

# Sustainable Housing in Rural Alaska

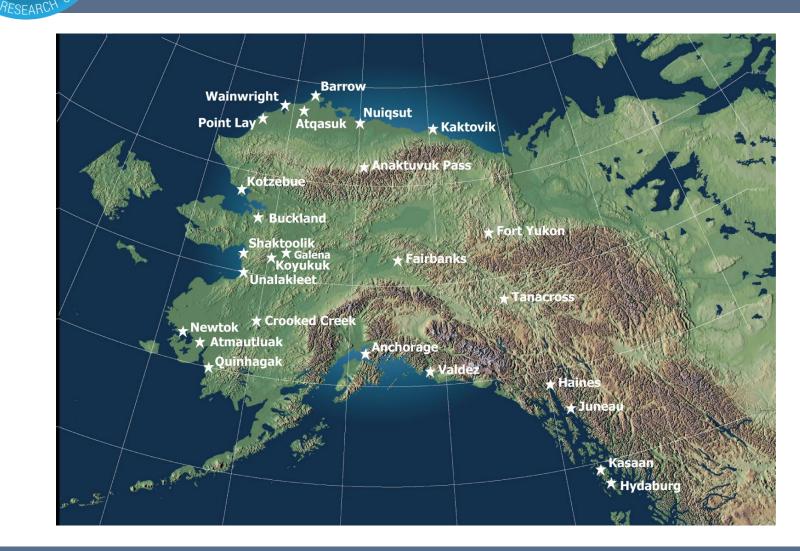
Promoting and advancing the development of healthy, durable, and sustainable shelter for Alaskans and other Circumpolar people.

Robbin Garber-Slaght, Research Engineer Cold Climate Housing Research Center

### **CCHRC** in Alaska

CLIMA

CCHRC



### Housing Needs in Alaska



55%

of homes in Alaska are at higher risk for

moisture and indoor air quality issues

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homes are rated 1-star, burdening households with high energy costs



318

new senior living facility beds need to be added annually to keep up with senior population growth



estimated shortage of affordable and available housing units for extremely low-income households



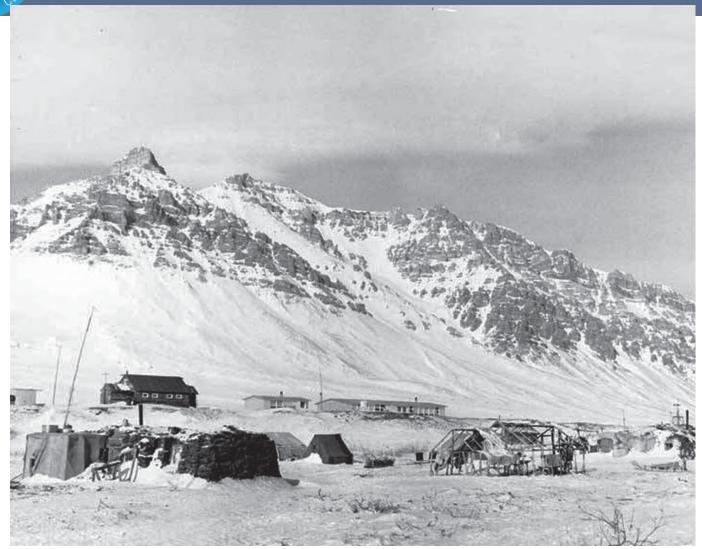
increase in new construction rate needed to meet projected population growth





