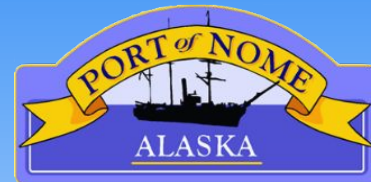


# ALASKA'S ARCTIC DEEP-DRAFT PORT AT NOME

DRIVING REGIONAL EMPLOYMENT  
EXPANDING ALASKA'S ECONOMY  
SUPPORTING NATIONAL SECURITY

Finance Committee  
Alaska State House of Representatives  
March 2022



# REGIONAL TRANSSHIPMENT HUB

- ▶ Serving over 60 communities (Platinum to Barrow)
  - ▶ Maritime Hub Services
    - ▶ Community resupply (fuel, vehicles, equipment, buildings, appliances, groceries)
    - ▶ Commercial & Subsistence fisheries
    - ▶ Construction project equipment/materials
    - ▶ Environmental/Oil Spill Response
    - ▶ Resource Development
    - ▶ Search and Rescue
    - ▶ Scientific research
    - ▶ Industrial support
    - ▶ Tourism





# COMMODITY MOVEMENT



Fuel Lightering Operations



On-water Transfers

Deliveries to Shore



# SHIP RESUPPLY/CREW CHANGE

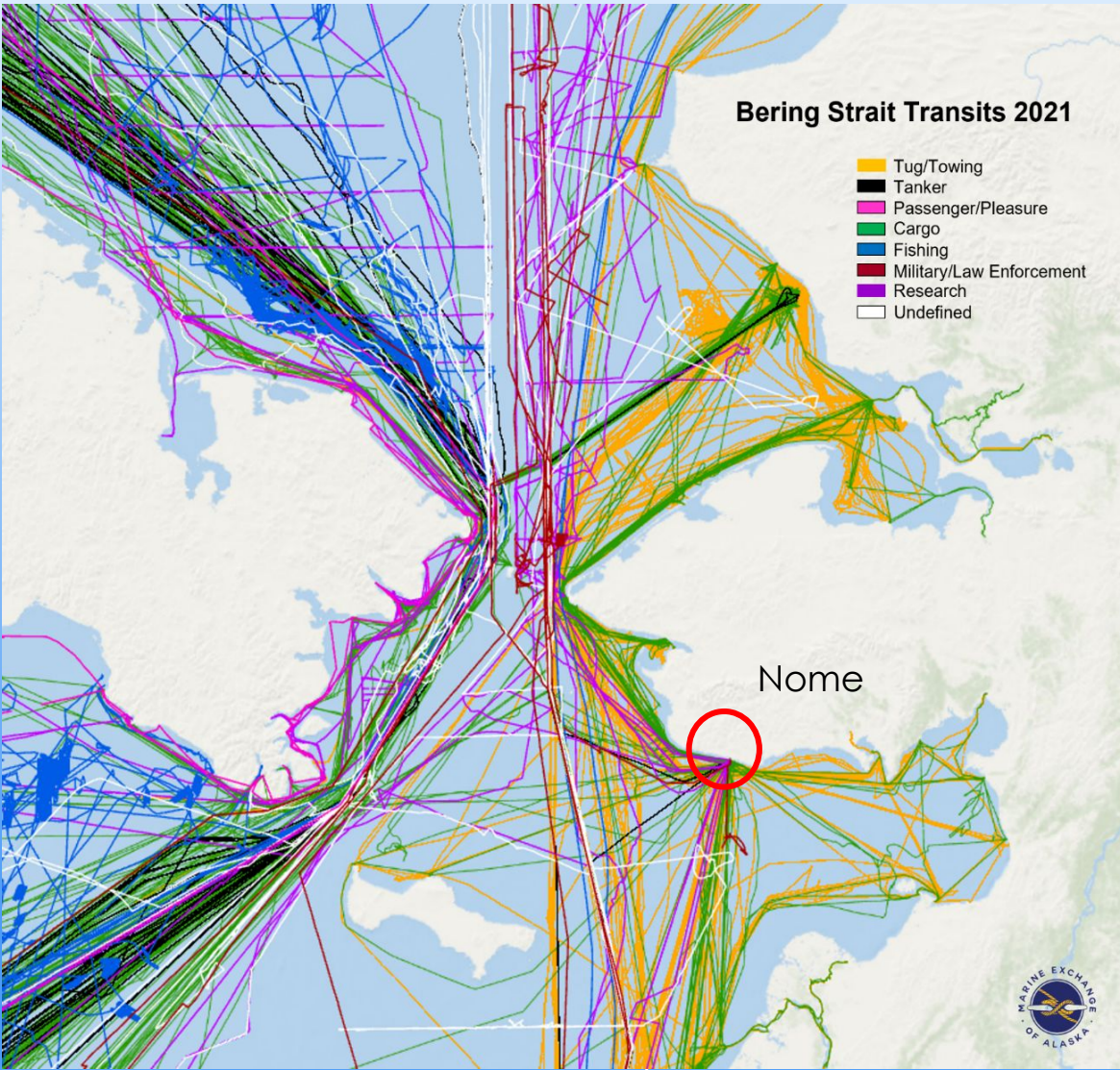




# BERING STRAIT VESSEL TRAFFIC

Year	Northbound	Southbound	Total
2009	136	126	262
2010	128	114	242
2011	124	115	239
2012	154	162	316
2013	171	173	344
2014	130	125	255
2015	232	220	452
2016	158	182	340
2017	164	196	360
2018	183	175	358
2019	241	236	477
2020	260	290	550
2021	278	277	555

Bering Strait transits have increased by 112% since 2009



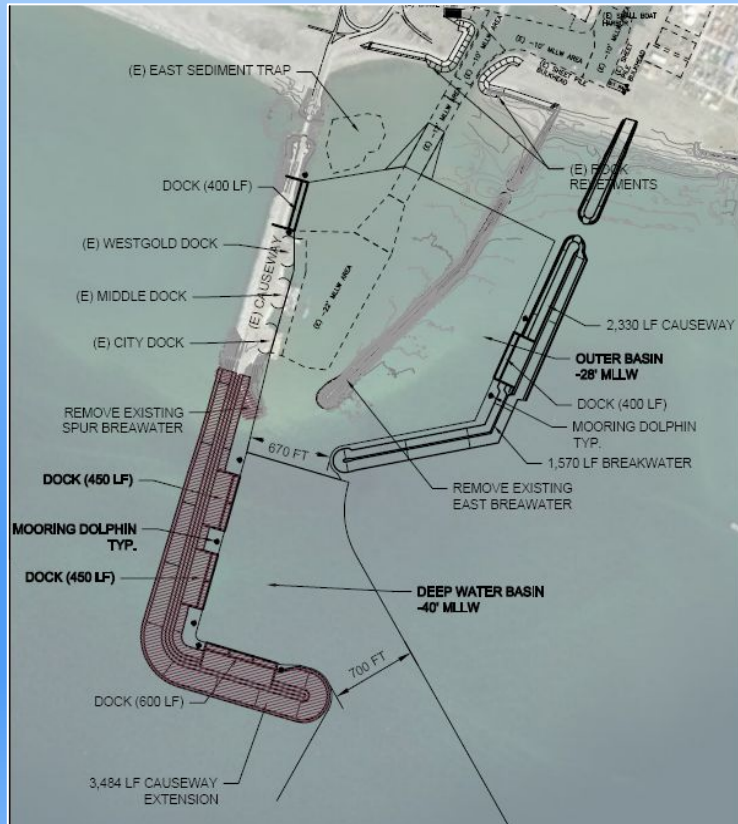
Extent of vessel movements during the ice-free season



