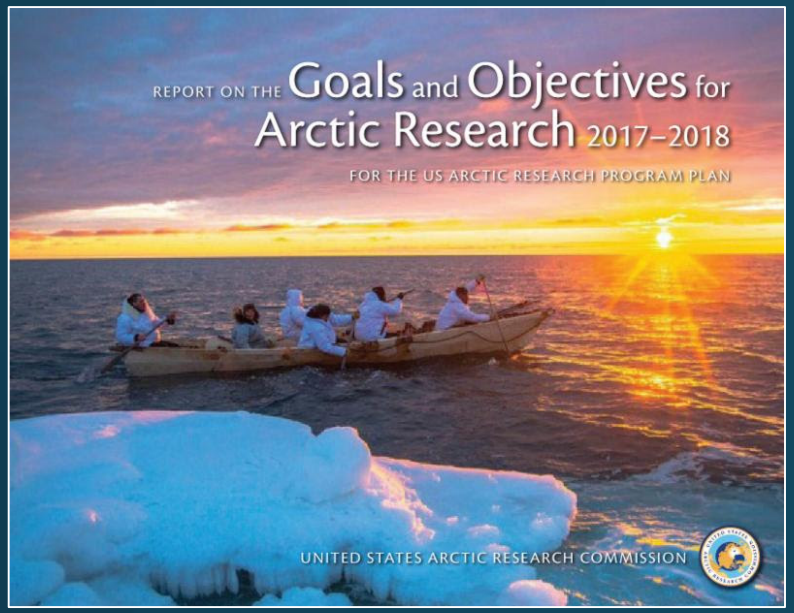


US Arctic Research Commission's 2017-18 Goals Report

IARPC's Arctic Research Plan 2017-2021

The Arctic Council and the 2016 White House Arctic Science Ministerial

Fran Ulmer
Chair, US Arctic Research Commission

Kivalina, AK
9/15/09

US Arctic Research Commission's duties:

- Develop national Arctic research policy
- Facilitate Arctic research cooperation (w/IARPC)
- Review federal Arctic research programs
- Recommend improvements for data sharing
- Facilitate cooperation w/Alaska & internationally

