

Institute of the North

Alaska's Arctic Think-and-do Tank

Presentation by
Nils Andreassen Executive Director

| Responding to |

Fundamental challenges facing Alaska and Alaska's Arctic:

- Infrastructure deficit – response capacity
- Significant change taking place
- State and national environment of fiscal constraint
- Increasing international and national attention; local and regional fear
- Communications

Considerations for EDT:

- Anticipating future states – opportunities and challenges
- State's role in facilitating development

International Activity

- Arctic Council
 - AMSA Status on Implementation
 - Working Group projects
- International Maritime Organization
 - Polar Code due to be released in 2014
 - Will provide guidance for Arctic marine shipping operations
- Law of the Sea claims
- PNWER Arctic Caucus
 - Collaborative effort by Alaska, Yukon and NWT to unify priorities and leverage sub-national voices

Considerations for EDT:

- Maintain awareness of these efforts and how they impact Alaska

International Activity

Arctic Council - AMSA Status on Implementation

- Clear movement to satellite AIS reporting (EMSA - CleanSeaNet)
- Black carbon continues to be challenge
- Association of Arctic Cruise Ship Operators – nothing on this side of the Arctic
- Oil spill response barge based in Tuktoyaktuk
- Cultural and environmentally sensitive protected areas
- BarentsWatch (monitoring and information sharing system) → could be good model for Bering Strait
- Ballast water management and waste management increasingly a concern
- Arctic ERMA – NOAA efforts – possibility for collaboration?
- Hydrographic, Meteorological and Oceanographic Data

Considerations for EDT:

- | | |
|------------------------|------------------------------|
| • AIS investment (pro) | Marine Protected Areas (con) |
| • Tourism (con) | Federal efforts (pro) |

National Strategy

Advance United States Security Interests

- Evolve Arctic infrastructure and strategic capabilities
- Enhance Arctic domain awareness
- Preserve Arctic region freedom of the seas
- Provide for future U.S. energy security

Pursue Responsible Arctic Region Stewardship

- Protect the Arctic environment and conserve its natural resources
- Balance economic, environmental, & cultural values in management
- Increase understanding of Arctic - scientific research & traditional knowledge
- Chart the Arctic region

Strengthen International Cooperation

- Promote shared prosperity, protect environment, & enhance security
- Work internationally to advance U.S. interests in the Arctic region
- Accede to the United Nations Convention on the Law of the Sea
- Cooperate with other interested parties

Considerations for EDT:

- Develop partnerships that promote economic development

National Activity

- USCG Arctic Strategy
 - Improving Awareness
 - Modernizing Governance
 - Broadening Partnerships

Considerations for EDT:

- Leverage national interest
- Help Coast Guard achieve what it needs

Local Activity

- From competition to collaboration
 - Regional self-awareness of mutual benefit
- North Slope Borough, Northwest Arctic Borough and Bering Straits Energy Planning
 - Test of cooperation and collaboration
 - Needs to result in affordable energy for region
- Leadership Team and Arctic Economic Summit
- Bering Strait Communications Network
 - Newly established forum for engagement and communication
 - Update regional stakeholders and community members about Arctic issues

Considerations for EDT:

- Maintain strong relationship with local/regional efforts
- Anticipate increased locally-driven projects

Alaska Arctic Policy

- Values Community Sustainability and Thriving Cultures
- Balances Resource Development and Environmental Protection
- Ensures National, Community and Individual Security
- Incorporates Transparency and Inclusion into Decision-Making

Considerations for EDT:

- Expand thinking around “economic development” and “opportunity”

Alaska Arctic Policy

- Support Alaska Arctic Policy Commission
- Prepare Alaska for a leading role in the United States chairmanship of the Arctic Council
- Encourage State of Alaska participation in working groups
- Increase understanding of Arctic Council and PPs
- Active cross-border collaboration
- Community and regional engagement, voice

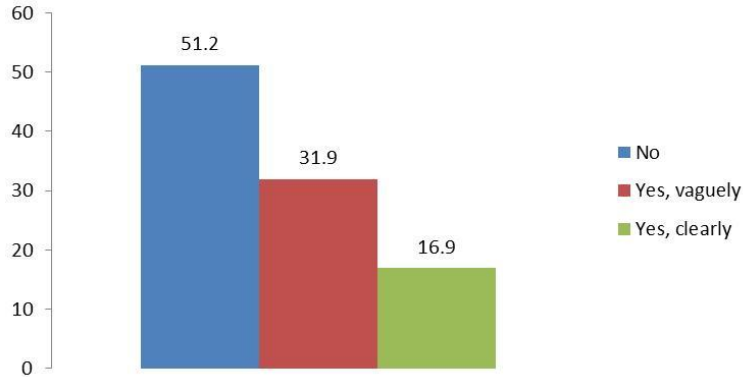


Considerations for EDT:

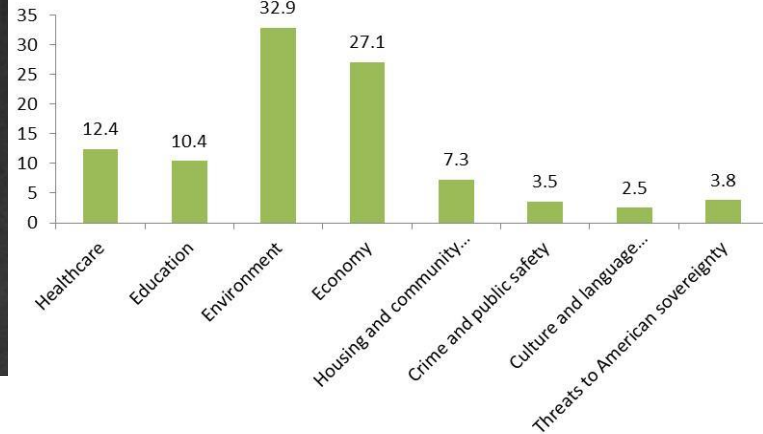
- Explore cross-border trade relationships

Informed by Public Opinion

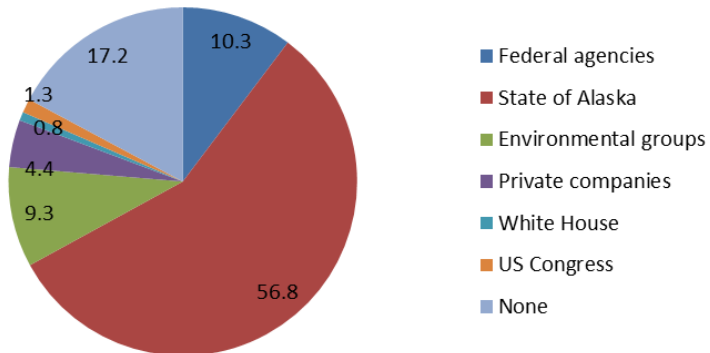
Respondents Awareness of the Arctic Council



Most Important Issue Facing American Arctic



Group Best Suited to Address Environmental Issues in Arctic



Considerations for EDT:

- Develop economic justification

Energy & Transportation Infrastructure

Circumpolar Policy Tours

- Norway and Iceland

Arctic Maritime and Aviation Transportation Infrastructure Initiative

- An Arctic Council SDWG project
- Inventory of ports and airports around the Arctic

Arctic Energy Summit

- Akureyri, Iceland
- Expert presentations
- Best practices
- Latest technology
- Sustainable development



Fundamental Lessons for Alaska, from Iceland and Norway

Iceland - *Sacrifice in the short-term for long-term prosperity*

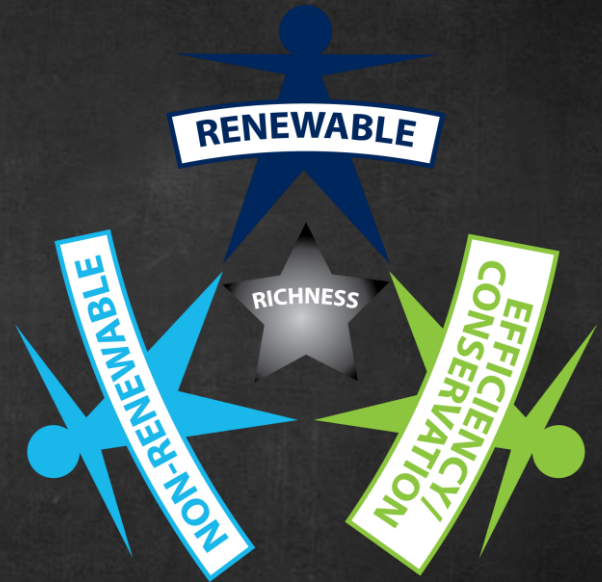
1. Pick a resource
2. Develop comprehensive plan
3. Own the infrastructure
4. Export value-added product

Norway - *Respond to complexity with sophistication*

1. Export non-renewable resource, develop renewables for domestic use
2. Co-invest in production and infrastructure, sharing risk and reward
3. Build regulatory capacity for effective and efficient development of resources

Arctic Energy Summit

Richness
+
Responsibility
= Resilience



Considerations for EDT:

- Invest in infrastructure and people
- Value-added opportunities



ARCTIC MARINE & AVIATION TRANSPORTATION INFRASTRUCTURE INITIATIVE



ARCTIC MARINE & AVIATION TRANSPORTATION INFRASTRUCTURE INITIATIVE

Sustainable Development Working Group



INTERACTIVE MAP

The Arctic Transportation Interactive Data Map displays visual, geographical and descriptive information related to maritime and aviation infrastructure. Data has been collected from each of the eight Arctic nations. Additional layers have been provided by the Arctic Portal to further illustrate overlapping spheres of responsibility and capacity.

