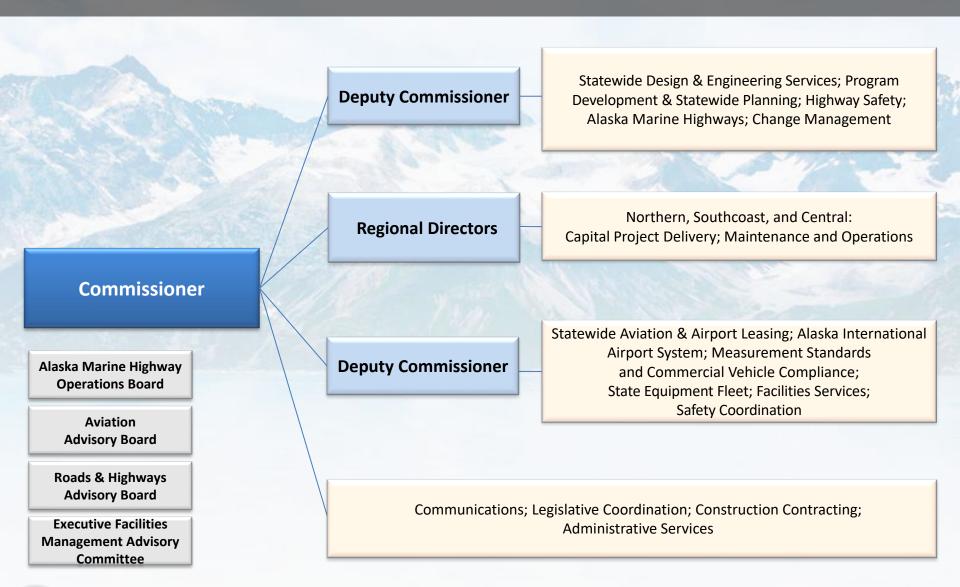


Our mission is to *Keep Alaska Moving* through service and infrastructure.

DOT&PF ORGANIZATION





MISSION: Keep Alaska Moving

Core Values

Integrity • Excellence • Respect • Safety

DOT&PF oversees a network of highways that link together cities and communities throughout the state, thereby contributing to the development of commerce and industry in the state, and that aids in the extraction and development of its resources, and improves the economic and general welfare of the people of the state (AS 19.05.125)



2023



ALASKA'S DOT&PF INFRASTRUCTURE

ROADS & HIGHWAYS

5,682 center line miles / **11,843** lane miles of roads / highways

MAINTENANCE TEAMS

80 DOT&PF staffed maintenance stations*

AVIATION SYSTEM

235 rural airports,2 international airports

ALASKA MARINE HWY SYSTEM

9 ferries, 35 ports of call, along 3500-mile coastal route

MARINE FACILITIES

16 harbors, **1** set of breakwaters

BRIDGES & TUNNELS

851 DOT&PF owned bridges, **3** tunnels**

MEASUREMENT STANDARDS

Inspected **7,438** scales, **4,787** meters, and **296** accessories

STATE EQUIPMENT FLEET

7,366 pieces of state equipment & vehicles

PUBLIC FACILITIES

827 maintained, inclusive of **731** DOT&PF owned

COMMERCIAL VEHICLE ENFORCEMENT

9 Weigh Stations, **2,544,047** tons weighed FFY22

STATEWIDE TRANSPORTATION ASSETS

Approximately \$12.6B

STATEWIDE PERSONNEL AND DISTRIBUTION

3,393 permanent full-time, part-time and non-permanent employees in **8** labor unions in **83** locations

