



Igamsiqayugvikamsi tagikemsi quyakamsillu esghaqemsi! Thank you for coming, it's good to see you!



I live and work as a grateful guest on the lands of the Rappahannock, Pamunkey, Upper Mattaponi, Chickahominy, Eastern Chickahominy, Nansemond, Monacan, Mattaponi, Patawomeck, Nottaway, and Piscataway tribes.

Today I am grateful to be here on the land of the Osage Nation, Missouria, Illinois Confederacy, Miami, and other tribes.

Igamsiqayugvikamsi, Sivuqaghhmiit. Thank you to the people of Sivuqaq/St. Lawrence Island

# Aghneghmi (today)

- Who am I/who are we?
- "Agile" communitycentered language work
- The Akuzipik project(s)
  - With a...timely example



# Kinanguzinga? Who am 1?



- IA, MN, AZ, MA, IL, VA
- Daughter, sister, mother

- Language documentation and reclamation/revitalization
- Research in formal syntax, morphology, semantics (Ancient Greek, Cherokee, Turkish, Scottish Gaelic, Akuzipik, Hawrami Kurdish)
- Work with speakers of Akuzipik, Scottish Gaelic, Hawrami Kurdish
- Tense and aspect cross-linguistically

### Kinangusta? Who are we?



- NSF Documenting Endangered Languages Grants #BCS 1760977; and 1761680 (Lane Schwartz, PI)
- Mathy Junior Faculty Award in the Arts and Humanities
- George Mason University Presidential Scholarships
- GMU CHSS Faculty Research and Development Award
- NSF CAREER Award #BCS 2142340



Ayaka Anders Apassingok, Qergengaawen Lydia Apatiki, Petuwaq Christopher Koonooka, Qaguus Shem Rose Koonooka, Ukaall Crystal Aningayou, Amaghalek Beulah Nowpakahok, Apangaluq John Apangalook, Yupistek Aaron Iworrirgan, Yuka Ungwiluk, Avruuy Miriam Toolie, Nanik Joelaine Annogiyuk, Puni Carol Miklahook, Tasi Zinnia Nowpakahok, Kawaawen Edythe Oozevaseuk, Tagiikaq Maxine Ungott, Yaghaq Preston Apangalook, Sukaay Charlene Apangalook, and many others.

# Project affiliates

Faculty; PhD, MA, undergraduate, and high school students, retirees; funded and volunteer
Linguistics and computer science

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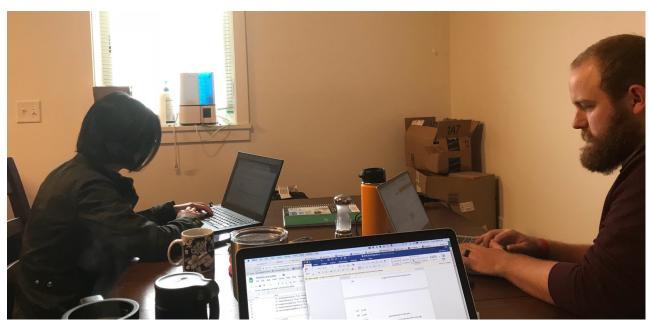


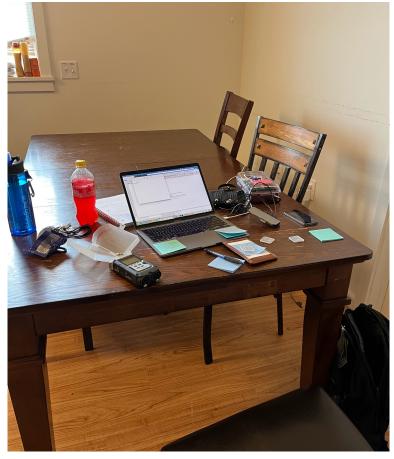
# 'Agility'?

