ALASKA DEPARMENT OF TRANSPORTATION & PUBLIC FACILITIES 2024 ANNUAL REPORT

JANUARY 2025



COMMITTED TO MORAL INTEGRITY, CONTINUOUS IMPROVEMENT, RESPECT FOR ALL, AND ENSURING SAFETY IN ALL OPERATIONS.

VALUES

INTEGRITY, EXCELLENCE, RESPECT, SAFETY DELIVERING A **SAFE**, **EFFICIENT** TRANSPORTATION SYSTEM EVERY DAY, **CONNECTING** ALASKANS TO GOODS, SERVICES, ECONOMIC OPPORTUNITIES, AND THE WORLD.

VISION

PROVIDE A SAFE AND EFFICIENT TRANSPORTATION SYSTEM FOR ALASKA TO THRIVE

MISSION

"Keep Alaska Moving"

AD

MOVING BEYOND ALASKA'S CHALLENGES WHILE MEETING ALASKANS' DISTINCT TRANSPORTATION NEEDS THROUGH TRUST, TEAMWORK, AND RESULTS.

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Cover: Collecting HPMS Sample Data from Glacier Highway MP36, Juneau. By Kyle Paw, Alaska DOT&PF

DRAFT

INFRASTRUCTURE ASSETS, OPERATIONS & MAINTENANCE **AIR, SEA, AND LAND NETWORKS** 2024 STATS AIR NEW AIR CARGO AVIATION WEATHER CAMERAS NEW PASSENGER ROUTES CARRIERS **72** INTERNATIONAL STATE-OWNED AIRPORTS BASES AIRPORTS 0 PASSENGERS THROUGH ANC & FAI IN 2024 TONNES OF CARGO WATERWAYS **ALASKA MARINE HIGHWAY SYSTEM** + ROUTE MILES /ESSELS **TERMINAL** & PORT UPGRADES 118K + PASSENGERS HARBORS **Planned for** 2025-2027 + VEHICLES ERMINAL IMPROVEMENT PROJECTS