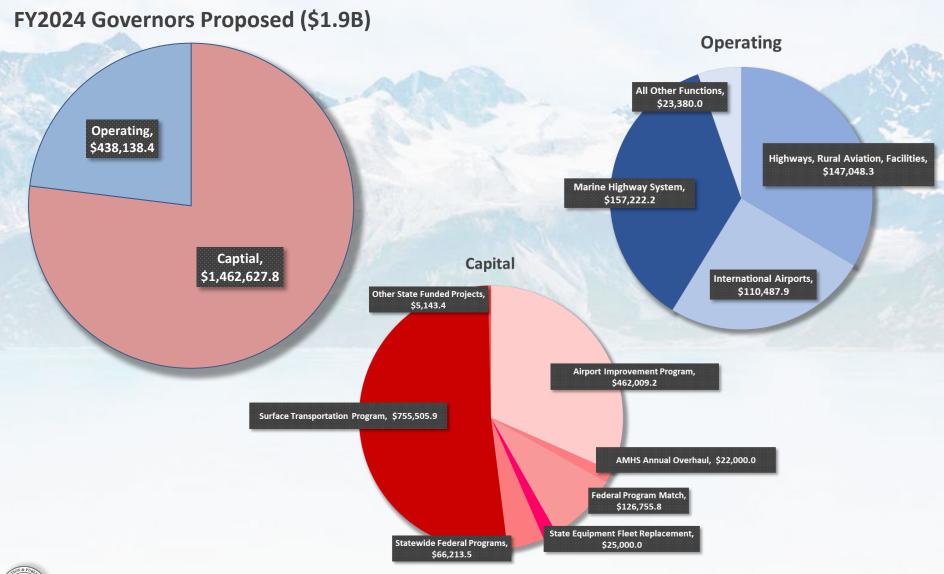
Federal Fiscal Year (FFY)

*Includes seasonal maintenance stations

**DOT&PF-owned tunnels and maintenance of the 2.5 mile Anton Anderson Memorial Tunnel



ALASKA DOT&PF BUDGETS & FUNDING





\$ in Thousands (1,000); Duplicate funding excluded

OUR TEAM









Statewide Aviation



Alaska International
Airport System



Alaska Marine Highway System



Design and Engineering Services



State Equipment Fleet



Measurement Standards & Commercial Vehicle Compliance



Program Development



Facilities Services
Division





STRATEGIC INVESTMENT AREAS



ORGANIZATIONAL EXCELLENCE







WORKFORCE

COMMUNICATION

CULTURE

INNOVATION

INFORMATION

RESOURCING

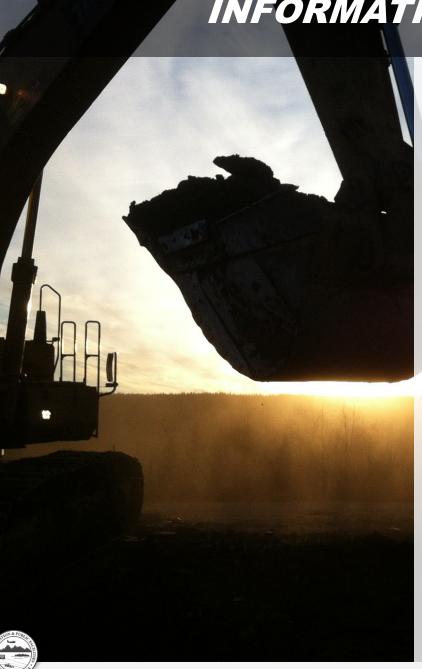
PROJECT DELIVERY











Challenges with the old system @navigator

- Exclusively road traffic impacts
- Funding source did not cover aviation
- Excluded most rural Alaska projects
- Redundancy in effort with 511

Solutions with the new system



- Single source of information for all traffic impacts (maintenance, construction, weather, crashes, cameras)
- Meets the public where they're at--via phone, website, and mobile app
- Automatic data grab reduces data entry effort

INFORMATION X - DATA



Challenges

- Need to communicate more than traffic impacts
- No central location to find information
- Data is collected, stored, and managed differently in each region
- Extensive manual data entry

Solutions

- Public-facing GIS map with expanded project info, STATEWIDE
- Layers of data show legislative boundaries, municipal boundaries, and more
- Automatic data processing and reports to reduce manual entry
- Scalable useful for internal & external data

REGION-WIDE CENTRAL REGION | 2023 CONSTRUCTION **PROJECTS** BETHEL AREA **NUNAPITCHUK KWETHLUK ATMAUTLUAK BETHEL ANCHORAGE NEWTOK** CHEFORNAK BETHEL KIPNUK **KONGIGANAK NEW STUYAHOK** EKWOK **TOGIAK**