- Iterative collaboration
- "Cross-functional" team



Language documentation & revitalization (within formal linguistics)





- Colonialist "discovery", "knowledge creation"
- Even "capacity building" (one-way street)
- Savior narrative

WHERE WE NEED TO GO: SUPPORTING INUIT SELF-DETERMINATION IN RESEARCH

Figure 3: Where we need to go: Supporting Inuit self-determination in research

"The relationship between Inuit and the research community is replete with examples of exploitation and racism. Research has largely functioned as a tool of colonialism, with the earliest scientific forays into Inuit Nunangat serving as precursors for the expansion of Canadian sovereignty and the dehumanization of Inuit. Early approaches to the conduct of research in Inuit Nunangat cast Inuit as either objects of study or bystanders. This legacy has had lasting impact on Inuit and it continues to be reflected in current approaches to research governance, funding, policies, and practices." (Inuit Tapiriit Kanatami National Inuit Strategy on Research, 2018, p. 7)

**X** Stakeholders **Rights holders X** Inequity Equity **X** Invisible ✓ Visible Lack of Control ✓ Control **X** Reactive **Proactive X** Racism Respect **X** Paternalism Agency **X** Extraction ✓ Investment **X** Exclusion Inclusion **X** Frontier Homeland ✓ Collaborative **X** Competitive





- Community-led
- Capacity-building → empowering
- Promoting and participating in Indigenous epistemologies (including ways of learning)

- Building relationships
- Participation in the community
- Acknowledging power differentials



- What does the community need?
   What do they want?
- Who represents the community? (dictionary)
- Talking to leaders and rights holders
- Recognize your responsibility for cognizance (they have a history and a backstory) (lyaka); understand the legacy of Western research
- Prioritize their ways of knowing, their needs and desires, uplift their voices

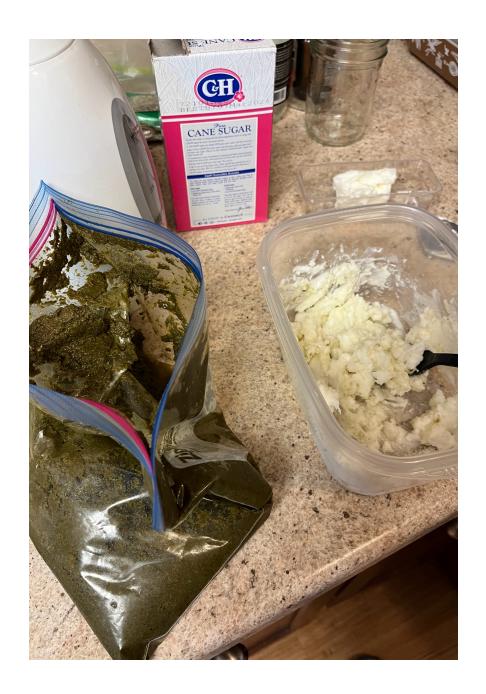
















## Sangan Sivuqaq Akuzipiklu? Saaqestaa?

Why Sivuqaq and Akuzipik? What are we doing?



### Language and Language Ecology

Akuzipik (Whangkutestun/ Yupigestun/Yupik/ St. Lawrence Island Yupik/ Siberian Yupik/Chaplinski Yupik)

- Inuit-Yupik-Unangan
- Polysynthetic
- Verbs. nouns, demonstratives, particles; 600+ "postbases"

Spoken as a first language by fewer than 1000 individuals

- On St. Lawrence Island, Alaska;
- On the Chukotka Peninsula of Russia; and
- In mainland Alaska (de Reuse 1994; Schwartz, et al. 2020)