ALASKA'S TRANSPORTATION

PAGE 2 ALASKA DOT&PF : MODERN, RESILIENT, AGILE

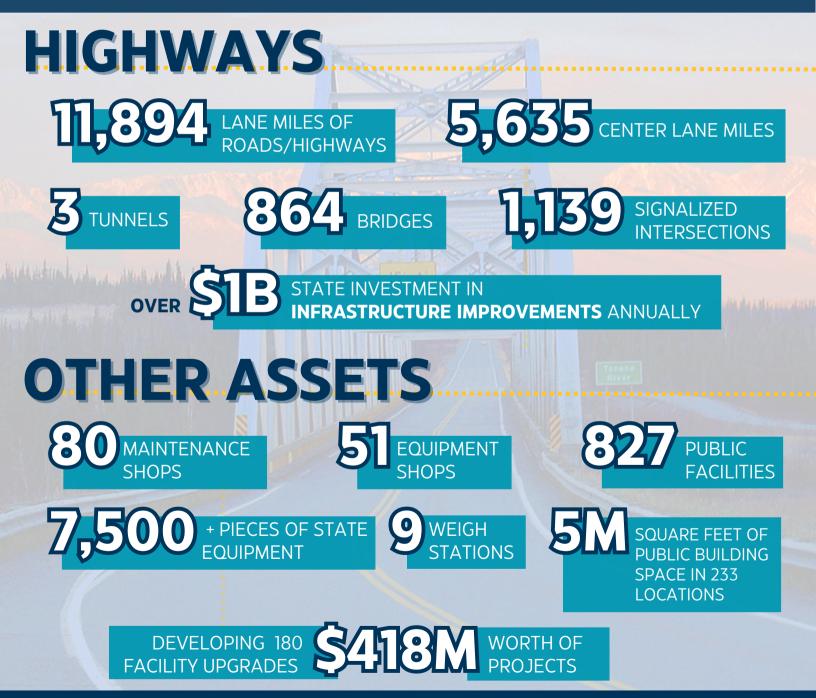
ALASKA'S TRANSPORTATION INFRASTRUCTURE ASSETS, OPERATIONS & MAINTENANCE

AIR, SEA, AND LAND NETWORKS 2024 STATS

CONTINUED

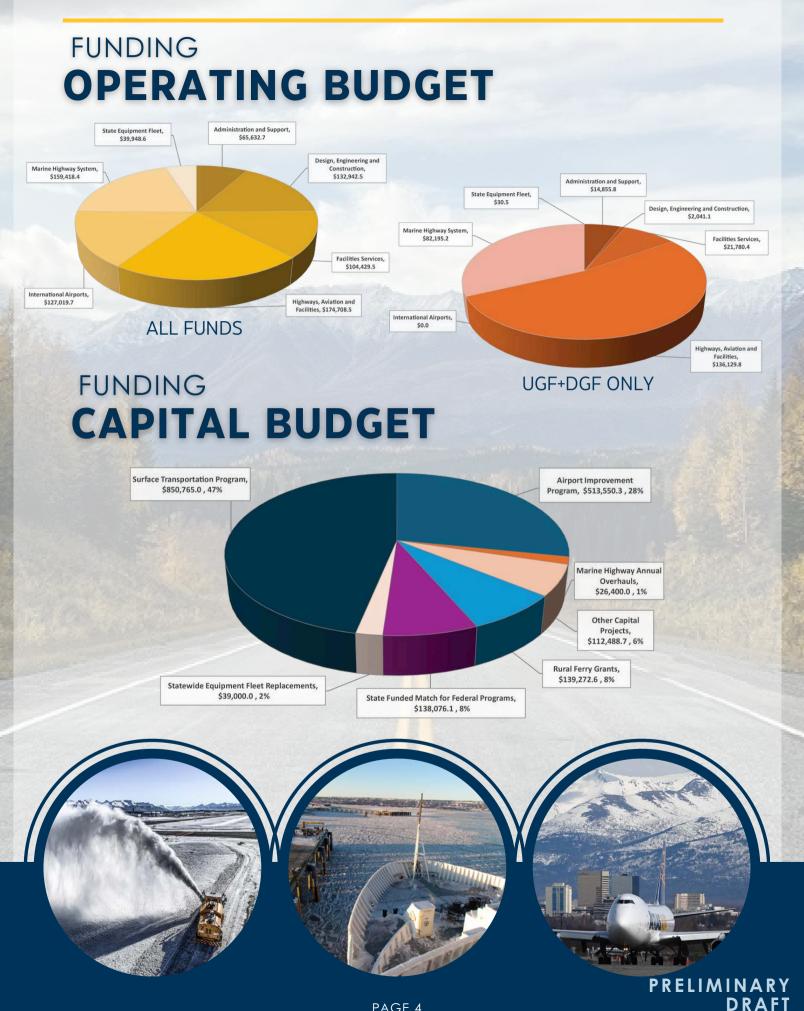
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ALASKA INTERNATIONAL

ASSET

ASSET VALUE OF ALASKA'S INTERNATIONAL AIRPORTS:

Investments in airport

infrastructure, modernizing air

side and passenger amenities

\$59M FOR ANC

\$7M FOR FAI





ANC Ranked #2 in North America ANC 3.7M tons of cargo ANC #4 globally for landed cargo weight FAI alternative airport, 11,800-ft runway, heavy cargo apron.

PASSENGER

ANC 5.7 million passengers annually FAI 1.1 million passengers annually 2024 ALL Alaska Airport Record: Aug. 9, 2024 nearly 20K passengers

EFFICIENCY, SUSTAINABILITY, STEWARDSHIP

Leading Alaska in AFFF conversation, EV charging stations evaluation, Alternative energy generation study, Sustainable aviation fuel, Solar Panel Pilot Program

AIAS IS A RESPONSIBLE STEWARD OF THE ENVIRONMENT

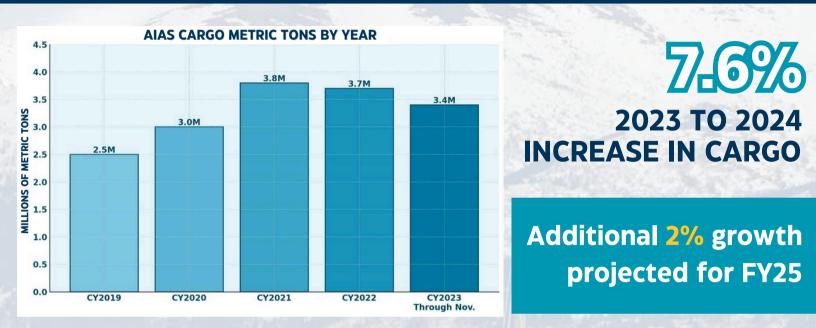
FedEx

1 Martin Tran

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ALASKA INTERNATIONAL





149.5 MILLION POUNDS (67.8 METRIC TONNES)

Expected to raise the landed weight to the highest CMGTW level ever recorded for ANC.