Commissioners

CHAIR
Hon. Fran Ulmer
US Arctic Research Commission
Anchorage, Alaska

David Benton
Fisheries Consultant
Juneau, Alaska

Kasaŋnaaluk Marie N. Greene
Kotzebue, Alaska

James J. McCarthy, PhD
Harvard University
Cambridge, Massachusetts

Larry Mayer, PhD
University of New Hampshire
Durham, New Hampshire

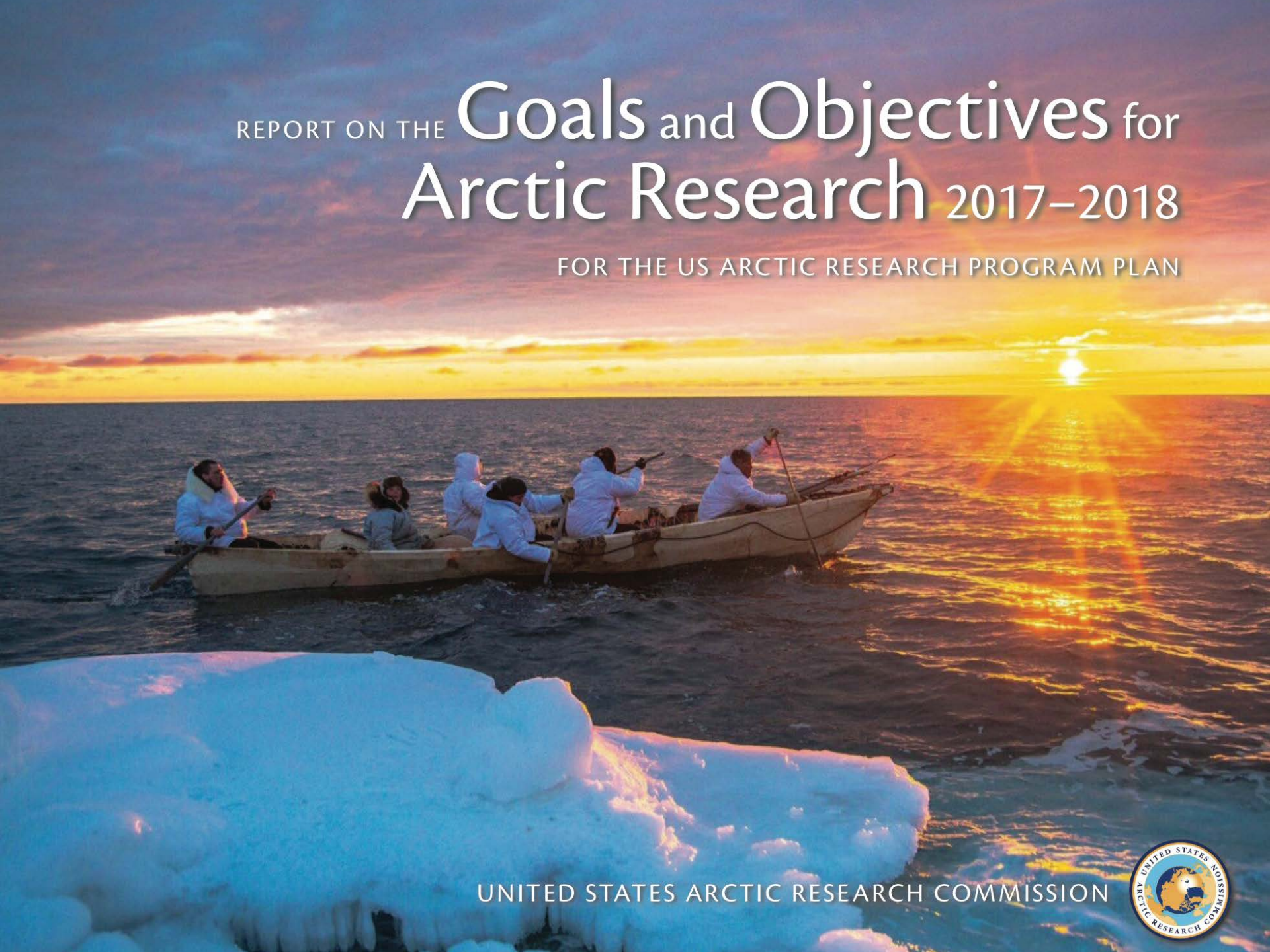
Mary C. Pete
University of Alaska Fairbanks
Bethel, Alaska

Jackie Richter-Menge
Senior research civil engineer
Institute of Northern Engineering
University of Alaska Fairbanks
Fairbanks, Alaska

EX-OFFICIO MEMBER
France A. Córdova, PhD
National Science Foundation
Arlington, Virginia

REPORT ON THE Goals and Objectives for Arctic Research 2017–2018

FOR THE US ARCTIC RESEARCH PROGRAM PLAN



UNITED STATES ARCTIC RESEARCH COMMISSION

6 priority goals for Arctic research

1. Environmental Change
2. Human Health
3. Energy (efficiency and renewables)
4. The “Built Environment”
5. Cultures and Community Resilience
6. International Scientific Cooperation

What's different in this report?

- Overarching goals remain the same
  - To sync timing and focus with IARPC's plan
  - To provide overview to a new Administration
- New recommendations
- New section: "Progress"
- Shorter

ARWSWG

Alaska Rural Water and Sanitation Working Group

The Working Group's mission is to maximize the health benefits of in-home water and sanitation services in rural Alaska.

