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ARCTIC EIDER SOCIETY

Indigenous-Driven Solutions for Thriving Communities



Prototype
2015

IK-MAP for
Community
Data
Sovereignty



DEPLOYMENT: 2015-01-29 15:10:02

TOOL: CTD CASTAWAY ¹ DATA EDIT DUPLICATE

CONTRIBUTORS COMMUNITY: KUUIJUARAAPIK

RESULTS: SALINITY

Depth VS Salinity

Depth (m)	Salinity
0	26.5
5	26.2
10	26.2
15	26.2
20	26.2
25	26.2
30	26.2
35	26.2
40	26.2
45	26.2
50	26.2
55	26.2
60	26.2
65	29.5

DEPLOYMENT: IN-2 2015-02-10

TOOL: ICE CORE SAMPLE ¹ DATA EDIT DUPLICATE

CONTRIBUTORS COMMUNITY: INUKJUAK

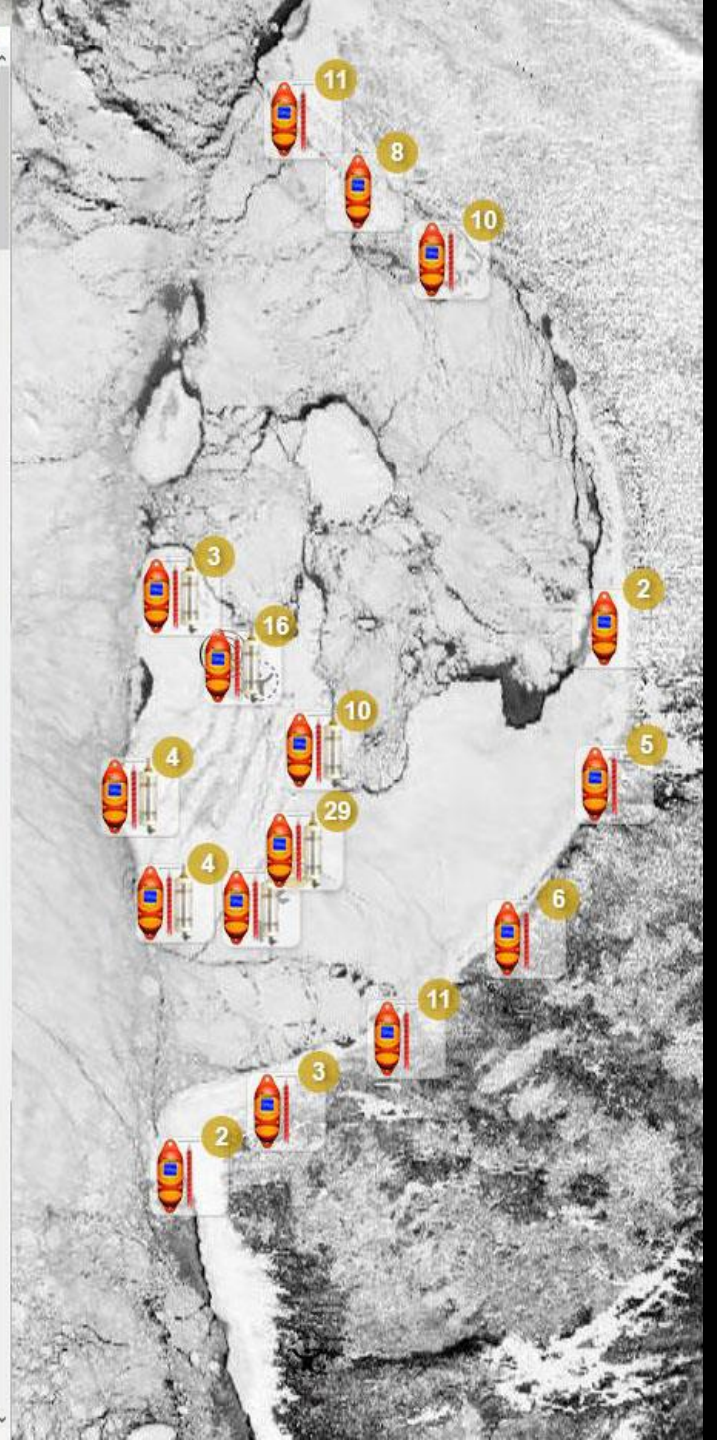
RESULTS: ICE CORE IMAGE:

SECTIONS:

PHOTOS & VIDEOS

COMMENTS

LEAVE COMMENT



2018



THE
HUDSON
BAY SUMMIT
Montreal 2018

THE
HUDSON
BAY SUMMIT

T
H
B
M

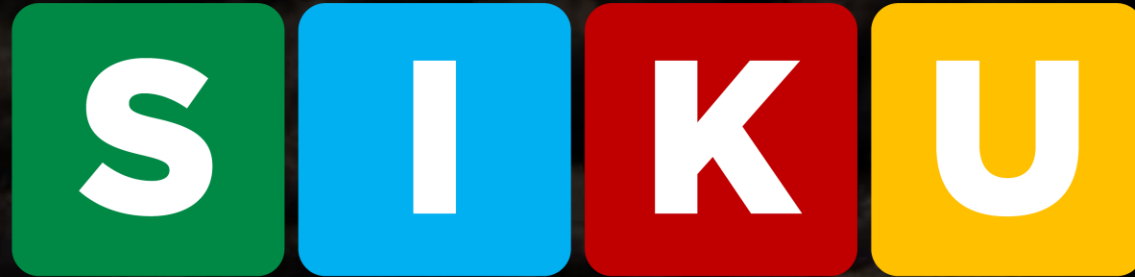
Launch
2019





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ARCTIC EIDER SOCIETY

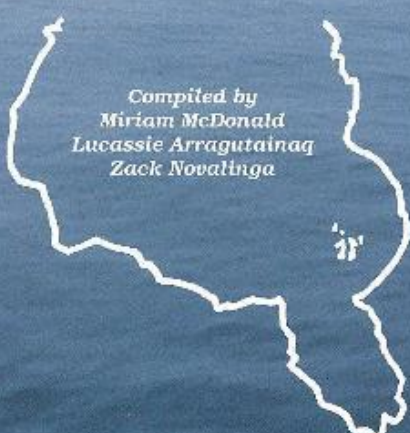


The Indigenous Knowledge App

***Self-Determination = Mobilizing
Indigenous Knowledge Systems***

*Traditional Ecological Knowledge
of Inuit and Cree
in the Hudson Bay Bioregion*

Voices from the Bay



*Compiled by
Miriam McDonald
Lucassie Arragutainag
Zack Novalinga*

*Canadian Arctic Resources Committee
Environmental Committee of Municipality of Sanikiluaq*



Inuit Qaujimagatuqangit



Scientific Measurement



Measured:
By the
Feeling
Oral History
Language

By the
Number
Quantitative
Data

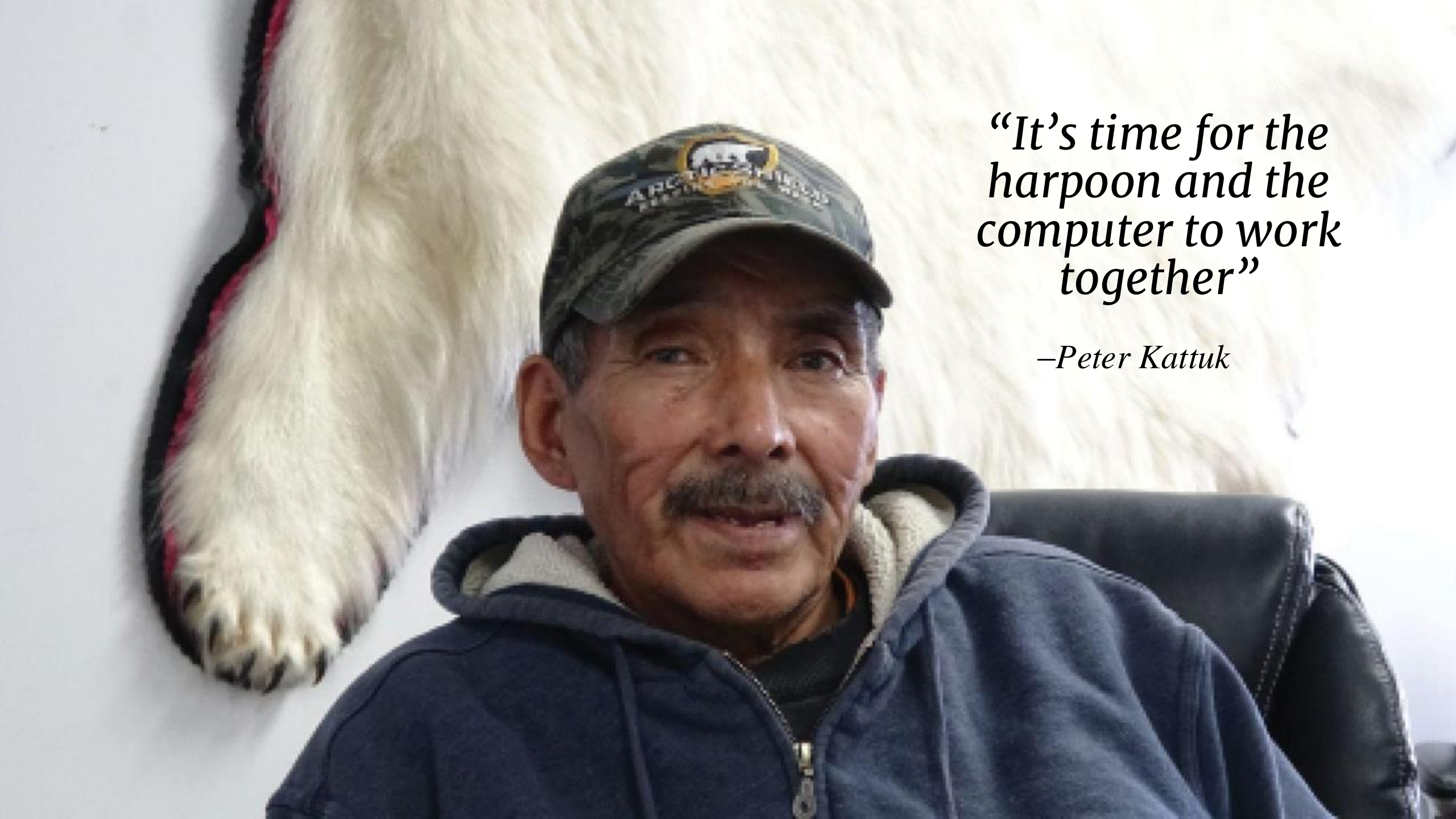


“The Environment is Changing”



“Prove it”



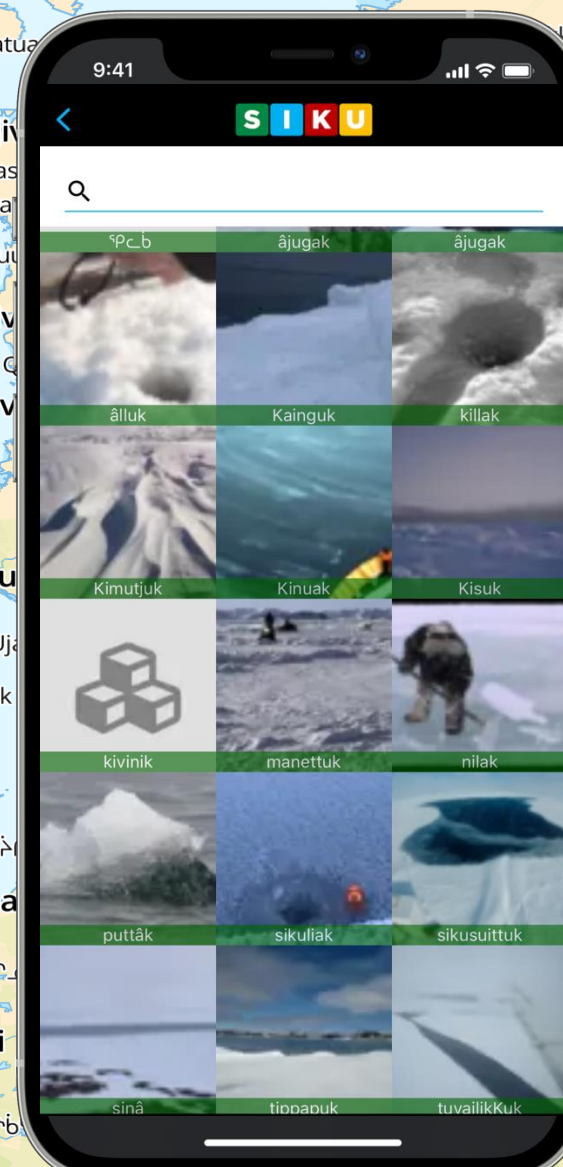
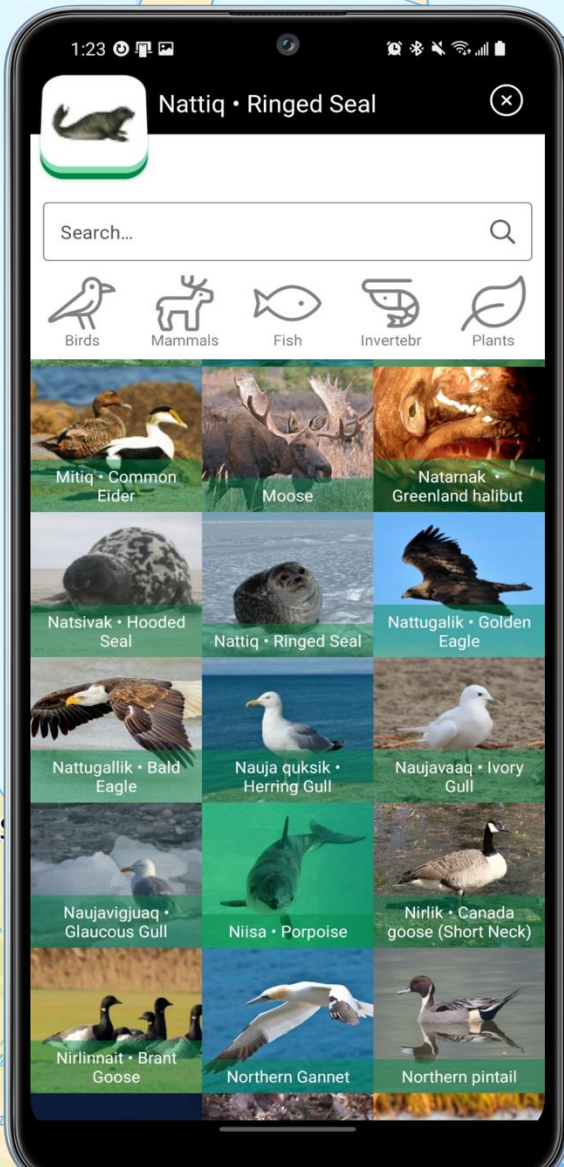
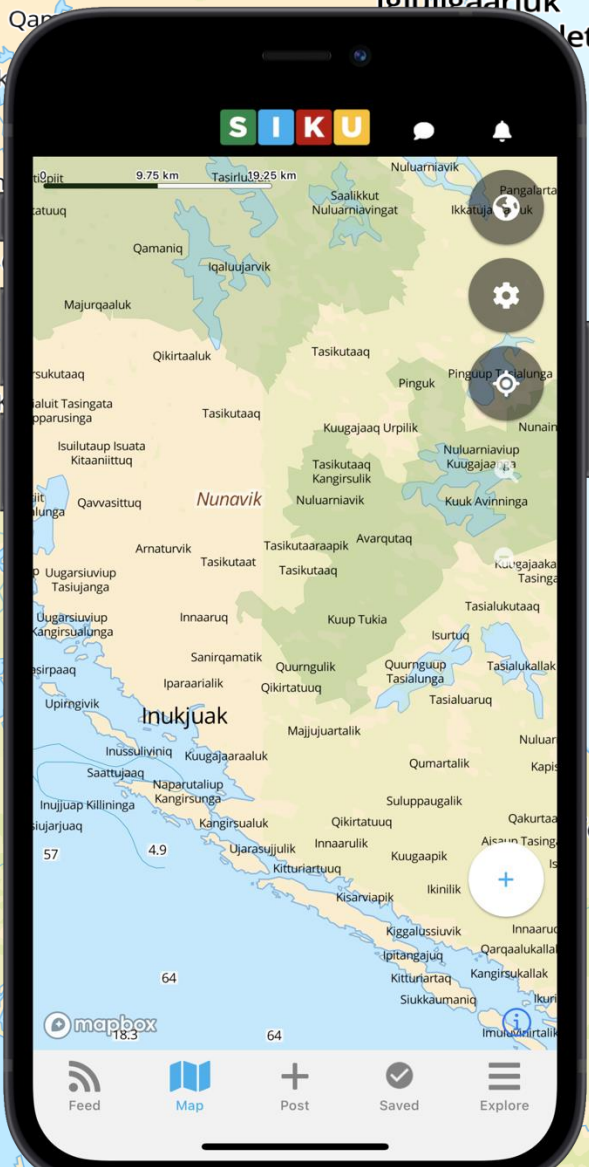
A man with a mustache, wearing a blue zip-up hoodie and a dark camouflage-patterned baseball cap, is seated in a black leather chair. Behind him, a large, white, fluffy dog paw print is mounted on a light-colored wall. The cap has a logo that includes the letters 'APC' and some smaller text. The overall scene is indoors, likely in an office or a workshop.