AS THE PRIMARY DIVERSIONARY AIRPORT FOR ANC, FAI ACCOMMODATED 60 DIVERSIONS IN 2024.

BOLSTERING GROUND SERVICE EQUIPMENT FOR LARGE NUMBERS OF HEAVY CARGO AIRCRAFT

ANC ANNOUNCED 5 NEW CARGO CARRIERS

Awesome Cargo Airlines

CN-ANC-Metico

Central Airlines of China

STX-ANC-ON,

ASL Air Cargo

TNA-ANC-JAL

Aerologic Air Cargo ¹⁷t_{C-ANC-C}V^C

CAN-ANC-CL

CMA CGM Air Cargo

UKG-ANC-DAL

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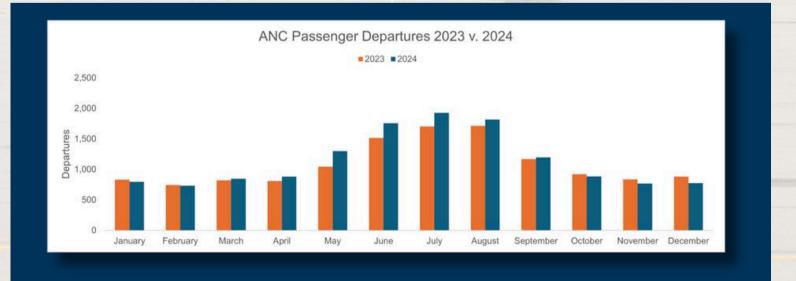
ALASKA INTERNATIONAL AIRPORT SYSTEM ASSET

AIAS strategic passenger initiatives secure five new summer routes and a \$900k

> Small Community Air Service Development Grant for service to either ATL or DFW from FAI.

SPRING AND FALL PASSENGER TRAFFIC BEGIN TO ALIGN, PASSENGERS WILLING TO VISIT ALASKA DURING NON-PEAK TRAVEL TIMES.

Both airports saw year-over-year growth in passenger activity. Increases have been driven by state marketing initiatives and the introduction of new routes and increased flight frequencies by AIAS passenger carriers.



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ALASKA INTERNATIONAL



AIRPORT INVESTMENTS \$3245M APPROXIMATELY

AIAS ENHANCES AIRPORT INFRASTRUCTURE AND SERVICES

AIAS has boosted its annual operating revenue by \$50M and supporting \$324.5M in private development projects to strengthen the system's competitive position.

FEDERAL GRANTS

PASSENGER EXPERIENCE

AERONAUTICAL

REVENUE

\$2.1M

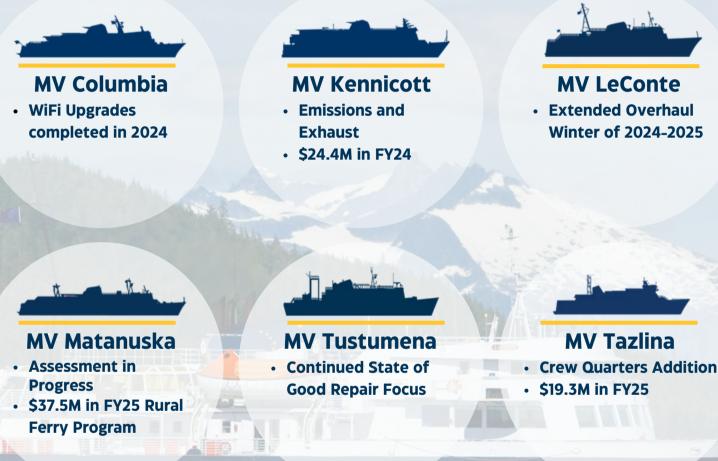
Anchorage In

- New Interactive Children's Area
- Upgraded WiFi to boost speed
 & reliability
- Free feminine hygiene products in all restrooms
- 12 month passenger survey to conclude March 2025