- **1** Automated Weather Observing Systems, Various Locations
- 2 Newtok Airport Relocation
- **3** | Chefornak Airport Rehabilitation
- 4 | Kipnuk Airport Rehabilitation
- **5** | Kongiganak Airport Improvements
- 6 | Togiak Airport Resurfacing

- **7** | Ekwok & New Stuyahok Airport Resurfacing
- 8 | Sleetmute Airport Runway Resurfacing and Lighting Replacement
- 9 | Nunapitchuk Airport Improvements
- **10** | Atmautluak Airport Improvements
- 11 | Bethel Main Runway Reconstruction
- 12 | Kwethluk Airport Rehabilitation



ANCHORAGE MUNICIPALITY
2023 CONSTRUCTION

AREA-WIDE PROJECTS









A Street, Northern Lights Blvd to 40th Avenue Pavement Preservation

A Street, Midtown Couplet Overhead Signal Indication

Minnesota Drive: Tudor to 15th Avenue Pavement Preservation

| Anchorage International Airport - Multiple Projects

| Muldoon Road, Debarr Road to E 36th Avenue Pavement Preservation

| Chugach Foothills Connector, Phase II (AMATS)

| Elmore Road Pavement Preservation: Abbott Road to Providence

Dowling Road and Seward Highway Interchange Reconstruction

| Seward Highway: O'Malley to Dimond Reconstruction

O'Malley Road Reconstruction, Livingston St to Hillside Dr, Phase II

De Armoun Road, E 140th Avenue to Hillside Drive Pavement Preservation

McHugh Road Weather Information System Tower Upgrade

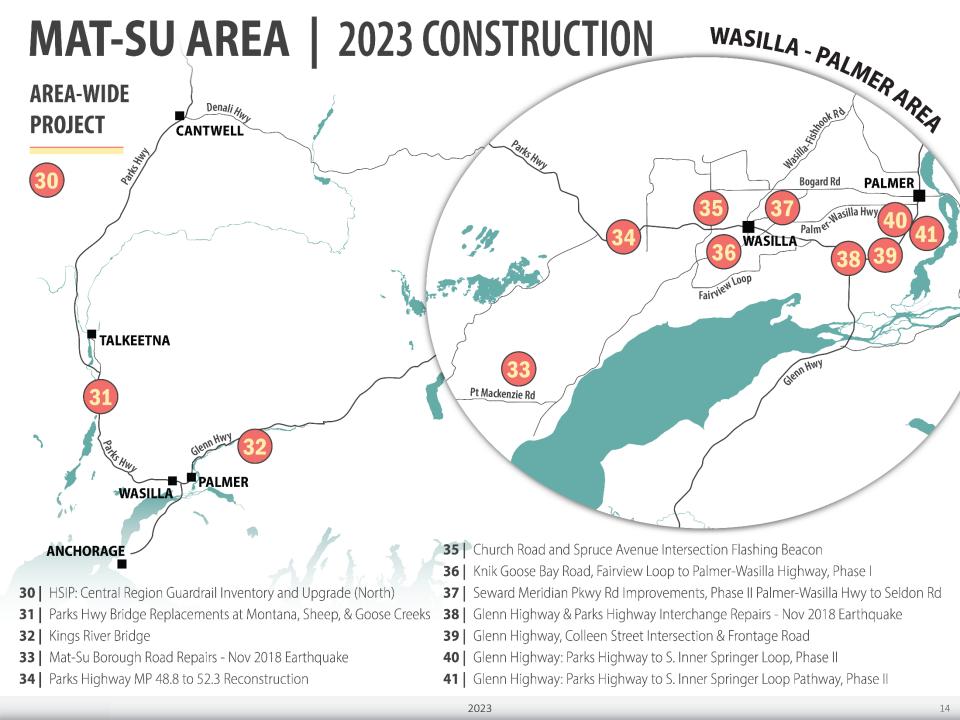
| Hiland Road MP 0-3.2 Pavement Preservation (AMATS)

| Anchorage Area Drainage Improvements FY 2019

Anchorage District, Group B – Nov 2018 Earthquake

| HSIP: Central Region Guardrail Inventory & Upgrade







NORTHERN REGION

Richardson Highway MP 35-40 Resurfacing

31 | Richardson Highway Passing Lanes

NORTHERN REGION | 2023 CONSTRUCTION

- 1 | Noorvik Airport Rehabilitation
- 2 | Kotzebue to Cape Blossom Road Stage 1
- 3 | Shageluk Airport Access Road Improvements
- 4 Dalton Highway MP 289-305 Rehabilitation
- 5 | Totchaket Road

