

Supplemental Information for Implementation Plan

The following tables summarize which policy statements link to the four visions statements and detail membership on Implementation work teams. At the May 6-7 Anchorage in-person meeting Commission members will work throughout the meeting in the 4 groups below. These same groups will continue to work on implementing recommendations in the interim between in-person meetings.

Summary of Policy Statements:

Vision Statement	Policy Statement	Short description
Sustainable Communities and Cultures	P1	Respect values
	P2	Climate change
	P3	Managing wildlife
Vibrant Economic and Resource Development	P4	Economic development - benefit communities
	P5	Resource development - permitting and investment
	P6	Competitive investment in infrastructure
Safety, Security and Defense	P7	Emergency response, investment infrastructure
	P8	Intl Arctic Cooperation
	P9	Security and safety (nat/local community)
Collaborative and Inclusive Governance	P10	Science and research
	P11	Partnerships National and Intl
	P12	Strategic Planning

Implementation work teams: N. Andreassen and N. Carlo will move among groups at May meeting (underlined names not attending May meeting)

Implementation Teams	Legislative Members	Public Members	Ex-officio Member	# Members Recorder @ May mtg
Sustainable Communities and Cultures (P1-3)	Rep Edgmon Sen Hoffman	Stephen Trimble <u>Reggie Joule</u> Chris Hladick Pat Pourchot	Beth Kerttula	7 Recorder: TBD 16 recs
Vibrant Economic and Resource Development (P4-6)	Sen Giessel Sen Olson Rep Nageak	Liz Moore Lisa Pekich Kris Norosz <u>Harry McDonald</u>		7 Recorder: TBD 34 recs
Safety, Security and Defense (P7-9)	Rep Guttenberg <u>Rep Austerman</u> Sen McGuire	Peter Garay Denise Michels Stephanie Madsen	Jamie Robinson	7 Recorder: J Logan 16 recs
Collaborative and Inclusive Governance (P10-12)	Sen Stevens Rep Herron	Layla Hughes Jake Adams Stefanie Moreland Lawson Brigham	Fran Ulmer	7 Recorder: R Earl 26 recs

Each team should identify a rapporteur to give a read out to the plenary in the morning of day 2 that summarizes the decisions the team made on keeping or discarding recommendations.

Implementation Plan – Recommendations for Alaska’s Consideration

Recommendations are aligned with the vision and policy statements, and should be considered in these contexts as steps toward achieving Alaska’s Arctic goals. “Strategic recommendations” are listed as * - important for priority consideration given their potential scale of impact – responding to significant gaps and/or opportunities – and the degree to which their implementation is complex or difficult. Additional recommendations are grouped for short, medium and long planning; and take into account scale of impact and complexity of implementation.

Note: Assume “The state of Alaska should” preceding each recommendation.

Highlighted in Green = 2014 strategic recommendation

Implementation Plan – Sustainable Communities and Cultures

Vision: The state of Alaska will value and strengthen the sustainability of communities and respect and integrate Arctic peoples’ cultures and knowledge.

Policy Statement 1) The state of Alaska will recognize and respect the values and perspectives of the region’s indigenous peoples, their cultures, and traditional ways of living.

Recommendation 1a) Support maintenance of existing reliance of local residents on food from the ocean and inland waters and not allow the food security of the people and communities to be diminished.

Recommendation 1b) Participate in Arctic Council efforts to develop recommendations for incorporation of traditional and local knowledge into its work, currently undertaken by the Canadian Chairmanship.

Policy Statement 2) The state of Alaska will sustain current and develop new approaches for responding to a changing climate that increase community resilience, adaptability and sustainability, as well as promote health and social well-being.

Recommendation 2a) *Develop new and improve existing public education and awareness programs that result in a more informed public who understand the multi-faceted programs and policies that regulate the conservation of Arctic biodiversity and sustainable use of biological resources.

