask Metropolitan Planning Organizations to submit proposals.

ROADS, BRIDGES, MAJOR PROJECTS

❼ PROGRAM: Congestion Mitigation & Air Quality Improvement Program

4. FOR MORE INFORMATION --
https://www.fhwa.dot.gov/environment/air_quality/cmaq/

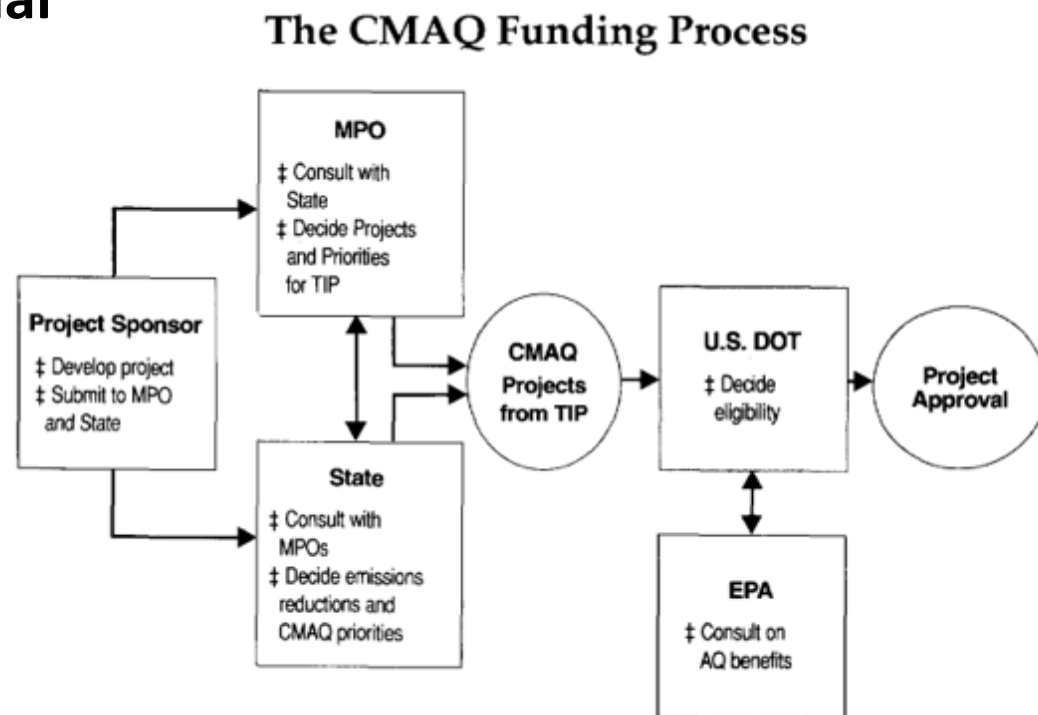**5.** FUNDING CYCLE --Annual

The CMAQ Funding Process

The CMAQ Funding Process

Project Sponsor
- ‡ Develop project
- ‡ Submit to MPO and State

MPO
- ‡ Consult with State
- ‡ Decide Projects and Priorities for TIP

State
- ‡ Consult with MPOs
- ‡ Decide emissions reductions and CMAQ priorities

CMAQ Projects from TIP

U.S. DOT
- ‡ Decide eligibility

EPA
- ‡ Consult on AQ benefits

Project Approval

Illustration 4

ROADS, BRIDGES, MAJOR PROJECTS

2
CLEAN ENERGY AND POWER

$75.0 bill

Four Clean Energy Programs

1. **Delivering Clean Power ($21.3 billion)**

2. **Clean Energy Demonstrations ($21.5 billion)**

3. **Energy Efficiency and Weatherization Retrofits ($6.5 billion)**

4. **Clean Energy Manufacturing and Workforce Development ($8.6 billion)**

Goal: 100 percent carbon pollution free electricity by 2035.

CLEAN ENERGY AND POWER

Delivering Clean Power

❶

❖ **$16.5 Billion for "Building a Better Grid" initiative to accelerate deployment of <u>new transmission lines</u> that will connect Americans to cleaner, cheaper electricity**

❖ **$6.0 Bill. for Civil Nuclear Credit Program and $700 M for Upgrades to hydropower**

❖ **Will improve the resilience and reliability of the grid. Will bring wind power generated in Kansas to Chicago, St. Louis, Cincinnati and Atlanta**

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Building a Better Grid

1

PROGRAM: Delivering Clean Power

1. **OVERVIEW – To accelerate the deployment of new transmission lines that will connect Americans to cleaner, cheaper electricity.**

2. **ELIGIBLE ENTITIES – Community and Industry stakeholders**

3. **Projects may include: utility pole upkeep and removal of trees and other vegetation affecting grid performance; undergrounding electrical equipment; relocating or reconductoring powerlines; improvements to make the grid resistant to extreme weather; increasing fire resistant components; controls, and advanced modeling for real-time situational awareness microgrids and energy Better Grid Initiative**

CLEAN ENERGY AND POWER

❶   **PROGRAM: Delivering Clean Power**

4. **APPLICATION PROCESS -- TBA**

5. **FUNDING CYCLE --   Notice of Intent on the "Building a Better Grid Initiative" has been issued for: coordination; enhancing transmission planning to identify areas of greatest need; deploying federal financing tools to reduce project development risk; facilitating an efficient transmission permitting process; and performing transmission-related research and development**

6. **FOR MORE INFORMATION --www.energy.gov/bipartisan-infrastructure-law-programs**

❷ DOE Plans to Buy Capacity on Proposed Interstate Power Lines

❖ **The first step for the $2.5 billion Transmission Facilitation Program (TFP) of the IIJA**