AMHWG

Arctic Mental Health Working Group

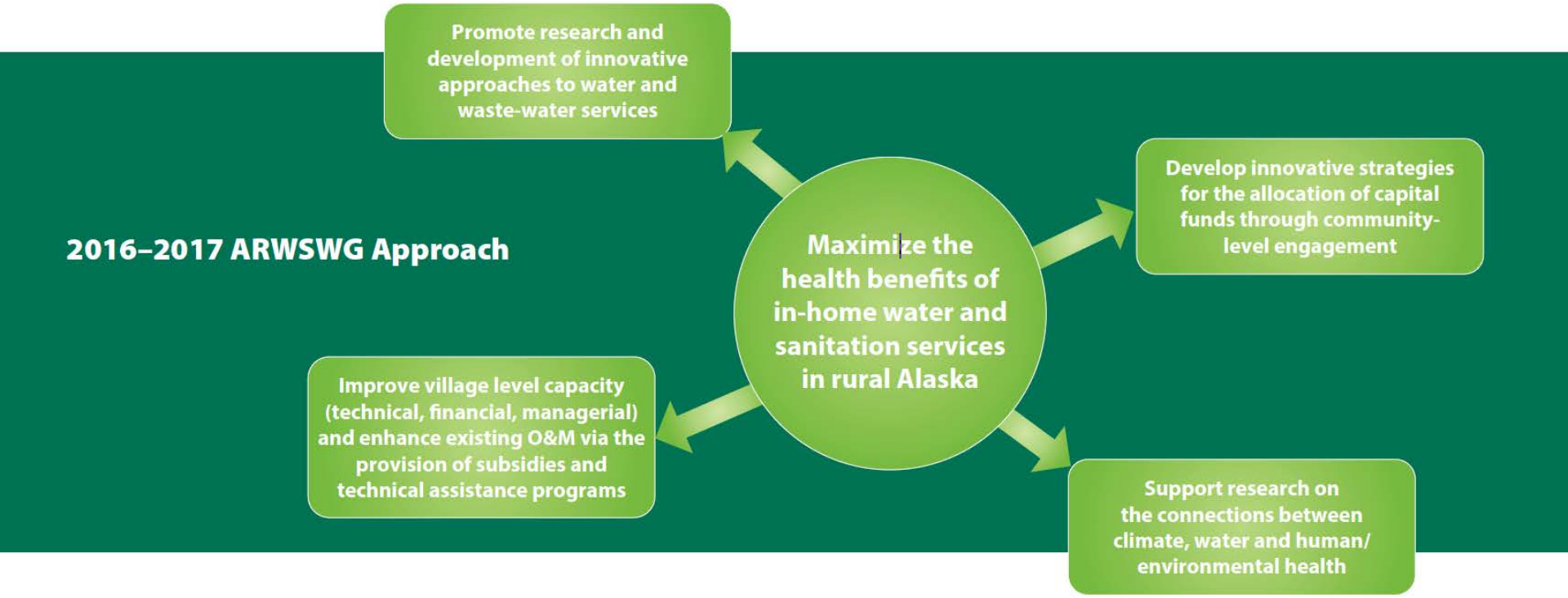
GROUP MISSION: to strengthen systems of care to prevent suicide and improve mental health in the circumpolar North via the promotion of indigenous knowledge, research, and evidence-based early intervention and primary prevention efforts.