*“It’s time for the
harpoon and the
computer to work
together”*

—Peter Kattuk



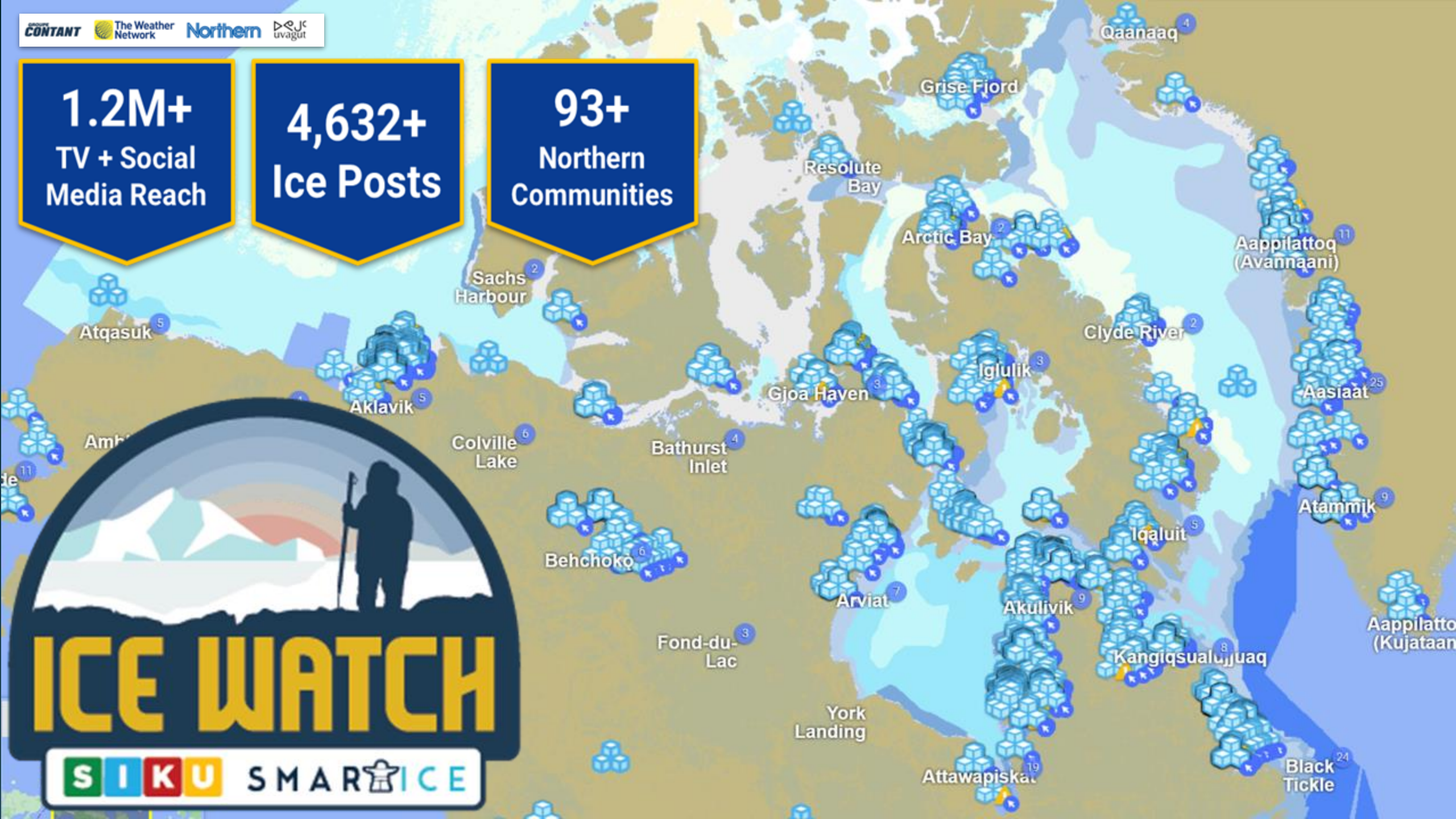
Indigenous Environmental Terminology



1.2M+
TV + Social
Media Reach

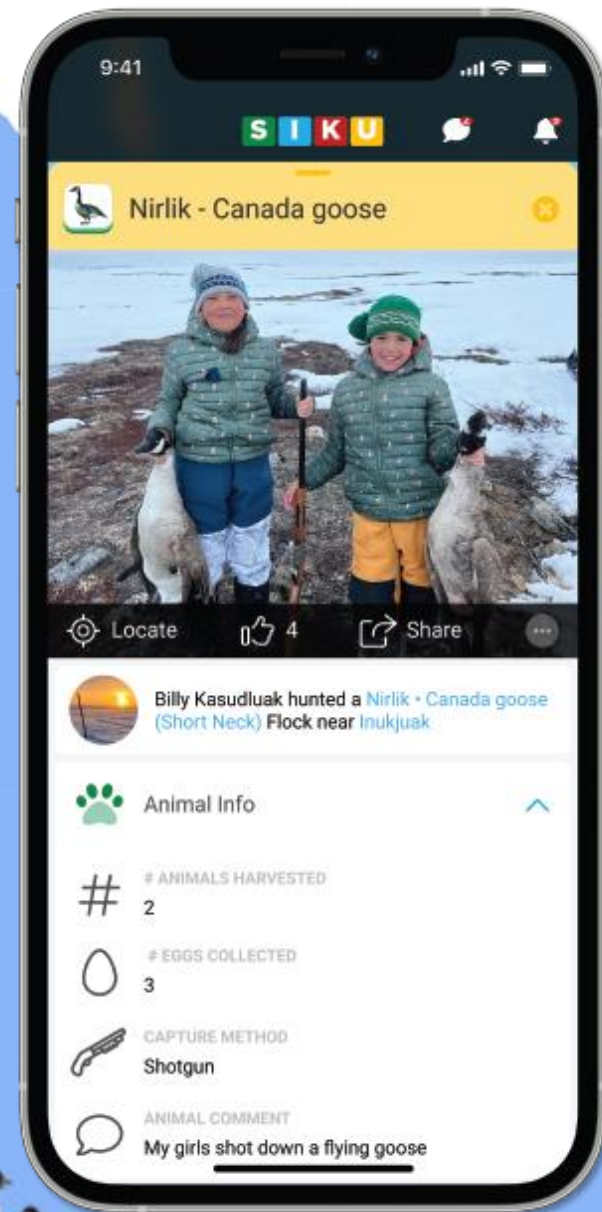
4,632+
Ice Posts

93+
Northern
Communities



2244+
Goose Posts
Made

Across
51
Communities



32,000
Users

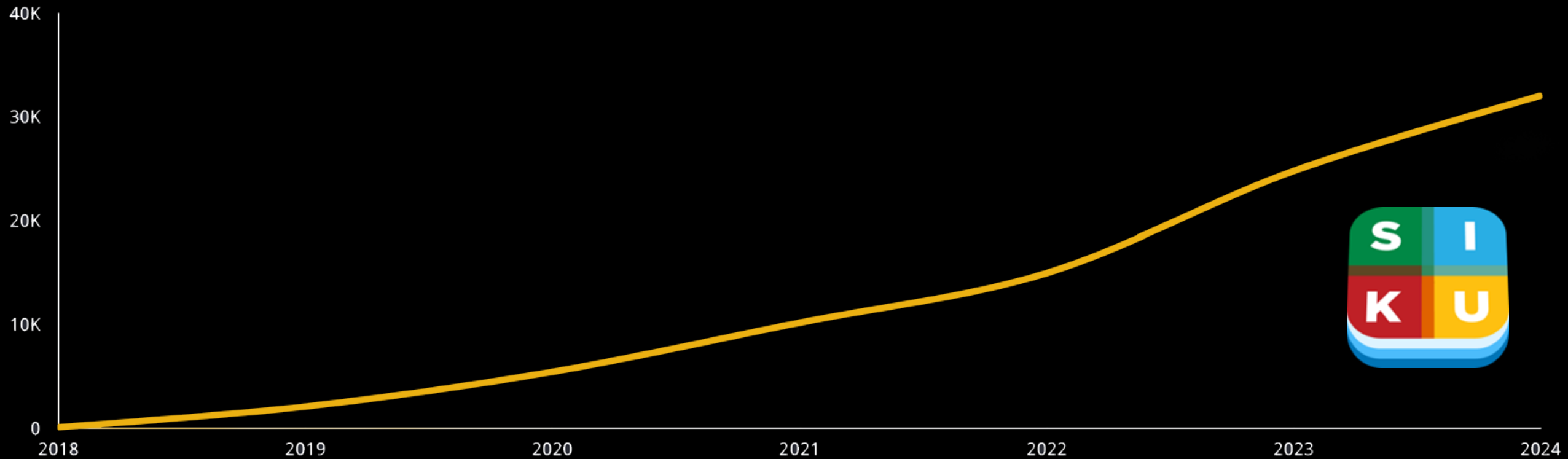
100+
Posts *per Day*

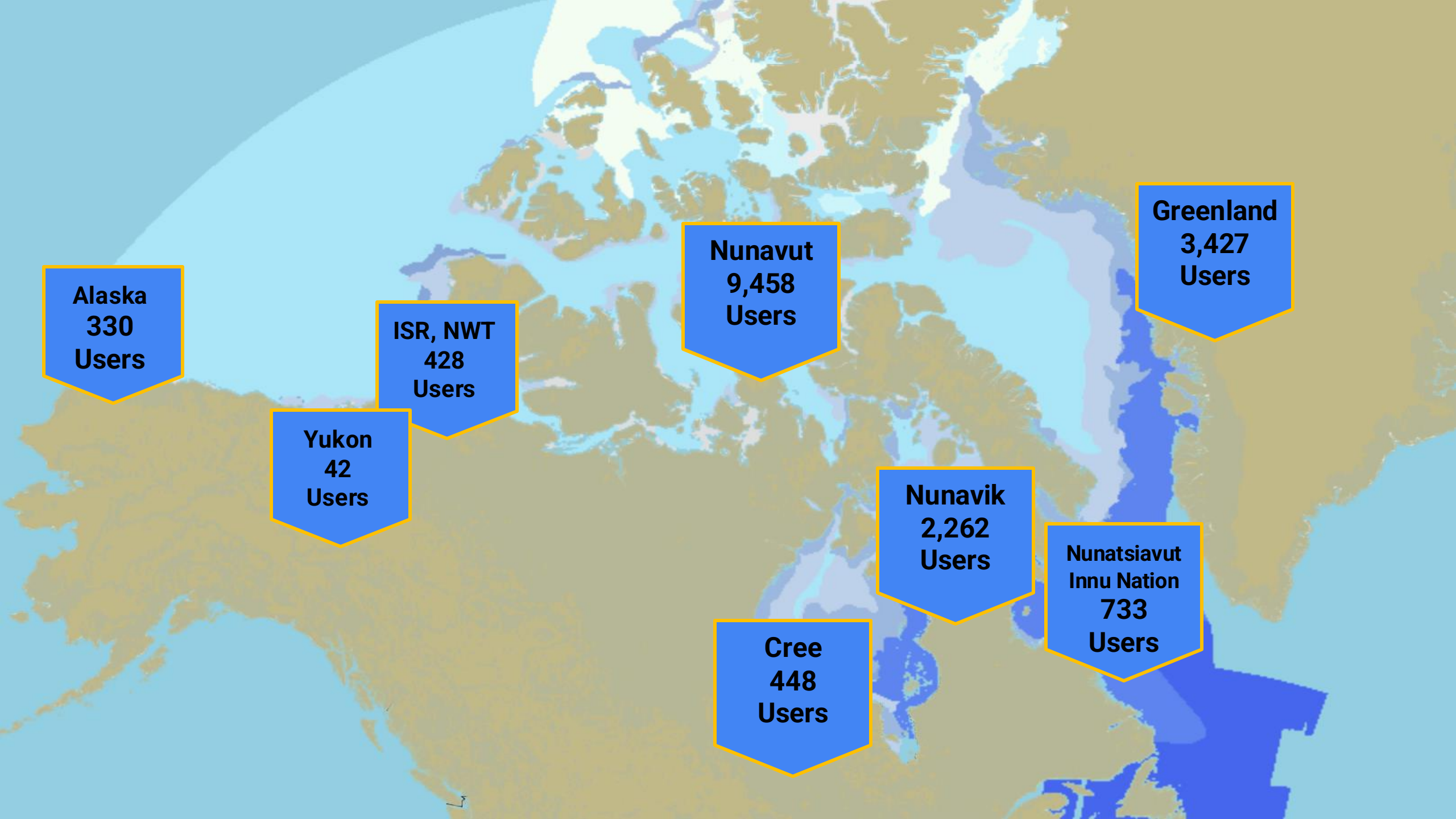
3,400,000 km
Trip Tracks

100,000
Posts

1000+
Active Users *per Day*

130
Communities





Alaska
330
Users

Yukon
42
Users

ISR, NWT
428
Users

Nunavut
9,458
Users

Nunavik
2,262
Users

Cree
448
Users

Nunatsiavut
Innu Nation
733
Users

Greenland
3,427
Users



**TASIUJAQIUARMIUT
SHEEWETAGANAPOI
CONSORTIUM**

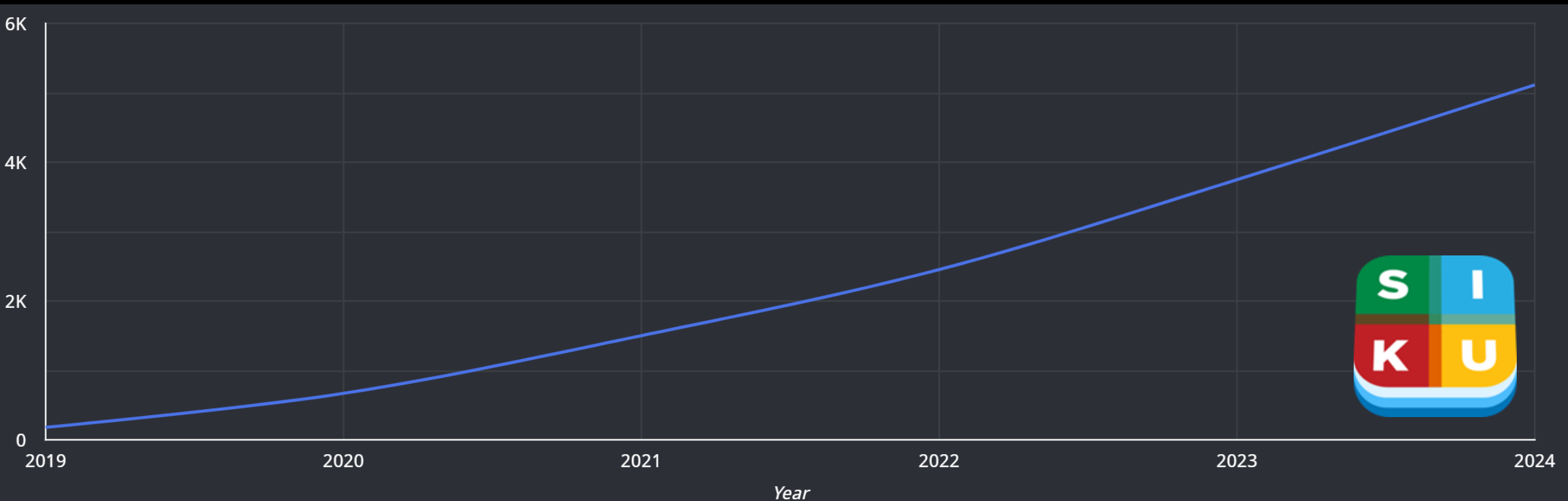
5,218
Users

454,725 km
Trip Tracks

**Consortium Communities
(Excluding Sanikiluaq)**

14,177
Posts

30
Communities





TASIUJAQIUAMIUT SHEEWETAGANAPOI CONSORTIUM

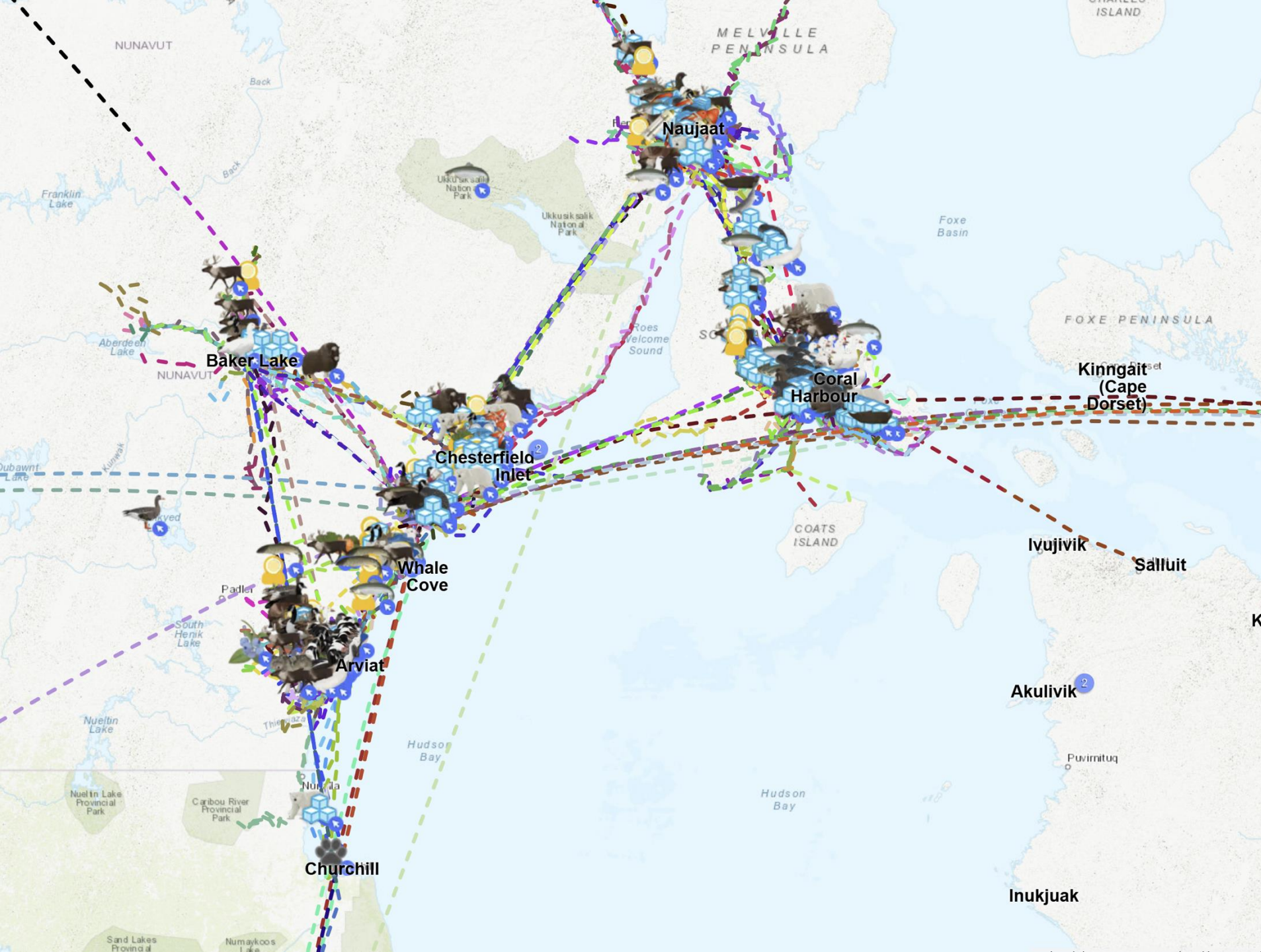
Users From Consortium Communities

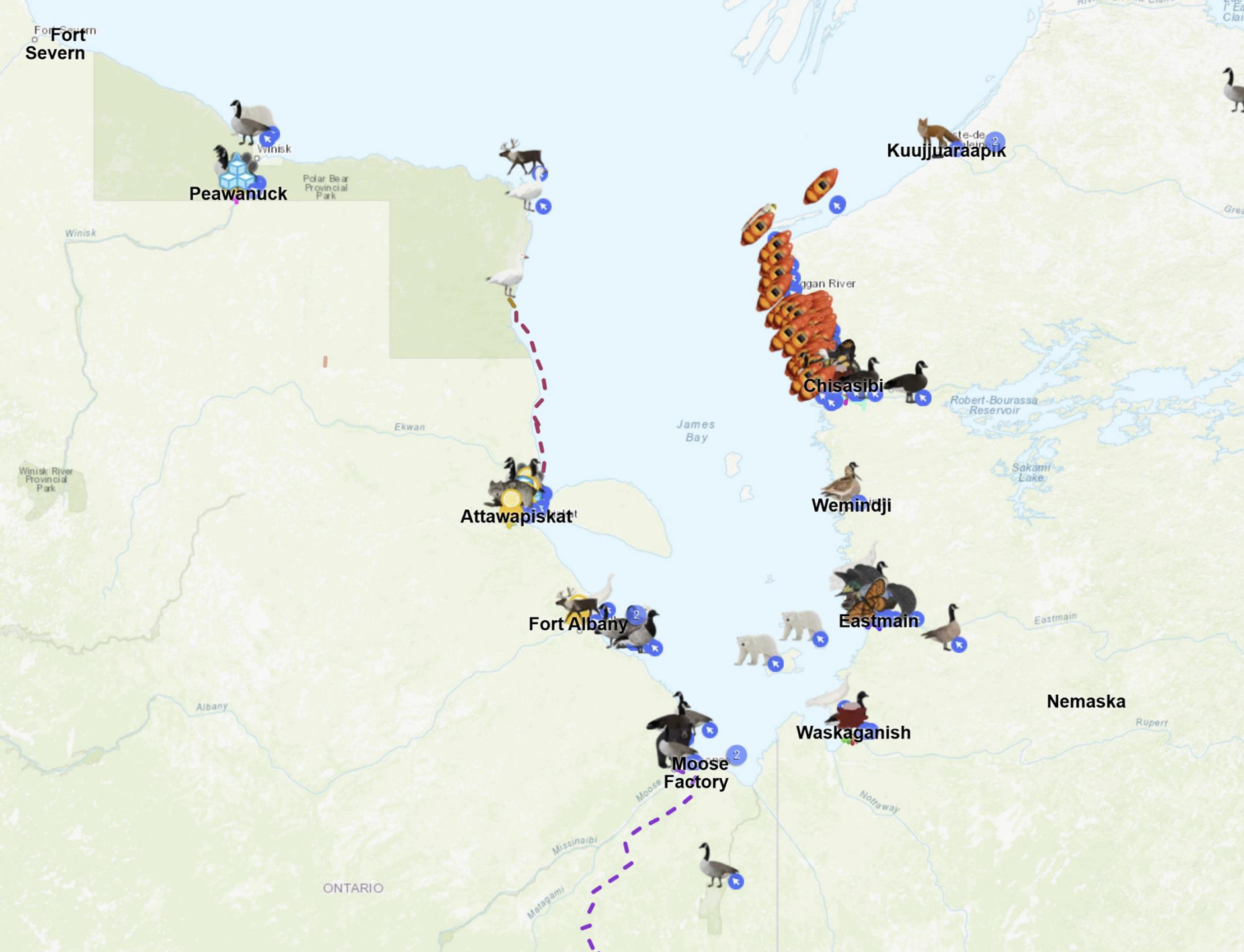
<u># of Users</u>	
Arviat	783
Sanikiluaq	594
Rankin Inlet	460
Inukjuak	431
Naujaat	394
Coral Harbo...	392
Baker Lake	282
Salluit	194
Puvirnituaq	192
Akulivik	156
Umiujaq	155
Chesterfield...	153
Kangiujuaq	146

