



OFFICE OF INFRASTRUCTURE

GOVERNOR MIKE DUNLEAVY

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Infrastructure Investment Coordinator
Office of the Governor

Nils Andreassen
Alaska Municipal League

Julie Kitka / Nicole Borromeo – AFN
& ANCSA Corporations & Tribes

Thomas Lochner
Alaska Broadband Office (DCCED)

Deputy Commissioner Katherine Keith
Department of Transportation & PF

Curtis Thayer
Alaska Energy Authority

Workforce Development Coalition (EDA
'Recompete' grant): Dept of Labor, UA, AWIB,
AVTEC, Denali Commission, AK Safety Alliance

AK Housing Finance Corp; Dept of
Environmental Conservation (water); ANTHC
(water); UAF (carbon); DMVA (cybersecurity;
emergency management); DF&G; DNR - Office
of Project Management and Permitting

Alaska Infrastructure Key Players



Office of Infrastructure

- **Understand Alaska's Infrastructure Needs, Priorities, and Obstacles**
- **Track Funding – Grants & Awards** – find, understand, communicate
- **Connect State, Tribe & Community Partners**, incl. Federal Delegates & Agencies
- **Coordinate & Support** – Letters of Support; Matching Funds (when needed)
- **Maximize Funds** – Project Bundling, incl. permitting & accounting
- **Workforce Development** – EDA 'Recompete' grant (\$50MM); USDOT grant
- **Governor's priorities**, incl. Lowering Cost of Energy, Access, Food security
- **My goal: Cumulative Infrastructure Asset Data - & GIS Mapped!**
- **Joint goal: Strategic Infrastructure Plan**
- **Weekly Email & Building Website**

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Federal Infrastructure Funding

- **Infrastructure Investment & Jobs Act (IIJA) – November 2021**
aka Bipartisan Infrastructure Law or BIL (FY22-26)
- **Inflation Reduction Act (IRA) – August 2022**
Government created; Business led (tax credits)
- **CHIPS & Science Act (CHIPS) – August 2022**
Semiconductor Manufacturing* Incentives

While in DC recently, I pushed back on **permitting obstacles for Alaska's critical minerals needed for semiconductors: Federal siloes and talking out of both sides of their face.*

Infrastructure Investment & Jobs Act (IIJA)

- \$1.2 Trillion
 - 65% increase to Formula funding (primarily transportation)
 - 30% Discretionary grants up for grabs from all states & territories
 - Of that, most will be paid directly to governments, tribes, and non-profits; many grants require matching funds*
 - 5% Loans

 - Focused on Building up Underserved Communities (Justice40) and Renewable Energy
 - Fiscal years 2022-2026, with implementation over 10 years (maybe extended?)
 - Federal agencies recently added much-needed Technical Assistance
- *Potential for Secretaries to waive matching fund requirements

Who Qualifies for Grants?

- State of Alaska Agencies & Corporations
- Municipalities & Boroughs
- Tribes & ANCSA Corporations
- Non-Profits & Community Organizations
- Universities & Educational Entities (AVTEC)
- For-Profit Entities

Grant Success

ALASKA ENTITIES HAVE BEEN
AWARDED ALMOST 30% OF THE
GRANTS WE'VE APPLIED FOR



THERE'S A BENEFIT TO HAVING AN MPO
(METROPOLITAN PLANNING ORGANIZATION)
IN PURSUING GRANT OPPORTUNITIES.

WORKING ON CLIMATE ACTION PLANNING, SAFE STREETS, AND
OTHER TYPES OF PLANNING GREATLY INCREASES COMPETITIVENESS.

BE A CO-APPLICANT (CONSORTIUM) – THEN USE AN EXPERIENCED GRANT WRITER

Alaska Municipal League is a great resource for grant writers.

If you want to apply for a
Grant



IIJA Infrastructure Projects in Alaska

BROADBAND

It's exciting
(but complicated)!