AREWG

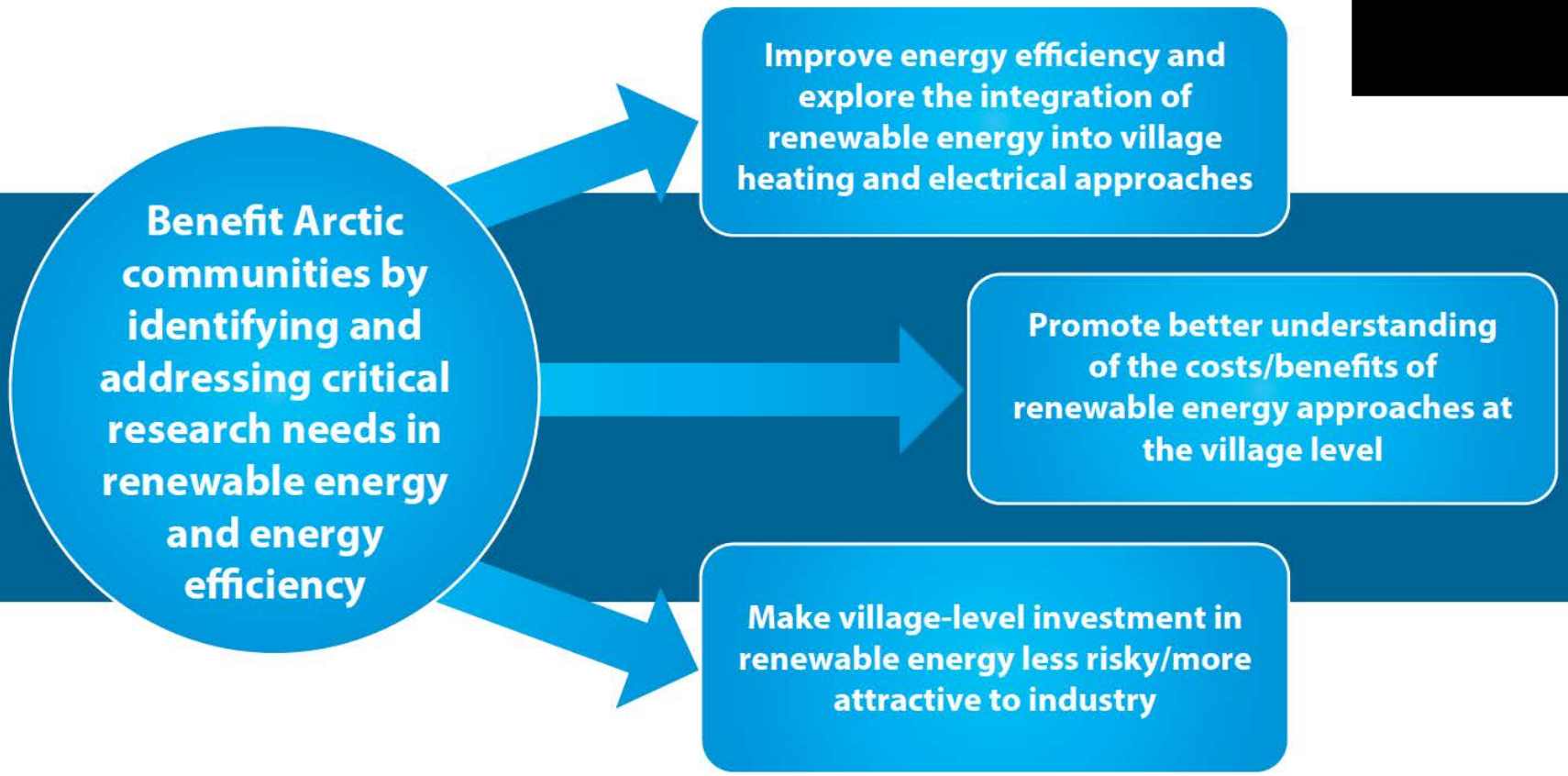
Arctic Renewable Energy Working Group

The group's mission is to benefit Arctic communities by identifying and addressing critical renewable energy and energy efficiency research needs.

Alaska Rural Water and Sanitation Working Group



Arctic Renewable Energy Working Group



Arctic Mental Health Working Group

STRENGTHEN SYSTEMS OF CARE TO PREVENT SUICIDE AND IMPROVE MENTAL HEALTH IN THE CIRCUMPOLAR NORTH

- Work collaboratively with tribes and other stakeholders
- Promote use of indigenous knowledge, research, and evidence-based early intervention and primary prevention efforts.

Encourage data collection, integration, analysis and research

Promote capacity development of the mental and behavioral health workforce in Alaska