Clean Energy Demonstrations $21.5B

❷
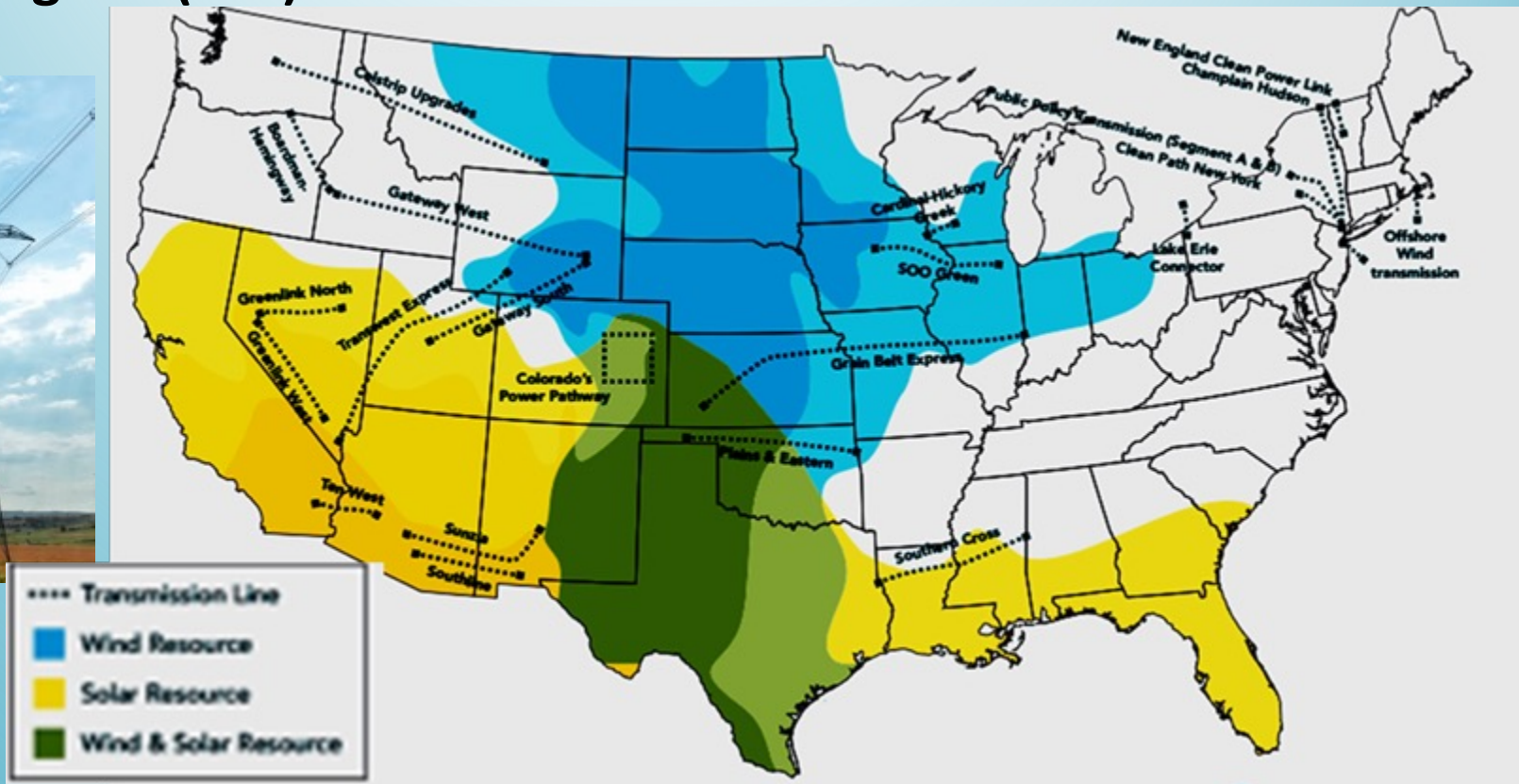
❖ **Clean Energy Demonstration Projects like:**

    ❖ **Clean hydrogen**

    ❖ **Carbon Capture**

❖ **Grid-Scale Energy Storage -- TBA**
❖ **Advanced Nuclear Reactors -- TBA**

CLEAN ENERGY AND POWER

❷ Carbon Capture

PROGRAM: Clean Energy Demonstration

1. **FUNDING FLOW – $2.5B**

2. **VEHICLES – Grant or Coop Agreement**

3. **ELIGIBLE ENTITIES --Industry, Research, Utilities, and State / Local govt**

4. **APPLICATION PROCESS -- TBA**

5. **FUNDING CYCLE --TBD**

6. **FOR MORE INFORMATION -- TBA**

CLEAN ENERGY AND POWER

Clean Hydrogen
$8B

PROGRAM: **Clean Energy Demonstration - To support the development of at least 4 regional clean hydrogen hubs to improve clean hydrogen production, processing, delivery, storage, and end use.**

1. **FUNDING FLOW –$8B**

2. **VEHICLES – – Clean Hydrogen Hubs Grant or Coop Agreementt**

3. **ELIGIBLE ENTITIES -- Industry, Research, Utilities, and State / Local govt, Universities**

4. **APPLICATION PROCESS – TBA, Summer of 2022**

5. **FUNDING CYCLE -- Opens summer 2022**

6. **FOR MORE INFORMATION -- TBA**

CLEAN ENERGY AND POWER

Energy Efficiency and Weatherization Retrofits

③

❖ **$6.5 billion to reduce energy costs for American families, businesses, schools, communities and Tribal governments**

❖ **And to cut carbon and air pollution, which disproportionately harms lower-income communities and communities of color.**

CLEAN ENERGY AND POWER

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ORGANIZATIONAL COMMUNICATIONS INC.

3 **PROGRAM: Energy Efficiency and Weatherization Retrofits**

1. **FUNDING FLOW** --Much of this funding will flow through existing State Energy Offices, local governments, or weatherization and housing agencies

2. **VEHICLES** – $550 million in the Energy Efficiency and Conservation Block Grant Program (EECBG) and $500 million in the State Energy Program to provide grants to communities, cities, states, U.S. territories, and Indian tribes to develop and implement clean energy programs and projects to create jobs.
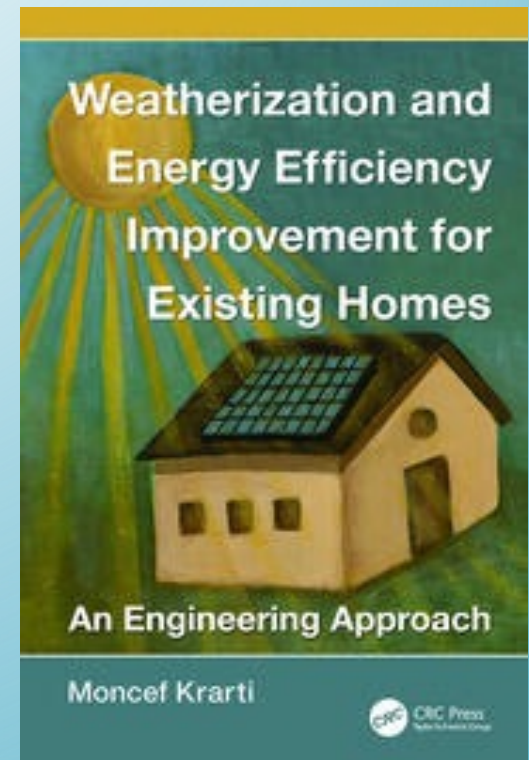
❸ PROGRAM: Energy Efficiency and Weatherization Retrofits

3. **APPLICATION PROCESS** -- Department of Energy will issue requests for information, notices of intent, webinars, and other stakeholder engagement opportunities.

4. **FUNDING CYCLE** --Funds release est. Q1 2022

5. **FOR MORE INFORMATION** -- https://www.energy.gov/bil/ bipartisan-infrastructure-law-homepage

Weatherization and Energy Efficiency Improvement for Existing Homes

An Engineering Approach

Moncef Krarti

CRC Press

❹ Battery Manufacturing and Recycling

❖ **$8.6 billion investments in clean energy technologies like batteries to make the energy technologies of the future.**

❖ **DOE funds will fund production of critical minerals, sourcing materials for manufacturing, and even recycling critical materials without new extraction/mining.**

❖ **Digital mapping of US mineral resources. USGS will lead a mapping effort to map critical mineral resources needed for batteries.**

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❹ Battery Manufacturing and Recycling