Broadband Equity, Access and Deployment

ALLOCATED \$42.45 BILLION FOR ALL STATES AND TERRITORIES

- Alaska's Allocation: \$1,017,139,672.42

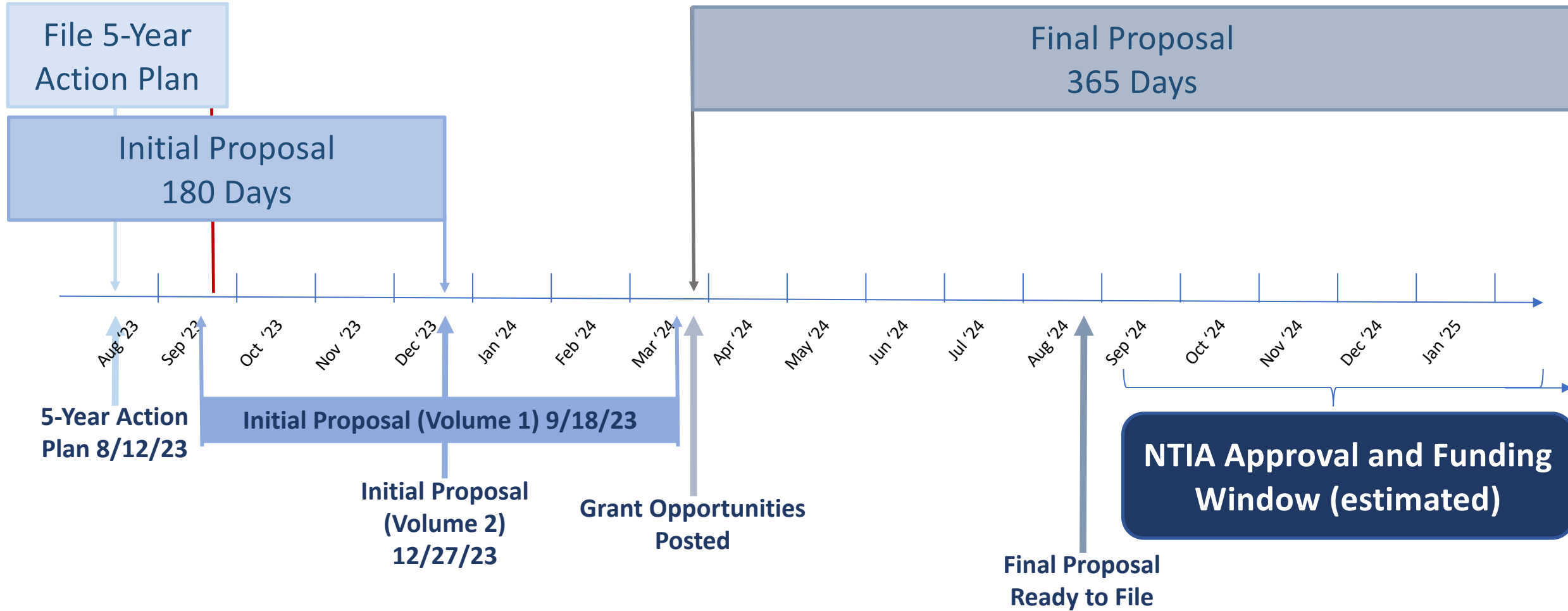
DISBURSEMENTS OF ALASKA'S ALLOCATION

Grants will be based on percentage of locations that are:

- 1st Priority -- Unserved - less than 25Mbps/3Mbps
- 2nd Priority -- Underserved - less than 100Mbps/20Mbps and
- 3rd Priority -- Unserved Community Anchor Institutions - less than 1Gbps/1Gbps



BEAD Milestone Dates & ABO Timeline



TRANSPORTATION

It's about Partnerships.

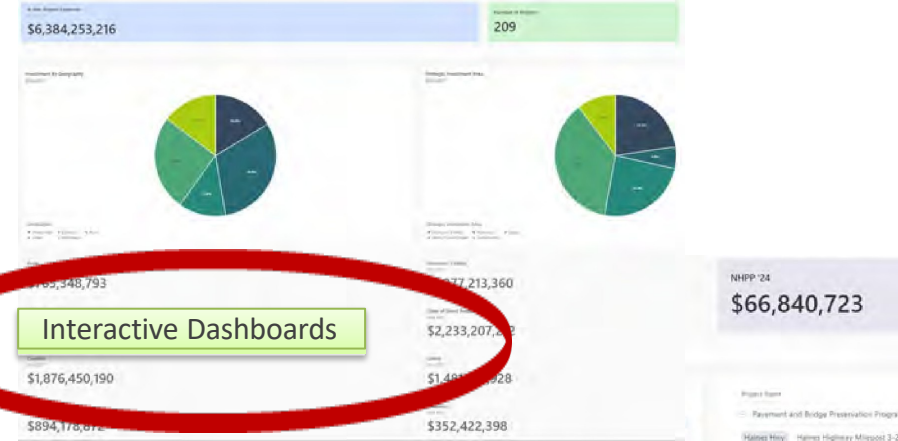
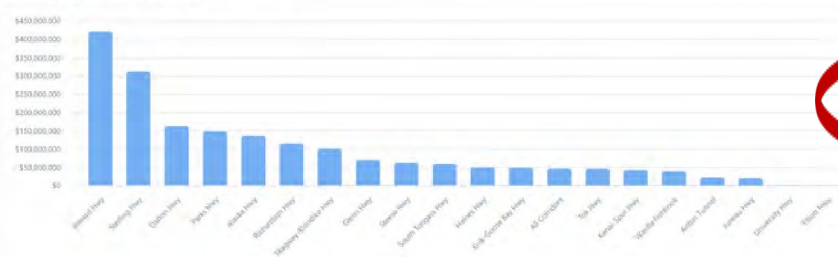
The Modern STIP: New Tools for Understanding

Modern Tools: A Tutorial

National Highway Performance Program (NHPP) STIP (Draft) 2024-2027

- The National Highway System (NHS) is a network of major highways and roads in the United States that are vital to the nation's economy, defense, and mobility.
- Alaska Highway:** The Alaska Highway, designated as Interstate A, is approximately 1,387 miles long. It stretches from the Alaska-Canada border near Delta Junction to Dawson Creek in British Columbia, Canada.
 - Seward Highway:** The Seward Highway runs approximately 125 miles from Anchorage to Seward.
 - Green Highway:** The Green Highway extends approximately 180 miles from Anchorage to the junction with the Richardson Highway near Glenallen.
 - Parks Highway:** The Parks Highway covers a distance of around 358 miles from Anchorage to Fairbanks.
 - Richardson Highway:** The Richardson Highway spans approximately 365 miles (589 kilometers) from Valdez to Fairbanks.
 - Sterling Highway:** The Sterling Highway is approximately 138 miles long, connecting Homer to the junction with the Seward Highway near Tom Lake.
 - Dalton Highway:** The Dalton Highway, also known as the North Slope Haul Road, extends approximately 414 miles from Livengood to Deadhorse, providing access to the Arctic region.

