Nuuk Ministerial declaration May 2011:

“notes with concern the accelerated change in major components of the cryosphere and the profound local, regional and global effects of observed and expected changes, emphasize the need for forward looking Arctic cooperation with a view to increase Arctic resilience and to enhance Arctic Council leadership to minimize the human and environmental impact of climate change ...”

Luleå November 2011: SAO decision

“The ARR project as presented was approved as an Arctic Council project.”
ARR goals

• Identify potential for shocks and large shifts in ecosystem services that affect human well-being

• Analyze how different drivers of change interact and affect the ability to withstand shocks, *to adapt or transform*

• Evaluate strategies for adaptation and transformation

Purpose of assessing resilience is to prepare for change
Resilience to what?

Resilience of what?

Potential thresholds?

Policy options?

Resilience: adaptive and transformative capacity?
• Physical, ecological and social processes

Human and social systems

Ecological systems — including interaction of biota with physical environment

Physical — structures, energy/water flows

Choice and agency...

...interacting with structure
• People-as part of nature

Ecosystem Structure → Ecosystem Function

Ecosystem services

Provisioning
Regulating
Cultural

Benefits
Food, materials, CO₂ uptake, cultural ...

Values
Based on negotiated priorities

Governance policies and practices

Human activities

Process

Habitat
Arctic Resilience Report

- Recognizing connectivity
Arctic Resilience Report

- Links to policy
- Diverse audiences from local to global
ARR activities

- Integrated analysis
  1. Observed and potential threshold changes (Aim 1)
ARR activities

• Integrated analysis
  1. Observed and potential threshold changes (Aim 1)
  2. Capacities for adaptation and transformation (Aim 2)
  3. How are capacities affected by thresholds and other drivers of change? (Aim 2)
  4. Role of policies and management (Aim 3)
ARR activities

• Case studies: engagement with ongoing projects
• Capacity building: broader reach; long-term value
  UArctic course on Arctic resilience
• Workshops: interactions and engagement
  Stockholm October 2011
  Montreal April 2012
  Kautokeino Oct 2012
  ...

Arctic Resilience Report

Adaptation Action for a Changing Arctic

- Ecosystem Based Management
- Ocean Acidification
- Arctic Biodiversity Assessment
- Arctic Human Development Report-II

2012 2013 2014 2015

Methodology

Interim report May 2013

- Thresholds analysis
- Adaptive/transformative capacity
- Pilot cases
case studies

Final report May 2015

- Impacts of change on capacity for adaptation/transformation
- Synthesis
Policy implications

Capacity building
www.arctic-council.org/arr/