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ALASKA MARINE HIGHWAY ASSET

VESSEL CIP PROJECTS





No major projects planned for: MV Aurora, MV Hubbard, MV Lituya

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ALASKA MARINE HIGHWAY SYSTEM ASSET

TERMINAL INFRASTRUCTURE IMPROVEMENTS



- PRINCE RUPERT FERRY TERMINAL ACQUISITION & REFURBISHMENT
- IFA PRINCE OF WALES PASSENGER **ACCOMMODATION UPGRADES & OVERHAUL**
- IFA M/V STIKINE PASSENGER ACCOMMODATION UPGRADES
- AMHS SYSTEM WIDE BRIDGE IMPROVEMENTS
- AMHS SYSTEM WIDE MOORING STRUCTURE **IMPROVEMENTS**
- AMHS SYSTEM WIDE UPLANDS **IMPROVEMENTS**

\$66M SYSTEM-WIDE **OPERATIONAL IMPROVEMENTS**



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ALASKA MARINE HIGHWAY ASSET SYSTEM

KEY WORKFORCE EFFORTS & INITIATIVES





"I'm so happy to announce I've obtained my AB certificate of training! Thank you to Women Offshore for the support. These two weeks were intense but amazing – from learning navigation and rules of the road to knot tying, line strength calculations, and more. It was a fantastic class, and I highly recommend it to anyone pursuing a maritime career!" – Kim

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to your incredible achievement & bright horizons ahead

PRELIMINARY DRAFT

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ALASKA MARINE HIGHWAY ASSET SYSTEM

CUSTOMER SERVICE

AMHS

CUSTOMER

SERVICE

RELIABLE PRICING & SERVICE

- Dynamic pricing Eliminated
- Change Fees Reduced Effective January 1
- Reliability Statistics: For June/July/August ran 11,112 hours with downtime of 1 hour

COMMUNITY / SPORTS EVENTS AND NEEDS

- Emphasis on local events
- during scheduling
- Consideration of
- Community Needs
- *denotes Tribal community events

ELECTRIC VEHICLES

- EV Charging Stations at Terminal
 Documented Plan for EV
- transport on vessels

\$5M

\$66M

COMING SOON Gift Shops: • Expanded Bar Service • ALASKA MADE

MODERN RESERVATION TECHNOLOGY

- New Tools: CAReSS system and scanners now fully installed and operational on the Kennicott
- What's Next: Additional Vessels, and Phase II includes a new reservation website with more user-friendly features

HIGH-SPEED INTERNET ON BOARD

- Starlink: Already in use by our operations staff
- Public WiFi: A \$5M grant is funding high-speed internet for passengers
 - Implementation starts now!

NEW BUSINESS MANAGER

- Dorine Petru: Our new Business Development & Financial Analyst Manager
- Experience: Former VP at Crowley, General Manager at Tesoro. She brings deep expertise in maritime operations and business development

"ALLOWING GREW AND PASSENCERS TO STAY CONNECTED!"

\$177M

\$310M

5

TO IMPLEMENT SYSTEM-WIDE WIRELESS CONNECTIVITY BETWEEN PORTS

GRANT WILL SUPPORT ONGOING OPERATIONAL IMPROVEMENTS THROUGHOUT THE AMHS. \$177M TO TERMINAL IMPROVEMENTS 2024-2027

COMBINED WITH PREVIOUS GRANTS AND OTHER SECURED FUNDS, ENABLES DOT&PF TO FULLY FINANCE

TUSTUMENA REPLACEMENT VESSEL,

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ALASKA MARINE HIGHWAY ASSET SYSTEM

5,000 ROUTE MILES

of scenic coastline, providing service to over 30 Alaska communities, each with their own unique qualities.