National Highway System STIP (draft) '24-'27 Total by Corridor



Interactive Dashboards

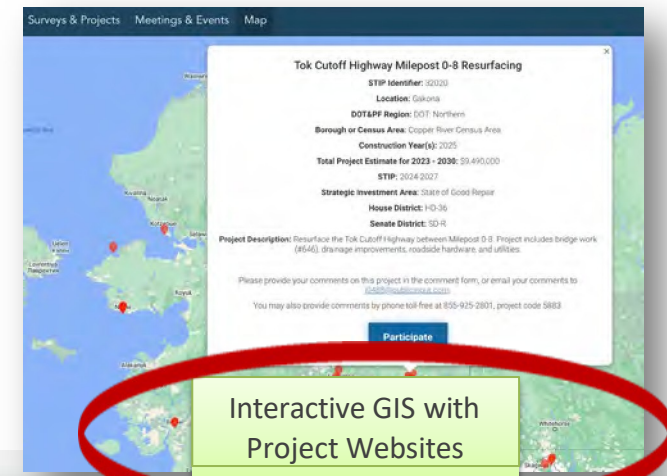
STIP23-30FiscCon24-27: Det...

STIP ID	Project Name	Description	Type of Work	Location	Borough/Census	DOT Region	Regions (Non-...)	Program	Strategic Investm...	Landsc...
34190	Waterways Program	The Alaska Waterways Program will prioritize...	Planning	Alaska-wide	Alaska-wide	DOT: Alaska-wi...	Alaska-wide	M11 - America M...	Economic Vitality	Water
33246	Railway Operations Support Facilities	Relocate or instal facilities to support rail...	Railroad	Alaska-wide	Alaska-wide Rail	DOT: Alaska-wi...	Alaska-wide	Alaska Railroads	State of Good Rep...	Alaska
33967	Mooring System Improvements	Construct phased area-wide mooring...	Reconstruction	Alaska Marine	Alaska-wide	DOT: Marine H...	Waterway	M11 - America M...	State of Good Rep...	Water
12259	Recreational Trails Program	Enhance outdoor recreational activities...	Trail	Alaska-wide	Alaska-wide	DOT: Alaska-wi...	Alaska-wide	Active Transport...	Sustainability	Urban
33860	Resiliency Program	This program includes projects that further th...	Planning	Alaska-wide	Alaska-wide	DOT: Alaska-wi...	Alaska-wide	Community Trans...	Resiliency	Rural
32218	Prince William Sound Area Transportation Plan Update	Update the 2001 Prince William Sound Area...	Planning	Chugach Census	Chugach Census Area	DOT: Northern	Gulf Coast Reg...	Area Planning	Resiliency	Alaska
19664	Railway Positive Train Control	The project, located on the existing railway lighting syste...	Rehabilitation	Alaska-wide	Alaska-wide Rail	DOT: Alaska-wi...	Alaska-wide	Alaska Railroads	Economic Vitality	Urban
34198	Light up the Highways	Install monitoring and lighting systems on existing highway lighting systems...	Rehabilitation	Alaska-wide	Alaska-wide	DOT: Alaska-wi...	Alaska-wide	Recuring Mainte...	Sustainability	Commi
12579	Bridge Scour Monitoring and	Install monitoring and	Planning	Alaska-wide	Alaska-wide	DOT: Alaska-wi...	Alaska-wide	Recuring Mainte...	State of Good Rep...	Urban

Interactive Tables

STIP ID	Project Name	Description	Construction Location	2023 All	'24-'27 All	'24 All	'25 All	'26 All	'27 All	'28 All	'29 All	'30 All
34190	Waterways	The Alaska Waterways Program will prioritize...	Alaska-wide	\$23,923,000	\$1,000,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000
32246	Railway Op	Relocate or install facility	Alaska-wide	\$32,923,000	\$4,800,000	\$4,800,000	\$4,800,000	\$4,800,000	\$4,800,000	\$4,800,000	\$4,800,000	\$4,800,000
33967	Mooring Sy	Construct phased area-	Alaska Mari	\$10,000,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000
12259	Recreation	Enhance outdoor	Alaska-wide	\$14,000,000	\$7,000,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000
33860	Resiliency	This program includes	Alaska-wide	\$114,000,000	\$9,000,000	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000
32218	Prince Willi	Update the 2001 Prince	Chugach Ce	\$720,000	\$720,000	\$920,000	\$400,000					
19664	Railway Posi	The project, operating	Alaska-wide	\$1,000,000	\$500,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
34198	Light up the	the existing highway lighting systems...	Alaska-wide	\$26,595,581	\$20,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
12579	Bridge Scou	Install monitoring and	Alaska-wide	\$19,188,040	\$9,594,020	\$2,398,505	\$2,398,505	\$2,398,505	\$2,398,505	\$2,398,505	\$2,398,505	\$2,398,505
34197	Data Moder	Innovation and	Alaska-wide	\$126,000,000	\$64,000,000	\$16,000,000	\$16,000,000	\$16,000,000	\$16,000,000	\$16,000,000	\$16,000,000	\$16,000,000
19498	Peru Refur	Annual Ferry Refurbish	Alaska Mari	\$12,000,000	\$16,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000