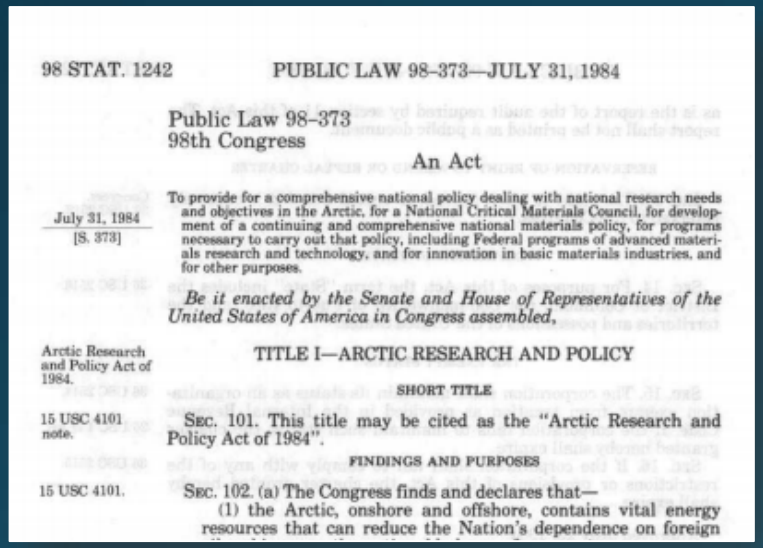
Strengthen mental health protective factors of children and youth with a focus on community-based efforts

Interagency Arctic Research Policy Committee

Arctic Research Plan 2017-2021

WHAT IS IARPC?

Arctic Research Policy Act of 1984



98 STAT. 1242 PUBLIC LAW 98-373—JULY 31, 1984

Public Law 98-373
98th Congress

An Act

July 31, 1984
[S. 373]

To provide for a comprehensive national policy dealing with national research needs and objectives in the Arctic, for a National Critical Materials Council, for development of a continuing and comprehensive national materials policy, for programs necessary to carry out that policy, including Federal programs of advanced materials research and technology, and for innovation in basic materials industries, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

Arctic Research and Policy Act of 1984.

TITLE I—ARCTIC RESEARCH AND POLICY

SHORT TITLE

15 USC 4101 note.

SEC. 101. This title may be cited as the "Arctic Research and Policy Act of 1984".

FINDINGS AND PURPOSES

15 USC 4101.

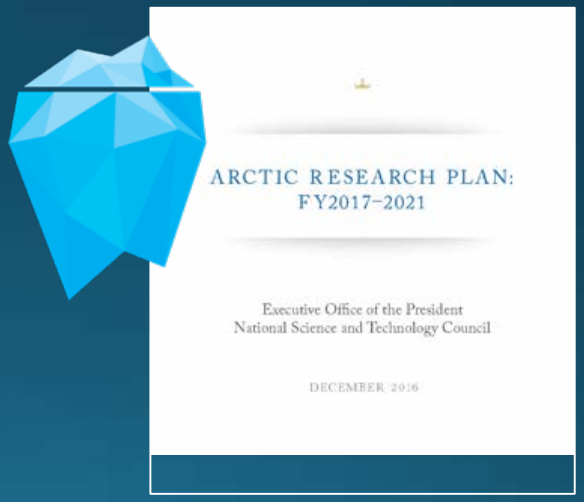
SEC. 102. (a) The Congress finds and declares that—
(1) the Arctic, onshore and offshore, contains vital energy resources that can reduce the Nation's dependence on foreign

USARC

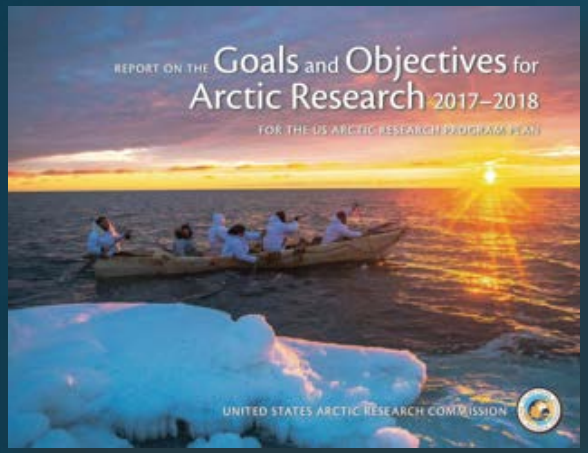
sets goals and objectives

IARPC

develops and implements a research plan



Federal Arctic research policy/process



USARC set goals → IARPC adopts, creates & executes research plan → White House: OMB/OSTP coordinate & review budget

↓

"The Commission shall, after submission of the President's annual budget request, review the request and report to Congress on adherence to the Plan." → Congress: Authorizes & Appropriates

How was Arctic Research Plan 2017-2021 Developed?