24/7 365

DAYS A YEAR

SERVING **33** PORTS

Connecting Alaskans to the highway system, Lower 48 & Canada

4 SHIPS OVER 50 YEARS OLD!

Lituya, LeConte, Kennicott, Tustumena, Matanuska, Aurora, Tazlina, Hubbard, Columbia , New Mainliner, No/Low

9 FERRIES 118,212 TOTAL PASSENGERS 53,111 TOTAL VEHICLES

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ALASKA'S RURAL AIRPORT SYSTEM ASSETS, OPERATIONS & MAINTENANCE



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ALASKA'S RURAL AIRPORT SYSTEM ASSETS, OPERATIONS & MAINTENANCE



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ALASKA'S RURAL AIRPORT SYSTEM ASSETS, OPERATIONS & MAINTENANCE

REAL TIME RESPONSE, RAPID RECOVERY

Drone-in-a-box systems were swiftly deployed to highway emergencies such as flooding, landslides, and avalanches, providing critical, real-time intel. Furthermore, integrating Starlink connectivity enabled live-streaming and rapid cloud-based data processing, significantly enhancing the speed and efficacy of decision-making.



Through strategic parnterships with DoD, UAF ACUASI, and NASA, over \$15M in federal grants for innovative research and projects were secured. Initiatives, like high-resolution imagery access via ArcGIS Online and ARROW Program data processing, enhance planning and emergency response capabilities.

ADVANCING ALASKA'S AVIATION: STATEWIDE INITIATIVES BOOST SAFETY, EFFICIENCY, AND FOOD SECURITY



PRELIMINARY DRAFT

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BRIDGES ASSET



Value of DOT&PF Bridges:

1,077 publicly owned bridges34 owned by other state agencies179 owned by city and boroughs98 DOT&PF owned culverts

BRIDGE INSPECTIONS

- Alaska DOT&PF inspects over 1,000 bridges and 4 tunnels in the most seismically active state in the US
- Alaska has the most earthquakes in the U.S.: 20K earthquakes a year!
- One earthquake or more of magnitude 7 or higher every year
- Bridge crew inspects all bridges within a 50-mile radius of a significant seismic event

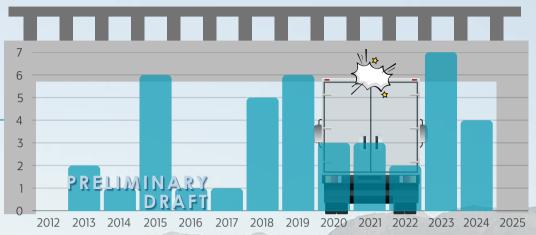
Rabbit Creek Pedestrian Bridge

On Sunday, January 12, 2025, the Rabbit Creek Pedestrian Bridge, a 318-foot steel structure sustained severe damage. Debris from the bridge fell onto the Seward Highway, leading crews to quickly dismantle affected components and clear the highway to reopen within a few hours of the incident. DOT&PF Bridge engineers inspected the following day and are making upgrades to Willowcrest overpass, a similar bridge in the area as a precautionary measure.

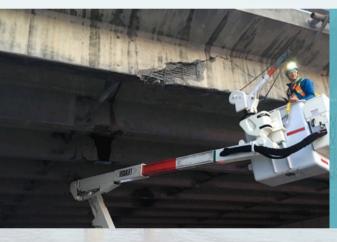


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BRIDGES ASSET





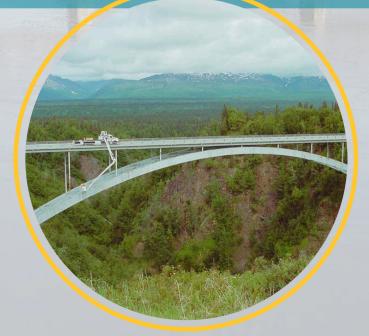


Bridge strikes have been increasing in Alaska over the past two decades despite our state having very few low bridges. Our MSCVC division has an updated permitting system that now automatically updates any change in bridge height, and 511 now lists all bridge heights on state routes.

SEISMIC VULNERABILITY

S33 MILLION

research and development to design and retrofit bridges for better seismic performance, especially with Alaska's frozen soils.



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HIGHWAYS Asset

5,682 CENTER LINE MILES OF ROADS/HIGHWAYS

A centerline, equidistant from the edges of a road or highway, measures its total length as centerline miles, regardless of lanes or width.

3 SAFETY CORRIDORS



986

CROSSWALKS



UNPAVED

Lane miles are calculated by multiplying the number of through lanes by the centerline length of a roadway, as defined by the HPMS reporting standards.



1413(9)

SIGNALS

511 UPDATES

AS PART OF OUR COMMITMENT TOCONTINUOUS IMPROVEMENT, WE'RE STRENGTHENING 511.