Excel

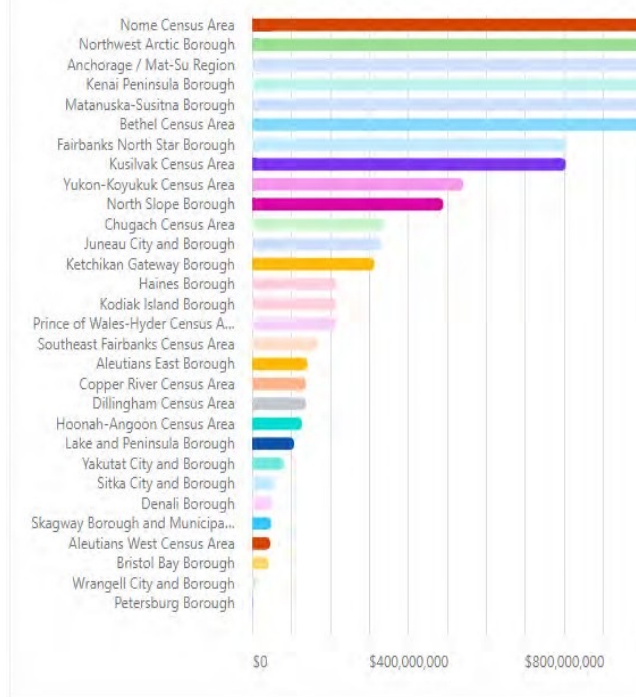


Interactive GIS with Project Websites

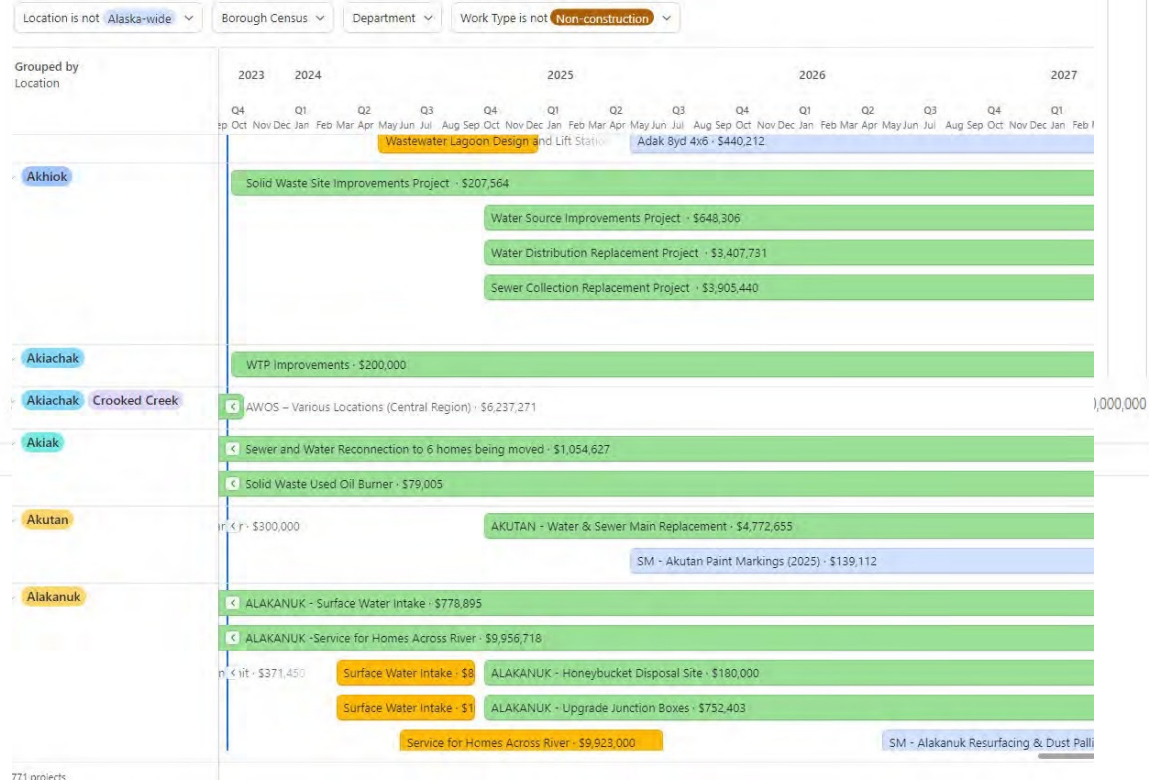


INFRASTRUCTURE FORECASTS

5 YEAR PROJECT OUTLOOK BY LOCATION AND BY SCHEDULE



Project Bundling Dashboards / Project Bundling Timeline



Sum of all Projects
\$15,074,045,368
 # of all Projects
1806

DRAFT Project Bundling Dashboard –Data is for purposes of illustration only to demonstrate potential Interactive 5-year Infrastructure Dashboard



Program and Project Highlights

New Programs



Frontier Roads, Trails, and Bridges

Surface Transportation Links for Alaska's Frontier

- New State Specific Road Standards
- Ice Roads, Snow Roads
- Frontier Style Gravel Roads; Hardened Trails
- Bridges
- Waysides