# GENERAL NAVIGATION FEATURES (GNF) COST-SHARED WITH CORPS

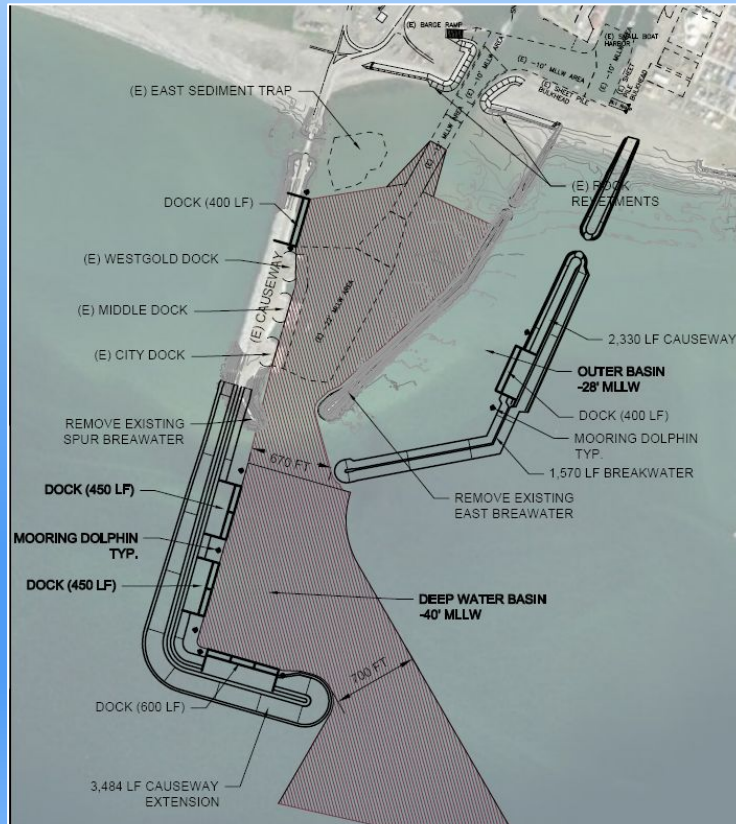
## PHASE 1

- Stub BW removal
- Causeway extension
- Dock construction



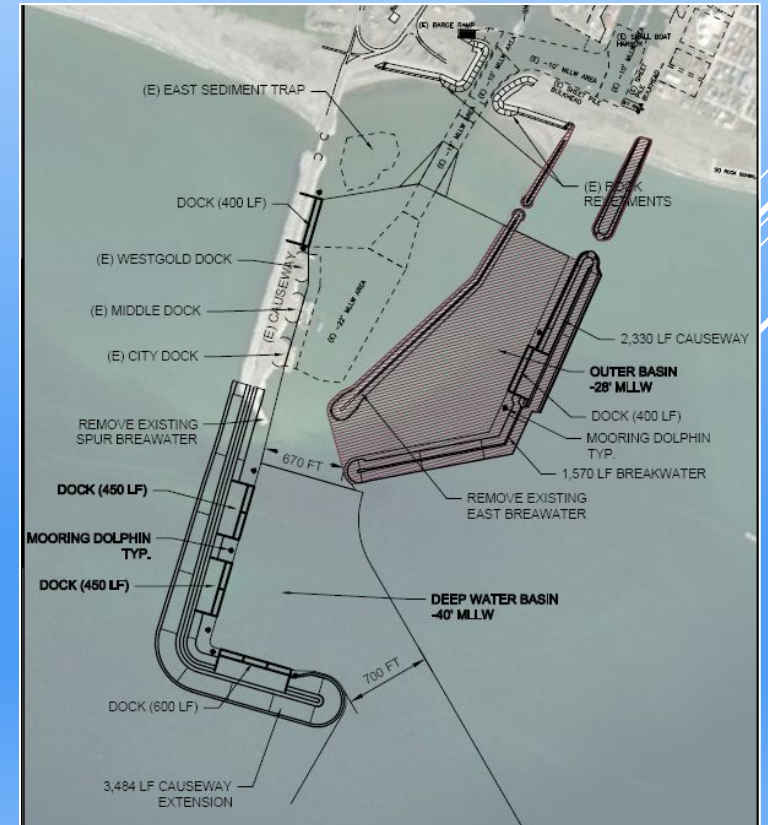
## PHASE 2

- Deep water basin dredging
- Outer basin expansion



## PHASE 3

- East BW demo
- Outer basin expansion
- East causeway construction







# PORT OF NOME



ENGINEERS, INC.

- Docks
- Roads
- Bridges
- Dolphins

Existing



- Breakwaters
- Dredging



- Fuel
- Power
- Water
- Waste
- Lighting



January 2022



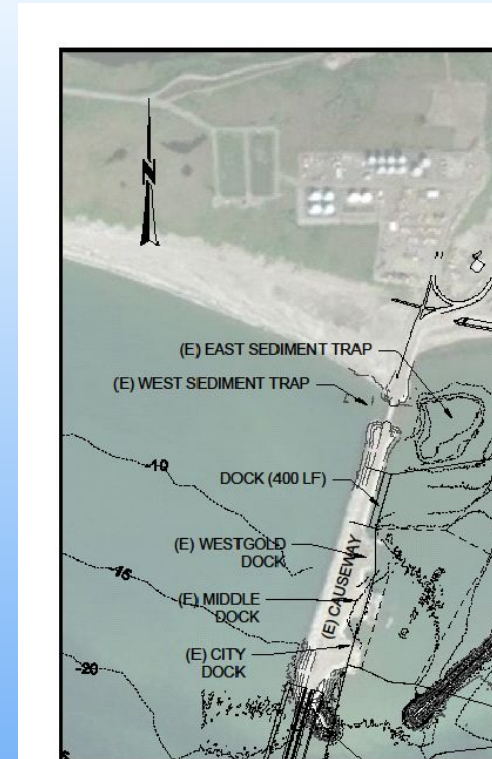
ENGINEERS, INC.