1. **FUNDING FLOW -- $3 Bill.**

2. **VEHICLES – Grant**

3. **ELIGIBLE ENTITIES --**

   1 **Institutions of higher education.**

   2. **National Laboratories.**

   3. **Nonprofit and for-profit private entities.**

   4. **State and local governments.**

   5. **Consortia of any of the above**

5. **APPLICATION PROCESS -- TBA**

6. **FUNDING CYCLE --- Est. app. opening date, 3rd quarter 2022**
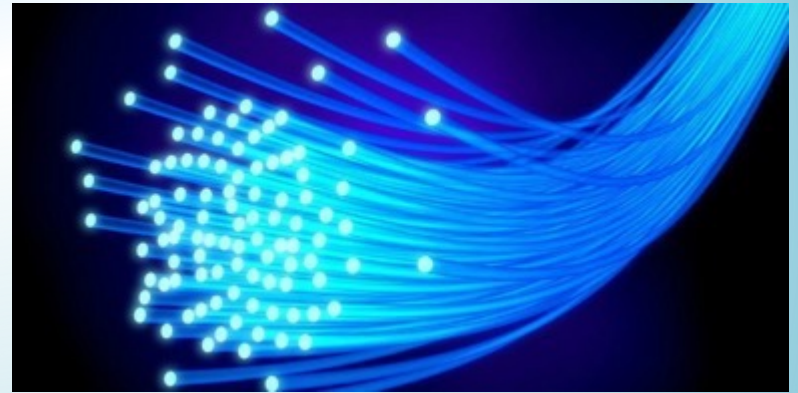
CLEAN ENERGY AND POWER

3
BROADBAND

$64.4 bill

Broadband

- ❖ **$64.4 Billion for Broadband**

- ❖ **Grants for devices, such as laptops and tablets through the National Telecommunications and Information Admin.**

- ❖ **Low-income Americans get subsidies**

- ❖ **FCC Emergency Connectivity Fund for distance learning efforts for schools and libraries**

- ❖ **US Dept of Education funds state departments of education**

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BROADBAND

4 Programs:

1. The Broadband Equity, Access, and Deployment (BEAD) Program

2. The Digital Equity Act Program

3. The State Broadband Program

4. The FCC's Emergency Connectivity Fund (ECF)

FCC Requirements for Broadband Internet

25 Mbps ↓ Download

3 Mbps ↑ Upload

The Broadband Equity, Access, and Deployment (BEAD) Program

❶
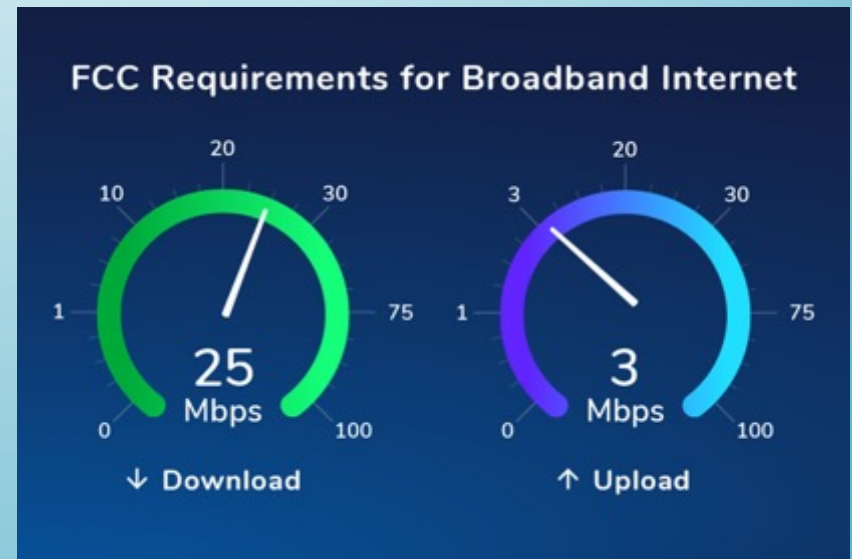
- ❖ **$42.45 billion for unserved locations (with no access to 25 Mbps up/3 Mbps down, or No access to 100/20 Mbps)**

- ❖ **Community anchor institutions (without gigabit connections) like schools, libraries, healthcare providers, and community colleges**

- ❖ **Eligible entities must also prioritize persistent poverty / high-poverty areas, speed of proposed network, build time and demonstrated records on compliance with federal labor & employment laws.**

- ❖ **Eligible entities are required to offer a low-cost plan to all their subscribers.**
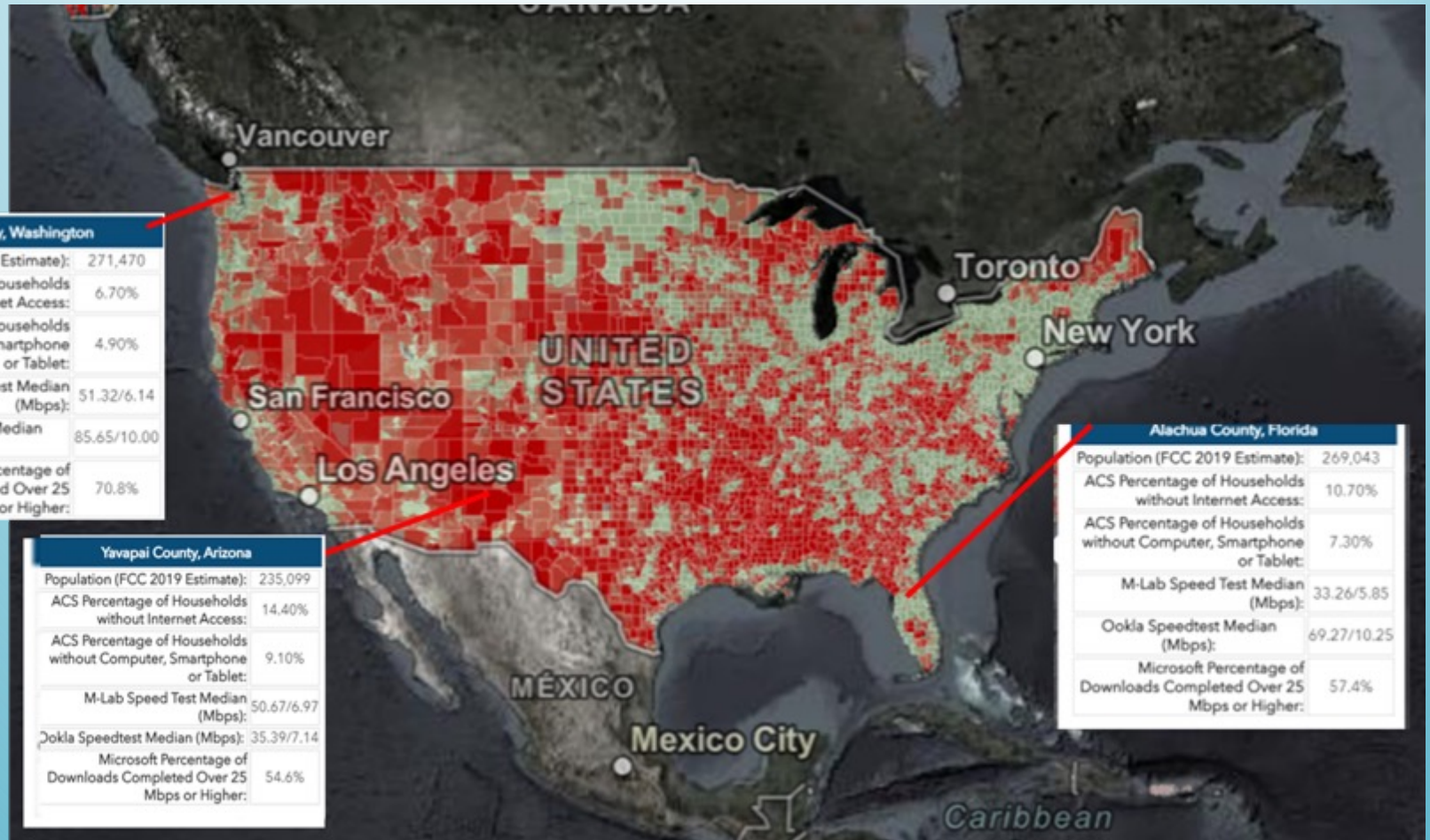
BROADBAND

❶ The Broadband Equity, Access, and Deployment (BEAD) Program (Cont'd)

1. **FUNDING FLOW** -- Most of funding goes through the National Telecommunications and Information Admin. of DOC

2. **VEHICLES** – – States will distribute funds to localities thru competitive grants

3. **ELIGIBLE ENTITIES** -- Each state, including the District of Columbia and Puerto Rico, will receive at least $100 mill for broadband deployment, mapping, and adoption projects

4. **FUNDING FLOW** -- starts with planning and local outreach. After FCC releases mapping of availability, states propose projects based on greatest needs.