Rural Community Connections

Community Connections that Reduce the Cost of Living, Stimulate Economic Development, and Increase the Quality of Life

- Community Connection Inventories
- Beyond Moving People, Fuel, and Freight

Rural Housing Roads

Helping to Solve Alaska's Housing Crisis

- Basic Infrastructure to Bring Down Costs

Waterways

Connecting Alaska's Multi Modal Transportation Network

- M-11 National Marine Highway Designation
- Supporting freight corridors through infrastructure

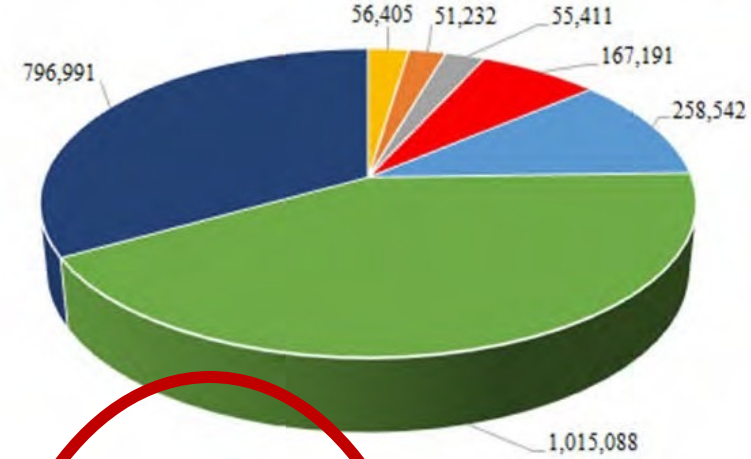


Workforce Development and Training

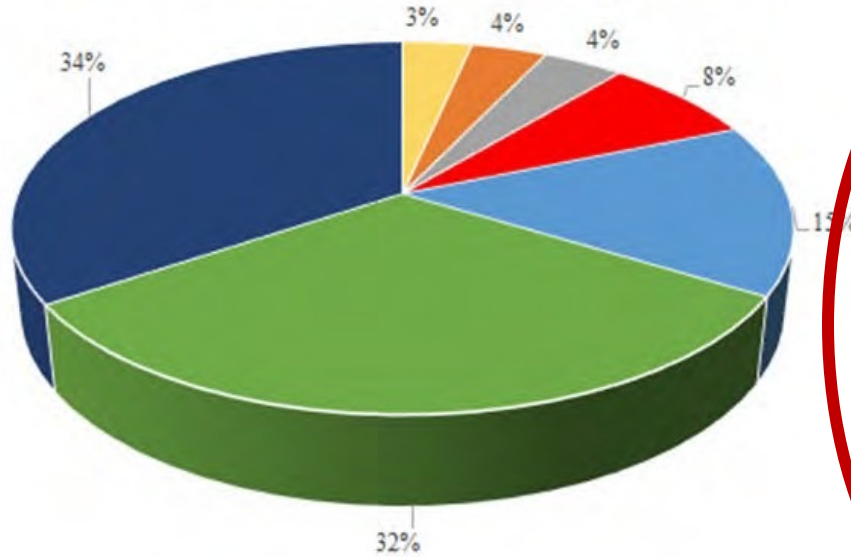
STIP ID:34200

Transportation Workforce Development & Training \$24m

Estimated Hours by Job Class (Construction Year 2023)



Percent of Estimated Workforce by Job Class



























- Carpenters
- Painters
- Cement Masons
- Electricians
- Truck Drivers
- Equipment Operators
- Laborers