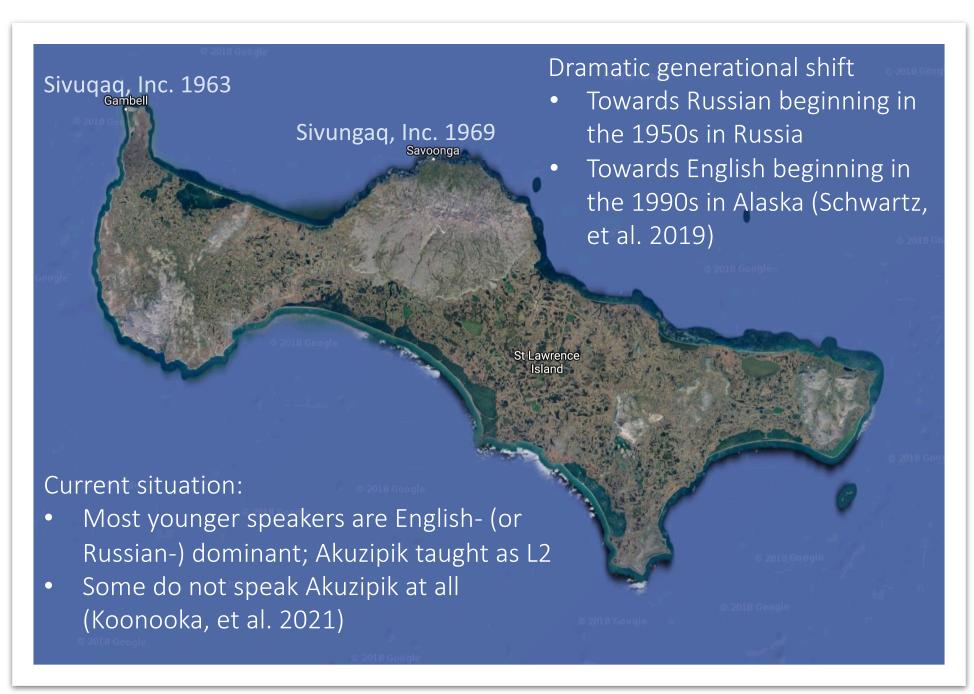
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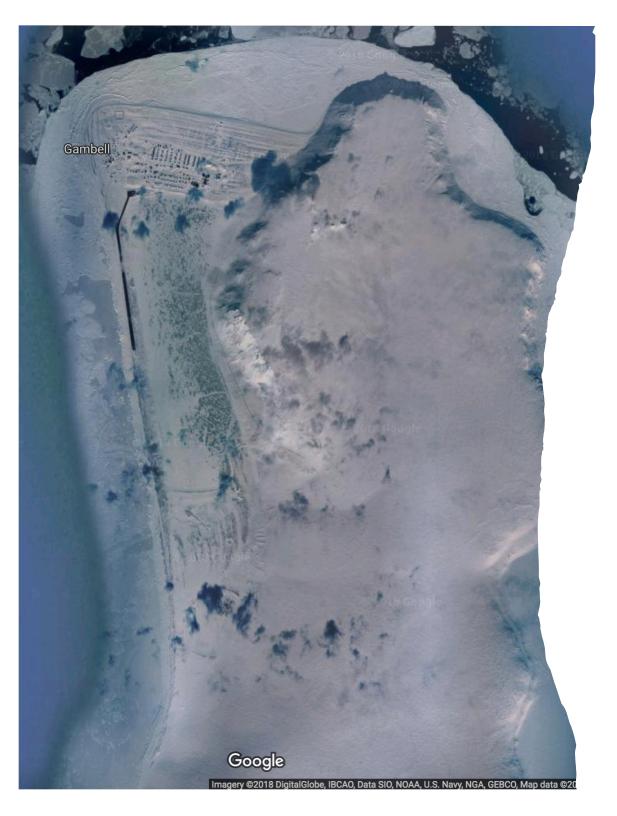
siqineghllugughsimakanga

siqineghllug - ~:(ng)ughte - @~:(i/u)ma - ke - nga

excess.sun - start.to.be.N - PAST - PTCPL - 3sg

'the sun came out' (Apassingok et al. 1993)





# Existing outsider scholarship

- Dictionary (Badten, et al. 2008)
- Pedagogical grammar (Jacobson 2001→)
- Some linguistic literature, mostly descriptive
- Yupik-language texts, curricular materials (1970s-90s)



# The DEL Project



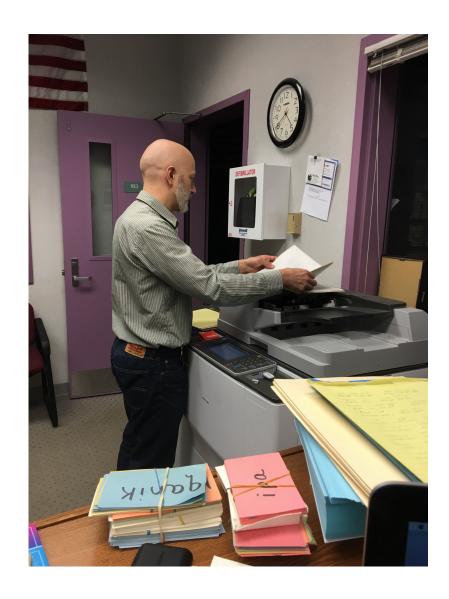


# Objectives









ATEQ ANSWER SHEET

#### **AGHVEPIK**

- 1. Whanga (esghaghii esghaghaqa) aghvepik.
- 2. Ellngan (esghaghaa esghaghtuq) aghvepik.
- 3. Whangkuta (esghaghiinkut esghaghaghput) aghvepik.
- 4. Elpek (esghaghaqa esghaghaten) aghvepiget.
- Digitizing ethnographies, folksongs and stories; Bilingual-bicultural pedagogical materials (current use)
- Building a searchable corpus
- Developing a repository for these materials that is easily accessible by the community and supports development of language tools