CONTINUING IN 2023

- 6 | Parks Highway MP 231 Enhancements
- 7 | Alaska Highway MP 1235-1251 Rehabilitation
- 8 | Alaska Highway MP 1222-1227 Resurfacing
- 9 | Burma Pit Road Little Tonsina Bridge
- 10 | Richardson Highway MP 40-51 Resurfacing
- 11 | Northern Region Guardrail
- 12 | Point Hope Airport Realignment
- 13 | Kotzebue to Cape Blossom Road Stage 2
- 14 | Selawik Barge Access & Boardwalk Improvements
- 15 | Shishmaref Airport Erosion Control
- 16 | Deering Airport, Snow Fence & Access Road
- 17 | Brevig Mission Airport Lighting & Resurfacing
- 18 | Nome Port Road Improvements
- 19 | St. Mary's Airport Improvements
- 20 | Marshall Airport Improvements
- 21 | Dalton Highway MP 18-37 Reconstruction
- 22 | Elliott Highway MP 51-63 Reconstruction
- 23 | Healy Spur Road Rehabilitation
- 24 | Alaska Highway MP 1330-1390 Passing Lanes
- 25 | Richardson Hwy MP 233 Bear Creek Bridge Replacement





2023

This map was updated on September 21, 2022

GLENNALLEN

UTQIAĠVIK

CONTINUING

NORTHERN REGION

FAIRBANKS AREA | 2023 CONSTRUCTION

32 | Chena Hot Springs Road MP 0-6 & Roundabouts

33 | Airport Way West Improvements

34 | Airport Way / Steese Expy Reconstruction and Steese Expy Chena River Bridge Redeck

35 | Rosie Creek Road Improvements

36 | Old Steese at Fox Shoulder Widening

37 | Northern Region ADA Improvements College Road

38 | Aurora Drive Noyes Slough Bridge Replacement

39 | East College Road Resurfacing

40 | 5th Avenue Reconstruction

41 University Avenue (Segment 2c)

42 | Chena Ridge and Chena Pump Resurfacing

43 | FAI General Aviation Apron Rehabilitation

44 | Richardson Hwy MP 359 Railroad Crossing

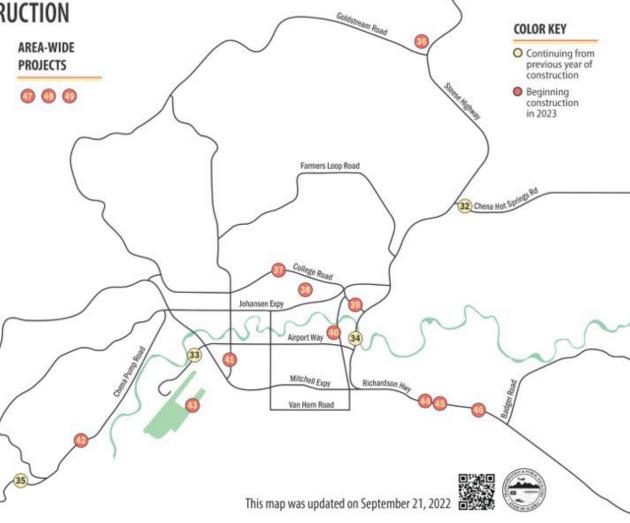
45 | Digital Messaging Signs (Parks & Richardson Hwys)