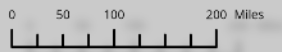
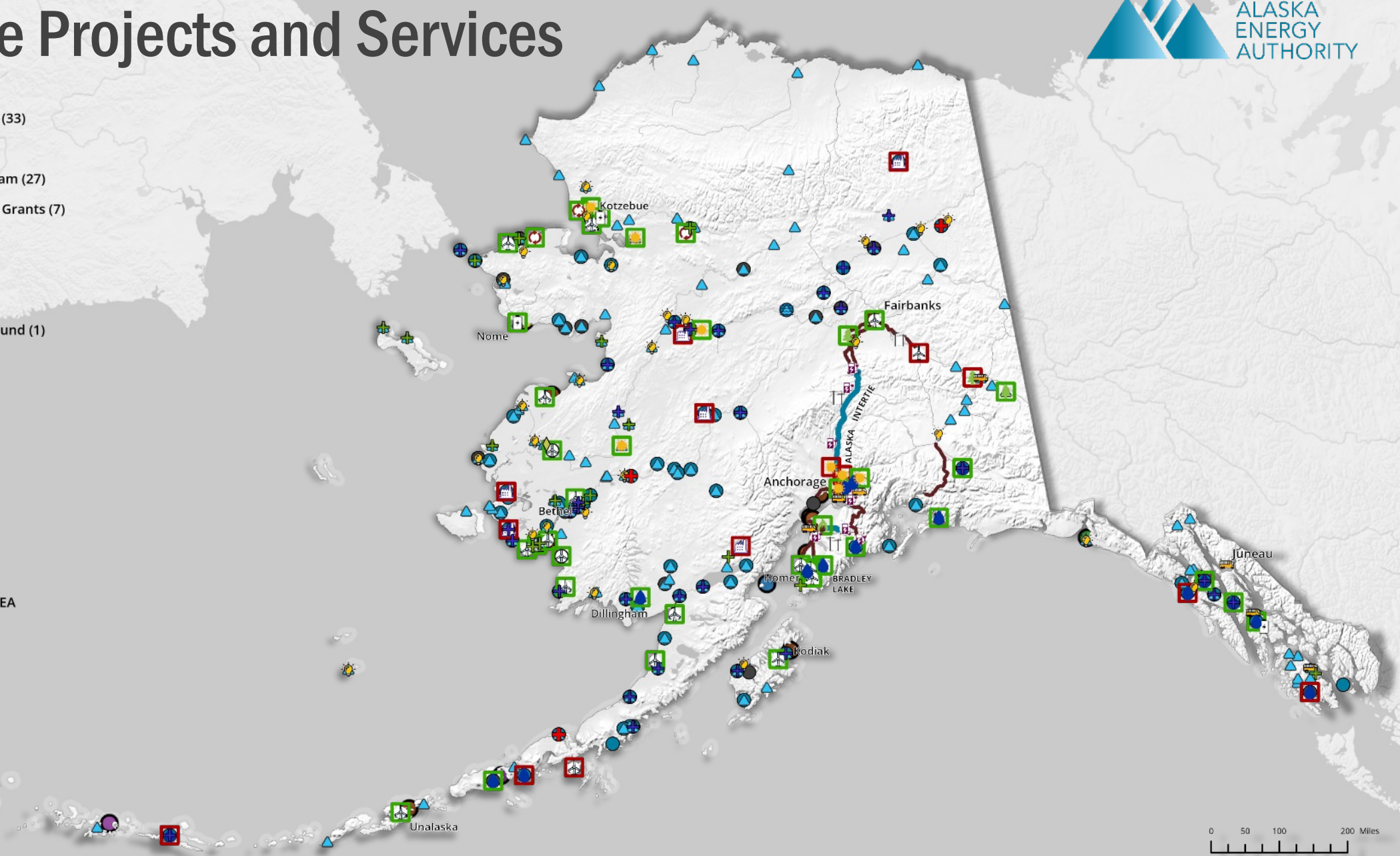


Energy

State Priority:
Lower Cost

AEA Active Projects and Services

-  Rural Power System Upgrades (33)
-  Bulk Fuel Upgrades (25)
-  Village Energy Efficiency Program (27)
-  Volkswagen Diesel Settlement Grants (7)
-  Biogas (1)
-  Biomass (4)
-  Diesel (6)
-  Emerging Energy Technology Fund (1)
-  Electric Vehicles (9)
-  Heat Recovery (3)
-  Hydroelectric (18)
-  Hydrokinetic (1)
-  Solar (8)
-  Storage (3)
-  Transmission (3)
-  Wind (21)
-  Transmission Line owned by AEA
-  Other Transmission Line
-  Power Project Fund (16)
-  Renewable Energy Fund (44)
-  PCE Communities (193)
-  Emergency Assistance (3)
-  Circuit Rider Assistance (93)
-  Utility Training (81)



Railbelt Transmission System Urgently Needs Modernization



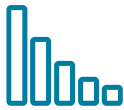
The majority of the Railbelt transmission system was constructed more than 40 years ago. A resilient, reliable, and redundant Railbelt transmission system is not only achievable but also necessary to create the needed capacity to integrate additional renewable energy in the future.

Generation Changes
New renewable energy projects are not located in existing cities. New transmission to connect new renewable projects to existing transmission paid for by projects. However, existing transmission must be upgraded to transmit energy to and between the Railbelt regions.



Grid Forming

A grid with alternate paths will increase reliability, resiliency, and fuel diversification.



Fuel Savings

Upgrades and alternate paths will reduce line losses.



Energy Security

Natural or other events can isolate cities or regions from energy.