BROADBAND

FCC has Broadband Need Map of the USA

❖ **Broadband statistics for each county**

Kitsap County, Washington	
Population (FCC 2019 Estimate):	271,470
ACS Percentage of Households without Internet Access:	6.70%
ACS Percentage of Households without Computer, Smartphone or Tablet:	4.90%
M-Lab Speed Test Median (Mbps):	51.32/6.14
Ookla Speedtest Median (Mbps):	85.65/10.00
Microsoft Percentage of Downloads Completed Over 25 Mbps or Higher:	70.8%

Yavapai County, Arizona	
Population (FCC 2019 Estimate):	235,099
ACS Percentage of Households without Internet Access:	14.40%
ACS Percentage of Households without Computer, Smartphone or Tablet:	9.10%
M-Lab Speed Test Median (Mbps):	50.67/6.97
Ookla Speedtest Median (Mbps):	35.39/7.14
Microsoft Percentage of Downloads Completed Over 25 Mbps or Higher:	54.6%

Alachua County, Florida	
Population (FCC 2019 Estimate):	269,043
ACS Percentage of Households without Internet Access:	10.70%
ACS Percentage of Households without Computer, Smartphone or Tablet:	7.30%
M-Lab Speed Test Median (Mbps):	33.26/5.85
Ookla Speedtest Median (Mbps):	69.27/10.25
Microsoft Percentage of Downloads Completed Over 25 Mbps or Higher:	57.4%

❷ The Digital Equity Act Program

❖ <u>Digital Equity Act Programs</u> to close the digital divide and promote equity and digital inclusion ($2.75Bill)

  ❖ Information technology capacity needed for "full participation in the society and economy of the United States"

  ❖ And for Tribal Governments: Tribal Colleges or Universities; Tribal Organizations; Native Corporations; and The Native Hawaiian Community

❖ Follow: Notices of Funding Opportunity (NOFOs) for the Broadband Equity, Access, and Deployment (BEAD) Program and the Digital Equity Act Programs.

BROADBAND

Digital Equity Act Program

❷

1. **FUNDING FLOW** -- DOC to states to winning local bidders

2. **VEHICLES** – Digital Equity Competitive Grant Program

3. **ELIGIBLE ENTITIES** -- Political subdivisions or instrumentality of a state responsible for supervising adult education or housing

4. **APPLICATION PROCESS** -- TBA

5. **FUNDING CYCLE** -- Opens summer 2022

6. **FOR MORE INFORMATION** -- TBA

Middle Mile Infrastructure $1 Bill

3

❖ **Enabling Middle Mile Infrastructure**
  ❖ **"To reduce the cost of connecting unserved and underserved areas . . . and to promote broadband connection resiliency ."**

  ❖ **State Broadband Program information at:**
    ❖ **https://broadbandusa.ntia.doc.gov/**
    ❖ **https://broadbandusa.ntia.doc.gov/resources/federal/federal-funding**

❖ **For Individuals living in households earning at or below 150% of the poverty line:**
  ❖ **Veterans, aging individuals, Incarcerated individuals, Individuals with a language barrier**

BROADBAND

Middle Mile Infrastructure Program

3

1. **FUNDING FLOW** -- **Given to states by formula for distribution to local level by competitive grant**

2. **VEHICLES** – **Middle Mile Grants Program**

3. **ELIGIBLE ENTITIES** -- **states, political subdivisions, industry, utilities, nonprofits, regional planning councils**

4. **APPLICATION PROCESS** -- **TBA**

5. **FUNDING CYCLE** -- **Estimated application opening date, 2nd quarter 2022**

6. **FOR MORE INFORMATION** -- **https://broadbandusa.ntia.doc.gov/resources/grant-programs/enabling-middle-mile-broadband-infrastructure-program**

BROADBAND

Affordable Connectivity Program (ACP) $14.2B

4

- ❖ **The FCC benefit program helps ensure that households can afford the broadband they need for work, school, healthcare.**

- ❖ **Provides a discount of up to $30 per month toward internet service for eligible households, and up to $75 per month for households on qualifying Tribal lands.**

- ❖ **Eligible households can also receive a one-time discount of up to $100 to purchase a laptop, desktop computer, or tablet. Limited to one monthly service discount and one device per household.**

- ❖ **Household income is at or below 200% of the Federal Poverty Guidelines, or if in the National School Lunch Program or the School Breakfast Program, including SNAP, Medicaid, and Federal Public Housing Assistance.**

Affordable Connectivity Program (ACP) $14.2B

4

1. **FUNDING FLOW** -- – From FCC directly to participating providers such as Internet Service Providers (ISP) to apply to the bills of low-income individuals.

2. **VEHICLES** – ACP subsidy grants

3. **ELIGIBLE ENTITIES** -- ISPs who participate and low-income families. Individuals can get $30 / month for internet bill and $100 toward purchase of a laptop or device.

4. **APPLICATION PROCESS** -- Go to AffordableConnectivity.gov or contact the ISP provider

5. **FUNDING CYCLE** -- Contact local ISP

6. **FOR MORE INFORMATION** -- https://www.fcc.gov/acp

BROADBAND

FCC Approved ISP List

Alaska

		Offering Connected Devices (Laptop, Desktop, or Tablet)	
Lingo	Fixed		
Matanuska Telephone Association	Fixed		
Microcom	Fixed		
Mukluk Telephone Company	Fixed		
NewPhone Wireless	Mobile		
North American Local	Mobile	✔	
Nushagak Electric & Telephone Cooperative	Fixed		
OTZ Telephone Cooperative	Fixed/Mobile		
PCs for People	Mobile	✔	
Sano Health	Mobile		
Southeast Communication Services	Fixed		
SPITwSPOTS	Fixed		
SWA Connect	Fixed/Mobile	✔	
TracFone Wireless	Mobile	✔	
Tone Communication Services	Fixed/Mobile	✔	
Torch Wireless	Mobile	✔	
Verizon	Fixed		
Windy City Broadband	Fixed/Mobile	✔	

https://www.fcc.gov/affordable-connectivity-program-providers

4
ENVIRONMENTAL REMEDIATION

$21.6 bill

ENVIRONMENTAL REMEDIATION

4 Programs:

1. **Abandoned Mine Land Reclamation ($11.3 billion)**

2. **Orphan Oil & Gas Well Plugging ($4.7 billion)**

3. **Superfund Site Cleanup ($3.5 billion)**

4. **Brownfield Remediation and Revitalization ($1.5 billion)**

TOTAL: $21 bill. in environmental remed.