46 | Richardson Hwy MP 357-362 Bicycle/Pedestrian Path

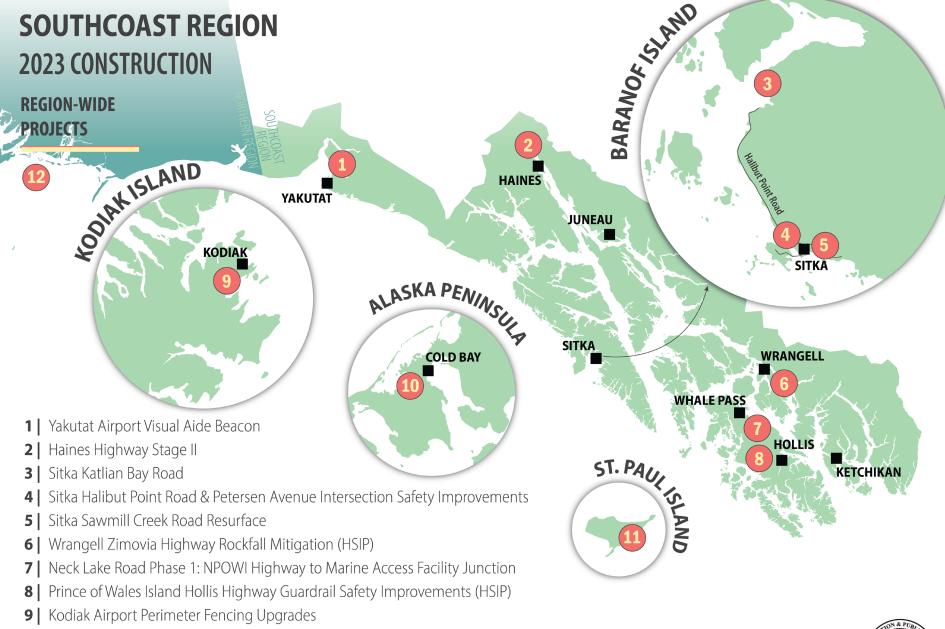
47 | Fairbanks Area Vehicle Plug-Ins

48 | FAST Planning Surface Upgrades

49 | North Pole Street Light Standardization





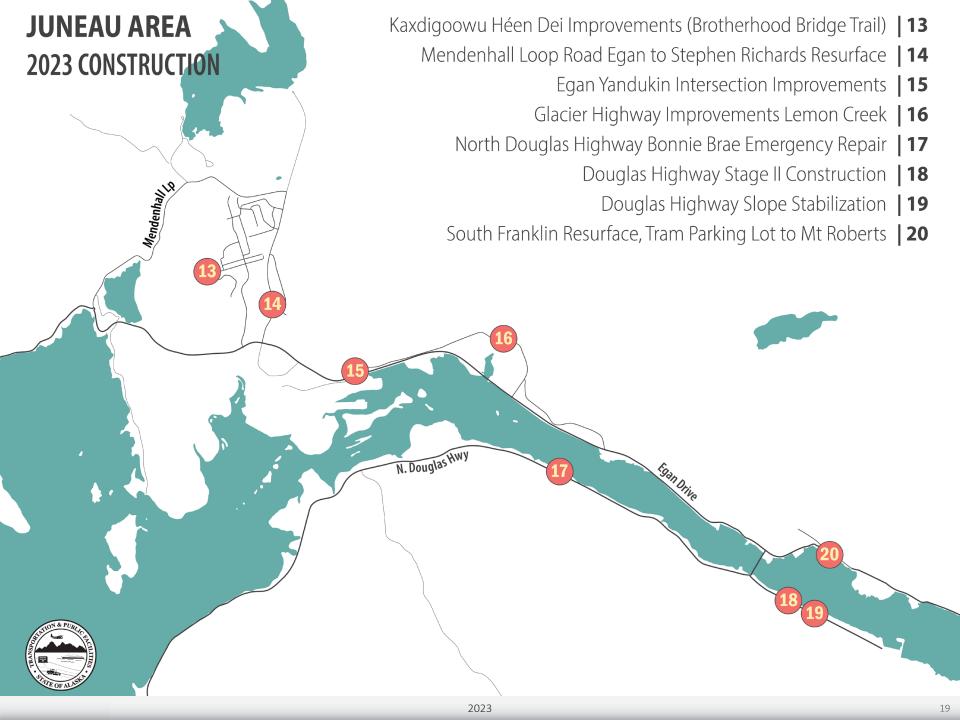




10 | Cold Bay Airport Chemical/Snow Removal Equipment Building

11 | St. Paul Visual Aide

| FEMA Emergency Projects





SOUTHCOAST REGION: Katlian Bay Road Project

Risks: 9 miles new road construction

Challenges

- Extremely steep terrain
- Unexpected quantities of overburden
- Natural and construction related landslides
- Strict permitting requirements