NEW SCHOOL BUS ALERTS:

Anyone using navigation services will be alerted to a bus stopped with flashers on in their vicinity with greater buffers for high speed routes.

NEW MAINTENANCE MAPPING:

PRELIMINARY

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We'll display where are maintenance vehicles have been to allow you more informed decision-making during winter weather.

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DALTON HWY LONGEST NHS ROUTE IN U.S. (3/4 GRAVEL)

HIGHWAYS ASSET

LANE MILES BY WINTER MAINTENANCE PRIORITY

PRIORITY 5 2,357 MILES

PRIORITY 4 1,273 MILES

> PRIORITY 3 2,203 MILES

PRIORITY 1 1,221 MILES

> PRIORITY 2 4,628 MILES



155 SCHOOL ZONES

7504 BIKE LANES







30.9 MILES



2.78 **MILES**

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PUBLIC FACILITIES ASSET



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PUBLIC FACILITIES ASSET



Modernization: DFS is leveraging cutting-edge technology to enhance the management and upkeep of state-owned facilities. One key innovation is the use of handheld LiDAR scanners to create highly detailed 3D models of building interiors and exteriors.

DFS is investing in the development of 3D models as part of its exploration of artificial intelligence (AI) technologies to create digital twins—virtual replicas of buildings.



PROJECT GOALS ARE TO IMPROVE BOTH THE EFFICIENCY AND EFFECTIVENESS OF FACILITIES MAINTENANCE ACROSS ALL STATE OF ALASKA DEPARTMENTS.

Customer Service:

Division of Facility Services (DFS) has adopted 360-degree cameras to create virtual walk-throughs of occupancy buildings.

PUBLIC FACILITIES ASSET

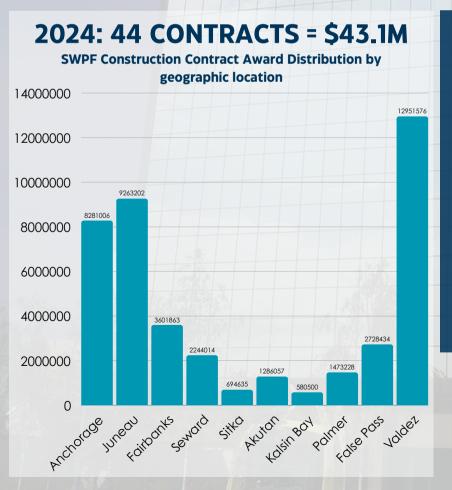
768 MANAGED FACILITIES

ACTIVELY MANAGING \$418M

including **180 projects** in over **50 communities**

5 MILLION SQ FT at 233 locations **\$2B IN REPLACEMENT COSTS** of DOT&PF facilities per Risk Management

PROJECT GOALS ARE TO IMPROVE BOTH THE EFFICIENCY AND EFFECTIVENESS OF FACILITIES MAINTENANCE ACROSS AUL STATE OF ALASKA DEPARTMENTS.



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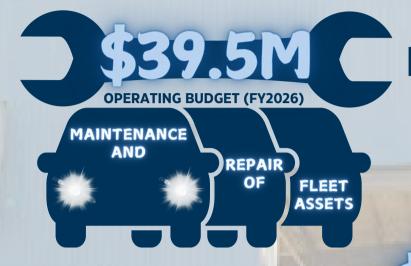
SEF IS RESPONSIBLE FOR MANAGING THE HEWCF As well as support in the form of licensing and maintenance as requested for the University of Alaska and Alaska Housing Finance

Corporation.

SEF is responsible for managing the Highway Equipment Working Capital Fund (HEWCF) that procures, maintains, and disposes of fleet assets for all Executive Branch Agencies. SEF Regional staff provide vehicle and equipment maintenance statewide for all state agencies.

PROVIDING SERVICE STATEWIDE SEF provides vehicle and MANAGERS equipment maintenance **SUPPORTING** statewide for all state agencies. MAINTENANCE IRPORTS SEF also provides support STATIONS in the form of licensing and maintenance as requested for the University of Alaska and Alaska Housing Finance PARTS STAFF AT ADMIN & **JUBS MANAGING** Corporation. SUPPORT STAFF IN ANNUAL PURCHASES & INVENTORY

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FOR MAINTENANCE AND REPAIR OF FLEET ASSETS

BUDGET

(FY2026)

FOR REPLACEMENT OF FLEET ASSETS AT THE END OF THEIR USEFUL LIFE.