- Developing a suite of tools for use by speakers of the language (Schwartz, Chen)
- Aim: develop these tools in such a way as to promote use by community language activists (Hunt)
- Digitization → larger corpus → more accurate morphological analyzer
- Accurate morphological analyzer → efficient corpus searching
- → ability to locate existing documentation of phenomena, and their contexts
- = ability to build more complex tools for community members



qavaghtuq

| Search | Search | Search | Parse | Qavagh + [Intr][Ind][3Sg]

| Results for qavagh: (καβας-) /qαναβ/ to sleep; to fall asleep

Locating this resource on the web means community members can more easily access the dictionary

The dictionary employs the parser, so users can search for an inflected word















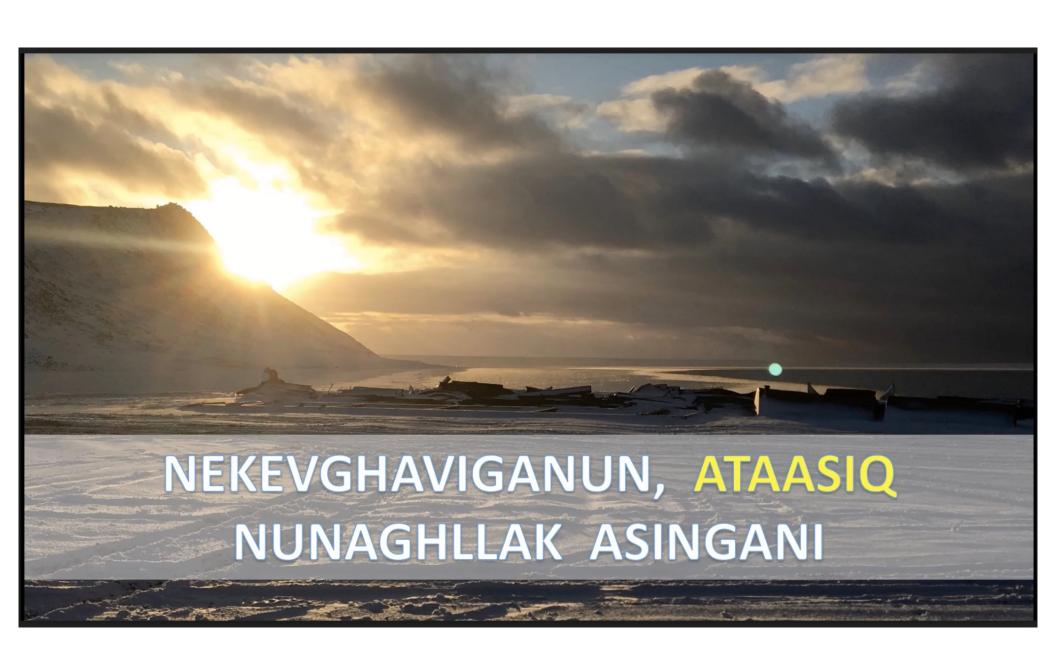
esghaghaqa

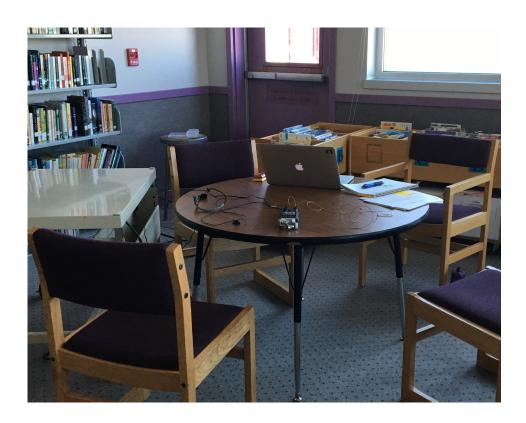
Parse

Possible analyses

- $^{+}$  esghagh +  $\sim$ (g)aqe[V $\rightarrow$ V] + [Intr][Intrg][3Sg]
- esghagh + [Trns][Ind][1Sg][3Sg]