Solutions

- Completed a pioneer route and survey in 2022 reducing the number of unknown conditions
- Optimize alignment during winter shutdown to conditions encountered constructing the pioneer route
- Work closely with permitting agencies and adjacent property owners to facilitate alignment shifts and larger waste areas

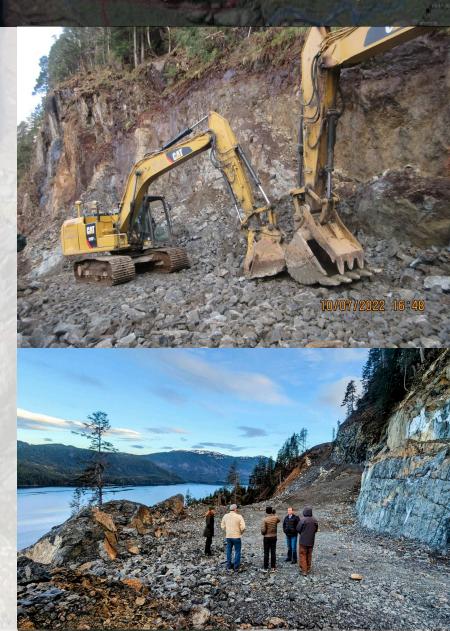
Original Contract: \$31.8M

Original Completion Date: 30Sep2023

Estimated Contract at Completion: \$53.8M Estimated Contract Completion: 31Dec2024

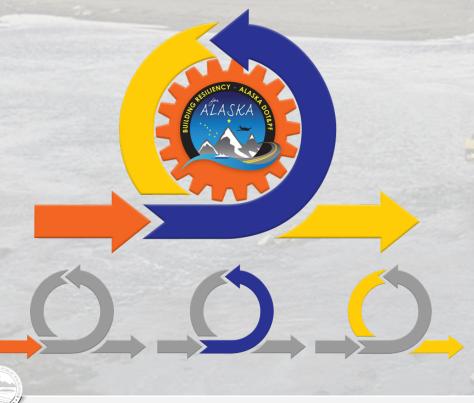
Total Cost at Completion (Est.): \$67.9M





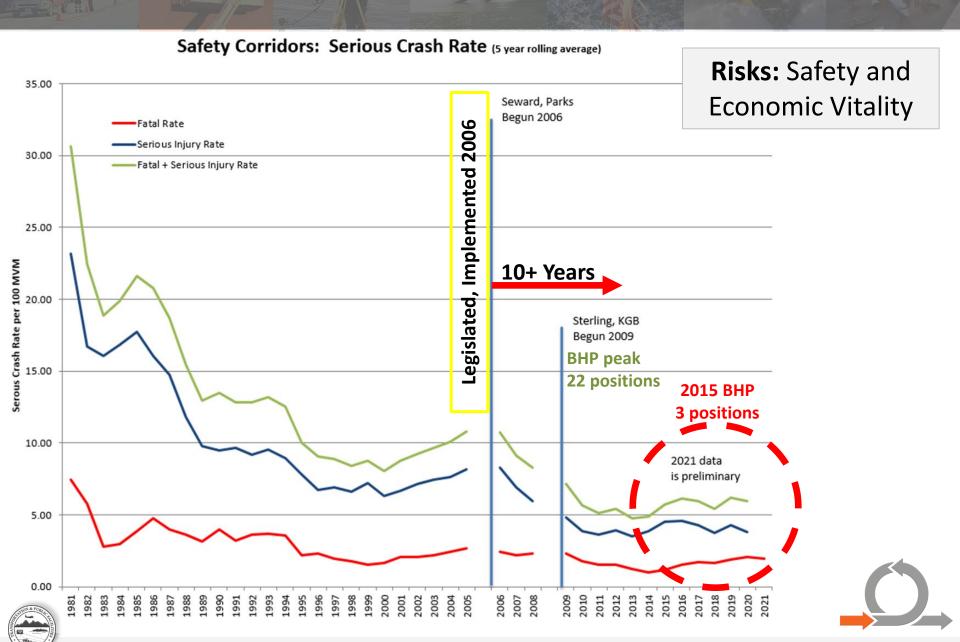
SERVICES TO ALASKANS

- Safety Corridors
- West Coast Alaska Storm Response
- Winter Maintenance
- Community-Driven Planning
- AMHS Reliability