ALASKA'S ARCTIC DEEP DRAFT PORT AT NOME

# ARCTIC DEEP DRAFT PORT MODIFICATIONS

## PROJECT PURPOSE AND OBJECTIVES

- Only deep-water port in the U.S. Arctic.
- Serves as critical link for regional communities to rest of Alaska.
- Existing port facilities in the region are overcrowded, with insufficient draft to accommodate larger, deep-draft vessel traffic.
- Purpose of this project is to provide safe, reliable, and efficient maritime transportation for movement of commerce, national security, and tourism at the Port of Nome.
- Proposed project objectives:
  - Search and Rescue, Oil Spill Response, Resource Exploration
  - Reducing draft limitations for more efficient vessels.
  - Increasing dock space for safety & to avoid delays.
  - Widen navigable space for more efficient vessel maneuvering.





# TARGETED BENEFITS OF ARCTIC DEEP-DRAFT PORT AT NOME

## National Security & Life Safety

Strengthen U.S. presence in Arctic

Critical refuel/resupply support for SAR

## Environmental Safety

Regional staging for oil spill response assets

Reducing need for offshore fuel transfers

## Economic/Cultural Sustainability

Lowering regional transportation costs

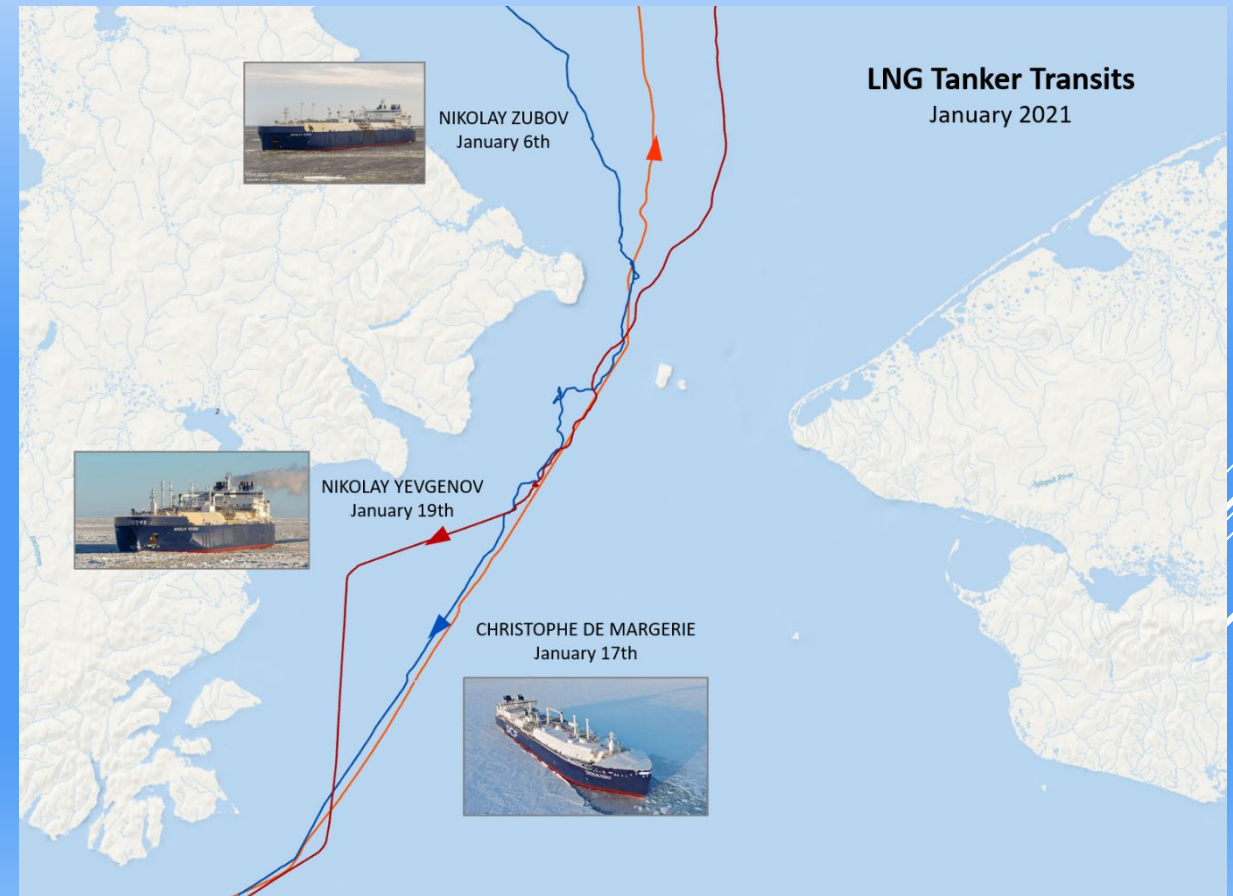
Bringing economic opportunity to the region