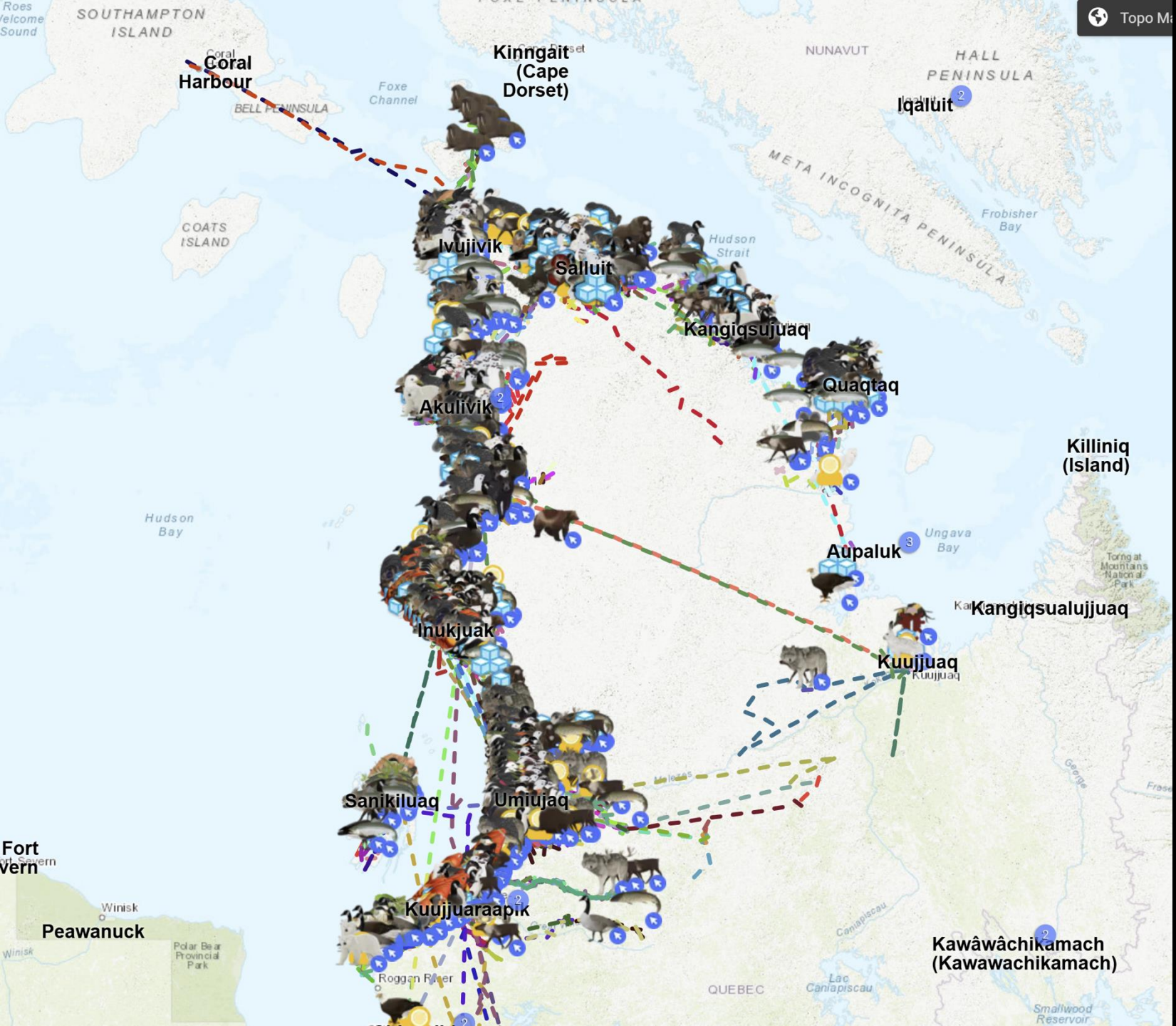
Chisasibi	121
Quaqtaq	108
Ivujivik	101
Kuujuaraapik	91
Naajaat	71
Whale Cove	69
Wemindji	43
Whapmago...	43
Waskaganish	40
Churchill	39
Attawapiskat	35
Moose Fact...	35

Fort Albany	26
Peawanuck	22
Kashechewan	18
Eastmain	12
Moosonee	6
Fort Severn	4
York Landing	2
Grand total	5,218









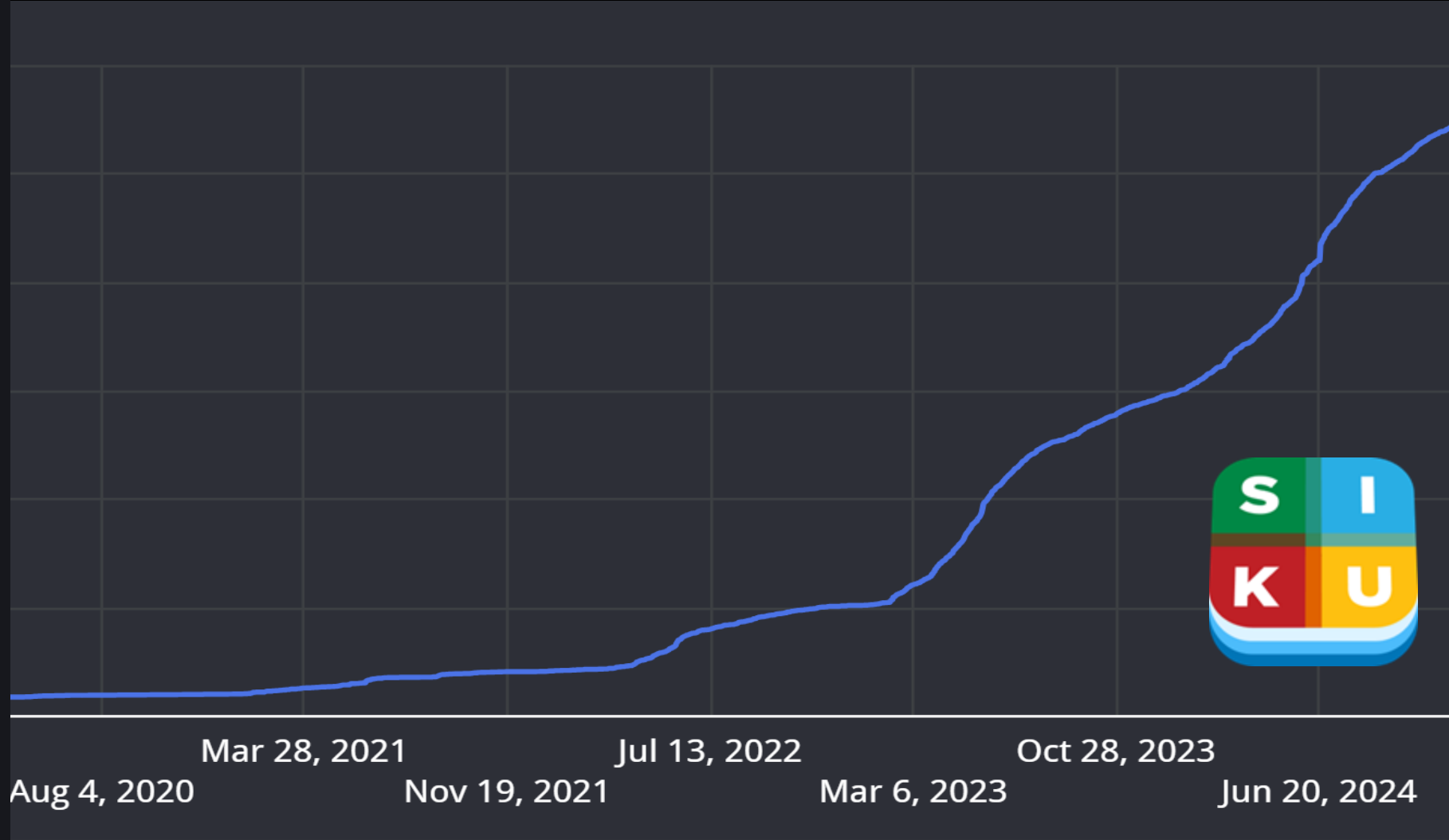


**TASIUJAQIUAQMIUT
SHEEWETAGANAPOI
CONSORTIUM**

**Posts From Consortium Communities
(excluding Sanikiluaq)**

of Posts

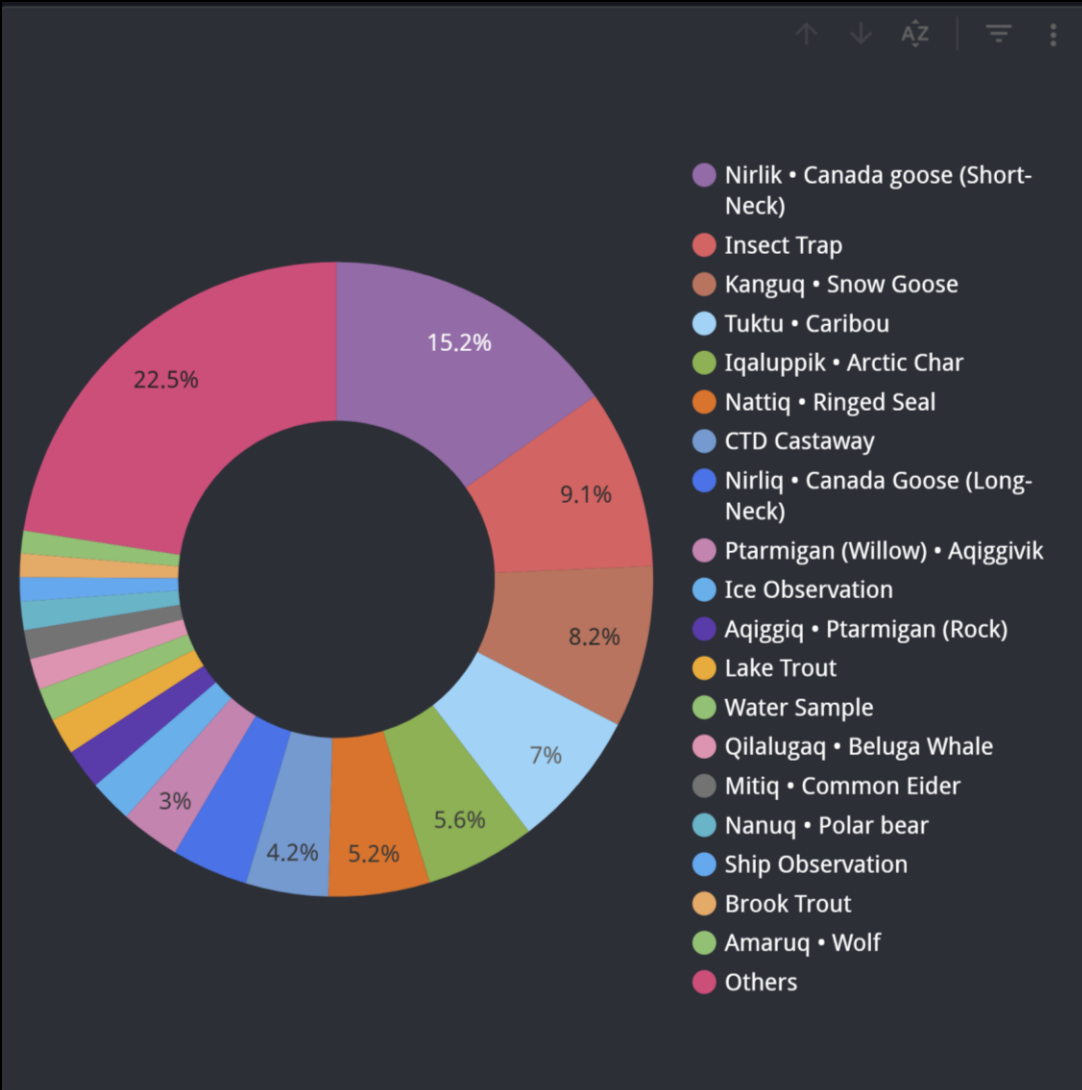
1.	Umiujaq	2,814
2.	Inukjuak	1,944
3.	Arviat	1,927
4.	Ivujivik	1,173
5.	Salluit	969
6.	Akulivik	966
7.	Coral Harbour	849
8.	Puvirnituq	656
9.	Naujaat	635
10.	Chisasibi	524
11.	Kuujjuaraapik	399
Grand total		14,177





TASIUJAQIUARMIUT SHEEWETAGANAPOI CONSORTIUM

Posts From Consortium Communities (excluding Sanikiluaq)



	Sub Type	Record Count
1.	Nirlik • Canada goose (Short-Neck)	998
2.	Insect Trap	600
3.	Kanguq • Snow Goose	541
4.	Tuktu • Caribou	462
5.	Iqaluppik • Arctic Char	370
6.	Nattiq • Ringed Seal	339
7.	CTD Castaway	277
8.	Nirliq • Canada Goose (Long-Neck)	255
9.	Ptarmigan (Willow) • Aqiggivik	200
10.	Ice Observation	145
11.	Aqiggiq • Ptarmigan (Rock)	135
12.	Lake Trout	123
13.	Water Sample	110
14.	Qilalugaq • Beluga Whale	104
15.	Mitiq • Common Eider	97
16.	Nanuq • Polar bear	96
17.	Ship Observation	80
18.	Brook Trout	79
19.	Amaruq • Wolf	76
20.	Umingmak • Muskox	69