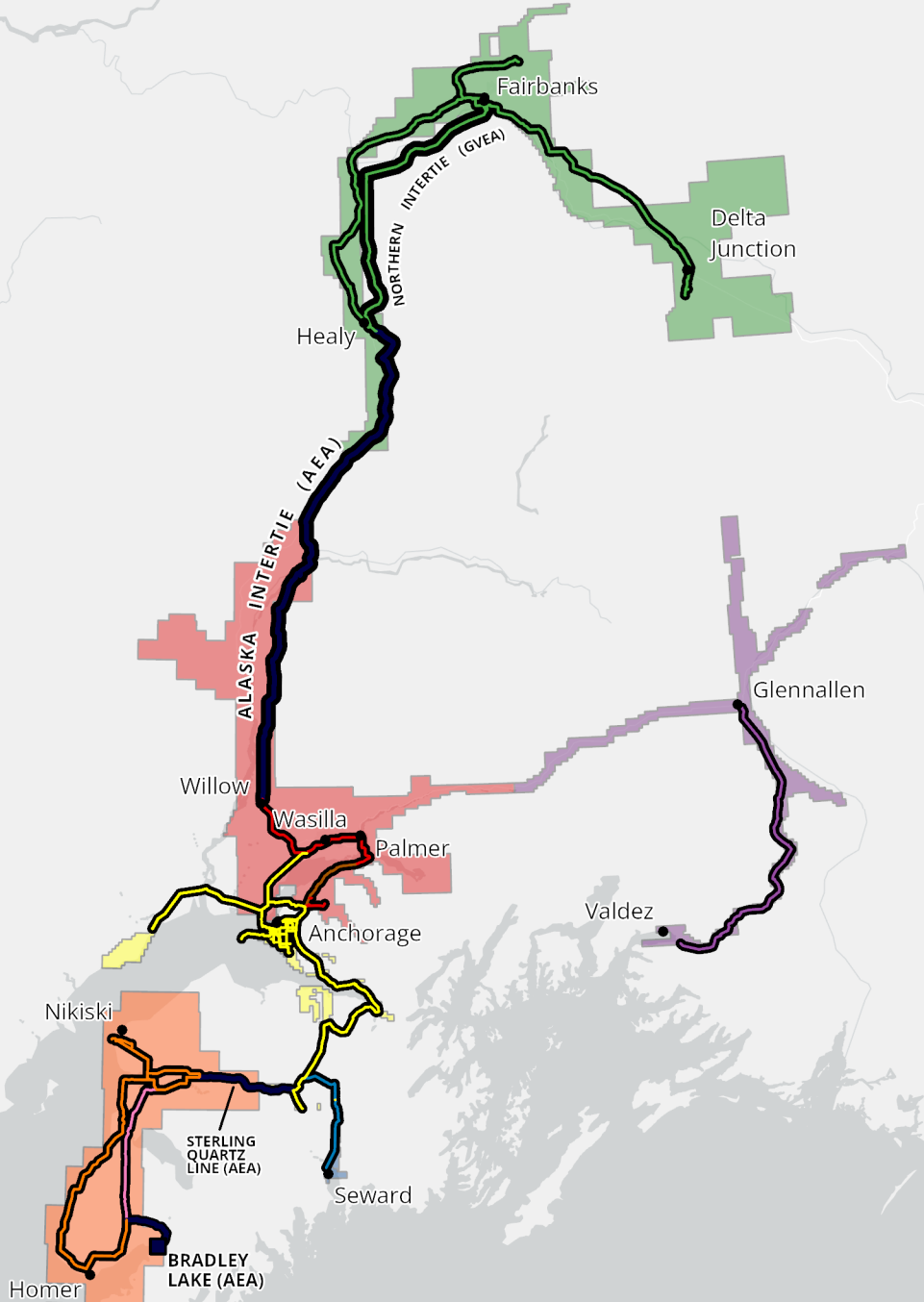
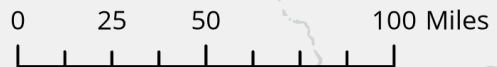
Alaska Intertie

Transmission Line

- Alaska Energy Authority (AEA)
- Chugach Electric Association (CEA)
- Copper Valley Electric Association (CVEA)
- Golden Valley Electric Association (GVEA)
- Matanuska Electric Association (MEA)
- CEA/MEA Joint Ownership (CEA/MEA)
- Homer Electric Association (HEA)
- City of Seward
- Soldotna

Service Area

- Chugach Electric Association
- Copper Valley Electric Association
- Golden Valley Electric Association
- Matanuska Electric Association
- Homer Electric Association
- City Of Seward



State of Alaska Electric Vehicle (EV) Infrastructure Implementation Plan

AEA and the Alaska Department of Transportation & Public Facilities (DOT&PF), submitted their **State of Alaska EV Infrastructure Implementation Plan (The Plan)** to the United States Joint Office of Energy and Transportation, as required by the Infrastructure Investment and Jobs Act's NEVI Formula Program.

Awardees (listed south to north):

1. Anchorage - Tikahtnu Commons, North Anchorage
2. Wasilla - Cottonwood Creek Mall
3. Trapper Creek - Trapper Creek Three Bears
4. Denali State Park - Mt. McKinley Princess Wilderness Lodge
5. Cantwell - Jack River Properties
6. Healy - Denali Princess Wilderness Lodge
7. Nenana - Nenana Chevron Station
8. Ester - Ester Gas
9. Fairbanks - Westmark Fairbanks Hotel and Conference Center



State of Alaska Electric Vehicle Infrastructure Implementation Plan FY24



Solar For All Competition

- **AEA and AHFC collaborating to develop a Statewide Solar Program:**
 - AEA focus on development of community solar projects in disadvantaged communities using a Renewable Energy Fund-style grant program.
 - AHFC focus on residential rooftop solar for low income households.
- **Program benefits:**
 - Energy cost savings
 - Increased resiliency
 - Equitable access to solar
 - Asset ownership benefits low income and disadvantaged communities
 - Workforce development
 - Reduction in greenhouse gas emissions
- **This is a competitive grant program — no match required.**
- **AEA and AHFC will submit an application for a \$100 million grant**