Recommendation 2b) Develop a robust and adaptive monitoring program to assess major impacts on biodiversity, ecosystems, and the well-being of indigenous peoples and Arctic communities and an adaption strategy to address identified impacts.

Recommendation 2c) Continually advance new technology to improve safety and mitigate impacts to the environment.

Recommendation 2d) Develop region-wide planning that allows local stakeholders to identify regional priorities for development and improve understanding and consideration of the cumulative impacts of human activities in the region.

Policy Statement 3) The state of Alaska will manage Arctic fisheries and wildlife for abundance and sustained yield using a science-based, ecosystem approach that integrates local and traditional knowledge.

Recommendation 3a) *Develop an assessment and monitoring program in support of strategies for fish and wildlife management that enhances food security for Arctic residents.

Recommendation 3b) Support comprehensive scientific research and data including local knowledge to establish reference points and metrics that could be used to develop management plans that support sustainable fisheries in the region.

Recommendation 3c) Pursue additional investment in the Arctic to estimate the biomass and conditions that contribute to the health of marine resources, but funding must not be “in lieu of” funding needs in the Bering Sea/Aleutian Islands.

Recommendation 3d) Formalize the process to be used when considering the opening or extension of the fishery of a species for sustained yield in state waters, to include the evaluation of the potential effects of changes on harvest of other species of fish and the marine ecosystem.

Recommendation 3e) Establish a program to monitor and continue assessing the health of the ecosystem for responsive management that implements a precautionary approach.

Recommendation 3f) Continue funding stock assessments, research, monitoring and enforcement to support the intent of current fisheries regulations.

Recommendation 3g) Support technology and policies that continue to minimize bycatch in all fisheries.

Recommendation 3h) Work to mitigate risks from increased marine transportation through the Bering Straits with specific attention to BSAI fisheries and fish habitat.

Recommendation 3i) With the participation of local and indigenous peoples, continue on the state’s trajectory to develop a cohesive and comprehensive Arctic wildlife policy. The establishment of such a policy will have to include the identification and assessment of climate-related impacts and threats; monitoring of the Alaskan Arctic biological diversity; scenarios planning and impact assessment; collaborative research and assessment; and consideration of species and habitat conservation and restoration.

Recommendation 3j) Work to better understand the infrastructure of administrating the existing large number of federal laws and regulations regarding wildlife, regulation and the various groups involved and take a leadership role in the coordination of policies at the local, state, and national levels.

Implementation Plan – Vibrant Economic and Resource Development

Vision: The state of Alaska will continue its commitment to economically vibrant communities sustained by development activities that recognize the need and our responsibility for a healthy environment.

Policy Statement 4) The state of Alaska will ensure that impacted communities receive direct and indirect benefits from economic development activities, including employment and training opportunities that might

come with new and different careers.

Recommendation 4a) Develop policies to maximize the value and use of marine resources to the benefit of residents of the Arctic, possibly modeled after successful programs like the CDQ program or other innovative ideas.

Note: 4b, 4c, and 4d have related elements, please review carefully and consider revisions that make the differences clearer.

Recommendation 4b) *Develop a mechanism for revenue sharing from resource extraction for impacted communities, developing perpetual trust funds (where lacking) to finance community needs beyond the life of non-renewable resources.

Recommendation 4c) Establish revenue sharing from resource extraction for Alaska's impacted communities in areas where such are lacking and advocate for federal revenue sharing from opportunities on the Arctic outer continental shelf.

Recommendation 4d) Encourage use of those funds to develop perpetual trusts, such as the Alaska Permanent Fund, that will help fund community needs into the future beyond the finite life of non-renewable resources.

Recommendation 4e) Continue to prepare the local workforce to participate in all aspects and all phases of resource development including research, monitoring, regulatory oversight, project development, construction, operation, remediation, and reclamation.

Recommendation 4f) Continue to support the Alaska Maritime Training Center (Alaska's Institute of Technology) at Seward in its efforts to develop a world-class facility for training in Arctic operations and ice navigation.