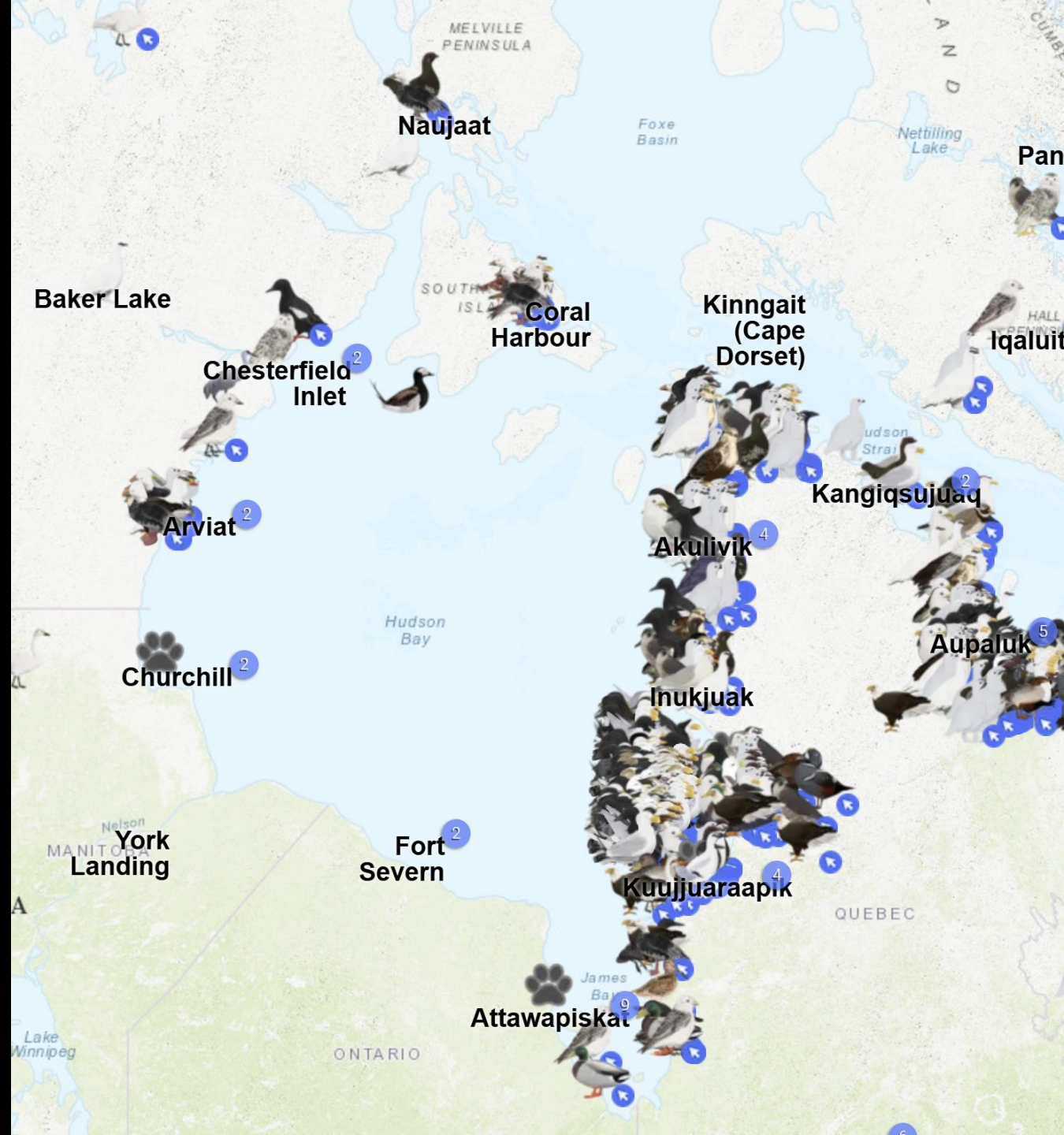
1 - 100 / 175





TASIUJAQMIUT SHEEWETAGANAPOI CONSORTIUM

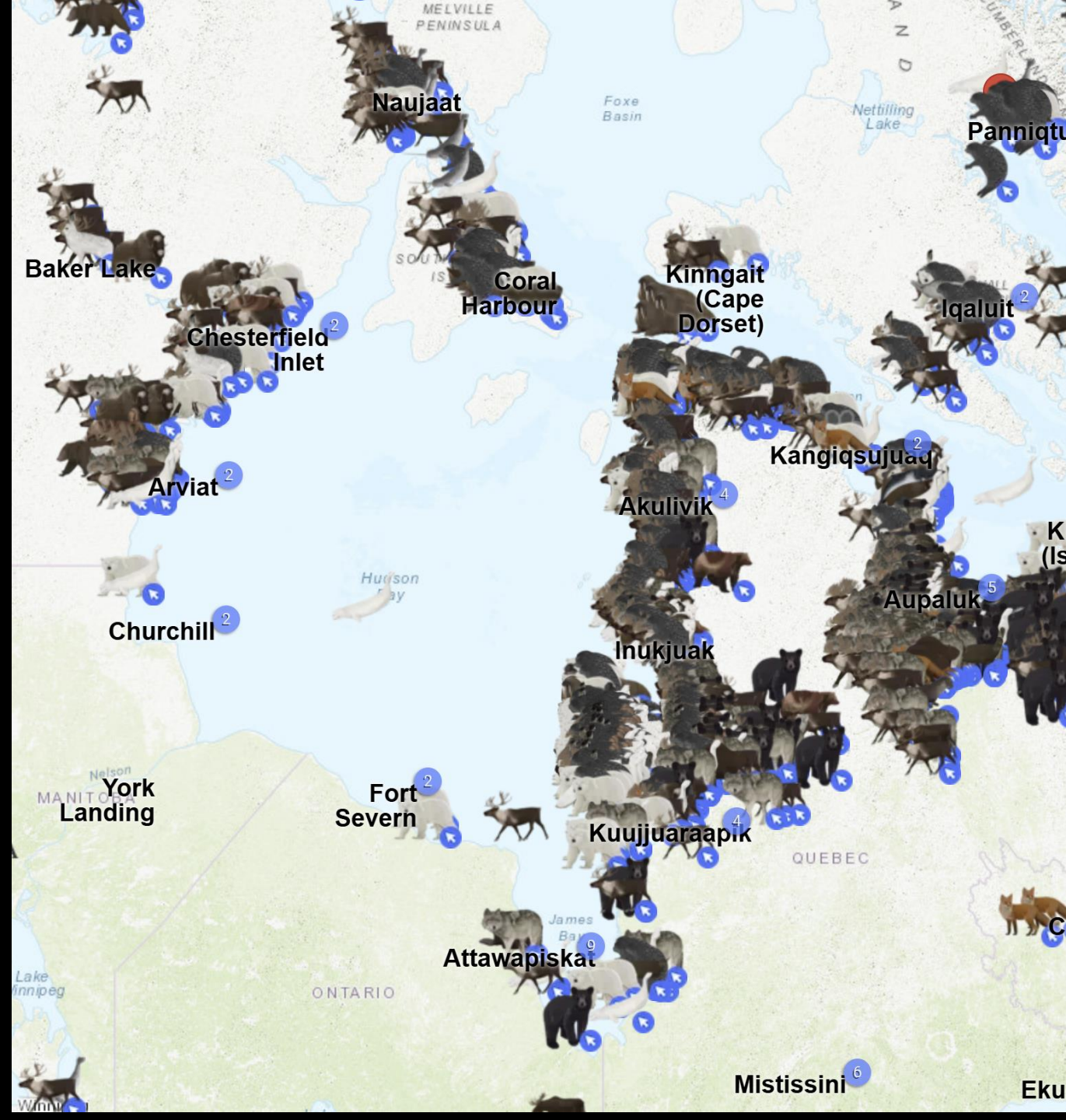
**Posts From
Consortium
Communities
Birds (excluding
Geese and Eiders)**





TASIUJAQIUAQMIUT SHEEWETAGANAPOI CONSORTIUM

Posts From Consortium Communities Mammals

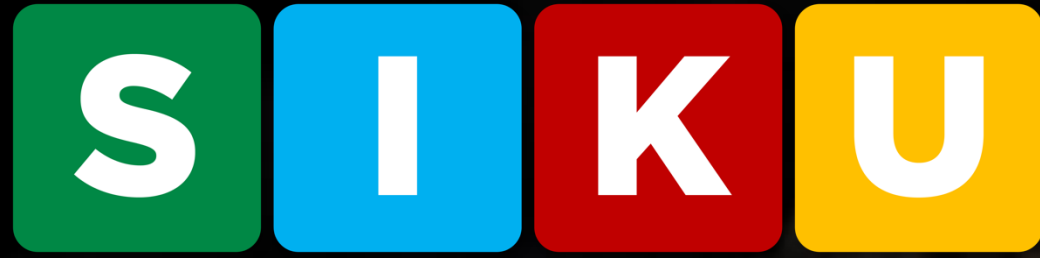




TASIUJAQIUAMIUT SHEEWETAGANAPOI CONSORTIUM

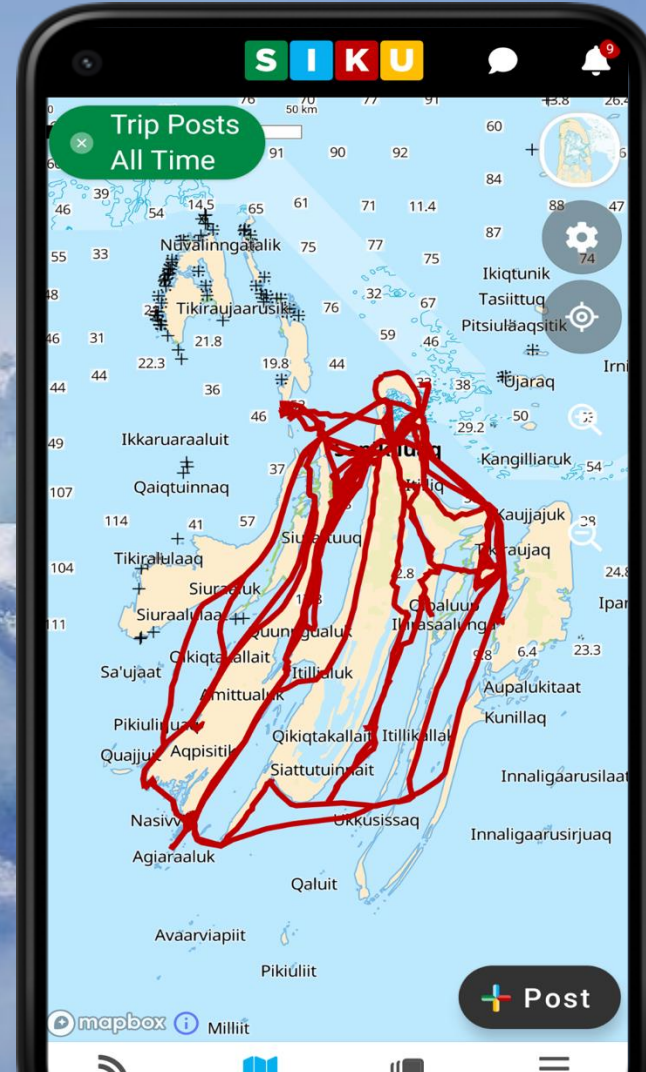
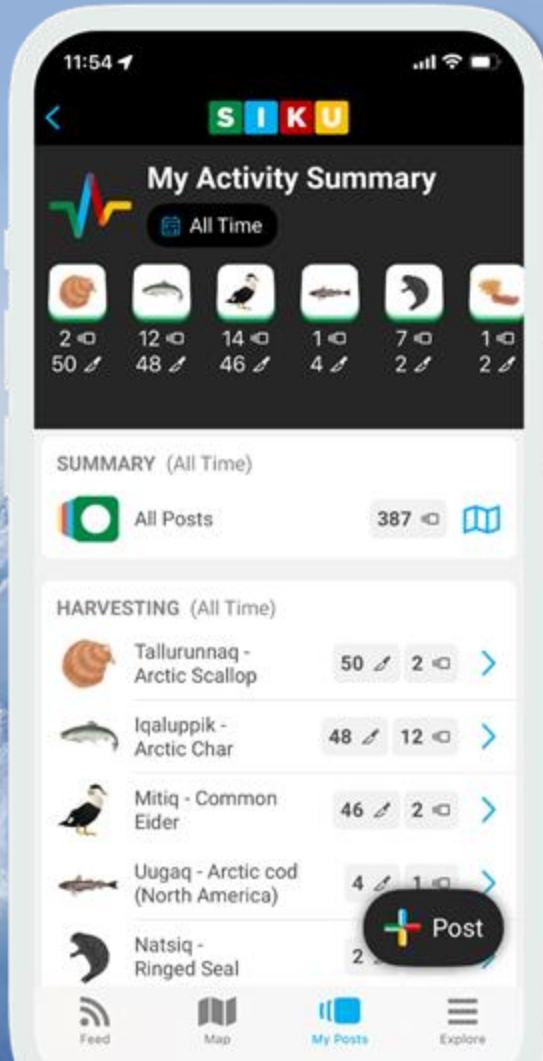
Posts From Consortium Communities Fish





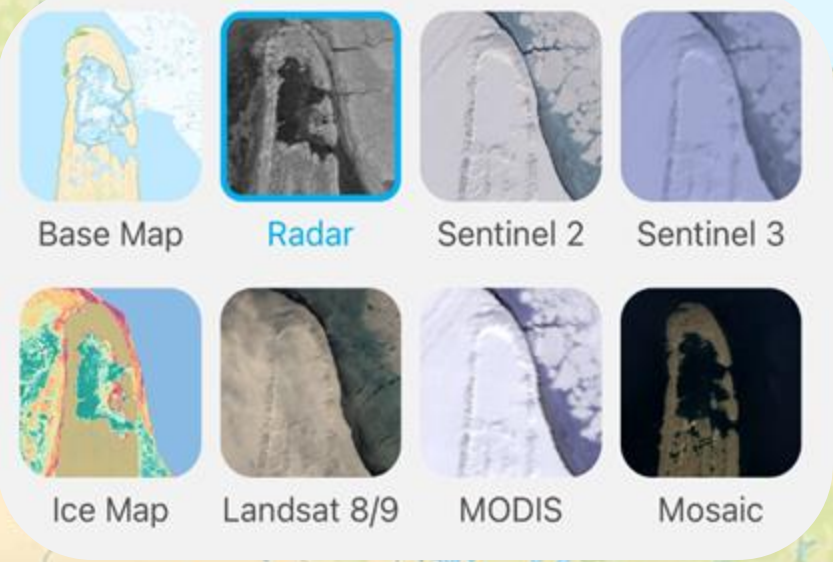
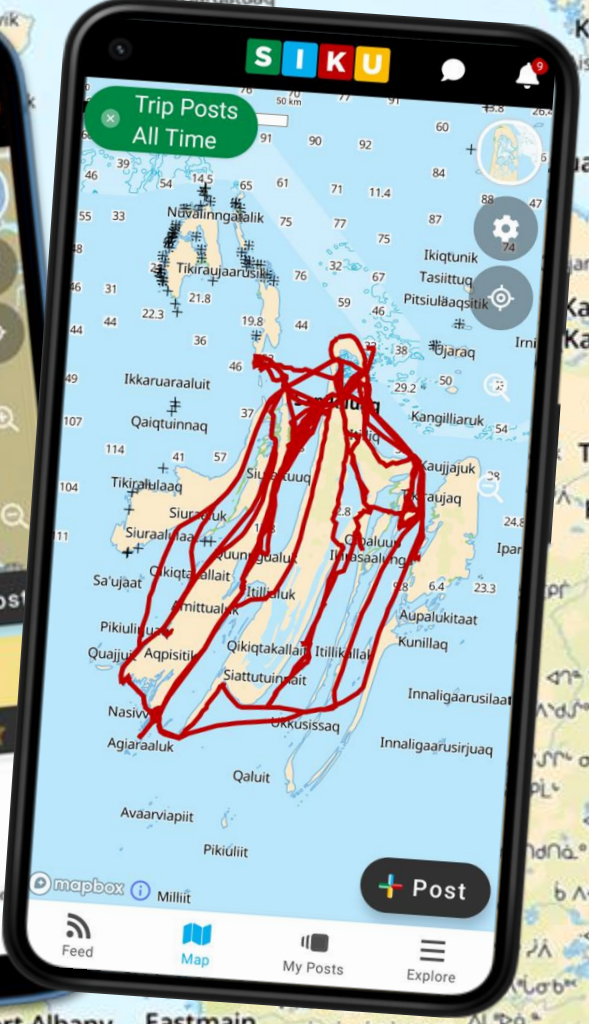
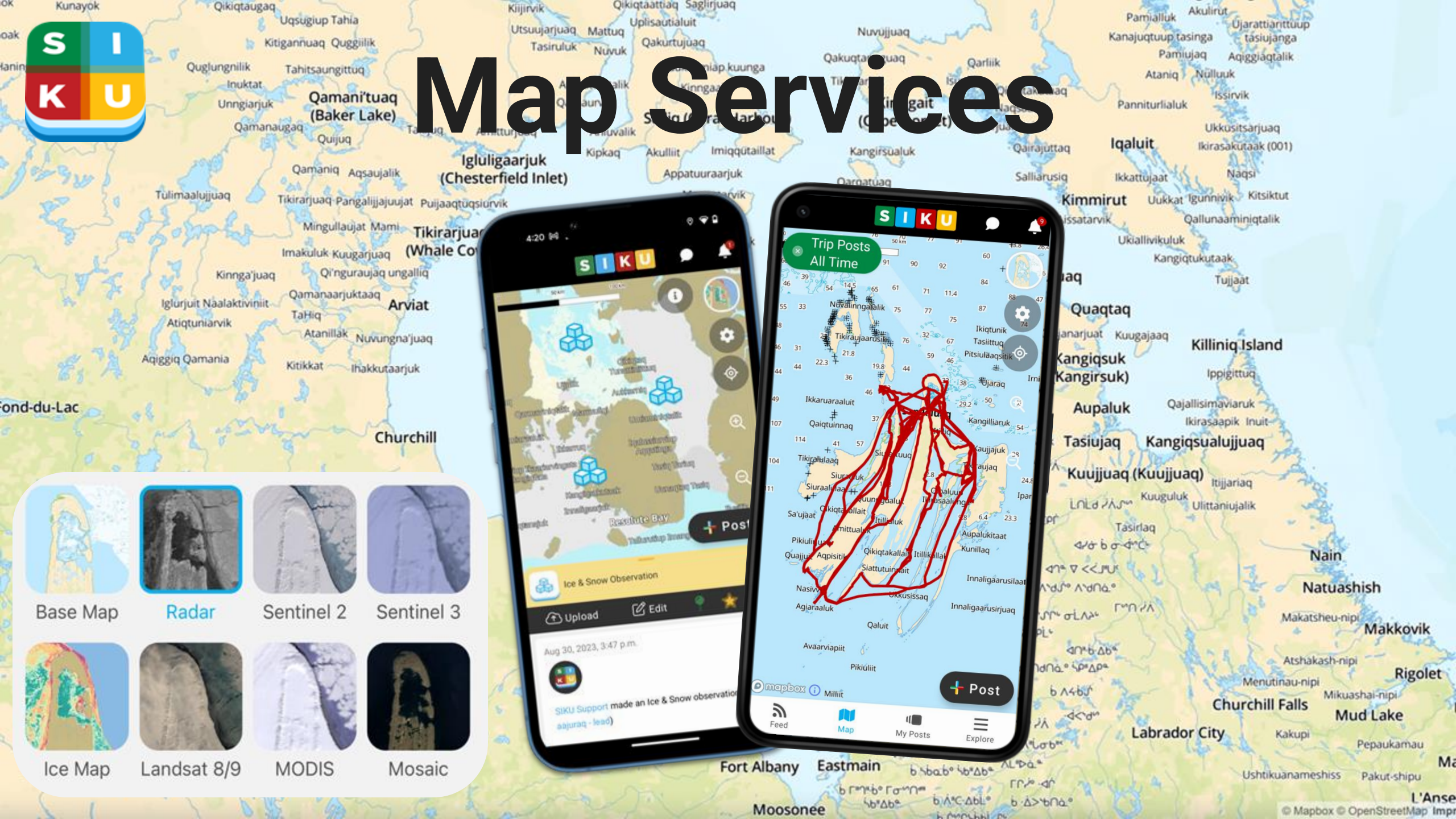
***SIKU is made first for
Hunters and Land Users***

Data Accessibility





Map Services



Base Map

Radar

Sentinel 2

Sentinel 3

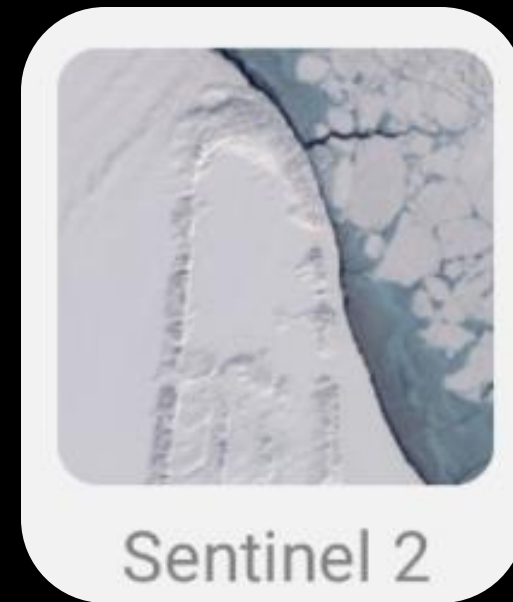
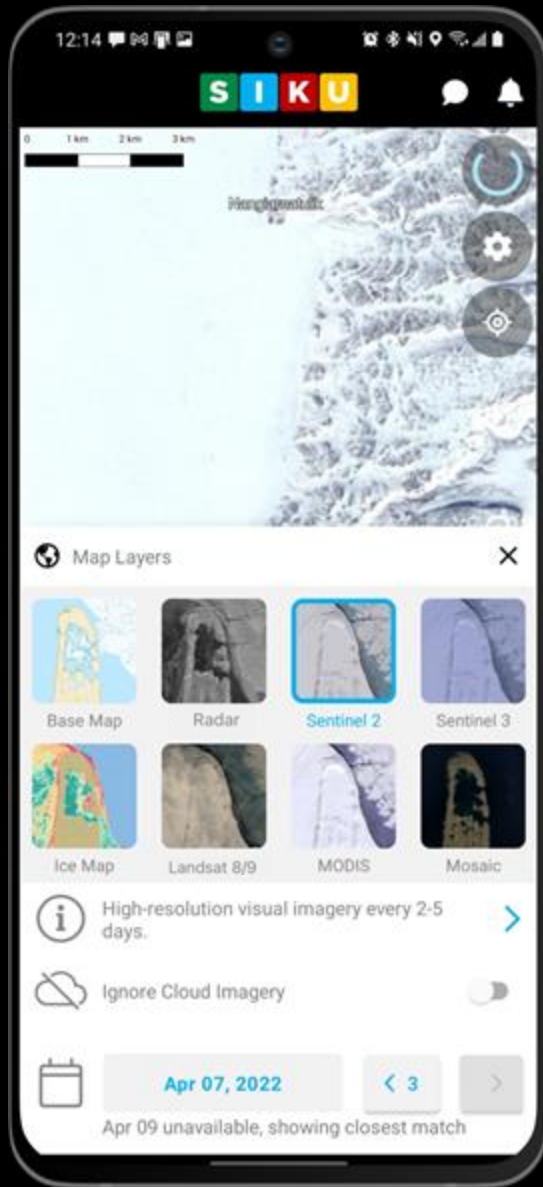
Ice Map