❶ Abandoned Mine Land Reclamation

❖ **$11.3 billion to the Depart. of Interior to provide grants to states and Tribes for abandoned coal mine land reclamation.**

❖ **Funds disbursed by the Office of Surface Mining Reclamation and Enforcement (0SMRE)**

❖ **Enables the OSMRE to provide employment for current and former coal industry workers.**

❶ **Abandoned Mine Land Reclamation**

OVERVIEW: Funds for cleaning up abandoned coal mine sites and related problems, that pose a threat to public health and safety, and restoring land and water resources degraded by the effects of past coal mining

1. **FUNDING FLOW** -- To states proportional to tons of coal produced before 1977

2. **VEHICLES** – Abandoned Mine land Reclamation Grants administered by DOI's Office of Surface Mining Reclamation and Enforcement (OSMRE)

3. **ELIGIBLE ENTITIES** -- States with land reclamation problems resulting from coal mining

ENVIRONMENTAL REMEDIATION

① Abandoned Mine Land Reclamation (Cont'd)

4. **APPLICATION PROCESS --** **States receive funds automatically by formula**

5. **FUNDING CYCLE** **– First distribution announced Feb. 2022 – Overall TN is big winner with $5B and WV is 2nd with $1.7B**

6. **FOR MORE INFORMAMTION --** **https://www.osmre.gov/bil**

❷ Orphan Oil & Gas Well Plugging $3.5 Bill

❖ **$4.7 billion to the Depart. of Interior for oil and gas well plugging: $250 million for wells on federal lands, $4.3 billion for wells on state and private lands, and $150 million for wells on Tribal lands.**

❖ **Allows funding to identify, prioritize, and plug wells. Each state may receive up to $25 million initial funding for eligible activities that will help carry out these provisions.**

❷ Orphan Oil & Gas Well Plugging (Cont'd)

1. **FUNDING FLOW** – provides $4.7 billion to the Department of Interior to establish three new oil and gas well plugging, remediation and reclamation grant programs

2. **ELIGIBLE ENTITIES** -- Funds include initial, formula, and performance-based grants for states and tribes, as well as funding for technical assistance to help identify, prioritize, and plug wells. Virtual engagements to gain perspectives from Indian Tribes with a history of oil and gas development were held in February, 2022.

3. FOR MORE INFORMATION -- https://www.doi.gov/pressreleases/interior-department-releases-implementation-guidance-states-infrastructure-law-efforts

ENVIRONMENTAL REMEDIATION

Superfund Site Cleanup

③

❖ **$3.5 billion in new funds to the Environmental Protection Agency to fund clean-ups and remedial actions on Superfund sites.**

❖ **Waives the state cost-share requirements for this new funding and encourages EPA to consider the unique Superfund needs of Tribal communities.**

❖ **EPA has already announced $1 billion of this funding will clear the backlog of 49 previously unfunded sites, while accelerating cleanup at dozens of locations across the country**

❸ **Superfund Site Cleanup (Cont'd)**

1. **FUNDING FLOW – To fund cleanup projects at 49 Superfund sites on the National Priorities List part of a backlog of Superfund sites awaiting funding.**

2. **More than 60 percent of the sites are in historically underserved communities. Some of these sites have been waiting for cleanup funds for over four years.**

3. **FOR MORE INFORMATION -- https://www.epa.gov/superfund/superfund-sites-new-construction-projects-receive-bipartisan-infrastructure-law-funding**

❸ Top 10 Superfund Site Cleanup Sites (Cont'd)

EPA Region	State	Site Name
1	Maine	Callahan Mining Corp
1	Vermont	Commerce Street Plume
1	Vermont	Ely Copper Mine
1	Connecticut	Scovill Industrial Landfill
2	New Jersey	Diamond Head Oil Refinery Div.
2	New York	Eighteenmile Creek
2	New York	Facet Enterprises, Inc.
2	New Jersey	Former Kil-Tone Company
2	New Jersey	Garfield Ground Water Contamination
2	New Jersey	Kauffman & Minteer, Inc.

ENVIRONMENTAL REMEDIATION

Brownfield Remediation and Revitalization Grant Program

4

❖ **Brownfield remediation means removing or sealing off points of contamination within a property in order for the property to be used again without health concerns**

❖ **$1.5 billion to the Environmental Protection Agency to expand its existing brownfield remediation and revitalization grant programs.**

$1.5 billion to EPA to expand its brownfield remediation and revital-ization grant programs. $1.2 billion of the funding is for brownfield as-sessment grants, cleanup grants, technical assistance, environmental remediation job training, and reuse/economic revitalization.

ENVIRONMENTAL REMEDIATION

④ **Brownfield Remediation and Revitalization Grant Program (Cont'd)**

1. **FUNDING FLOW** -- EPA's Brownfields Program provides direct funding for brownfields assessment, cleanup, revolving loans, environmental job training, technical assistance, training, and research.

2. **APPLICATION PROCESS** -- FY 2022 Section 128(a) State and Tribal Response Programs Bipartisan Infrastructure Law funds - requests are due June 3, 2022. $300 million of the funds will flow to support state and Tribal brownfield clean-up programs

3. **FOR MORE INFORMATION** -- https://www.epa.gov/brownfields/types-epa-brownfield-grant-funding

ENVIRONMENTAL REMEDIATION

5 AIRPORTS

$25.0 bill
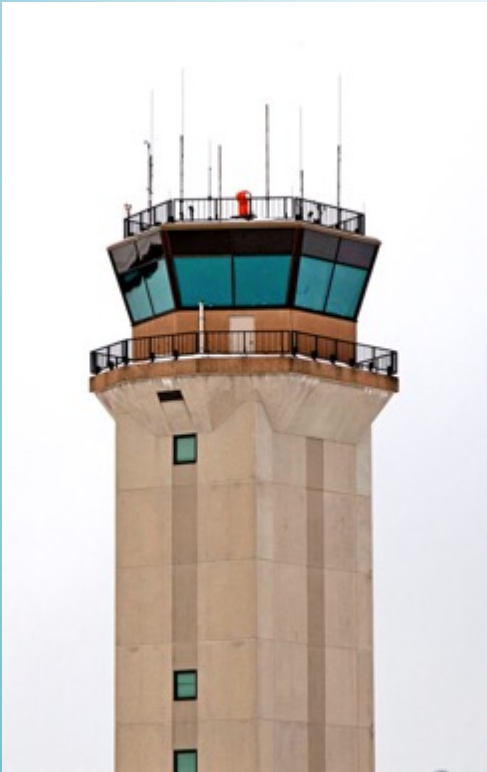
Three Airport Programs

Three Airport Programs:

1. **Air Traffic Facilities and Equipment ($5 billion)**

2. **The Airport Infrastructure Grant Program ($15 billion)**

3. **The Airport Terminal Program ($5 billion)**

AIRPORTS

❶ # Air Traffic Facilities and Equipment

❖ **Update and upgrade equipment including landing and navigational aids**

❖ **Improve safety, security, and environmental standards at facilities.**

❖ **$200M of this funding must be allocated to contract tower facilities.**

❖ **Funds can be invested in runways, taxiways, safety and sustainability projects, as well as terminals, airport-transit connections and roadway projects**

AIRPORTS

❶ Air Traffic Facilities and Equipment (cont'd)

1. **FUNDING FLOW** -- **$1B for 2022 for FAA-owned terminal and ATC facilities**