[Enter the Interactive Map](#)

AMATII DATABASE

The Arctic Transportation Database contains information for maritime and aviation infrastructure as depicted on the Interactive Data Map.

[Enter the AMATII Database](#)

AMATII

WORKSHOP

RESOURCES

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Designed and hosted by [ArcticPortal](#)



Opening maritime infrastructure

Search:

Name	Region	Country	World port index	UNLO code	Chart number
Aasiat Qasiqiannguit	East Coast	Greenland	760	GLJCH	28482
Adak	Aleutians (Southwest)	US Alaska	20140	USADK	16471
Akranes	West Coast	Iceland		ISAKR	
Akulivik	Nunavik	Canada		CAAKV	
Akureyri	North Coast	Iceland	310	ISAKU	38681
Akutan Harbor	Aleutians (Southwest)	US Alaska	20097	USKQA	20097
Alta	Finnmark	Norway	21130	NOALF	43084
Ambarchik	Chukotka Autonomous Okrug	Russia	62660		41100
Amderma	Nenets Autonomous Okrug	Russia		RUAMV	
Anadyr	Chukotka Autonomous Okrug	Russia		RUDYR	
Anchorage*	Southcentral	US Alaska	19800	USANC	16665
Andenes	Nordland	Norway	21660		43120
Arctic Bay	Nunavut	Canada		CAARB	
Arkhangelsk	Arkhangelsk Oblast	Russia	62800	RUARH	BA2280
Arviat	Nunavut	Canada		CAYEK	
Attu	East Coast	Greenland	700		38480
Aupaluk	Nunavik	Canada		CAYPJ	
Baker Lake	Nunavut	Canada		CABLK	
Ballangen	Nordland	Norway	22050	NOBLL	43144
Ballstad	Nordland	Norway	21840	NOBSD	43146
Berentsburg	Svalbard	Svalbard	20560	SJBAR	42052
Barrow	Arctic	US Alaska	20480	USBRW	16082
Bathurst Inlet	Nunavut	Canada		CABAT	
Belomorsk	Reupblic of Karelia	Russia	62830		BA2275
Berg	Nordland	Norway	23020	NOBER	43204

Showing 1 to 351 of 351 entries

Murmansk

General Information

World port index: 62950
 UNLO code: RUMMK
 Chart number: 42760
 Port type: River Natural
 Port size: Large

Location Information

Country: Russia
 Region: Murmansk
 Timezone: UTC+4(+4DT)

Operation Management

First port of entry: Yes
 ETA required: Yes

Physical Attributes

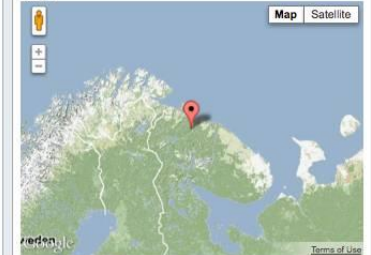
Cranes: fixed/ mobile/ floating
 Lifts: 0-49/ 100+
 Load / Offload: wharves
 Dry dock: large
 Marine railway: medium
 Shelter afforded: good
 Entrance restrictions: ice
 Good holding area: Yes
 Turning area: Yes
 Vessel loa: 152.4
 Overhead restrictions: Yes