Scope approved by IARPC	*February 2016*
Writing teams assembled	*March 2016*
Listening session at ASSW	*March 2016*
IARPC Collaborations request for input	*March-May 2016*
IARPC visit to State of Alaska	*May 2016*
Federal Register Notice process	*July 2016*

POLICY DRIVERS

1. Enhance the **well-being** of Arctic residents.
2. Advance **stewardship** of the Arctic environment.
3. Strengthen national and regional **security**.
4. Improve understanding of the Arctic as a **component of planet Earth**.

Plan Organization

Research Goals (9)

Broad topics where an interagency approach can accelerate progress

Research Objectives (34)

Specific challenge areas that address the research goal

Performance Elements (123)

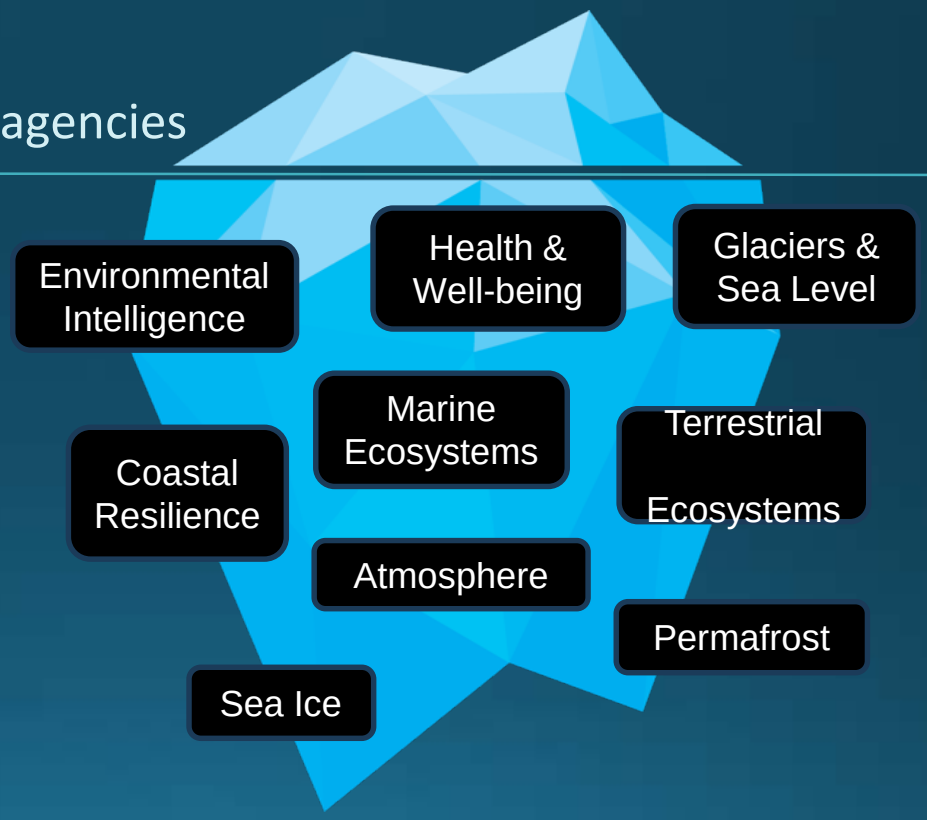
Tasks with concrete, measureable outcomes that demonstrate progress toward Research Objectives

How is the Plan implemented?