2. **VEHICLES** – **DOT FAA Air Traffic Facilities and Equipment Program**

3. **ELIGIBLE ENTITIES** -- **Commercial Vendors**

4. **APPLICATION PROCESS** -- **by Contract**

5. **FUNDING CYCLE** -- **Annual**

6. **FOR MORE INFORMATION** – **www.faa.gov/bil/air-traffic-facilities**

AIRPORTS

❷ The Airport Infrastructure Grants ($15 billion)
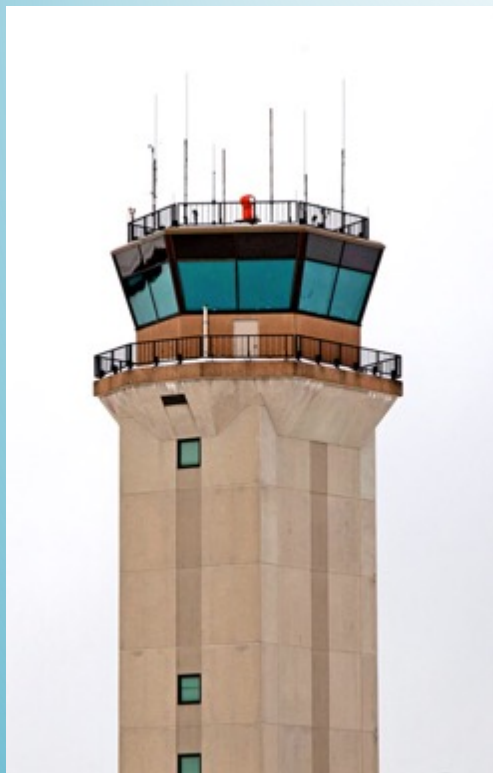
❖ **Update and upgrade equipment including landing and navigational aids**

❖ **Improve safety, security, and environmental standards at facilities.**

❖ **$200M of this funding must be allocated to contract tower facilities.**

❖ **Funds can be invested in runways, taxiways, safety and sustainability projects, as well as terminals, airport-transit connections and roadway projects**

AIRPORTS

❷ Airport Infrastructure Grants (Cont'd)

1. **FUNDING FLOW -- In May 2022 FAA will issue the Notice of Funding Opportunity for the competitive $20 million (annual) airport-owned airport traffic contract tower program**

2. **VEHICLES – Airport Infrastructure Competitive Grants Program**

3. **ELIGIBLE ENTITIES -- Public agency, Private entity, state and Tribal Government owning a public use National Plan of Integrated Airport Systems airport**

4. **APPLICATION PROCESS -- Guidance expected soon**

5. **FUNDING CYCLE -- For FY22, $2.89 billion has been made available for U.S. airports.**

6. **FOR MORE INFORMATION – https://www.faa.gov/bil/airport-infrastructure**

Airport Terminal Program

③

❖ **Objective: Fund safe, sustainable and accessible airport terminals, on-airport rail access projects and airport- owned airport traffic control towers**

❖ **Amount: $5B – Grants - $1B /yr for 5 yrs**

❖ **First $1 Billion: for airfield safety through terminal relocation, replace aging facilities, increase capacity, encourage competition, improve energy efficiency (including LEED accreditation standards) and increase or improve access to passengers with disabilities and historically disadvantaged populations.**

❸ # Airport Terminal Program (Cont'd)

1. **FUNDING FLOW** -- **FY 2022 funding is now closed**

2. **VEHICLES** – **Airport Terminal Program GRANT**

3. **ELIGIBLE ENTITIES** -- **Public agency, Private entity, state and Tribal Government owning a public use National Plan of Integrated Airport Systems airport   xxx**

4. **APPLICATION PROCESS** -- **FY 2023**

5. **FUNDING CYCLE** -- **$1B / year**

6. **FOR MORE INFORMATION** -- **https://www.faa.gov/bil/airport-terminals**

AIRPORTS

FY 2022 BIL/IIJA Airport Funding by State

California

FY2022 Bipartisan Infrastructure Law Airport Allocations
December 16, 2021

State	LOCID	Airport Name	City	Total
CA	AJO	Corona Municipal	Corona	$ 159,000
CA	CEC	Jack McNamara Field	Crescent City	$ 295,000
CA	DAG	Barstow-Daggett	Daggett	$ 110,000
CA	EDU	University	Davis	$ 159,000
CA	DWA	Yolo County	Davis/Woodland/Winters	$ 159,000
CA	DLO	Delano Municipal	Delano	$ 110,000
CA	1O6	Dunsmuir Municipal-Mott	Dunsmuir	$ 110,000
CA	EMT	San Gabriel Valley	El Monte	$ 295,000
CA	EKA	Murray Field	Eureka	$ 159,000
CA	O89	Fall River Mills	Fall River Mills	$ 110,000
CA	L18	Fallbrook Community Airpark	Fallbrook	$ 159,000
CA	F34	Firebaugh	Firebaugh	$ 110,000
CA	A30	Scott Valley	Fort Jones	$ 159,000
CA	FOT	Rohnerville	Fortuna	$ 110,000
CA	F72	Franklin Field	Franklin	$ 110,000
CA	FAT	Fresno Yosemite International	Fresno	$ 4,674,140
CA	FCH	Fresno Chandler Executive	Fresno	$ 295,000
CA	FUL	Fullerton Municipal	Fullerton	$ 295,000
CA	O16	Garberville	Garberville	$ 110,000
CA	E36	Georgetown	Georgetown	$ 110,000
CA	GOO	Nevada County	Grass Valley	$ 159,000
CA	E45	Pine Mountain Lake	Groveland	$ 110,000

❶ ❖ **Amount per airport already established FY22, $2.89 billion has been made available to U.S. airports around the nation**

Eligible Airports for BIL/IIAA 2022 Funds

Airport: Syracuse Hancock International
State: NY
City: Syracuse
Total Amount: $5,301,945

Airport: San Diego International
State: CA
City: San Diego
Total Amount: $24,160,074

Airport: Charlotte/Douglas International
State: NC
City: Charlotte
Total Amount: $43,247,316