SAFETY CORRIDORS



SAFETY CORRIDORS: Next Steps



Solutions: Engineering, Enforcement, Education, Emergency Response

Engineering Solutions

- Seward Highway, Potter Marsh to Girdwood
- Parks Highway, Wasilla to Houston
- Sterling Highway, Sterling to Soldotna
- Knik-Goose Bay Road, Palmer-Wasilla Highway to Point MacKenzie Road

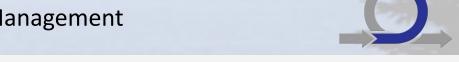
Education Campaigns

Enforcement Campaigns

Bureau of Highway Patrol

Emergency Response Support

 Glenn Highway Integrated Corridor Management



WEST COAST ALASKA STORM RESPONSE

Risks: Safety, Resiliency

Challenges

- Multiple day storm Sept. 16-19
- Impacts over hundreds of miles
- High winds, strong coastal wave, storm surge, floods
- Norton Sound sea level rise of 8-18 ft.
- Over 50 miles of fed-aid highway damaged

Solutions

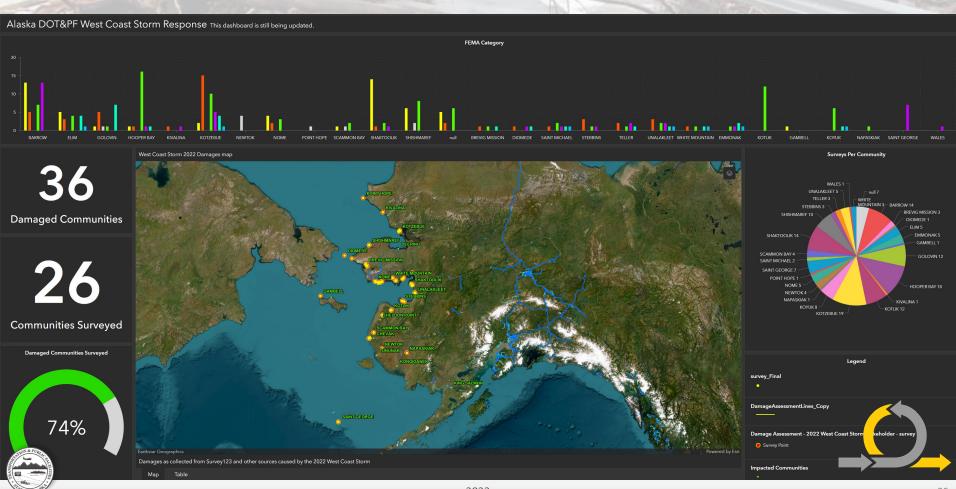
- Local DOT&PF maintenance took early actions to reopen runways
- Emergency Declarations completed quickly
- Emergency Procurements prioritized
- Contractors, Communities, & DOT&PF staff teamed up to repair infrastructure
- Partnerships with DMVA, DEC, FAA, ANTHC, FEMA, FHWA, Local Governments & more





WEST COAST ALASKA STORM RESPONSE: Next Steps

Solutions: Technology, Coordinated Damage Assessments, Real time responses to repair requests, Agile Project Management Processes



2023

WINTER MAINTENANCE

Risks: Safety, Economic Vitality,
Resiliency

DOT&PF Challenges:

- Increasing frequency of extreme events
- Vacancies, shortage of qualified workers
- Supply chain challenges
- Constrained resources







WINTER MAINTENANCE: Next Steps

Solutions: Partnering, Workforce
Development; Recruitment Retention,
Flexibility / Scalability