Fairbanks Area Infrastructure Projects



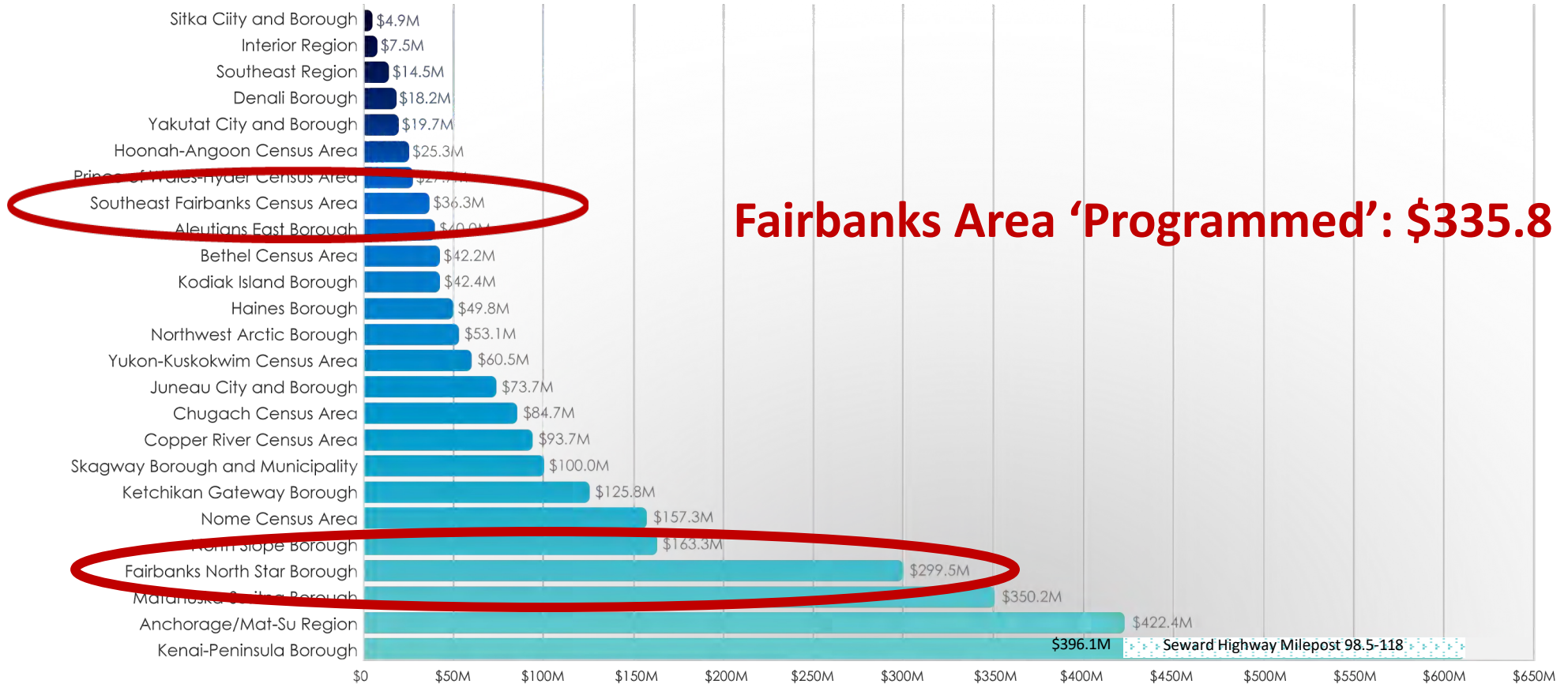
Modern, Resilient, Agile: DOT&PF and the STIP

Why Change Now?

STIP DASHBOARD BY CENSUS AREA OR BOROUGH

\$6,384,253,216
Total Amount Programmed

88.10%
Average Federal Portion



Fairbanks Area 'Programmed': \$335.8 MM

Seward Highway Milepost 98.5-118



ALSO A DEPT
OF DEFENSE
PRIORITY

Black Rapids Training Site (BRTS) Defense Community Infrastructure Pilot Program

AEA partnered with Golden Valley Electric Cooperative (GVEA) was awarded this grant from the Office of Local Defense Community Cooperation under the Defense Community Infrastructure Pilot Program.

Federal Receipt Authority of \$12.7 Million Received in fiscal year 2024. AEA has requested a supplemental budget request for an additional \$3 Million for this project to bury the line. No State match is required.

GVEA will use the funds to extend an transmission line 34 miles along the Richardson Highway to BTRS. Currently, BTRS is powered by three diesel generators that are nearing the end of their useful lives. This extension will improve long-term sustainability and reliability for BTRS by tying them into GVEA's power grid.



Alaska Housing
Finance Corporation's
Alaska Corporation
for Affordable
Housing is helping
meet housing
challenges in
Fairbanks with the
addition of 58 new
units.*

*Not federal funds, but we're
looking into more ways to use
federal funds to meet Alaska's
housing needs.

New housing for seniors and families in Fairbanks

Alaska Corporation for Affordable Housing continues to progress development of 58 new units of affordable housing.



The Meadows: 18 units

- Located across from Golden Ages at Ninth Avenue and Denali Way
- Came online in August 2023
- Full occupancy expected by the end of September 2023



Borealis Park: 40 units of family housing

- Located in South Fairbanks between 22nd Avenue, 23rd Avenue, Wilson Street and Barnette Street
- Expected completion in summer of 2024

Fairbanks Projects

- \$7.8MM Airport Upgrades
- \$89MM Moose Creek Dam
- +\$51MM Tribal Broadband
- \$2.3MM Low Emission Buses
- \$900K Chena roundabout
- \$9.2MM Airport Way congestion
- \$800K Tanana River engineering
- \$300K Dena'Nena'Hanash transpo planning
- Mentasta & Northway schools biomass heating

University Ave... Airport/Steese interchange...
Geist Rd... Rosie Creek Rd...Chena Hot Springs
Rd... Bridges...Passing lanes...

Thank you!

Shareen Crosby

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