## Research & Resource Development

Enhanced mission support through hub services

## Tourism & Recreation

Support increased ship calls (23 ships scheduled 2022) with more ice-hardened hulled vessels coming online





# NATIONAL SECURITY/MARINER SAFETY

## ▶ National Security

- ▶ Strengthen U.S. presence by expanding Arctic Ports to stage strategic assets
- ▶ Establish year-round Arctic facilities to drive further infrastructure development

## ▶ Life Safety

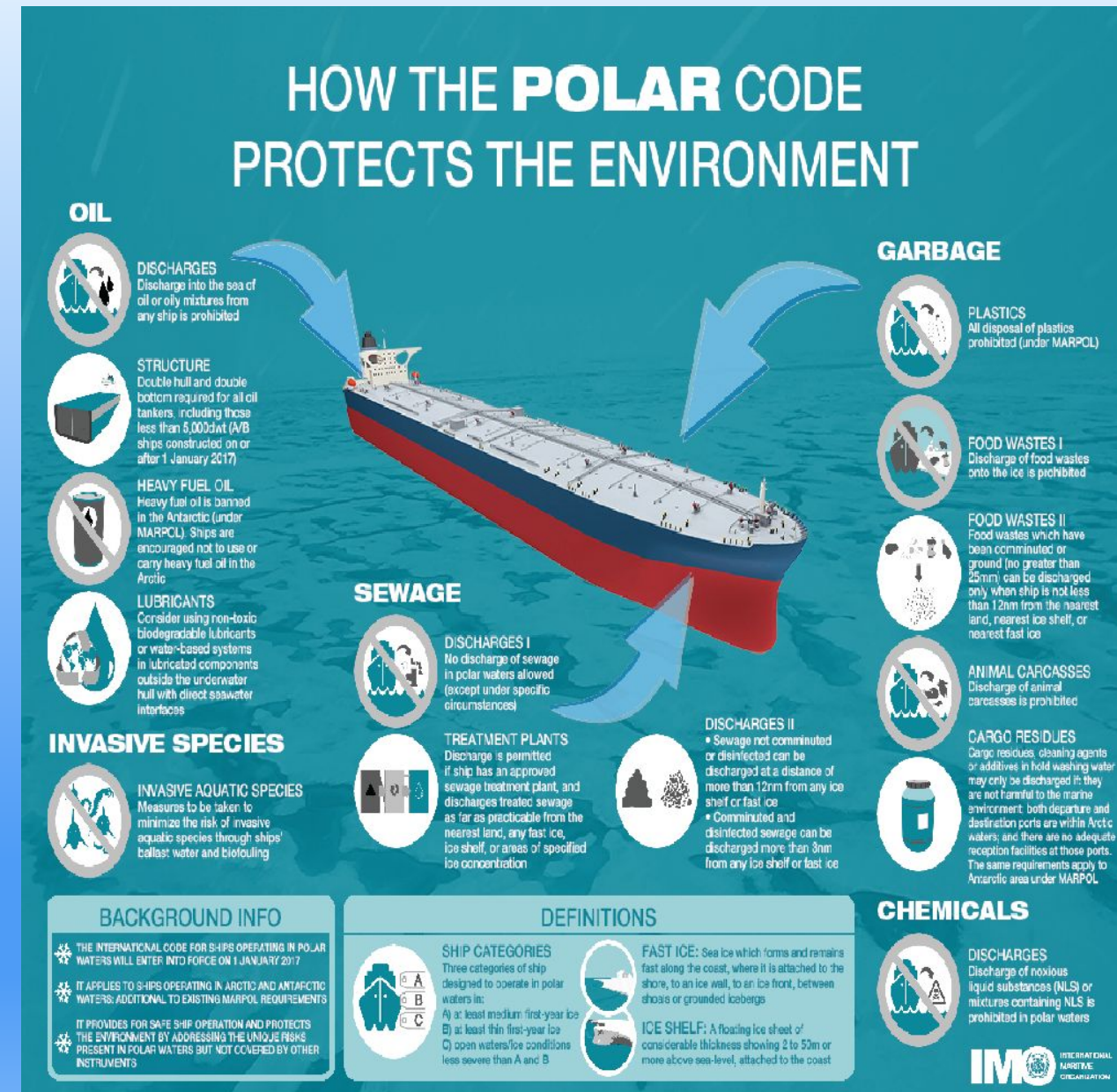
- ▶ Enable Coast Guard to operate more efficiently in Arctic with base support
- ▶ Increase response capacity to meet nearly double the demand in activity
- ▶ Expand on role as a port of refuge