IARPC Federal only

Principals and staff representing 14 Federal agencies

IARPC
Collaborations



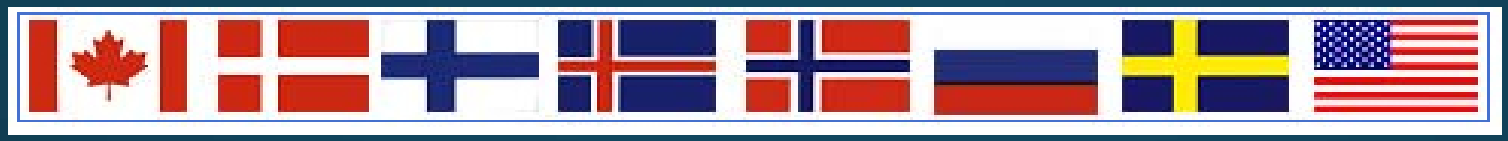
Federal & non-Federal Researchers and stakeholders from academia, NGOs, industry, state, Indigenous and international organizations.

iarpccollaborations.org

Arctic Council

- High-level intergovernmental forum created in 1996: 8 nations, plus 6 "Permanent Participants," 32 observers
- Focus on sustainable development & environmental protection
- Promotes cooperation, coordination, and interaction
- Produces reports, assessments, recommendations, consensus-based

Member States



- Canada
- Denmark
- Finland
- Iceland
- Norway
- Russian Federation
- Sweden
- United States of America

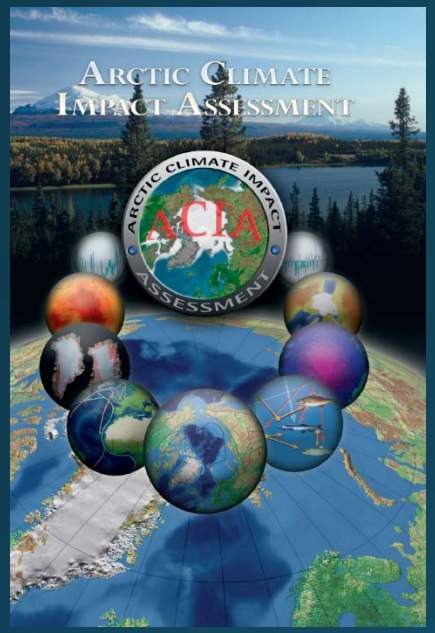
Permanent Participants

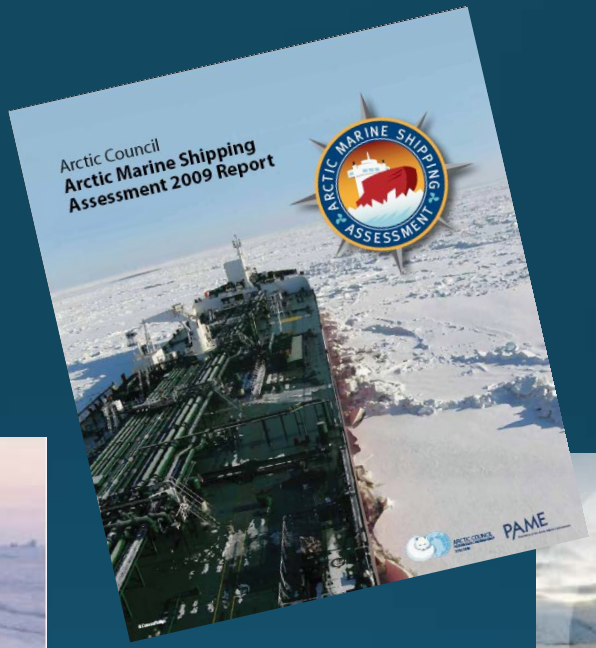
Observer States

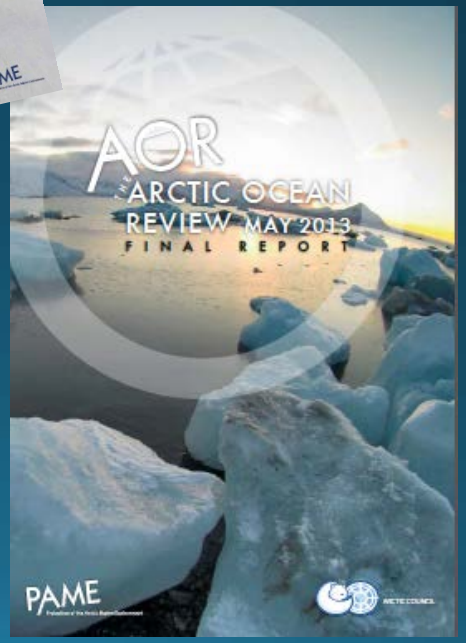
- France
- Germany
- Netherlands
- Poland
- Spain
- UK