### Documentation:

- Un(der)documented morpheme attachment rules, lexical items
   (→parser errors)
- Conflicting information in existing literature
- Un(der)documented syntactic and morphological phenomena
- Detailed positional and semantic work
- Phonetic work on vowels and consonants



- Documenting temporal contrasts
  - Important for L2 learning situations
  - Difficult if not impossible to do with traditional interview or corpus methods
  - Poorly documented



- Methods
  - Elicitation with community-created, culturally-specific storyboards
    - Being drawn by a community member
  - Recording of narratives and conversational dyads
  - Topics for discourse prompts determined in collaboration with the community revitalization group → documentation of traditional knowledge accomplished simultaneously

# Case study in progress: unmarked vs. -ma vs. -kaa

- (1) Neghtuq.'He/she/it is eating/ate.'
- (2) Negh<u>uma</u>aq. 'He/she/it has eaten/ate.'
- (3) Negh<u>egkaag</u>uq. 'He/she/it has eaten/ate.'

Existing documentation and out-of-context: unclear

```
Whang-kuta pingayuni
Whang-kuta pingayut -ni
1 -ABS:UNPD:PL three -ABS:3REFLSGPOSS/PLPOSD
estugwaghsiimaakut.
'estuwaghte'- -(i/u)ma -(g/t)ugh -kut
go.to.the.store -MA -INTR:IND -INTR:IND:1PL
A: 'We three went to the store.'
B: 'The three of us went to the store.'
```

Whangkuta pingayuni estugwaghtegkaagukut.

'estuwaghte'——(g)kaa ——(g/t)ugh ——kut
go.to.the.store—KAA ——INTR:IND —INTR:IND:1PL
A: 'We three had gone to the store (already).'
B: 'The three of us already went to the store.'

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• In a naturalistically produced story about the speaker sewing a parka:

(6)

```
Atkugek ulimakaakek atkuk –gek ulima –(g)kaqe –ke –k parka –ABS:UNPD:DU make –KAA:TR –TR:PCPL –TR:IND:3SGSBJ/3DUOBJ esghaamaagka. esghagh –(i/u)ma –(g)agh –gka see –MA –TR:IND –TR:IND:1SGSBJ/3DUOBJ 'I saw the parka she made.' (Lit. 'The parka, she having made it, I saw it')
```

 Scenario volunteered by a speaker: You heard through a chain of four people that your boat got stolen.

(7)

```
Tugukaqniit.

tugu——(g)kaqe—ni——(g)agh——(ng)at

take—KAA:TR—say.that.one.is.V-ing—TR:IND —TR:IND:3PLSBJ/3SGOBJ

'They (had) said he took/had taken it.'
```

But, if the event felt very immediate:

(8)

```
Tugumaniit.

tugu— -(i/u)ma —ni —(g)agh —(ng)at

take —MA —say.that.one.is.V-ing —TR:IND —TR:IND:3PLSBJ/3SGOBJ

'They (have) said he took/has taken it.'
```

- Speakers noted that if someone were to come up to you and ask if a third party has eaten, you would most likely answer with the form of 'eat' with -kaa (neghekaaguq).
- However: "At the party—someone asks about my son. I'll tell the first people that ask Ighneqa neghegkaaguq aghneq. Someone else asks, I say Igneqa neghumaaq."

#### • -ma:

- You watch the person steal the boat. You call your brother to tell him.
- You watch the person steal the boat. You walk into the store to tell someone.
- You're on the beach, and you see the person steal the boat. Someone drives up on their Honda and you tell them what happened.