Recommendation 4g) Develop Arctic workforce development and education opportunities for Alaska's workforce, to include ice navigation, marine mammal observation, spill response, SAR, pilotage, and engineering.

Policy Statement 5) The state of Alaska will collaborate with industry, local government, and federal agencies, and consult with Arctic residents, to improve the efficiency of permitting and regulatory processes, as well as to foster a positive investment climate.

Recommendation 5a) Continue fostering strong partnerships between state and local resource industry groups, such as the Alaska Miners Association, Resource Development Council and Alaska Oil and Gas Association, in recognition of the contribution these local industry groups will make as Alaska establishes itself as a leader in Arctic policy and expertise.

Recommendation 5b) Work with the federal government to develop a coordinated permitting system for Arctic assets, to include OCS revenue sharing.

Recommendation 5c) Work with federal agency land managers to achieve greater access, as well as clear and predictable regulatory standards, that together help to attract new industry investment in the Alaskan Arctic.

Recommendation 5d) Lead joint federal and state working groups to improve coordination and communication during permitting of resource development projects.

Recommendation 5e) Coordinate with industry, local communities, regions and, when appropriate, neighboring Arctic nations, to identify future needed baseline data collection, research and monitoring that would augment and enhance state and federal permit processing.

Recommendation 5f) Coordinate with industry, universities, other research organizations and countries to enhance sharing and accessibility of scientific data to better inform state and federal permitting and protect the environment.

Recommendation 5g) Collaborate with industry and federal agencies to continue to update hydrocarbon and mineral resource mapping and estimates in the Alaskan Arctic.

Recommendation 5h) Demand federal regulatory certainty and clarity in regards to resource exploration.

Recommendation 5i) Endorse existing and encourage examination of future Arctic offshore resource exploration and production operating practices.

Recommendation 5j) Establish regulatory standards for production of offshore resources and their transportation to market.

Policy Statement 6) The state of Alaska will attract Arctic investment with a competitive business environment supported by strategic investment in Arctic communications, energy, maritime, and aviation infrastructure.

Recommendation 6a) *Conduct a comprehensive Arctic region economic and infrastructure assessment and planning process that integrates local, regional, state and federal planning efforts.

Recommendation 6b) *Facilitate and secure public and private investment in support of critical aviation and maritime response infrastructure and economic development, to include consideration of direct state funding and/or public-private partnerships that address development of communications, a deep draft port(s), icebreaker(s), logistics hubs, and a WX C-130 size aircraft hangar(s).

Recommendation 6c) *Develop stable long-term funding mechanisms for state weatherization and energy efficiency programs while continuing robust efforts to find long-term energy solutions.

Recommendation 6d) Establish infrastructure funding mechanisms for multiple infrastructure projects and should include incentives for cross-project planning and for public-private partnerships.

Note: 6c, as well as 6e, 6f, and 6g have related elements, please review carefully and consider revisions that make the differences clearer.

Recommendation 6e) While continuing robust efforts to develop long-term energy solutions, the state,

local governments, and the federal government should maintain support for energy programs to sustain bush communities in the near term.

Recommendation 6f) Continue strong support for programs that promote energy efficiency and weatherization in homes, public and commercial buildings, schools, and utilities.

Recommendation 6g) Implement measures to increase use of energy efficiency programs. In particular it should better communicate the benefits of energy efficiency loan programs to owners of commercial and public buildings.

Recommendation 6h) Develop a stable, long-term funding mechanism for its residential weatherization and energy efficiency programs, which currently depend on annual appropriations from the legislature.

Recommendation 6i) Increase collection and dissemination of comprehensive community consumption and power supply data.

Recommendation 6j) Support programs such as the Emerging Energy Technology Fund, which provides grants for technology that is within 5 years of commercialization.

Recommendation 6k) Continue the state's strong support for replacement of the Coast Guard's Polar class icebreakers and other ice-capable cutters for conducting Arctic operations in coastal Alaska.