Partnering

- Local Government coordination
- Leveraging DOT&PF resources statewide

Workforce Development

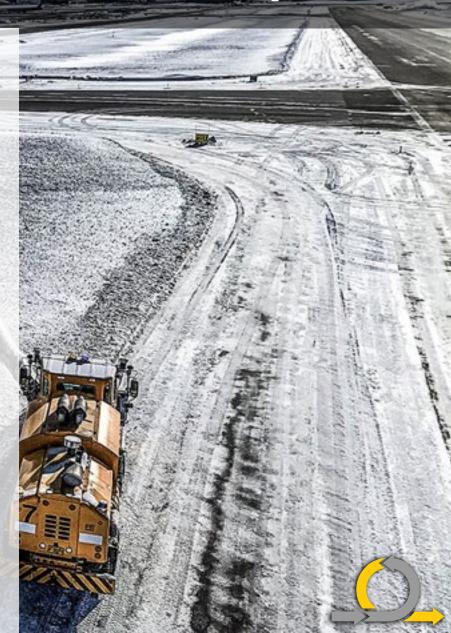
- Incident Command System training
- CDL, Equipment Operators

Recruitment Retention

- Flexible work schedules 1X1 & 2X2
- Mission Critical Incentive Pay

Flexibility/Scalability

- Use of contracts for emergency response
- Use of contracts or local government agreements to meet basic level of service



COMMUNITY-DRIVEN PLANNING



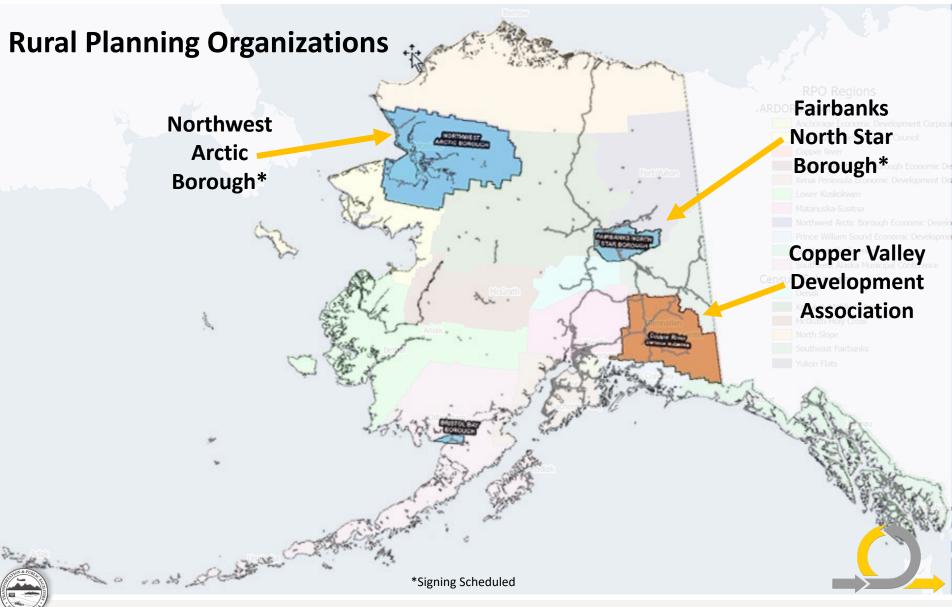
Risks: Safety, State of Good Repair, Economic Vitality, Resiliency

Challenges:

- Alaska has many rural, unorganized areas
- Alaska is multi-modal, funding is not
- Geographical expanse of planning areas are largest in the nation
- Alaskan communities are unique in their Transportation needs.



COMMUNITY-DRIVEN PLANNING: Next Steps



AMHS RELIABILITY



Risks: Safety, State of Good Repair, Economic Vitality

Aging vessels more expensive, longer in shipyard, impacting schedule and budgets.

Challenges

- Unexpected delays for travelling public
- Overhaul timeframes increase
- Overhaul expense increasing
- Essential service to coastal communities is reduced with due to ship availability reductions



AMHS RELIABILITY: Next Steps



Solutions: Capital investment; IIJA; Discretionary Grants

- Charting the Course Initiative
- Operational Audit
- Review of maintenance and overhaul practices
- Leverage younger ships in the fleet
- Pursue capital program for vessel replacement via IIJA funding, discretionary grants