### • -kaa:

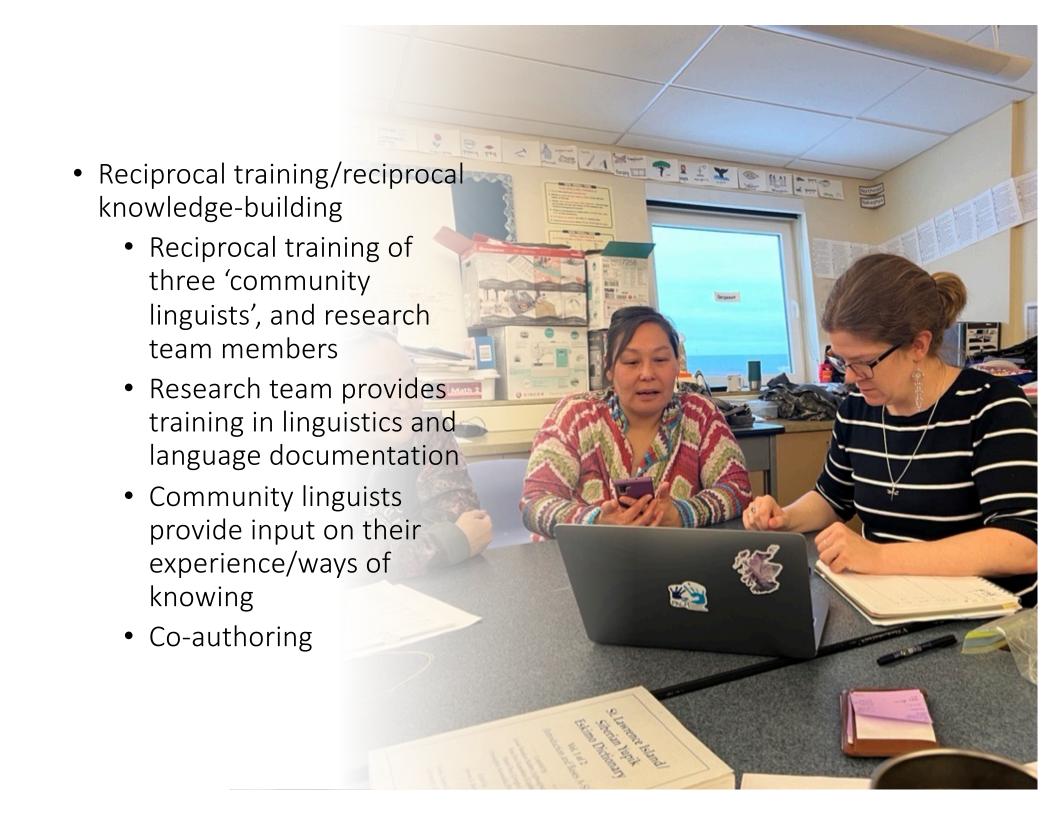
- The next day, someone asks you what happened to the boat.
- You saw the boat get stolen yesterday. You walk into the store and someone asks you what happened.
- Translations/comments: "He already stole it. He has already taken it." "It's a fact, it's stolen, he's done, it happened."

# Current thoughts

- Resultative –ma, "distant" past –kaa
- aanuq vs. aanumaaq vs. aanegkaguq 'went out' vs. 'went out a while back'