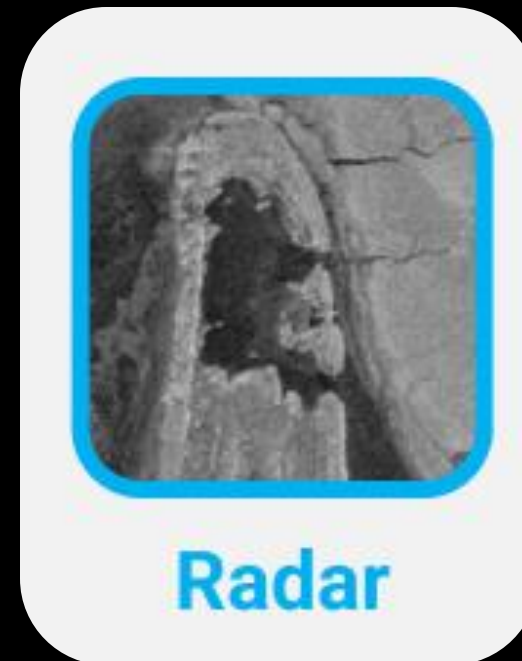
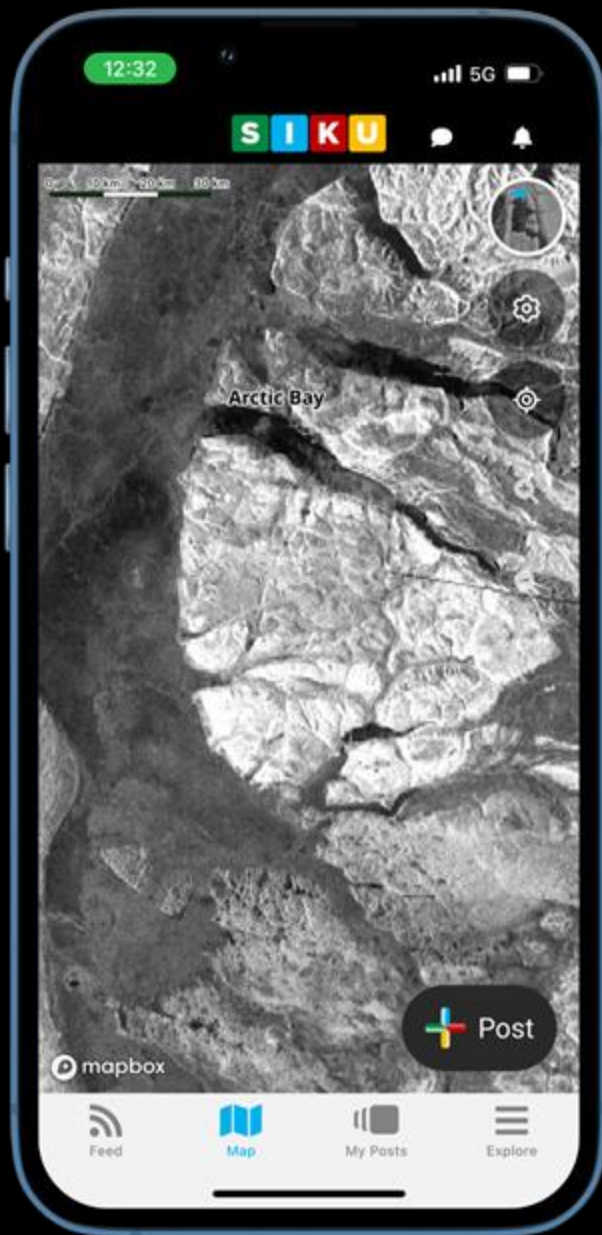
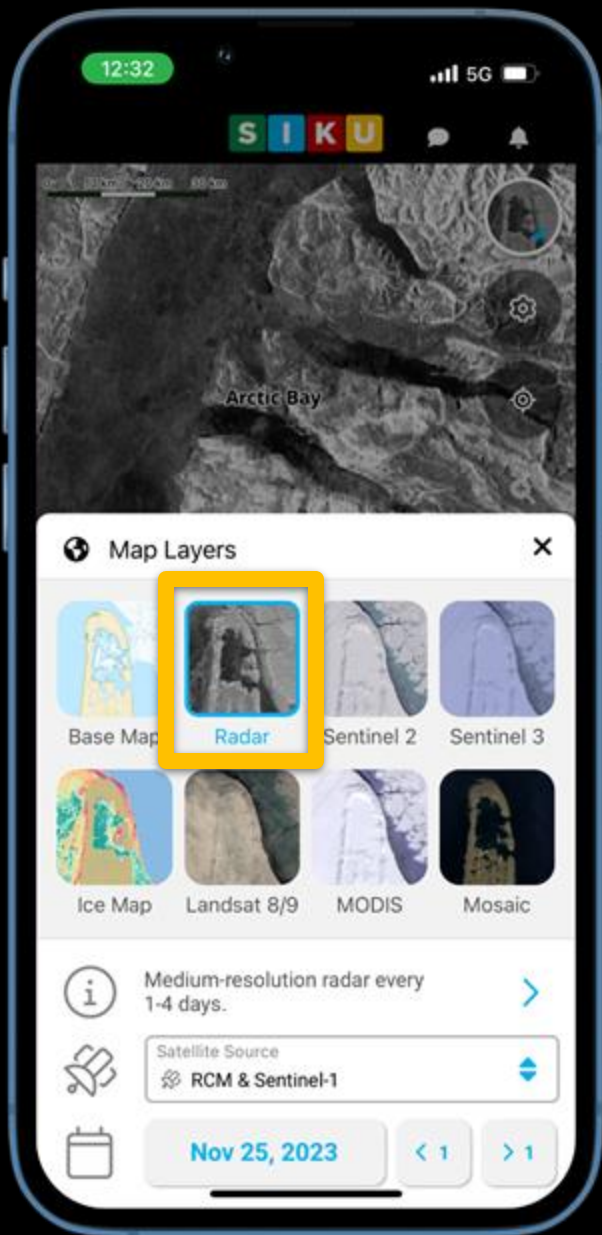
Landsat 8/9

MODIS

Mosaic



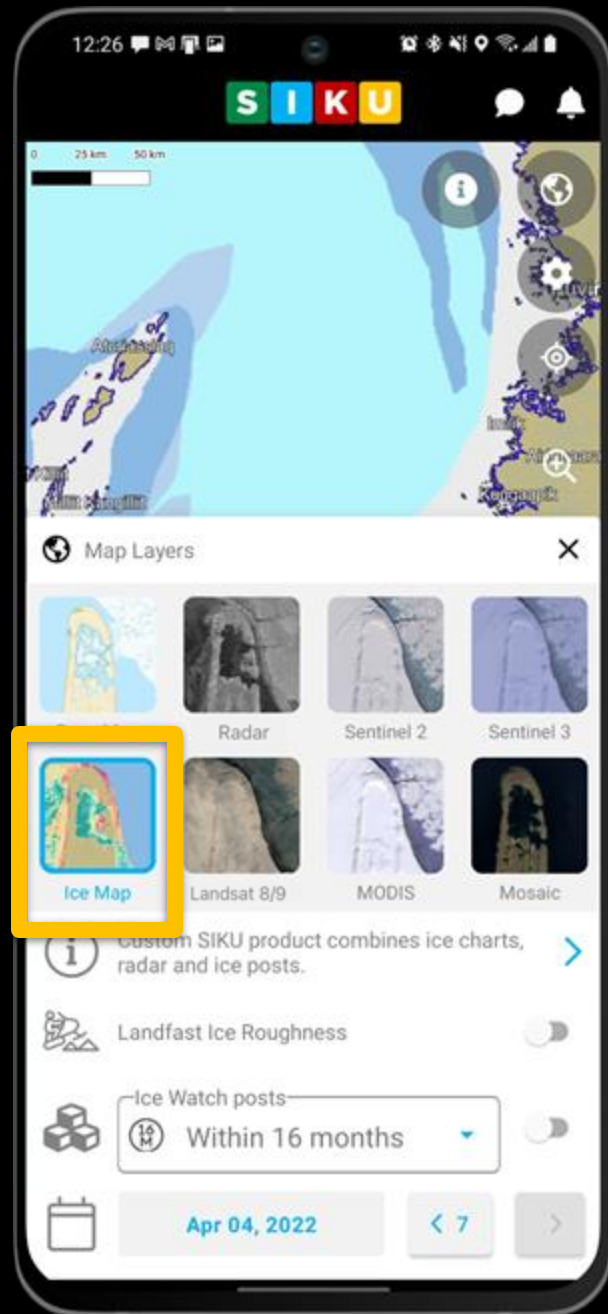




600 – 800 RCM images processed per day

RADARSAT Constellation Mission
Imagery © Government of Canada (2023)
RADARSAT is an official mark of the
Canadian Space Agency

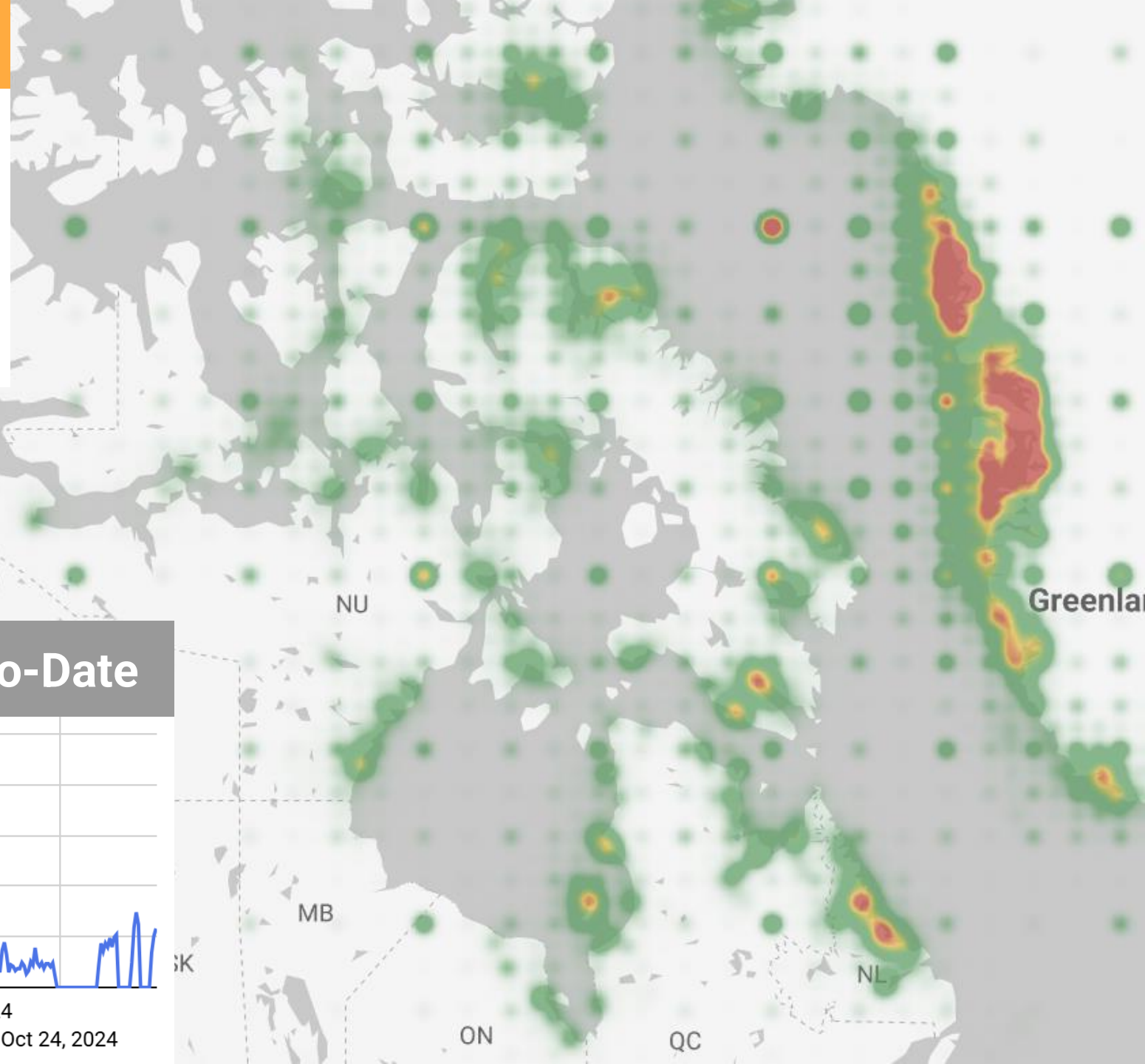
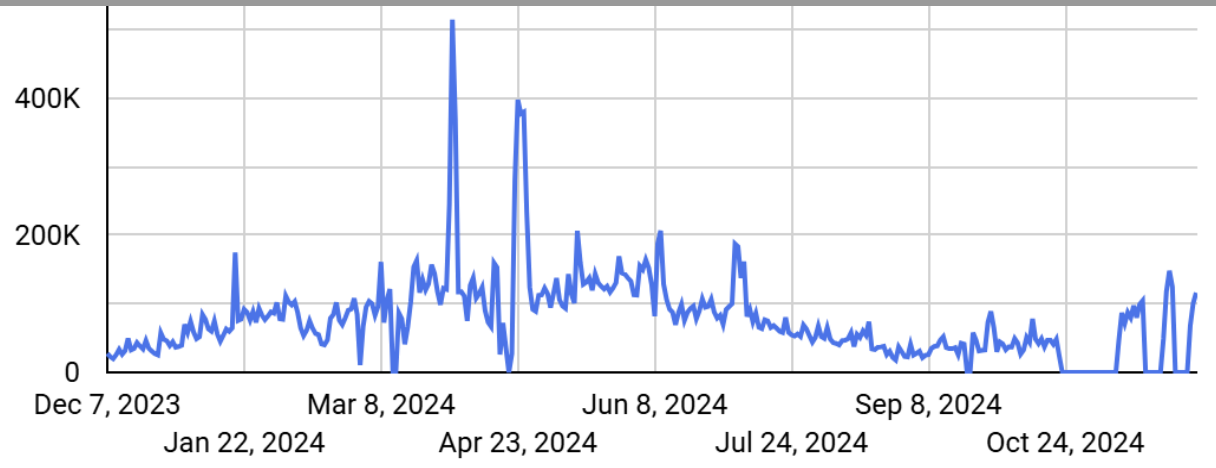


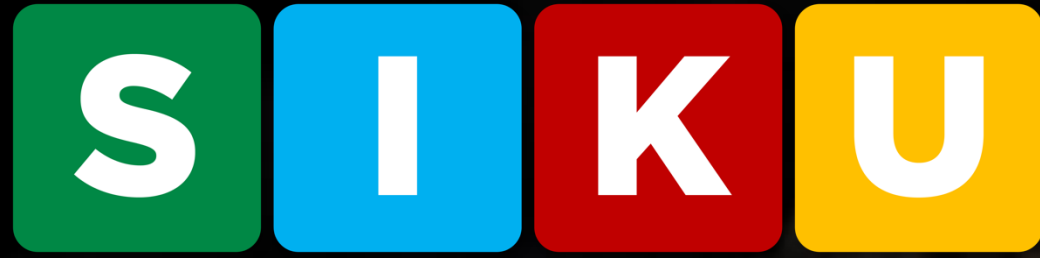


Satellite Imagery Tile Requests

1.	Sentinel 2	14,207,622
2.	Radar	10,161,826
3.	Landsat 8/9	1,357,169
4.	Ice Map	1,285,185
5.	MODIS	667,318
6.	Sentinel 3	337,690