Airport: George Bush Intercontinental/Houston
State: TX
City: Houston
Total Amount: $40,159,818
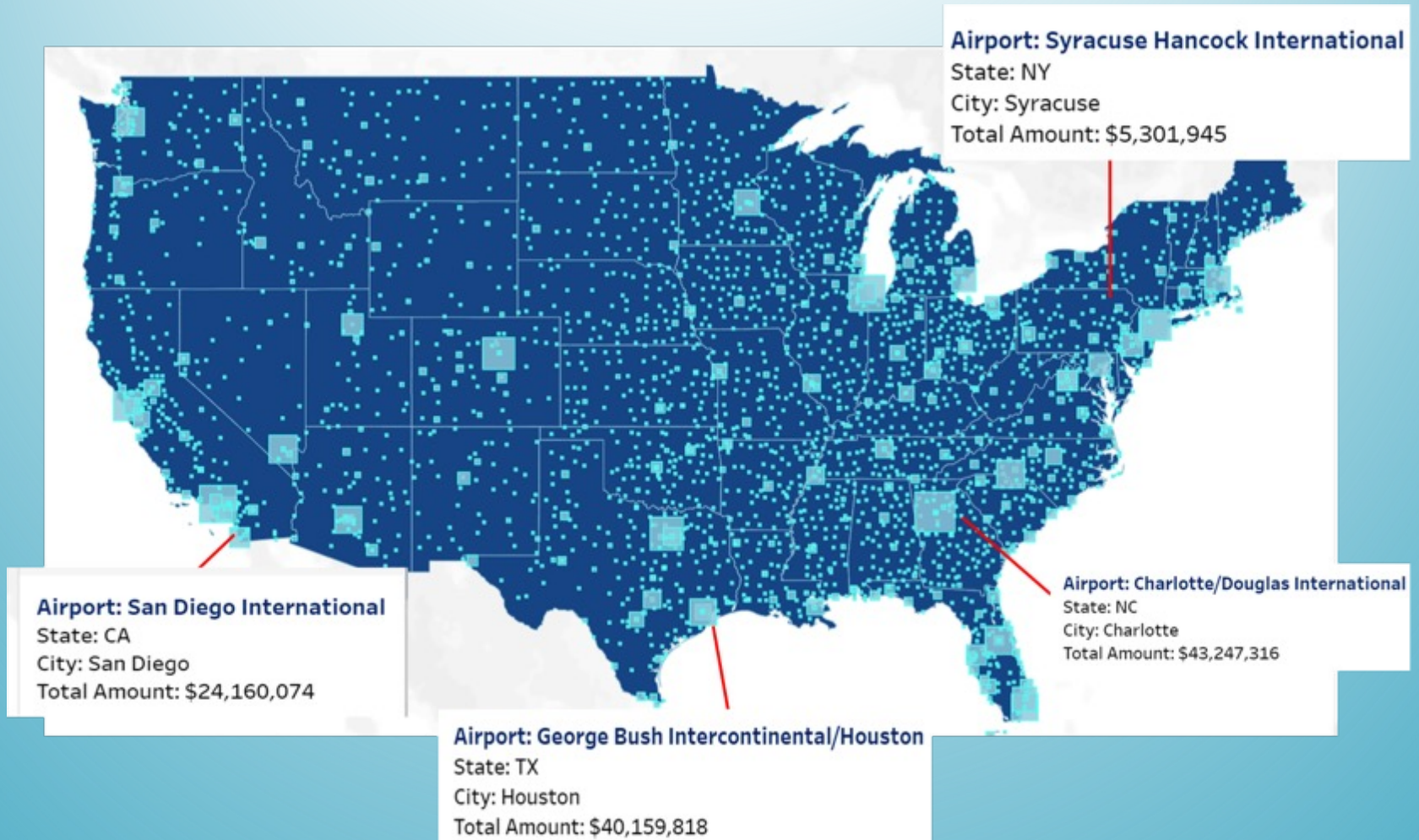
AIRPORTS

Four Other IIJA Programs

Four Other Infrastructure Investment and Jobs Act (IIJA)

Technology	Funding
Airports and FAA Facilities	$25.00
Broadband	$64.40
Clean Energy and Power	$75.00
➊ Electric Vehicles, Buses, Ferries	$24.80
Environmental Remediation	$21.60
Passenger and Freight Rail	$66.00
➋ Ports and Waterways	$16.70
Public Transportation	$82.10
➌ Resilience	$42.90
Roads, Bridges and Major Projects	$318.90
Safety	$37.70
➍ Water	$64.30
Other	$8.70
Total*	$847.90

❖ **Alphabetically, by Dollars**

①

Electric Vehicles

EV Chargers

❖ **$7.5 billion to build out a national network of EV chargers along highway corridors**

❖ **500,000 EV chargers to accelerate the adoption of EVs, reduce emissions, improve air quality**

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❷

Ports and Waterways

❖ **$17 billion in port infrastructure and waterways**

❖ **The Army Corps of Engineers' funding for coastal ports, inland waterways, and to dredge Federal navigation projects**

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❸

Global Warming Resilience

- ❖ **$50 billion to protect against droughts, heat, floods and wildfires**

- ❖ **A major investment in weatherization**

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4 Deliver Clean Water

❖ **$55 billion to expand access to clean drinking water for households, businesses, schools, and childcare centers all across the country.**

❖ **Today up to 10 million American households and 400,000 schools and childcare centers lack safe drinking water.**

❖ **Eliminate lead service pipes**

❖ **Include Tribal Nations and disadvantaged**

The Tsunami is Coming

https://www.fcc.gov/affordable-connectivity-program-providers
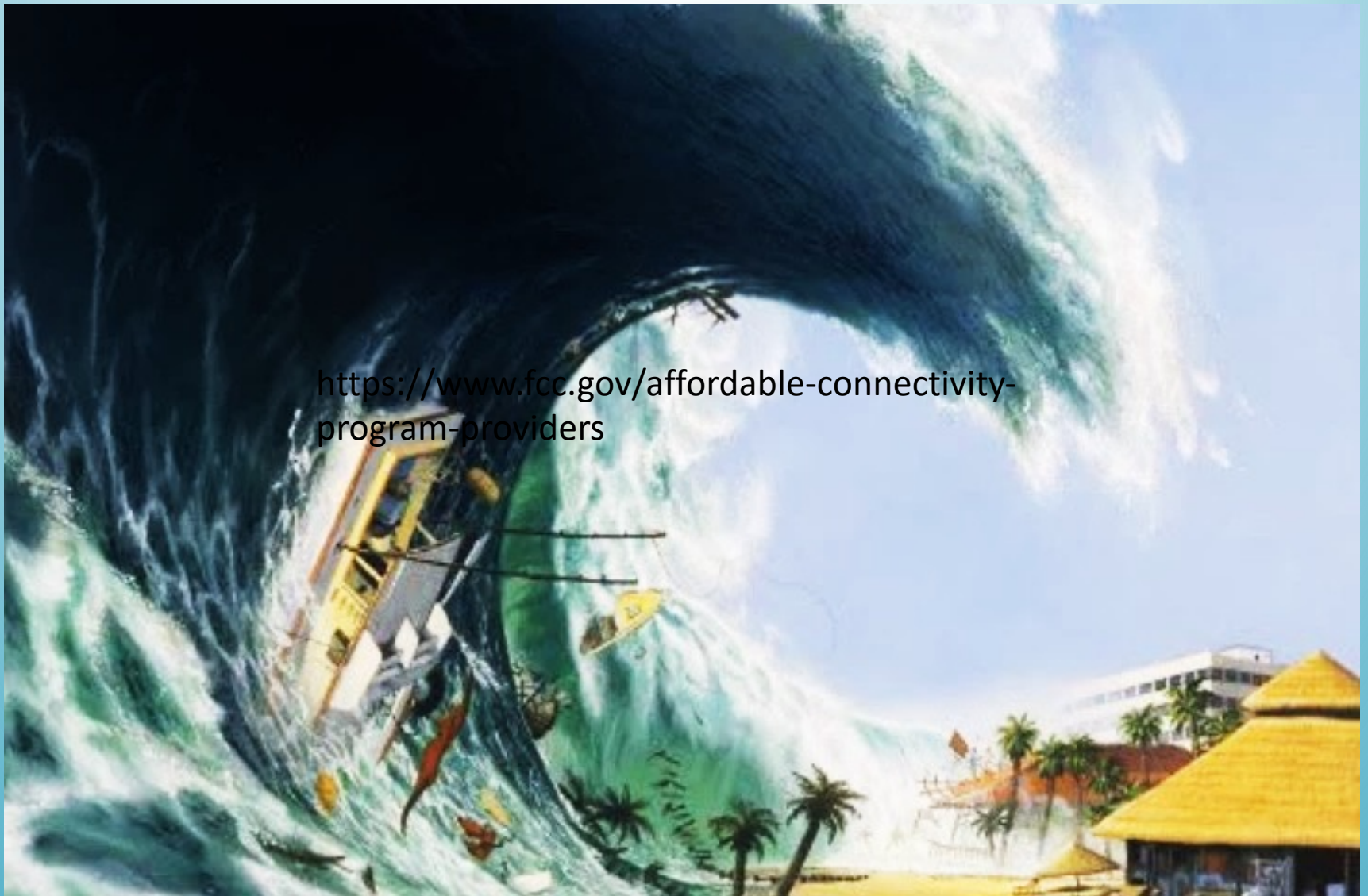
The Tsunami is Coming