- China
- Italy
- Japan
- Korea
- Singapore
- India

Council assessments, based on international science







Agreements Adopted

- **Agreement on Cooperation on Aeronautical and Maritime Search and Rescue in the Arctic**
- **Agreement on Cooperation on Marine Oil Pollution Preparedness and Response in the Arctic**
- **Potential Agreement on International Cooperation in Scientific Research (2017)**

US Chairmanship Theme

"One Arctic: Shared Opportunities, Challenges, and Responsibilities"

- Addressing climate change
- Arctic Ocean stewardship
- Improving economic and living conditions in the Arctic

Upcoming dates of interest

- SAO Meeting: March 7-9, 2017 (Juneau)
- AMAP International Conference on Arctic Science: Bringing Knowledge to Action: April 24-27, 2017 (Reston, VA)
- Arctic Council Ministerial Meeting: May 10, 2017 (Fairbanks)
- International Arctic Assembly and Broadband Summit

2016 White House Arctic Science Ministerial themes:

1) Arctic Science Challenges and their Regional and Global Implications

2) Strengthening and Integrating Arctic Observations and Data Sharing

3) Applying Expanded Scientific Understanding of the Arctic to Build Regional Resilience and Shape Global Responses

4) Arctic Science as a Vehicle for STEM Education and Citizen Empowerment

SUPPORTING ARCTIC SCIENCE

A SUMMARY OF THE WHITE HOUSE ARCTIC SCIENCE MINISTERIAL MEETING

SEPTEMBER 28, 2016 – WASHINGTON, DC

MATERIALS DEVELOPED BY THE ARCTIC EXECUTIVE STEERING COMMITTEE AND PARTICIPANTS IN THE ARCTIC SCIENCE MINISTERIAL, HOSTED BY THE WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY, WERE COMPILED AND EDITED BY THE US ARCTIC RESEARCH COMMISSION

ARCTIC UPDATE

THE US ARCTIC RESEARCH COMMISSION DAILY EMAIL NEWSLETTER

January 17, 2017

Today's Events:

34th Annual Alaska Health Summit, January 17-19, 2017 (Anchorage, AK USA). The theme of this year's health summit is "The Changing Landscape of Public Health." This meeting feature tracks focusing on Advocacy for Public Health, Social and Economic Determinants of Health, Interdisciplinary Partnerships, Public Health Research and Evaluation, and Health Promotion.

Today's Congressional Action:
The House is not in session. The Senate is expected to consider non-Arctic legislation.

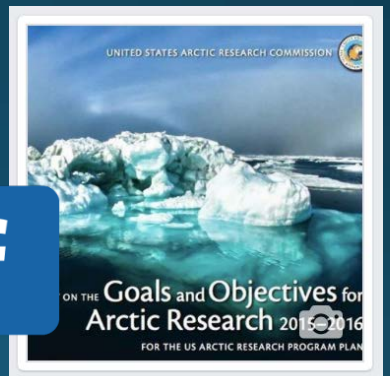
Media

CMTS Report Puts Forward Arctic Recommendations. This report fulfills the National Strategy for the Arctic Region (NSAR) Implementation Plan Action 1.1.13 to "develop recommendations for pursing Federal public-private partnerships in support of the needs assessment and identified prioritized activities." The Committee on Marine Transportation System report "Recommendations and Criteria for Using Federal Public-Private Partnerships to Support Critical US Arctic Maritime Infrastructure" puts forward 19 recommendations for the implementation of public-private partnerships (P3s) in developing, improving and maintaining infrastructure in support of Federal maritime activities, national security, navigation safety, and stewardship of natural resources in the US Arctic. The Committee on Marine Transportation System

Permafrost Thaw Altering Chemistry of Yukon River, Signaling Profound Changes for Entire Basin. As Alaska warms and permafrost

www.arctic.gov

USARC
@US_ARC



United States Arctic Research Commission (USARC)
@arcticresearchcommission