28,016,810 Requests - Last Year to-Date

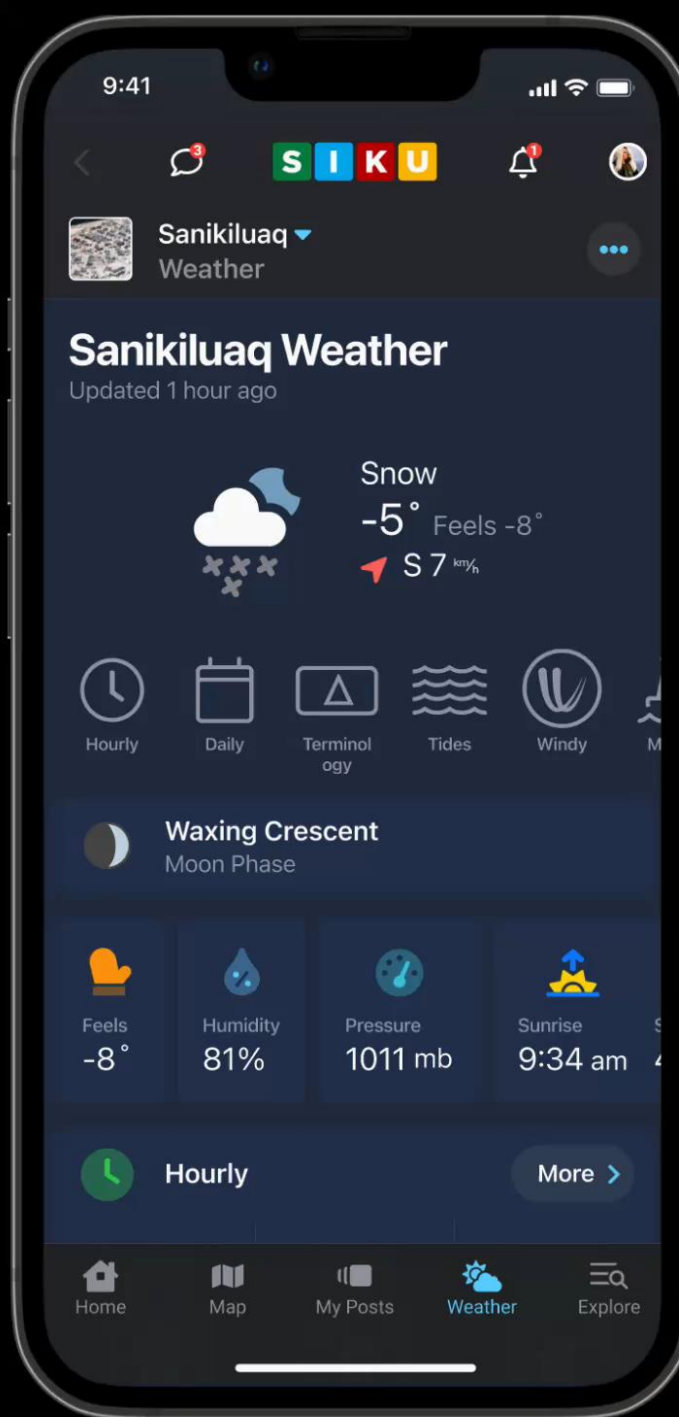




SILA for SIKU



Weather Services



9:41



Sanikiluaq
Weather



Sanikiluaq Weather

Updated 1 hour ago



Snow

-5° Feels -8°

S 7 km/h



Hourly



Daily



Terminology



Tides



Windy



Waxing Crescent

Moon Phase



Feels

-8°



Humidity

81%



Pressure

1011 mb



Sunrise

9:34 am



Hourly

More >



Home



Map



My Posts



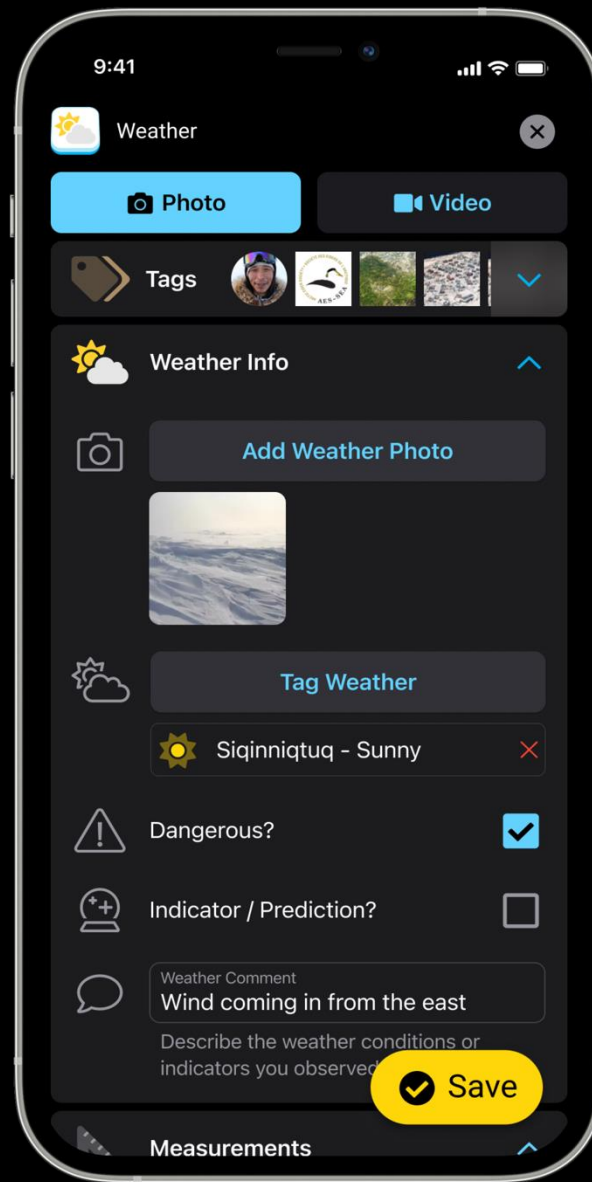
Weather



Explore



Weather Posts and Profiles





Weather Features In-Progress



Weather Stations

Postville Weather Station

12:41 PM

☞ SW 25-35 ^{km/h} -25°



Weather Station Name

12:41 PM

☞ SW 25 ^{km/h} -25°



Tides

Tukarak Island

2.2 m

⬆️ Rising

10:06 am

🌊 High



Sanikiluaq

1.8 m

⬆️ Rising

10:06 am

🌊 High



Flaherty Island

3.4 m

⬆️ Rising

10:06 am

🌊 High



Innetalling Island

2.9 m

⬆️ Rising

10:06 am

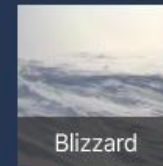
🌊 High



Indigenous Terminology

Weather Profiles

More >



Blizzard

Clear
Weather/Sky

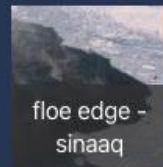


Flat Light

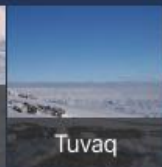
Fog

Ice & Snow Profiles

More >



floe edge -
sinaaq



Tuvaq



Akkirataviniq

Saqv



SmartICE



SmartQAMUTIK

Apr. 4, 2018



Pangnirtung SB1

6 hours ago

🌊 60 cm

❄️ 22 cm



Pangnirtung SB2

6 hours ago

🌊 60 cm

❄️ 22 cm



Historical

Yesterday
Sep. 4, 2024

-25°



SW

10-15 ^{km/h}

1 Year Ago
Aug. 5, 2023

-23°



SW

25-35 ^{km/h}

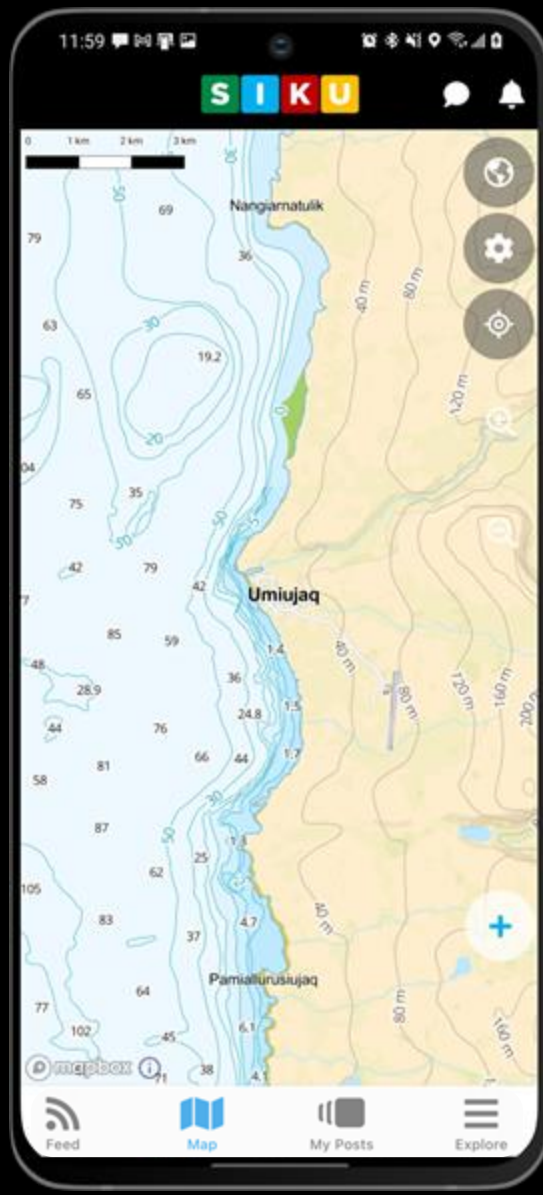
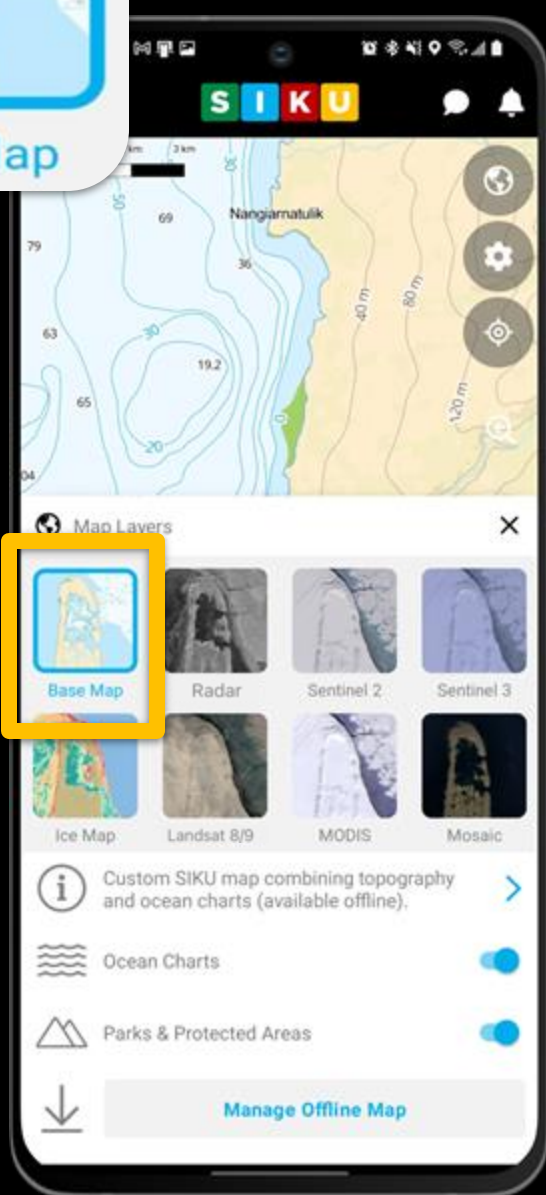
Normal
Aug. 5

-27°



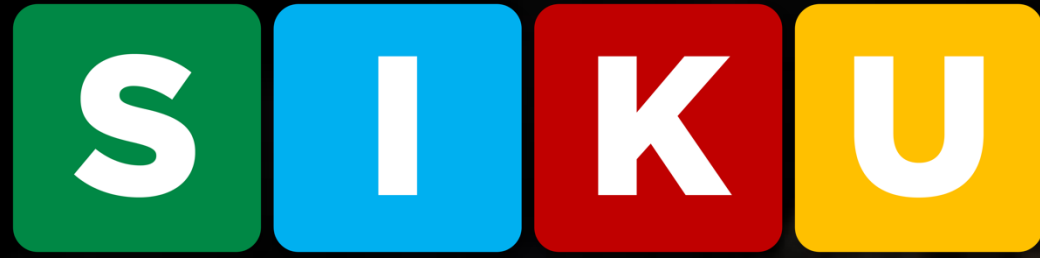
SW

22 ^{km/h}



Free Hydrographic Charts
+
Satellite Derived Bathymetry
Community Boat Chart-Loggers
Multi-Beam Imagery
Hydroblocks





SIKU for Community-Led Projects



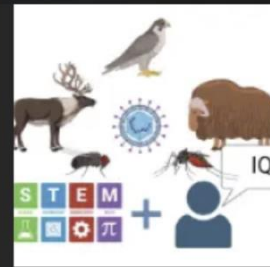
EEOU MARINE REGION WILDLIFE BOARD
CONSEIL DE GESTION DES RESSOURCES
FAUNIQUES DE LA REGION MARINE D'EEYOU
ᐃᓄᓕᓄᓄ ᐋᓐ ᐱᓐᓐᓐᓐᓐᓐ ᓄᓐᓐᓐᓐᓐᓐ



ᐃᓐᓐ ᓐᓐᓐᓐᓐᓐᓐᓐ ᓐᓐᓐᓐᓐᓐ
ISSATIK HUNTERS AND TRAPPERS ORGANIZATION



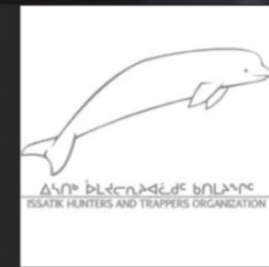
Kivalliq Community Bedrock Mapping Project



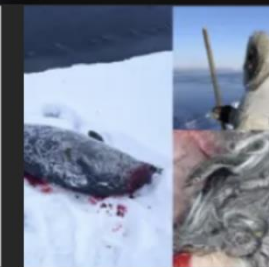
Kitikmeot Biting Insect Monitoring Program



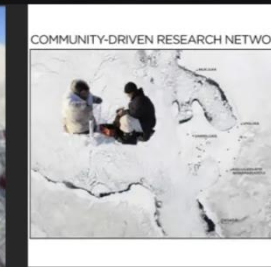
Sanikiluaq Fisheries



Issatik Guardians



Inuit Knowledge and Contaminants



East Hudson Bay/James Bay Community-Driven Research Network



Sapuyiit Guardians Project



Environmental Technology Program



Fresh Eyes on Ice



CROW



Arviat Aqqiumavvik Goose Project



Arctic BIOSCAN



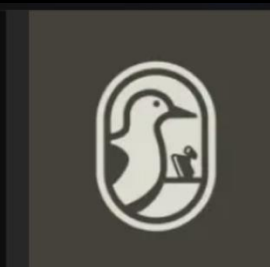
Arctic Beaver Project



Guardians of Akuliaqattaq



Mushkegowuk Knowledge Keepers



Aqviqtuuq Bird Watch



Imalirijit Project



Anguvigaq (RNUK/LNUK) Monitoring Project



FISHES



Qikiqtait



SmartICE - Sikumik Qaujijajuti Team



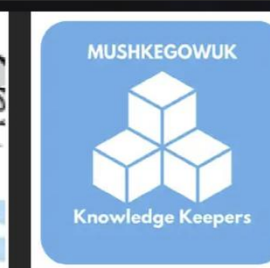
SmartICE Arviat



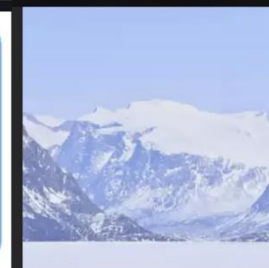
BenthArctic



Community Hydrography - Inukjuak Marine Region (IMR)



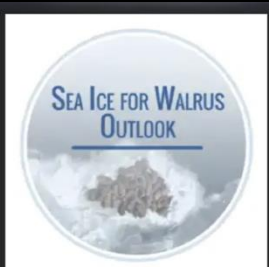
Mushkegowuk Knowledge Keepers



Guardians of Kangiqtaaluk



Nunatsiavut Imappivut Marine Plan



Sea Ice for Walrus Outlook



The Arctic Bears Project



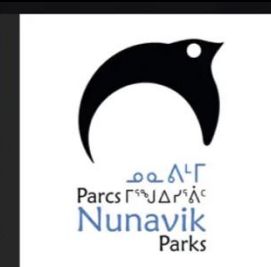
TTN Harvest



Uramba Bahia Malaga Locals Traditional Knowledge



Projet Caribou / Caribou project



Nunavik Parks Wildlife Monitoring



Northern Biodiversity



Kitaskiinan Kawekanawaynichikatek

Qikiqtait



Filter Map Message Share Report

Feed About

Description & Details

Creating a protected area for the Belcher Islands archipelago. A project by the Arctic Eider Society, Hamlet of Sanikiluaq and Sanikiluaq HTA with Qikiqtani Inuit Association

Community Reach Sanikiluaq

Member Users



Sidebar Filter Last 6 Months Topo Map



10:45 TestFlight

SIKU

Research Posts

All Time

SUMMARY (All Time)

Research Posts 22 km 103

TYPE (All Time)


- Time-lapse 14
- CT 9
- CTD Castaway 7
- Water Sample 7
- CTD+ 4
- SmartBUOY 4
- Ice Core Sample 3
- Survey 22 km