# ARCTIC PORT RECEPTION FACILITY

- Polar Code changes have escalated the need for port reception facilities in the Arctic to provide ships an alternative to discharging waste into the water.
- As the only coastal port in the region, Nome commissioned a feasibility study in 2017 to investigate serving that role.
- Increased vessel transits in the Bering Strait highlight the need to accelerate development.
- Nome is currently seeking to obtain funds to finalize design and construct an APRF.





# MINING & RESOURCE DEVELOPMENT

- ▶ Development of onshore mineral deposits
  - ▶ Gold, graphite, lead, zinc, and silver
  - ▶ Supplies/equipment move/demove
  - ▶ Mineral export – active & potential
- ▶ Active quarry stone mining at Cape Nome
  - ▶ Highest-grade quality basalt
  - ▶ Estimated production of .5 million tons since 1984
  - ▶ Quarry life expectancy = 100+ year estimate
- ▶ Project rock quarry at Cape Darby
- ▶ Offshore mining activity – continues to grow



# ECONOMIC BENEFITS – DURING CONSTRUCTION

## ACROSS 4-5 SUMMER SEASONS\*

- Regional:
  - Jobs: 818    Income: \$77.6M    + \$100M secondary spending
- Statewide (below includes regional):
  - Jobs: 2,938    Income: \$207M    + \$291M secondary spending
- National (below includes regional and statewide):
  - Jobs: 5,515    Income: \$365M    + \$545M secondary spending

\*Source: USACE Modifications Feasibility Study – Economics Appendix



# ECONOMIC BENEFITS – POST CONSTRUCTION

## LONG TERM OPERATIONS AND MAINTENANCE\*

- Regional:
  - Jobs: 5      Income: 607K      + \$802K secondary spending
- Statewide (below includes regional):
  - Jobs: 34      Income: \$2.4M      + \$3.3M secondary spending
- National (below includes regional and statewide):
  - Jobs: 60      Income: \$4M      + \$5.9M secondary spending

\*Source: USACE Modifications Feasibility Study – Economics Appendix

# PHASE 1 – FINAL DESIGN & CONSTRUCTION

(In Millions)	75%	25%		100%	GNF +LSF	+10% GNF
	GNF			LSF		
	COE	NFS	TOTAL+	NFS	NFS Total	NFS
Phase 1	\$250	\$83	\$333	\$81	\$164	\$33
Final Design/Bid/LSF Inspect.	N/A	N/A	N/A	\$8.6	\$8.6	
Phase 2 – Design/Inspection	N/A	N/A	N/A	\$2.4	\$2.4	
NFS/CITY TOTAL		\$83		\$92	\$175	

GNF – General Navigation Features (cost-shared)

NSF – Non-Federal Sponsor (City)

LSF – Local Sponsor Facilities (100% City)

+ Cost up front is 75%-25% with another 10% paid over time



# PROJECT DESIGN AND CONSTRUCTION SCHEDULE

	DESIGN		CONSTRUCTION			
PHASE	STARTS	100%	BIDS	AWARD	BEGINS	ENDS
1	July 2021	<b>Jan 2023</b>	<b>March 2023</b>	Sept 2023	Spring 2024	Fall 2025
City (NFS)		Sign PPA*	Provide Funds			
2	Nov 2022	TBD	TBD	TBD	Spring 2026*	Fall 2026**
3	TBD	TBD	TBD	TBD	Spring 2027*	Fall 2027**

\*Project Partnering Agreement

\*\*ESTIMATES ONLY

# ALASKA'S ARCTIC DEEP-DRAFT PORT AT NOME

## THANK YOU

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CITY OF NOME

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JOY BAKER – PORT DIRECTOR  
CITY OF NOME

[jbaker@nomealaska.org](mailto:jbaker@nomealaska.org)