You've written hundreds of proposals in:

❖ **Transportation engineering**

❖ **Electrical engineering**

❖ **IT, Bridges, Airports**

❖ **Environmental remediation**
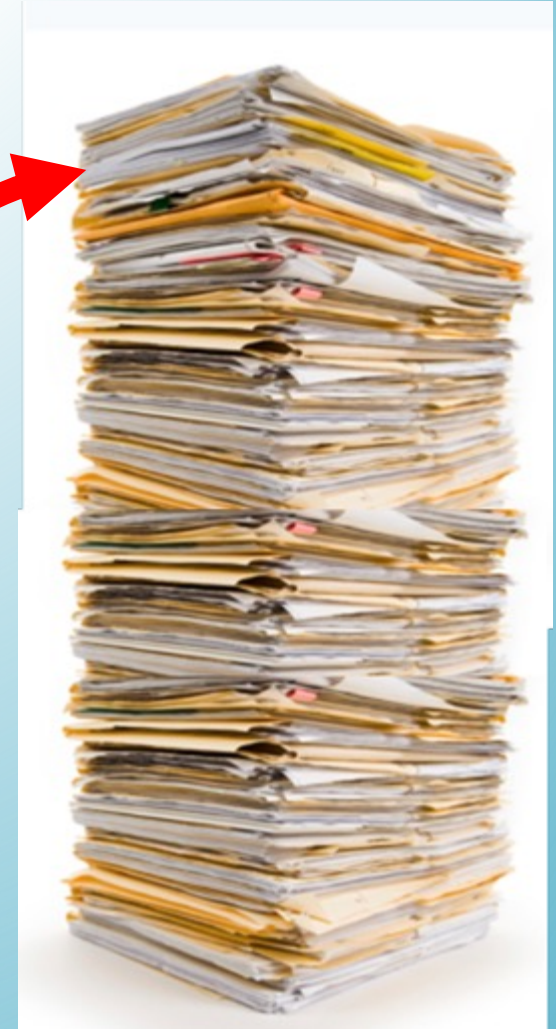
❖ **FEMA resilience work**

❖ **Army Corps of Engineers work**

BUT the tsunami is coming!!!!!

The Number of Proposals You Will Need to Write May DOUBLE

Get Ready!

There's a trillion dollars out there!

Yardstick: How Big is Big?

❖ **A new aircraft carrier**

❖ **Entire Social Security Program**

❖ **The Gross Domestic Product of Florida**

❖ **$13 billion**

❖ **$39 billion**

❖ **$1.1 trillion**

You Need to:

❖ **Stay alert to new opportunity announcements**

❖ **Budget for more proposal development**

❖ **Retain new staff experienced in areas of interest**

❖ **Expect to pay premium rates for bid workers**

❖ **Expect competition for specialized equipment**

❖ **Contract for proposal writing professionals**

❖ **Get executive buy-in early**

Status

❖ **Most agencies have not submitted an overall implementation plan yet**

❖ **Most programs still require appropriation (legislation was simply the authorization)**

❖ **Here's what to do: Go to this website several times a week to see the status of each program and what program has begun to be implemented**

❖ **https://www.whitehouse.gov/wp-content/uploads/2022/01/ BUILDING-A-BETTER-AMERICA_FINAL.pdf#page=**

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Stay Abreast of New Opportunities

1. **Keep up with funding announcements**

2. **Prepare your stable of writers**

Download this now

PRESIDENT JOE BIDEN

BUILDING A BETTER AMERICA

BUILD.GOV

A GUIDEBOOK TO THE BIPARTISAN INFRASTRUCTURE LAW FOR STATE, LOCAL, TRIBAL, AND TERRITORIAL GOVERNMENTS, AND OTHER PARTNERS

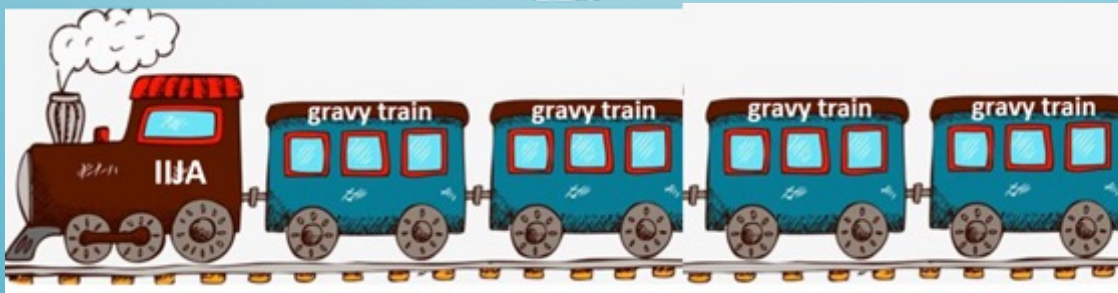**https://www.energy.gov/bil/bipartisan-infrastructure-law-homepage**

➤ **The White House summary of all programs**

➤ **Lets you know key dates for publication of opportunities**
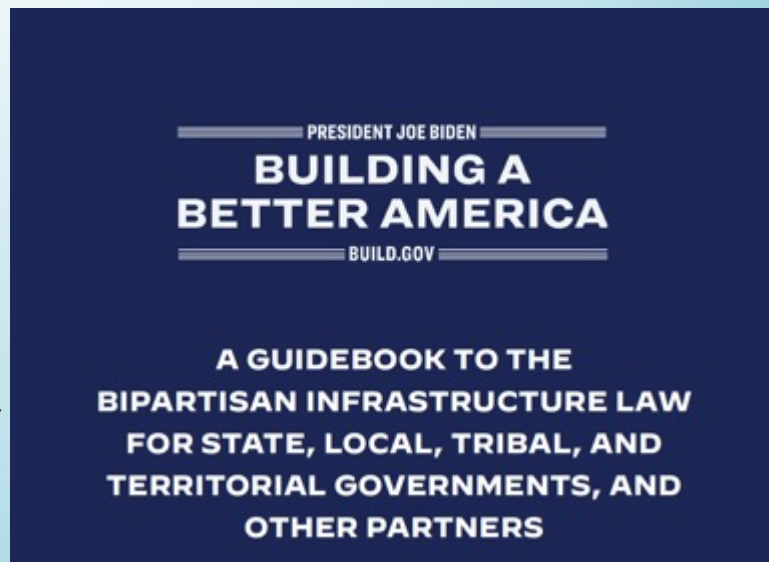
The IIJA Gravy Train

Cowabunga

Start Early

Thank you!

Contact info:

Email: Rsmith@ociwins.com

More about

OCI Proposal Consultants:

www.ociwins.com