Post


Feed Map My Posts Weather Explore

SIKU

CTD Castaway Dec 5th, 2023



Habitat & Surroundings Photo



Post

Home Map My Posts Weather Explore

Ringed Seal - Natsiq

Individual Harvest

Photo Video

Tags

Animal Harvest Info Recommended

Measurements

Total Length cm

Total Weight g

Show More

Sampling

- Liver
- Blubber
- Muscle/Meat
- Fur

Sample Number

Water Monitor

Add Water Monitor Photo

Photo of the water monitor

Depth Measured m

Water Temperature °C

Conductivity S/m

pH

Dissolved Oxygen ml/L

Secchi Disc Depth m

Turbidity FTU

Water Depth m

Current Speed m/s

Sample

Site Code Save



Survey Item Photo



DATE & TIME

5:39:25 PM, 2022-07-16



SPECIES

Common Eider - Mitiq



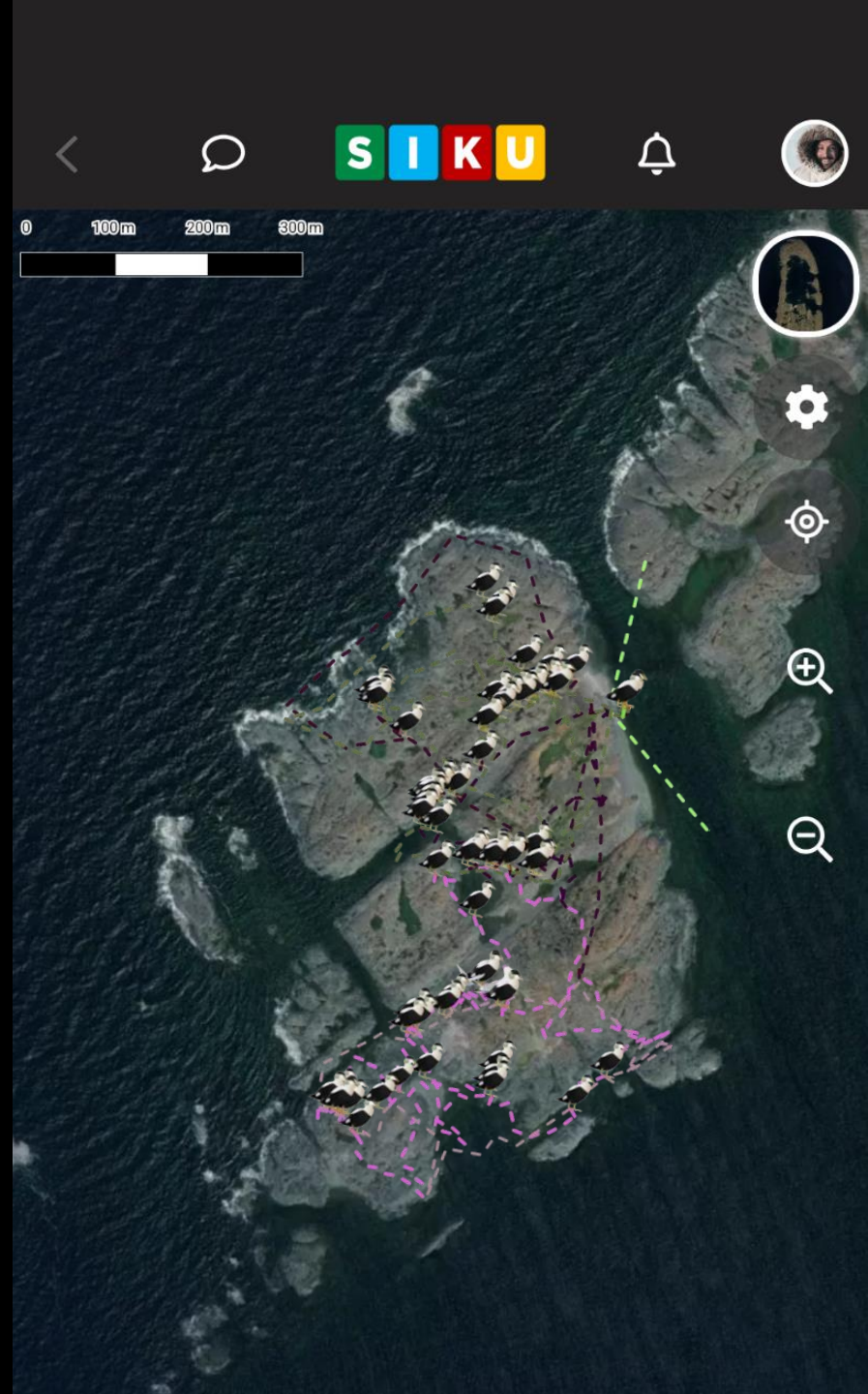
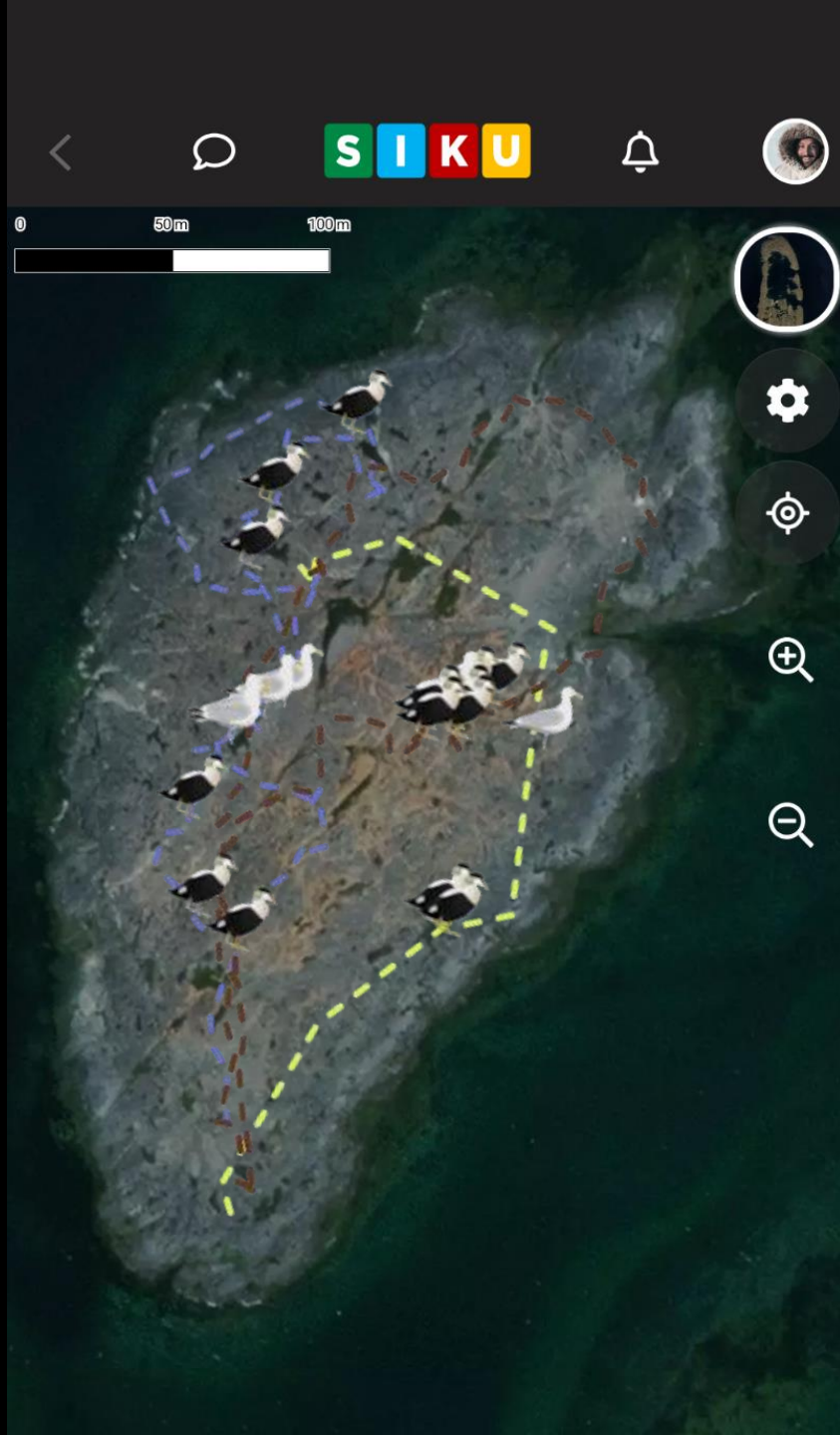
OF EGGS

5



COLLECTED DOWN?

Yes

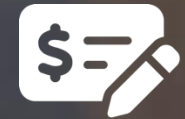




Engage & Manage Your Team



Track & share progress across your team through project feeds



Track incentives, honoraria, and payments



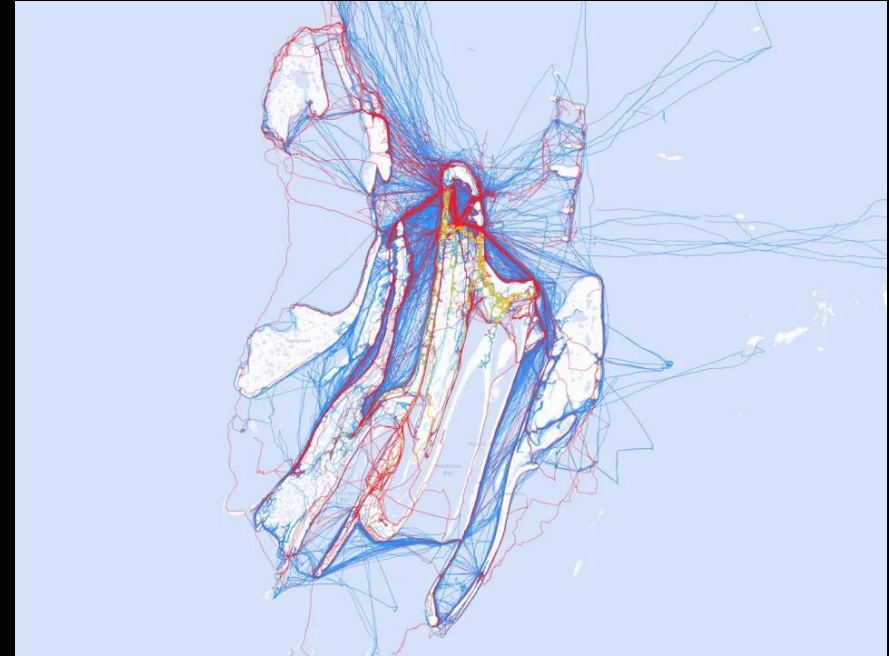
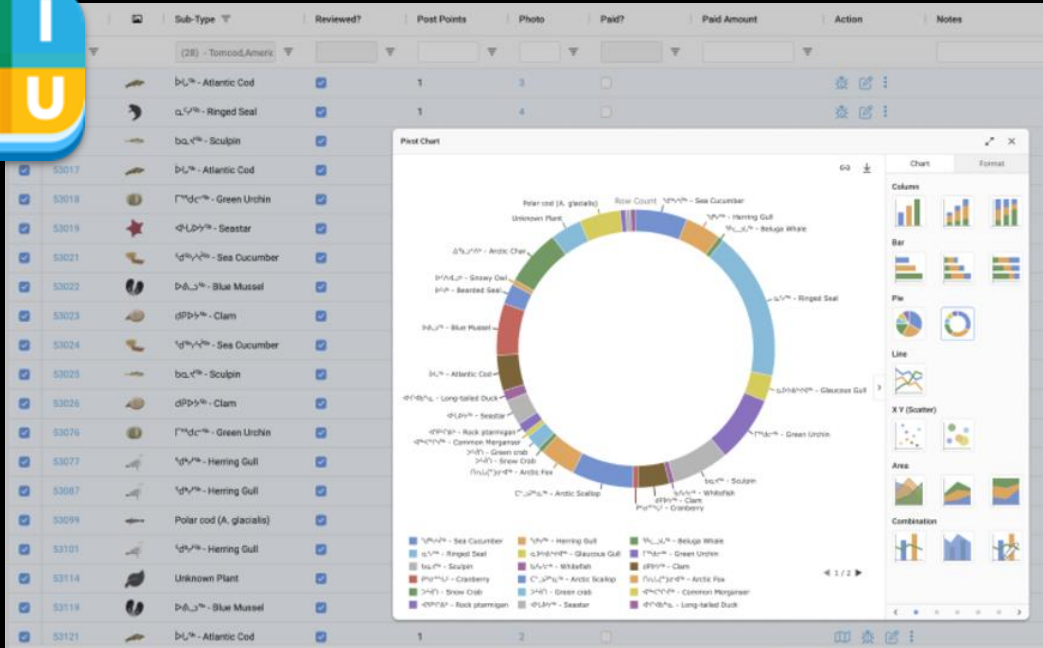
Manage your team, settings, and permissions



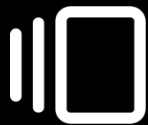
Direct messages members for support and engagement.

Coming Soon

Gain Insights & Visualize Data



Map Filtering
Generate real-time maps of project activities or outcomes



Post Manager
Dynamic dashboards, queries, and filtering



Analysis & Reporting
Real-time graphs and time series to support reporting and decision making



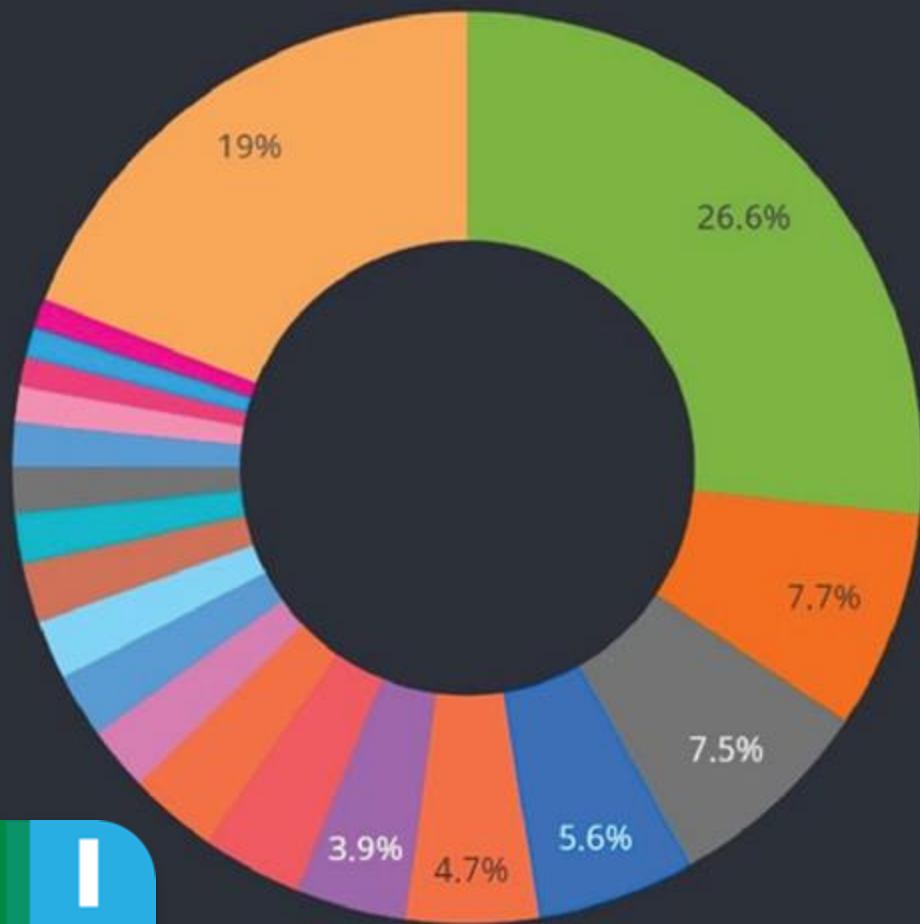
QA & QC
Tools to support quality assurance/control



QIKIQTAIT

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Sanikiluaq 2020 - 2024



- Iqaluppik • Arctic Char
- Nattiq • Ringed Seal
- Mitiq • Common Eider
- Nirlik • Canada goose (Short Neck)
- Tiriganiarjuk • Arctic Fox
- Kigutangirnaq • Blueberry
- Uluagullik • Canada Goose (Long-Neck)
- Kapisilik • Whitefish
- Aqpik • Cloudberry
- Kanajuq • Sculpin
- Ammuumajuq • Clam
- Uviluq • Blue Mussel
- Paurngaq • Crowberry
- Polar Bear • Nanuq
- Nauja quksik • Herring Gull
- Qilalugaq • Beluga Whale
- Unknown Plant
- Itiq • Green Urchin
- Kangutva • Snow Goose
- others

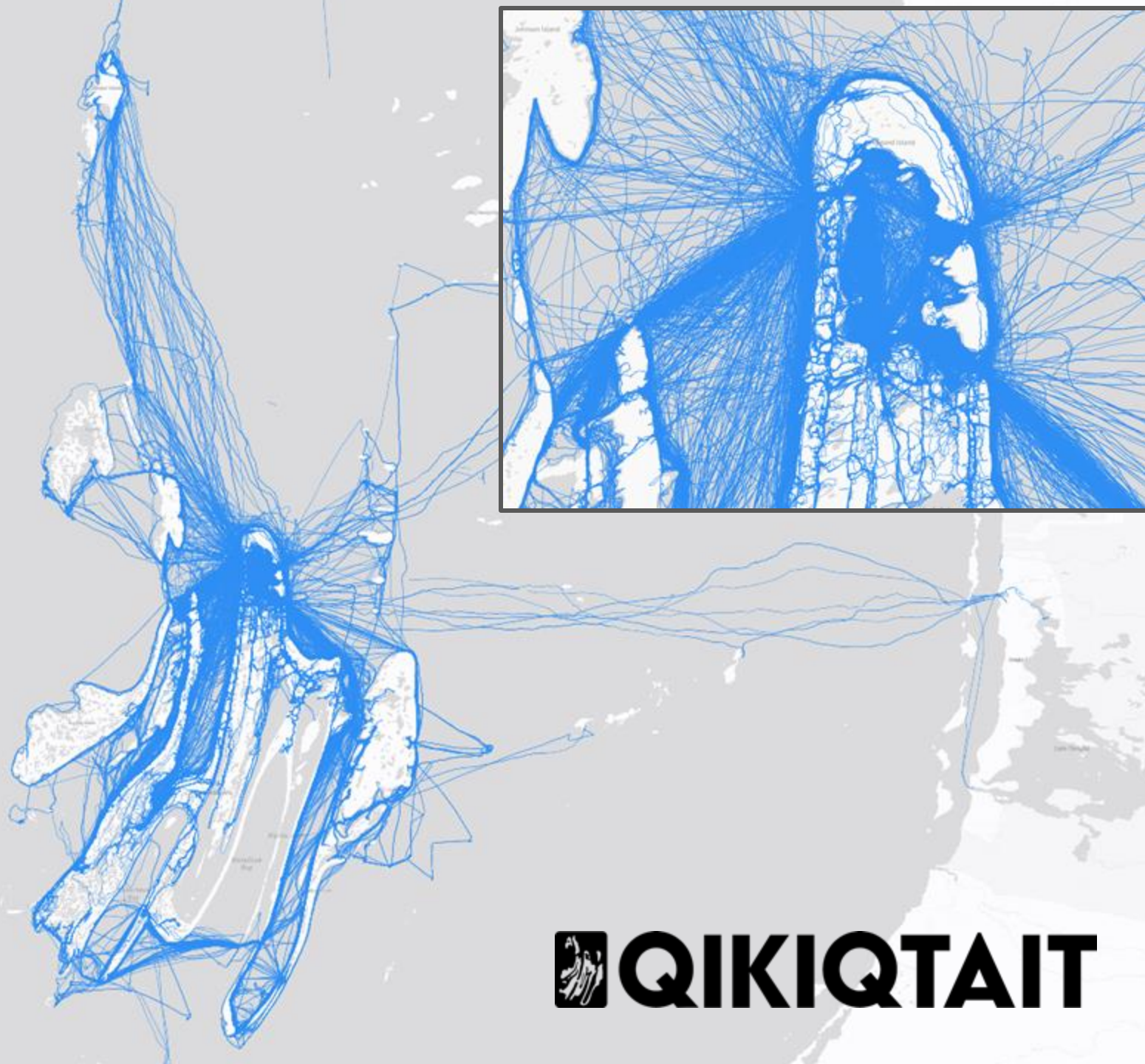
People Posting
398

Trips Documented
28,453

Posts Made
57,683

KM Tracked
2,104,582



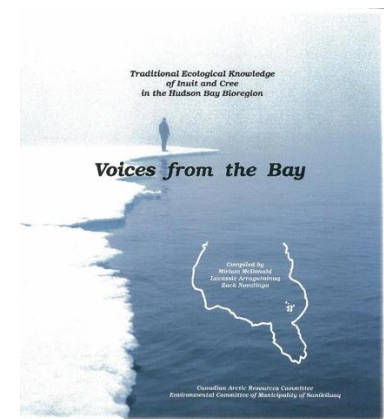
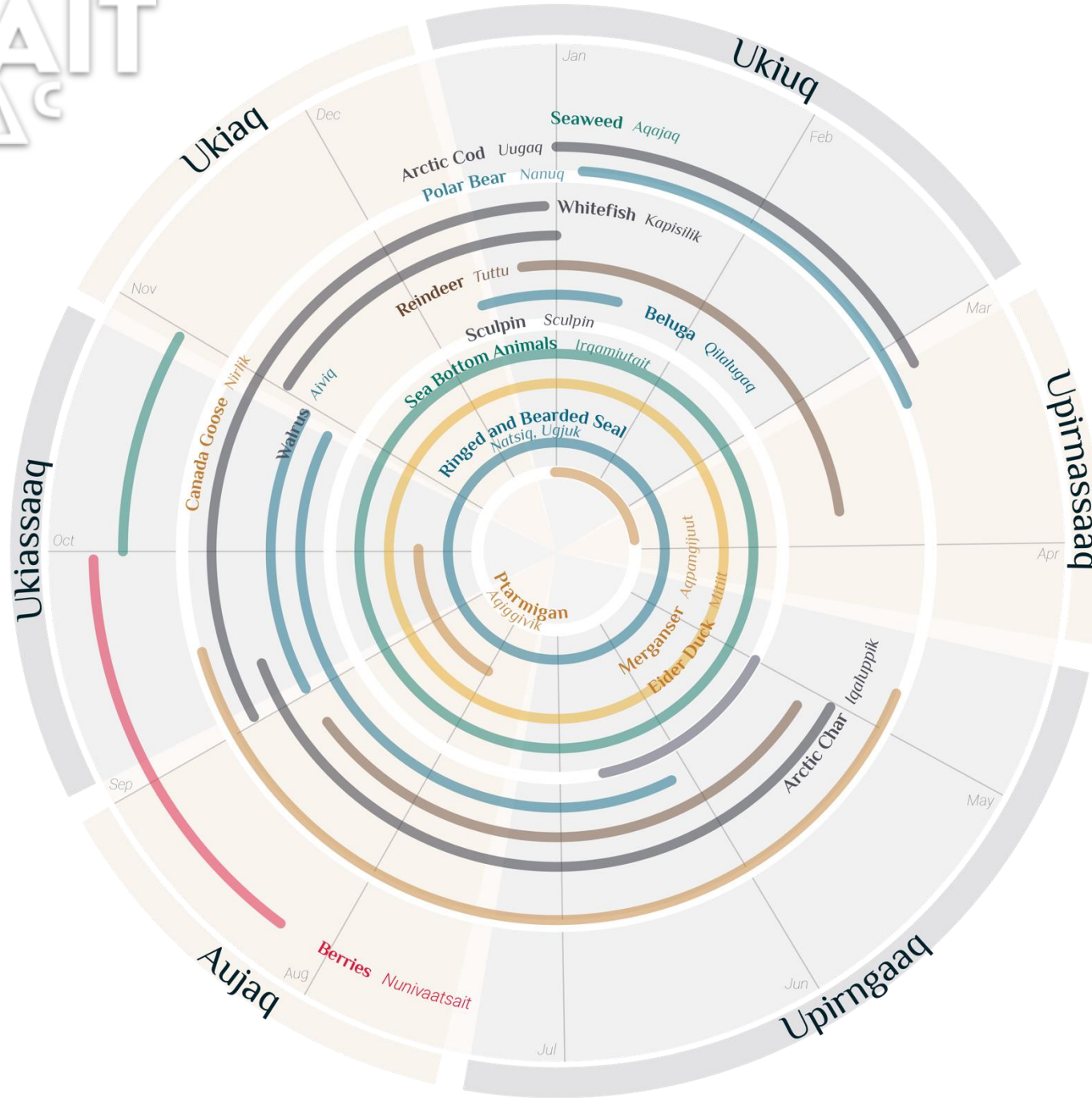