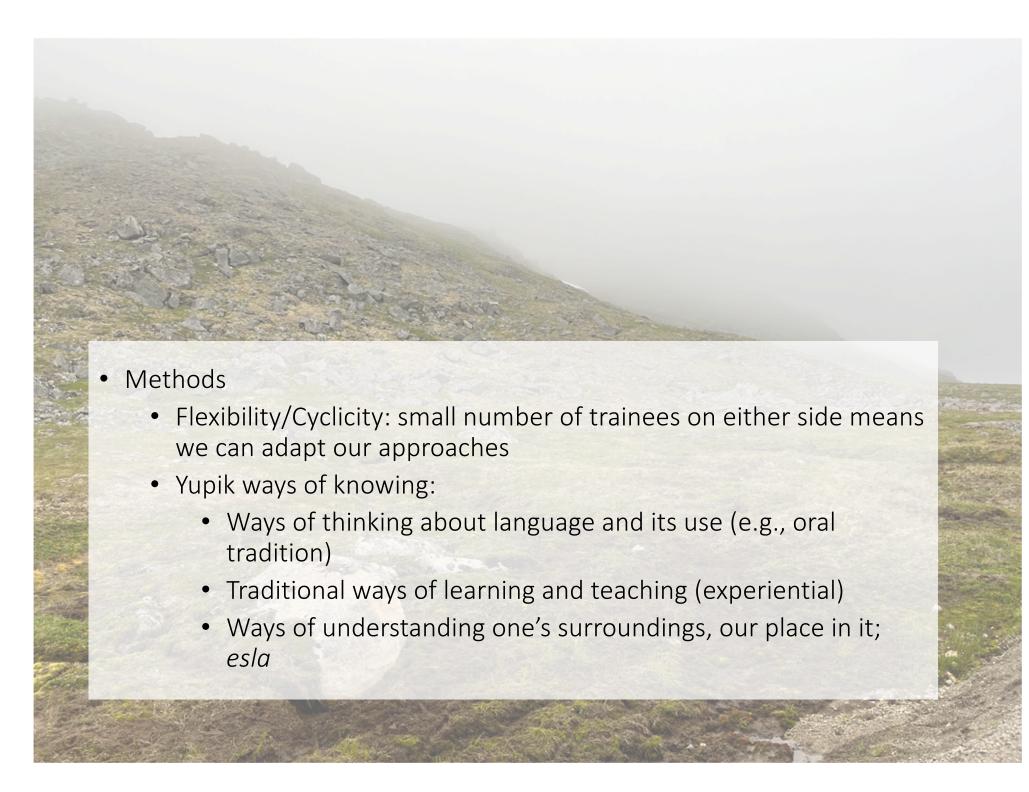


- Output goals of documentation:
  - Supporting L2-type adult learning
  - Storyboards for use in immersion contexts
  - Recorded narratives and dyads for community/L2 use
  - Additional documentation of traditional knowledge











- Community members able to operate independently of research team
- Community members share Native ways of knowing with research team and provide research team with feedback on more and less effective parts of the training
- Research team uses this information to ameliorate and Indigenize training
- Community members become a resource for other members in the community ("second-generation" training)

Revitalization

Kaalguq

"Akuzipigelta Uluvut Igleghasqelluku
Uluvut Quyakusiqaghput
Uluvut Nangaghneqaghput
Uluvut Yupigulqaghput
Uluvut Unguvasiqaghput"

"Let's Speak Our Language For It To Go On
Because
Language has spirit
Language Is Our Way of Life
Language Is Our Identity
Language Is Our Soul"



### Challenges

- Food and income insecurity
- Overcrowding
- Life expectancy
- \*Language attitudes from elders, etc.
- \*Inaccessibility of previous work





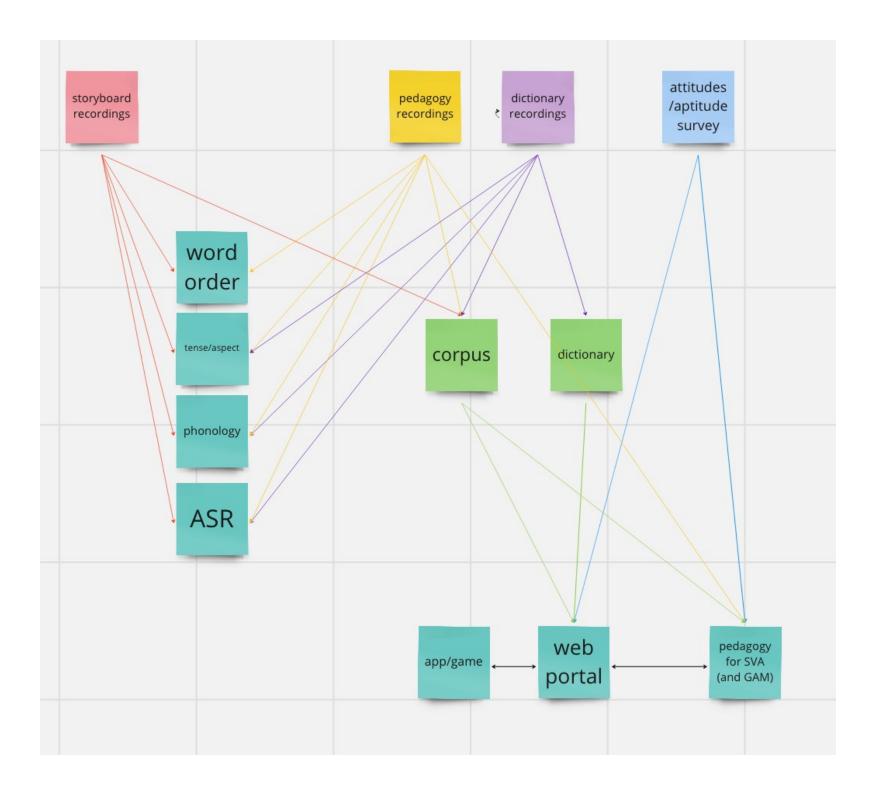


## What now?

- Revitalization group grants
- Akuzipik Zoom class (grant for paying elders)
- Reciprocal training with speakers and teachers: work/research with and by
  - Language attitudes
- Connected projects →









For more information...

https://ldl.linguistics.gmu.edu