Services, Supplies and Communications

Access to tugs: assist
 Telephone: Yes
 Telefax: Yes
 Radio: Yes

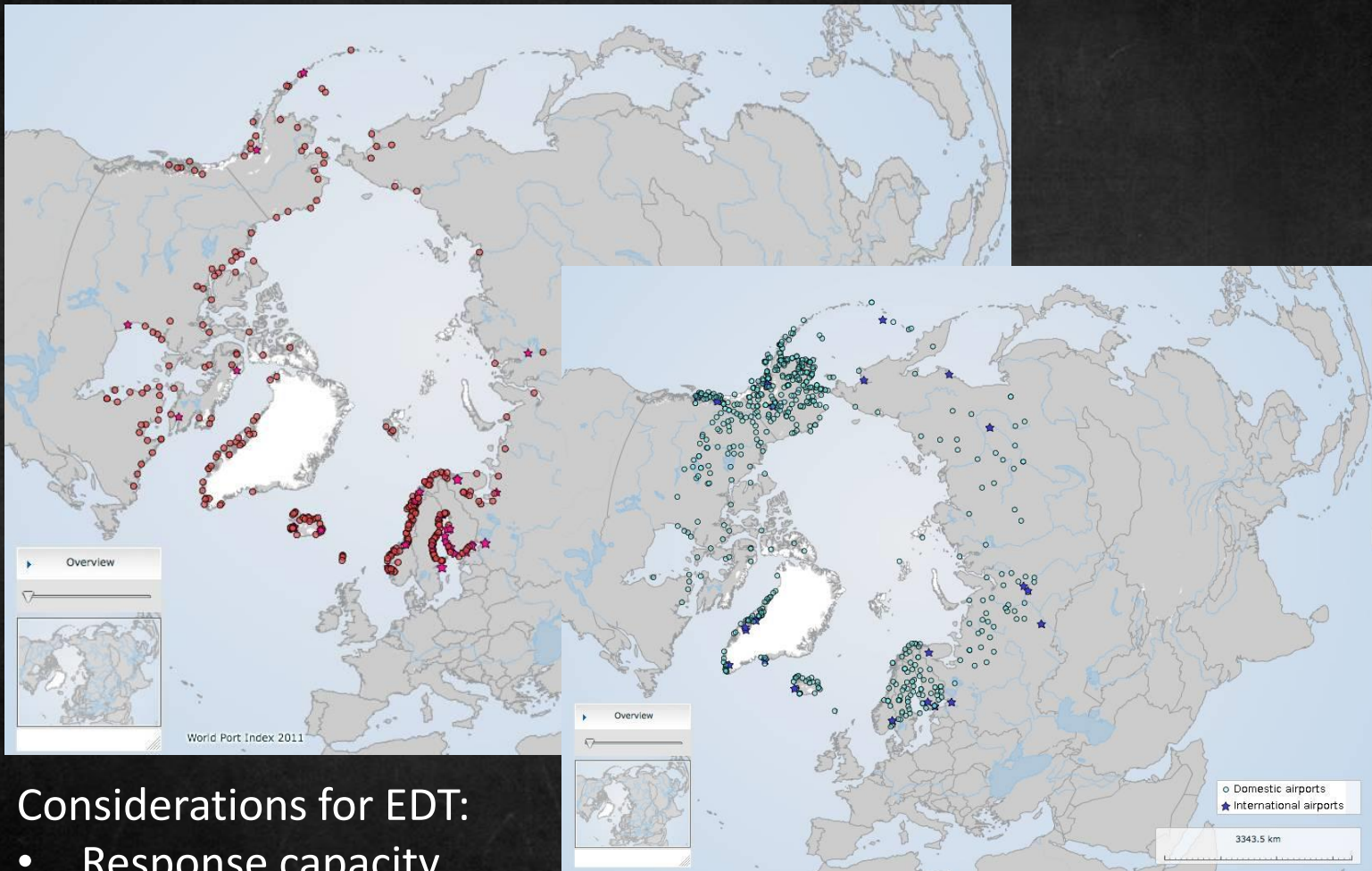
Picture

Map



Longitude: 33.046111 °
 Latitude: 68.9725 °

Map of Arctic infrastructure



Considerations for EDT:

- Response capacity

Next steps

Economic Development and Trade Agenda in the Arctic

- Strengthening Response Capacity
- Future Careers - Workforce Development
- Review LOST, Polar Code, and Jones Act
- Drive Regulatory Certainty
- Identify Competitive Advantage

Upcoming Events - 2014

- AAPC outreach and public testimony
- Northern Regions Mining Summit – Vancouver, B.C.
- Promise of the Arctic – Seattle
- Week of the Arctic
- Regional strategic planning within Alaska's Arctic
- Oil Spill Response Communications

Future Workforce

A draft list of potential skills, jobs and training needs exist:

- Ice Navigation Training & Watchkeeping
- Shipboard Engineering/Repair/Maintenance
- Oil spill prevention; Oil Spill Recovery/Response Operations
- Hydrography/Charting
- Ports Engineering/Maintenance
- SAR/Emergency Response
- Monitoring/Surveillance/Data Handling
- Observing Systems; Marine Mammal Observers
- Naval Architecture
- Environmental Management
- Transportation Systems Planning
- Law Enforcement

Thank you!

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