 **QIKIQTAIT**



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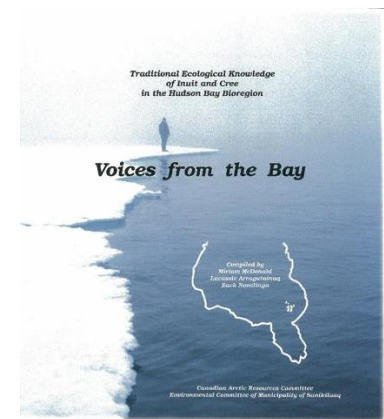
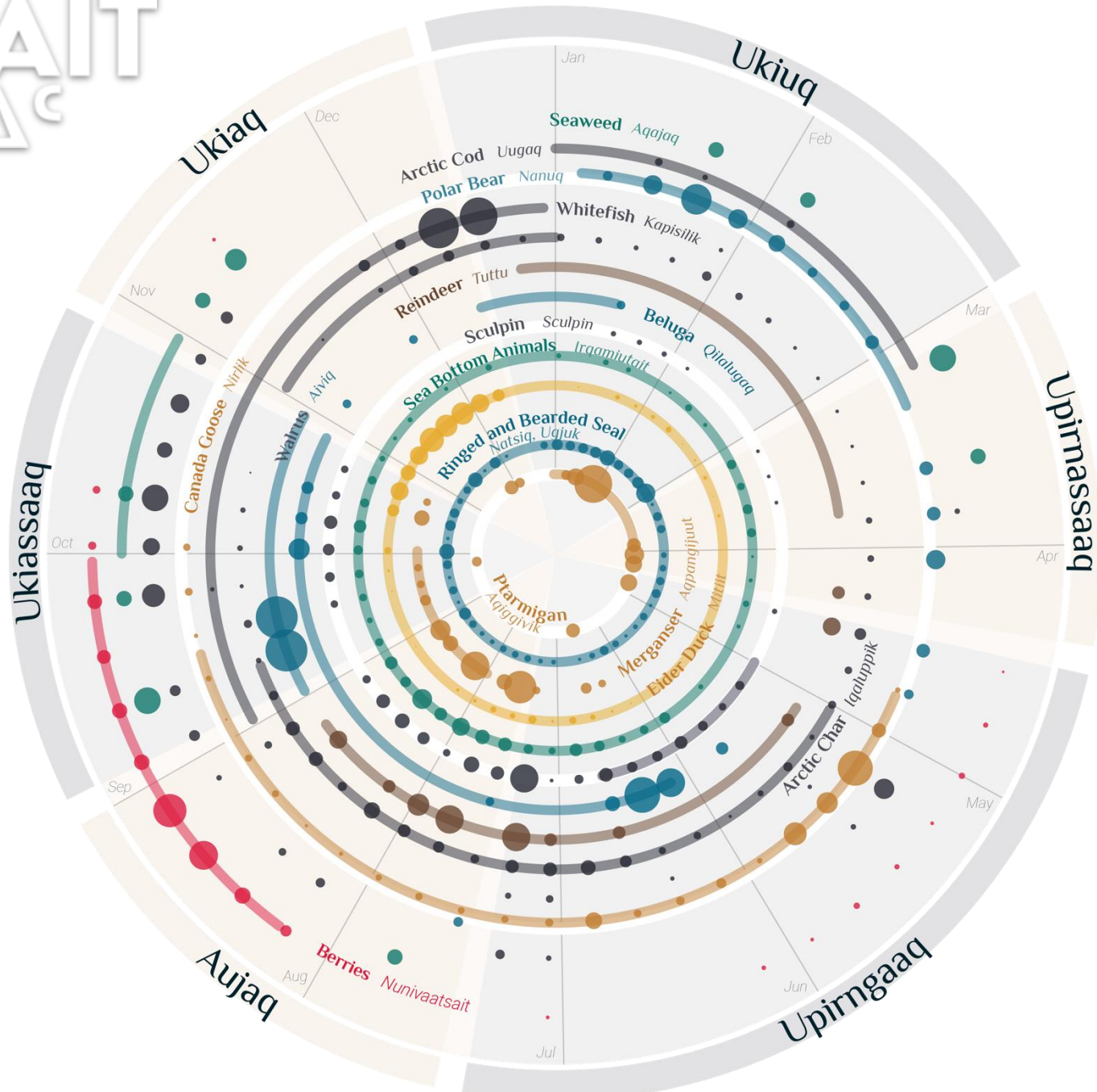
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Common Eider Duck		Mitiq
Canada Goose		Nirlik
Ptarmigan		Aqiggivik
Merganser		Aqpangijuut

Cloudberry		Arpik
Crowberry		Paunngaq
Blueberry		Tungujuq
Red Partridge Berry		Kimminaq

Reindeer		Tuttu
Polar Bear		Nanuq
Walrus		Aiviq
Ringed Seal		Natsiq
Beluga Whale		Qilalugaq

Arctic Char		Iqaluppik
Whitefish		Kapisilik
Arctic Cod		Uugaq
Sculpin		Kanajuq

Blue mussel		Uviluq
Clam		Kukiujaq
Scallop		Tallurunnaq
Sea Cucumber		Quksurjuk
Green Urchin		Mirquliq
Seaweed		Aqajaq



Reporting & Accountability



Assessment

Social return on investment, surveys, and evaluation



Communication

Engage community support outreach with blogs, press, and publications



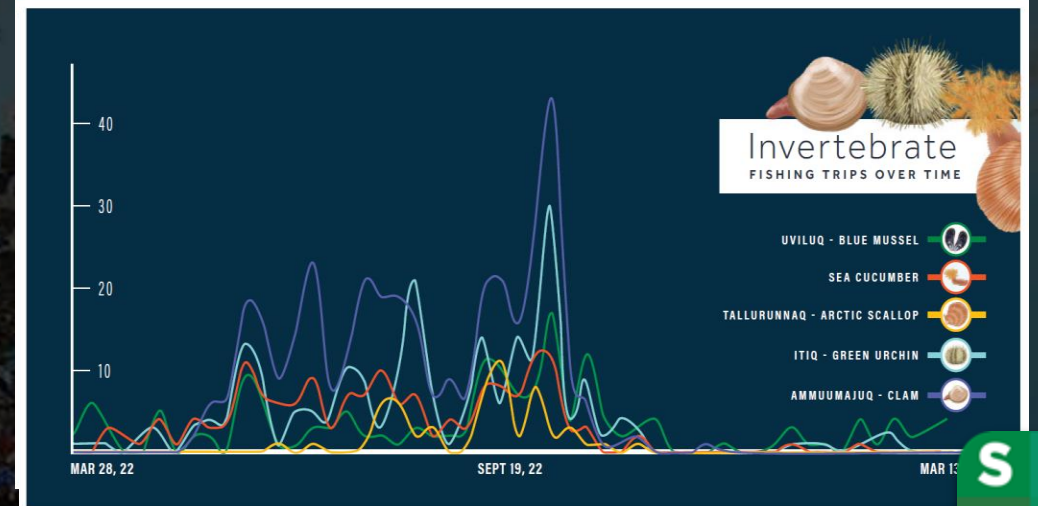
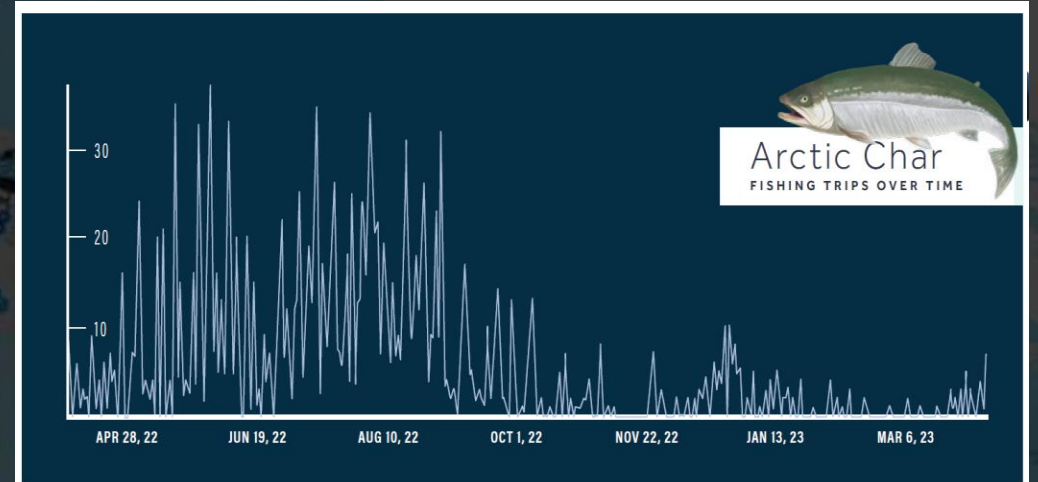
Impact Measurement

Generate key performance indicators (KPIs) to track progress



Visualization

Indigenous frameworks to share and assess outcomes





Outcomes to Empower Indigenous Equity in Decision-making and Policy



Policy

Indigenous Knowledge incorporated into policies



Equity

Empowerment across the table from Industry, Academia, and Governments



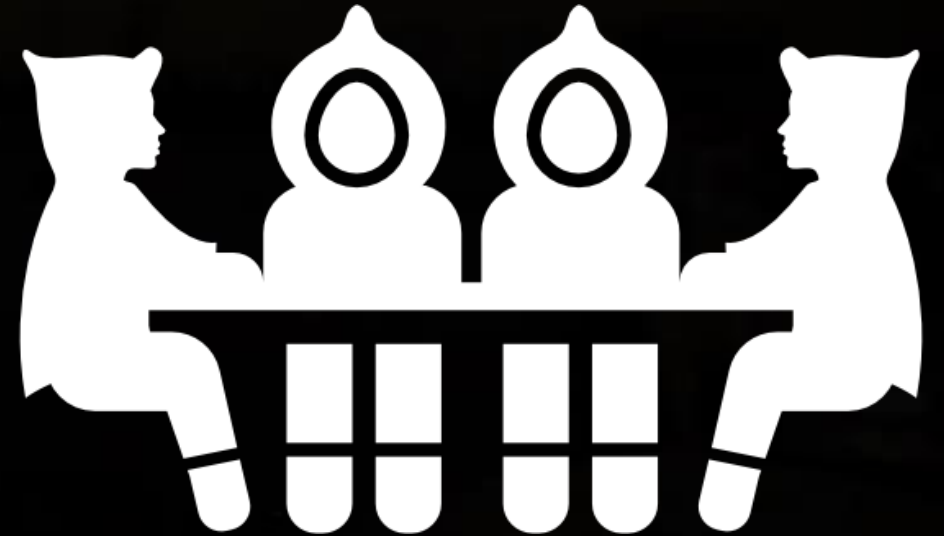
Decision Making

Decision making for sovereignty of Indigenous organizations



Funding/Economy

Demonstrate impact and accountability to increase Indigenous investments





What We Offer



Project Onboarding

Support for your team to get started moving from priorities to action!



Training & Outreach

Support for training your trainers and members on tools and features



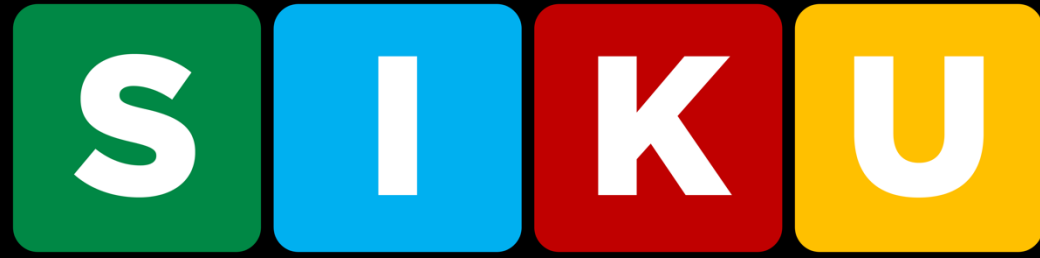
Ongoing Support

Funding & support to expand and keep your project running



Network

Join our network of Indigenous projects and users to exchange knowledge and ideas



Outreach, Training and Project Support



Lisi
Inuit Nunangat Manager



Candice
Training / Outreach Manager



Alec
Nunavik



Gillian
Nunatsiavut, Innu Nation



Briana
Mushkegowuk



Kelsey
Hudson + James Bay



Neomi
First Nations & Metis



Jordan
Researcher Engagement

Get in touch!



SIKU Support Button



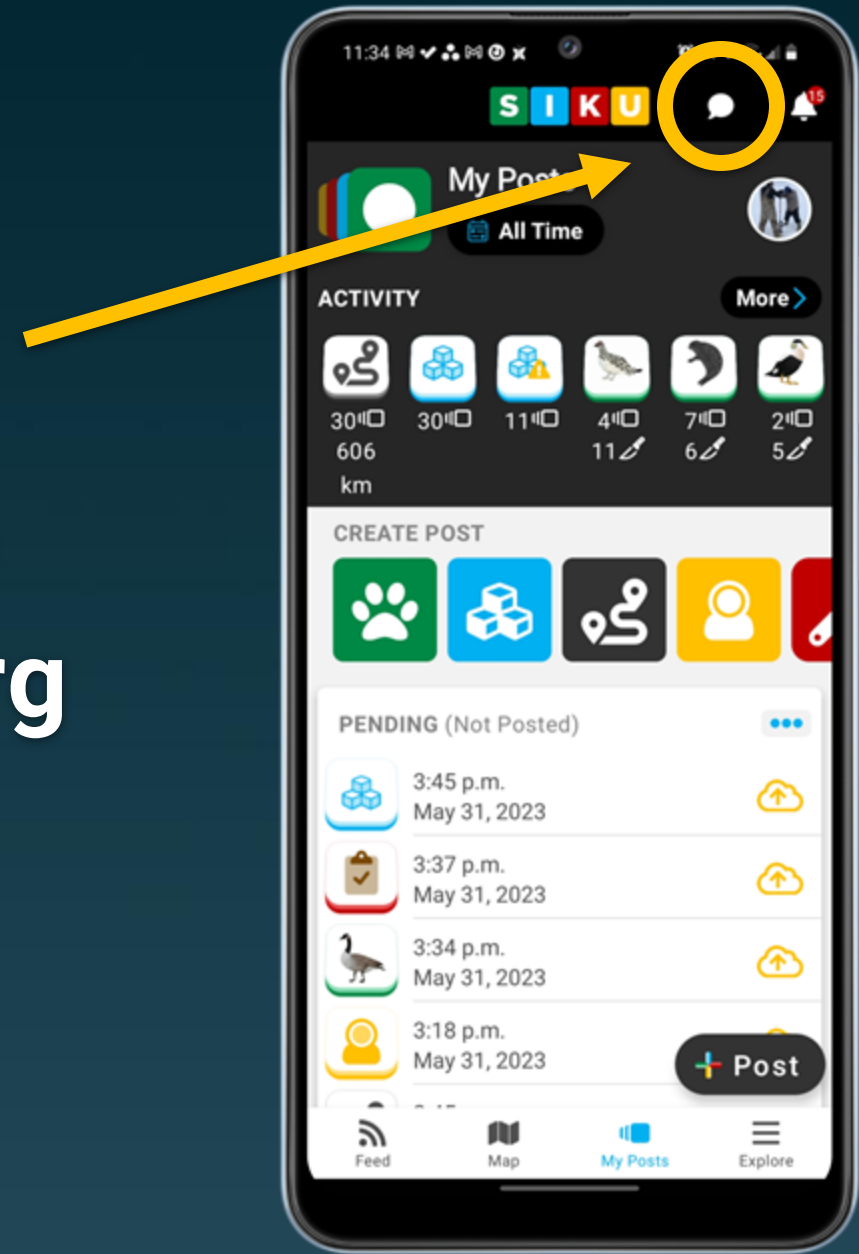
info@siku.org

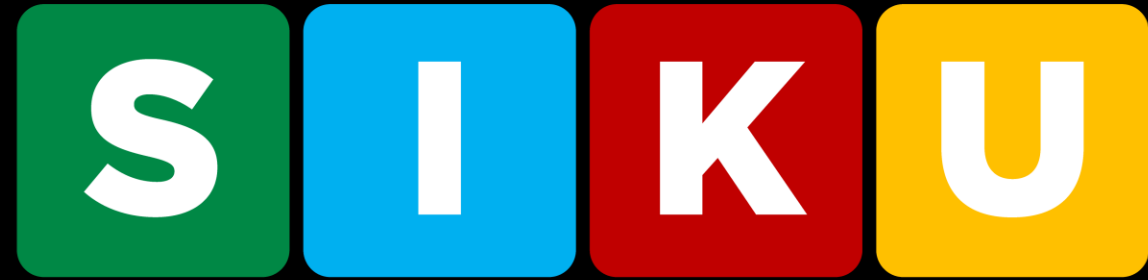


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The Indigenous Knowledge App



Funded by the
Government
of Canada