Recommendation 6l) Build on current efforts to identify a deep draft port¹ and identify additional critical aviation and maritime logistics; including a suitable location to build a C-130-size aircraft hangar (which could be collocated with a deep draft port).

Recommendation 6m) Encourage the development of a deep draft port or ports, which could include negotiating public and private long-term investments. An Alaska Arctic Port Authority, or similar body, could facilitate public-private partnerships for investment, and development of the management strategies for future port operations.

Recommendation 6n) Encourage the development of infrastructure necessary to support emerging fisheries such as processing facilities, needed utilities, access for local fleets, and transportation to markets.

Recommendation 6o) Initiate a comprehensive Arctic region economic and infrastructure assessment and plan; which includes criteria (that identifies proximity, risk, geography and scale of challenge to include intermodal infrastructure) from which projects could be prioritized.

Recommendation 6p) Assess and support new infrastructure that may advance resource development opportunities.

Recommendation 6q) Work with interested parties within the United States and other Arctic nations to investigate alternative approaches that are less costly to build, operate and maintain in small Arctic communities.

¹ Alaska Arctic Deepwater Ports Study (USACOE AK DOT leads)

Implementation Plan – Safety, Security and Defense

Vision: The state of Alaska will provide a safe and secure Arctic for individuals and communities, and coordinate with federal agencies on national defense obligations to enhance Alaska security by

Policy Statement 7) The state of Alaska will strengthening disaster prevention and emergency response capability by coordinating the necessary levels of public and private investment for infrastructure and equipment.

Recommendation 7a) *Encourage development of appropriately integrated systems to monitor and communicate Arctic marine information, and continue state and federal support for programs such as the Alaska Marine Exchange.

Recommendation 7b) *Expand and support the Department of Environmental Conservation's effort to involve communities through Subarea Planning and provide local training to maintain limited supplies of oil spill response equipment and to ensure timely, effective and safe response and spill containment.

Recommendation 7c) Work with industry to identify and develop primary, secondary and tertiary response infrastructure (and corresponding equipment) and train and sustain first responders.

Recommendation 7d) Recognize that local contingency plans listing assets must be included in the Sub-area plans.

Recommendation 7e) Support the mitigation strategies are being considered by the Aleutian Islands Risk Assessment Project Team for application to the Great Circle Route.

Recommendation 7f) Continue to explore and advance new technologies and best practices to reduce the risk of hazardous releases in the Arctic, to include local knowledge and sharing of information between entities about their respective efforts to reduce the probability and severity of oil spills.

Recommendation 7g) Strive to inform all federal policies concerning oil spill prevention, preparedness and response measures.

Recommendation 7h) Continue to partner with Oil Spill Response Organizations (OSROs) to develop and maintain an on-call work force for large spills.

Recommendation 7i) Monitor OSROs to ensure readiness and encourage new companies to join OSROs. OSROs should have expertise in open water, broken ice, near shore and sensitive area protection and be able to meet contingency plan requirements and operate effectively in the unique and demanding conditions of the Arctic environment.

Recommendation 7j) Devise means to ensure the Oil and Hazardous Substance Release Prevention and Response account is sustainable and available to the state, and through the state, to communities as they plan for increased risk of hazardous releases in the Arctic. It will be important, both for efficiency, and coordination that contingency planning follow the existing structures described in this section, i.e. Subarea planning, industry c-planning and the Incident Command System.

Policy Statement 8) The state of Alaska will strengthen cross-border relationships with Canada and Russia and support international Arctic cooperation.

Note: Cross-border relationships with our Arctic Neighbors is closely related to P11. Consider whether Policy Statement 8 should become a recommendation under P11, which would also move 8a to P11.

Recommendation 8a) Foster and strengthen international partnerships with other Arctic Nations, establishing bilateral partnerships with, in particular, Canada and Russia, to address emerging challenges in the Arctic. For example, forming a Beaufort Regional Business Council to work with Canada and/or a Chukchi Regional Business Council to work with Russia on shipping traffic and other issues.

