Yukon-Kuskokwim Regional Infrastructure Priorities

- Yukon-Kuskokwim Freight Corridor
- Regional Port in Emmonak
- Airport Upgrades
- Bring Natural Gas to the Region
- Fiber Optic/Broadband Connections
- Upgrade Bethel Port Facilities
- Pilcher Mountain Gravel
Responding to Natural Hazard Threats

**Protection-in-Place**
- Shoreline protection measures and other controls to prevent/minimize the effects of coastal or riverine threats
- Allows the community to remain in its current location

**Migration**
- Gradually moving property and development away from hazard-prone areas
- Community must have suitable, developable land nearby

**Relocation**
- Moving entire community to entirely different location not vulnerable to natural hazards
- Usually considered only after determination that other methods of dealing with hazard threats would not be feasible
Community Understanding of Risk
Community Understanding of Risk

Integration of Local Knowledge with Science/Engineering Studies

ALASKA DEPARTMENT OF COMMERCE, COMMUNITY, AND ECONOMIC DEVELOPMENT
Protection-in-Place

- Shoreline protection measures and other controls to prevent or minimize the effects of coastal or riverine threats

- Allows the community to remain in its current location

Kivalina

Shishmaref
Gabion Sea Wall at Tununak
Toksook Bay Seawall
Earthen Berm built by Shaktoolik Community
Relocation
Mertarvik, Newtok’s New Village Site
Adaptive Technology

Infrastructure and Facilities that work best in the place we call home

Bringing together the old and the new
Looking Back to Look Forward
Mertarvik Prototype Home by Cold Climate Housing Research Center
Homes to Withstand an Environment that Floods
Greenland Mobile Shelter on Skis

https://inhabitat.com/rob-sweeres-sledge-project-is-a-tiny-space-age-mobile-shelter-on-skis/
A Houseboat for the Arctic in Greenland

https://inhabitat.com/prefab-friday-a-house-boat-for-the-arctic/
Houseboats, “Floating Homes” in Yellowknife, Canada
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Imagine ...

What Ideas Do You Have?
Sally Russell Cox
Community Resilience Programs
Division of Community and Regional Affairs
Alaska Department of Commerce, Community, and Economic Development
550 West 7th Ave, Suite 1640
Anchorage, Alaska 99501
Phone: (907) 269-4588
Fax: (907) 269-4066
sally.cox@alaska.gov