MECHANIC

POSITION

VACANCY

RATE

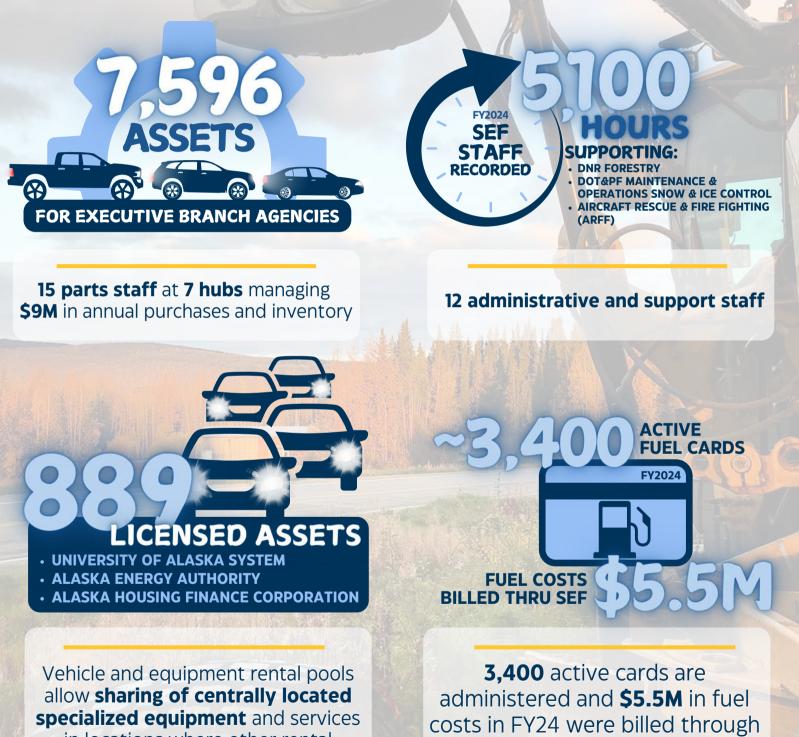
158 STAFF PROVIDING SERVICE STATEWIDE

REPLACEMENT OF FLEET ASSETS AT

THE END OF THEIR USEFUL LIFE

From Ketchikan to Kotzebue and Unalaska to Utqiagvik, SEF services equipment **in over 240 locations** across Alaska, including rural airports and seven major hubs. SEF maintains a diverse range of equipment for **all state agencies,** including snow and ice removal and airport rescue and firefighting gear, DPS State Trooper vehicles, Corrections transport vans and buses, and Natural Resources firefighting trucks and park ranger vehicles.

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in locations where other rental options are not available

the SEF system

THIS COMPREHENSIVE SUPPORT EXTENDS TO ALL ADMINISTRATIVE AND SPECIALIZED VEHICLES ACROSS DEPARTMENTS **DOT Airport Rescue** DOT Snow & Ice & Firefighting removal (ARFF) \mathbf{O} equipment equipment Dept. Natural Dept. Corrections: **Resources:** Prisoner Forestry fire 5 trucks, Park transport vans & Ranger busses vehicles POLICE Dept. Public Safety: Admin & support (\mathbf{x}) State Trooper patrol vehicles: cars, pickups, cars, mobile command units, SUVs, specialty vehicles emergency response units for all departments FOR DOT&PF, RURAL AIRPORT SYSTEM & EQUIPMENT MAINTENANCE **SHOPS STATEWIDE ALL EXECUTIVE** Equipment maintenance **PROVIDING SUPPORT BRANCH AGENCIES** shops statewide provide support for DOT&PF, the rural airport system and all executive branch agencies

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DATA MODERNIZATION AND INNOVATION OFFICE SUPPORT SERVICES

A multidisciplinary team including engineers, planners, project coordinators, GIS experts, operations specialists, and administrative staff, dedicated to enhancing Alaska's infrastructure and transportation systems.