Policy Statement 9) The state of Alaska will establish, support and maintain national, state, community and personal security and safety.

Recommendation 9a) *Encourage and advocate for more adequate funding so that the U.S. Coast Guard can carry out its assigned and emerging duties in the U.S. maritime Arctic without compromising its capacity to conduct all missions throughout Alaska.

Recommendation 9b) *Encourage the development of an inter-agency and inter-governmental working group tasked with working with multiple levels of stakeholders to develop and implement a prioritization, funding and implementation mechanism for constructing and maintaining infrastructure and economic development.

Recommendation 9c) *Support the Department of Environmental Conservation's ongoing communication with the U.S. Coast Guard in reviewing alternative compliance program development and applications.

Recommendation 9d) Continue to support a single system to monitor vessel traffic in the Arctic. The Coast Guard and state of Alaska should support and facilitate such a comprehensive system. A system could also transmit information on ice and weather, ship's speed, and closed or sensitive areas for navigation.

Recommendation 9e) Work with the U.S. Coast Guard to update the Coast Pilot - a reliable and efficient source of information for mariners that gathers all pertinent and relevant information in one accessible and searchable location, ideally covering navigation of the Bering Sea² and Arctic waters.

Implementation Plan – Collaborative and Inclusive Governance

Vision: The state of Alaska will collaborate with other levels of government, industry, non-governmental organizations, and tribes to achieve transparent and inclusive Arctic decision-making that results in more informed, sustainable and beneficial outcomes.

Policy Statement 10) The state of Alaska will build capacity to conduct science and research and advance innovation and technology, consistent with emerging risk and opportunity in the Arctic, as part of a state-led

² For example; the Canadian 'Arctic Voyage Planning Guide' includes nautical charts, tide and current tables, radio aids, lights, buoys, regulations, IMO guidelines and more - <http://geoportal.gc.ca/eng/Gallery/MapProfile/5#wb-tpb> Another example is the Coast Guard's Coast Pilot, which has detailed information for other coastal areas of the U.S., but not yet for Arctic waters.

collaborative effort.

Recommendation 10a) *Increase state funding to, and partnership with, the University of Alaska for Arctic research that aligns with state priorities and leverages the University's exceptional facilities and academic capacity.

Recommendation 10b) Facilitate the establishment of a clearinghouse of Arctic information that is useful for Alaska residents and communities.

Recommendation 10c) Urge its congressional delegation and the U.S. Congress at large to amend Section 103 of the Arctic Research Policy Act of 1984 (Amended 1990) to provide that a minimum of four of the seven members of the U.S. Arctic Research Commission appointed by the President be Alaska residents.

Recommendation 10d) Promote science-influenced decision making that incorporates local and traditional knowledge of Alaskans and encourages adaptive approaches guided by ongoing research and monitoring.

Recommendation 10e) Support, invest in and complete increased communications and navigational infrastructure, mapping, hydrographic and bathymetry with data shared using collaborative research and private-public partnerships.

Recommendation 10f) Coordinate with internal and external agencies and gather private sector data for completion of mapping, hydrographic and bathymetry data sharing.

Recommendation 10g) Support partnerships with the university and the private sector for research and development of new energy technologies to bring down power and heating costs in rural Alaskan communities. This could take a form similar to Governor Parnell's R&D tax credit legislation introduced in 2012 but not passed by the legislature. However, any such legislation should limit tax credits to R&D specifically focused on rural energy and power solutions.

Policy Statement 11) The state of Alaska will pursue opportunities to meaningfully participate as a partner in development of federal and international Arctic policies and incorporate state and local government knowledge and expertise.

Recommendation 11a) Seek ways to participate in current international organizations discussing fisheries (e.g., International Pacific Halibut Commission, North Pacific Fisheries Commission, U.S.-Russia Intergovernmental Consultative Committee, and Convention on the Conservation and Management of the Pollock Resources in the Central Bering Sea) as well as contribute to any new organization regarding the development of marine resources in the Arctic. Current domestic and international fisheries management structures should be adapted to the needs of the Arctic region.