RESEARCY

### Arctic Shelter



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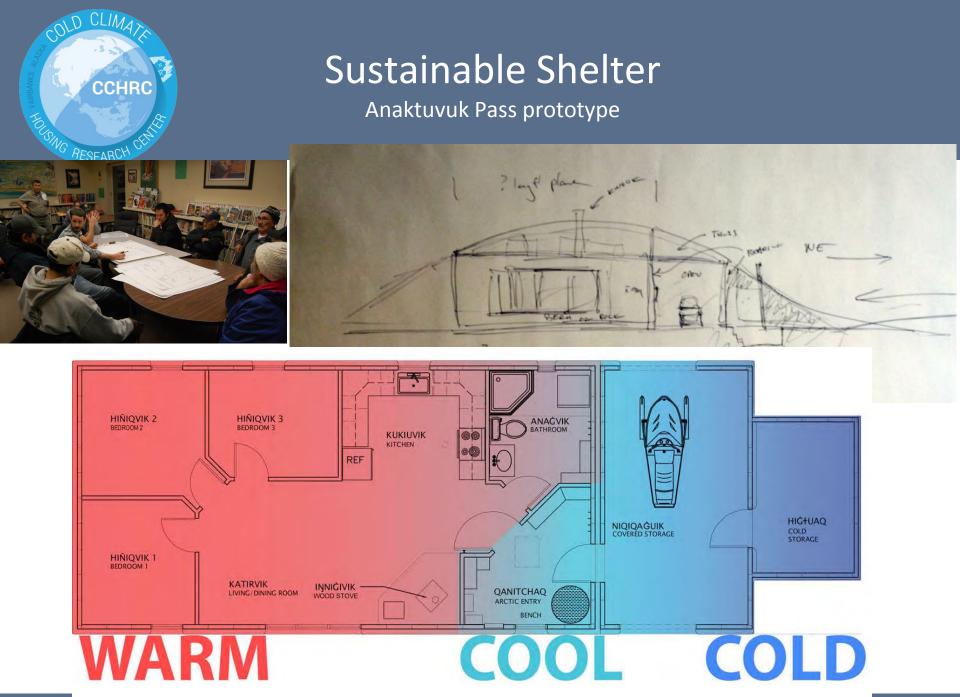


"We used to build our homes underground where it was warm and lay our dead to rest up in the air. We were told that was uncivilized, and now we have to build our houses on stilts up in the wind and bury our dead in the ground. We've been cold ever since. " -Grant Kasharuk, Newtok



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Anaktuvuk Pass prototype



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"Alaska Native children have some of the highest rates of respiratory illness ever documented."

-Alaska Native Tribal Health Consortium



CLIM

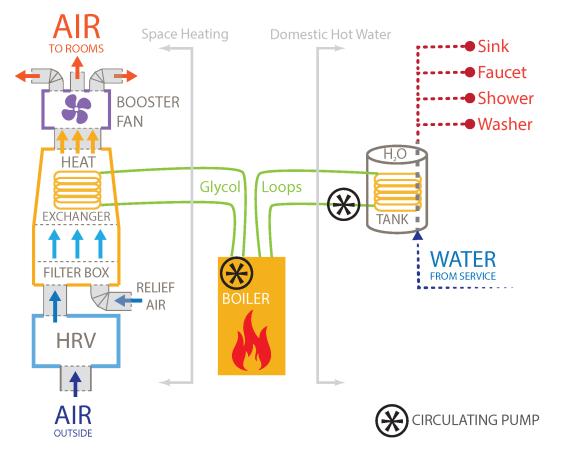
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Buckland prototype





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Buckland Prototype





## **Unsustainable Shelter**

"We've structured our grid so that for the next two generations, our children will be forced to locate their homes based entirely on where they can s\*#t. I think as humans, we are capable of more than that."

-Canadian resident, Pond Inlet



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Water and Sewer





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#### Water and Sewer



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### Unsustainable Shelter

"We need to build for the young people. Our people moved from site to site until the state told us to live here for the school for our children. So now, we need to build up this site, here where we are, for our children." -Nathan Hadley Sr., Buckland, Alaska

CLIM

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# Sustainable Shelter

#### Newtok/Mertarvik



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### Sustainable Shelter Newtok/Mertarvik





### Sustainable Shelter Newtok/Mertarvik





### Questions?

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