DIVISION DIRECTOR



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DATA MODERNIZATION AND INNOVATION OFFICE SUPPORT SERVICES



TRANSIT THROUGH

S INNOVATIVE FUNDING STRATEGIES



DATA DRIVEN SAFETY & ECONOMIC ENHANCEMENTS



Tested drone based avalanche mitigation

Launched Real-Time Safety and Operations Tools) Launched Partners in Safety Statewide

) Deployed real-time winter operations dashboard

) School bus & snow plow alerting

"Our goal is to enhance Alaska's transportation system and economic vitality through innovative, data-driven decisionmaking that meets the needs of all Alaskans."

UPCOMING INITIATIVES

Incident Management System

Develop a Traffic Incident Management System for real-time oversight of Alaska's transportation infrastructure, increase data transparency for public insight into DOT&PF decisions, and continue leveraging federal funding to enhance roadway safety across the state.

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MEASUREMENT STANDARDS & COMMERCIAL VEHICLE COMPLIANCE SUPPORT SERVICES

MSCVC leverages resources and maximizes efforts to support Alaska DOT&PF's mission to enhance motoring public safety, preserve public infrastructure, and assure marketplace confidence and equitable trade.

DIVISION DIRECTOR

Measurement Standards

Permits

Commercial Vehicle Compliance

PRELIMINARY

DRAFT

The Measurement Standards team works diligently to maintain fair practices for residents and businesses throughout Alaska.

The Permits Office analyzes routes and conducts load calculations to ensure safe routes that preserve State infrastructure when movements require oversize and overweight permits.

Weights & Measures Inspectors conduct tests and inspections of commercial weighing and measuring devices, enforcing regulations and educating owners to prevent financial hardships caused by measurement inaccuracies.

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MEASUREMENT STANDARDS & COMMERCIAL VEHICLE COMPLIANCE SUPPORT SERVICES



WEIGHTS & MEASURES VISITED OVER 95 COMMUNITIES



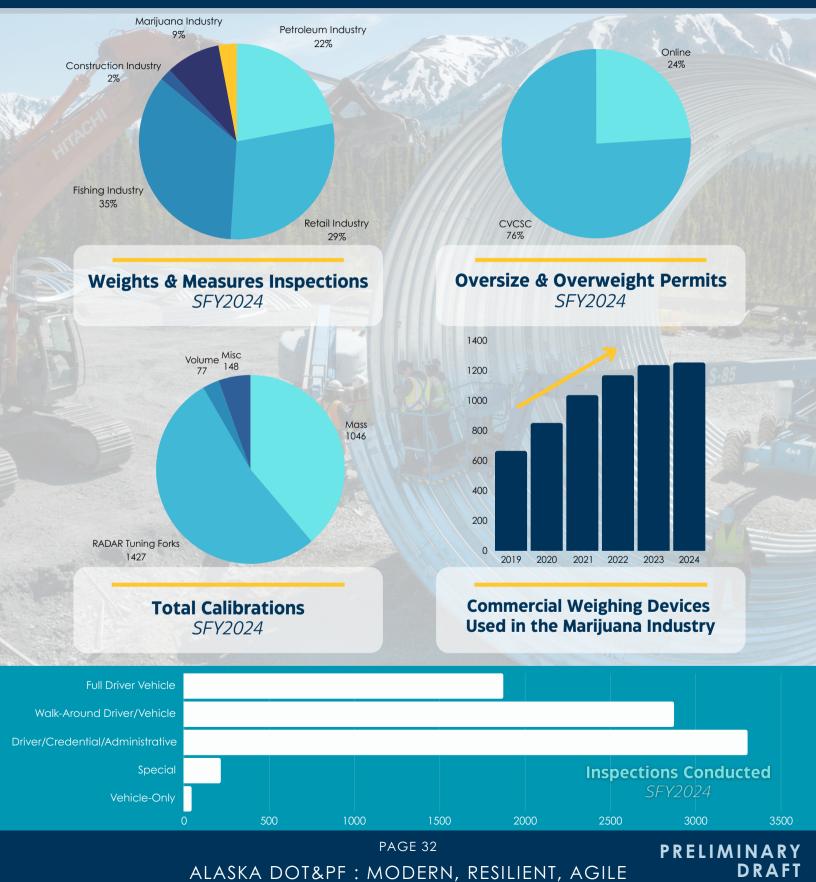
REMOVED 1,042 UNSAFE VEHICLES OR UNQUALIFIED DRIVERS





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MEASUREMENT STANDARDS & COMMERCIAL VEHICLE COMPLIANCE SUPPORT SERVICES





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