Recommendation 11b) Continue to support the U.S. Department of State efforts to be proactive in establishing an international agreement that ensures sustainable fisheries management plans for waters outside national EEZs are implemented across all jurisdictions in the Arctic. Precautionary management should be extended to the Arctic donut hole and other Arctic nations' EEZs.

Recommendation 11c) Work with the Coast Guard and other federal agencies to improve and increase

search and rescue response capability, communications, update bathymetric charts, and assess the need for additional navigation aids. Local and traditional knowledge should help inform this work.

Recommendation 11d) *Continue to pursue, and actively expand, all avenues of participation in the Arctic Council, including involvement in Working Groups and by building partnerships with Permanent Participants.

Recommendation 11e) Continue to urge the United States Senate to ratify the United Nations Convention on the Law of the Sea.

Recommendation 11f) Support development of a Polar Code that meets the state's interests and recognizes its priorities, while developing practical and voluntary measures that encourage best practices.

Recommendation 11g) Work to establish IMO- and Russian-endorsed shipping routes.

Recommendation 11h) Demand that the United States ratify the Law of the Sea Treaty and submit an extended Continental Shelf claim to ensure resources are appropriately retained for both Alaska and the United States.

Recommendation 11i) Suggest that the Coast Guard lead coordination amongst the Committee for the Marine Transportation System (CMTS) agencies for activities in the Arctic and should be adequately funded to carry out its duties.

Recommendation 11j) Continue to encourage the U.S. Department of State to include fostering new technological approaches for in-home water and sewer infrastructure as part of the agenda for the U.S. chairmanship of the Arctic Council in 2015-17.

Recommendation 11k) Continue to participate and enhance engagement at the regional and international level to help reduce the risk of spills, including participation with the following: the Pacific States / BC Oil Spill Task Force; Pacific Northwest Economic Region; Energy Council; Bilateral negotiations with Russia and Canada; Arctic Council work groups and projects; International Maritime Organization; and Industry and trade group conferences and discussions.

Policy Statement 12) The state of Alaska will employ integrated, strategic planning and consult with Arctic residents for scientific, local and traditional knowledge to meaningfully enhance Arctic decision making.

Recommendation 12a) *Develop a program that achieves transparency and community/local inclusion in decision making through state coordination of multi-agency permits, state and federal coordination of permits and plans, and meaningful involvement of regional stakeholders in development activities or plans that affect them.

Recommendation 12b) *Consider adapting successful models – such as the Alaska Department of Environmental Conservation and Yukon-Koyukuk Tribal Communications Protocol – to development agreements with local governments and tribes regarding the use of traditional knowledge and culturally sensitive practices in research and permitting programs.

Recommendation 12c) Advance integrated planning and forward thinking to identify opportunities that exploit future industrial and civil infrastructure development projects to serve regional energy needs. Early planning processes and new development models should seek to share power production and infrastructure to bring down costs.

Recommendation 12d) Support and encourage the development of methods for more effectively integrating traditional knowledge into conventional research and natural resource management.

Recommendation 12e) Support discussions currently underway to add Northwest Arctic Borough participation with the NSSI, thereby extending the initiative's geographical scope without compromising its mission or effectiveness.

Recommendation 12f) Continue working with its federal partners on its subarea planning efforts under the Unified Plan, with enhanced input from local people.

Recommendation 12g) *Implement regional planning efforts that allow local stakeholders to identify and communicate to state and federal agencies priorities for education, infrastructure, and development.

Recommendation 12h) Add an Arctic specialist who acts as the liaison between industry, the public and private sectors, and indigenous groups; tasked with advocating the state's position to the Coast Guard in Arctic-related maritime and intermodal transportation policy matters. Such a position should utilize valuable local knowledge and input in developing policy and have a budget sufficient to support its efforts.