Project Title:
Arctic Community Connectivity for Equity, Sustainability, and Service (ACCESS)

PI:

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Project Overview, Justification, and Background:
Northern communities receive inequitable services compared to the rest of Canada, particularly those related to communications and data sharing. Even newer satellite internet service remains unreliable in Canada’s Arctic, which limits critical communication amongst communities for environmental situational awareness and medical emergencies. The Arctic Community Connectivity for Equity, Sustainability, and Service (ACCESS) project will be a community-led endeavour that aims to understand the opportunities and challenges associated with high-bandwidth internet communications for northern communities and address them by developing a drone airship to act as a satellite communications hub for communities.

ᐱᓕᕆᐊᒃᓴᐅᑉ ᑕᐃᔭᐅᓂᖓ:

ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓖᑦ ᑲᓲᒪᓂᖏᑦ ᐊᔾᔨᒌᑎᑦᓯᓂᕐᒥᑦ, ᑲᔪᓰᓐᓇᕈᓐᓇᓂᕐᒥᑦ, ᐱᔨᑦᓯᕋᕐᓂᕐᒥᓪᓗ (ACCESS)

ᐃᓄᖕᒨᖓᔪᑦ ᑐᑭᓯᒋᐊᕈᑎᑦ:
ᕕᓕᑉ ᕘᒍᓴᓐ (ᒫᓂᑑᐸ ᓯᓚᑦᑐᖅᓴᕐᕕᒡᔪᐊᖅ)

ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓖᑦ ᐊᔾᔨᒌᓂᒃ ᐱᔨᑦᑎᕋᖅᑕᐅᖃᑦᑕᖅᐳᑦ ᑲᓇᑕᒥᐅᓕᒫᑦ ᑕᐅᑐᒃᖢᒋᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᑕᐃᒃᑯᐊ ᐊᒃᑐᐊᓂᓖᑦ ᑐᓴᐅᒪᔪᓕᕆᔾᔪᑎᓄᑦ ᐊᒻᒪ ᖃᕋᓴᐅᔭᒃᑯᑦ ᑎᑎᕋᖅᓯᒪᔪᓂᒃ. ᐊᓪᓛᑦ ᓄᑖᖑᓂᖅᓴᑦ ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᐃᑭᐊᖅᑭᕕᒃᑰᕈᓐᓇᐅᑎᑦ ᓱᓕ ᑐᓐᖓᓇᖏᑦᑐᑦ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖓᓂ, ᑐᓴᐅᒪᖃᑦᑕᐅᑎᔪᓐᓇᐃᓕᑎᑦᑎᒍᑕᐅᖃᑦᑕᖅᑐᖅ ᓄᓇᓕᓐᓂᑦ ᐊᕙᑎᓕᕆᓂᕐᒥᑦ ᖃᐅᔨᒪᓂᕐᒥᑦ ᐊᒻᒪ ᐋᓐᓂᐊᓂᕐᒧᑦ ᑐᐊᕕᕐᓇᖅᑐᓂᑦ. ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓕᖕᓂ ᐊᑦᑕᑕᕐᕕᐅᔪᓐᓇᖅᑐᖅ ᐊᔾᔨᒌᒃᑎᑦᑎᓂᕐᒧᑦ, ᐃᖏᕐᕋᐃᓐᓇᕈᑎᓄᑦ, ᐊᒻᒪ ᐱᔨᑦᑎᕋᐅᑎᓄᑦ (ACCESS) ᐱᓕᕆᐊᖅ ᓄᓇᓕᖕᓂ ᐊᐅᓚᑕᐅᓗᓂ ᐱᓕᕆᐊᖑᓂᐊᖅᐳᖅ ᑐᕌᒐᖃᕐᓗᑎᒃ ᑐᑭᓯᓇᓱᒡᓗᑎᒃ ᐱᓕᕆᐊᖑᖔᕈᓐᓇᖅᑐᓂᒃ ᐊᒻᒪ ᐊᒃᓱᕈᕐᓇᖅᑐᓂᒃ ᐊᒃᑐᐊᓂᓕᖕᓂᒃ ᖃᕆᑕᐅᔭᓕᕆᔾᔪᑎᓂᒃ ᑐᓴᐅᒪᔪᓕᕆᔾᔪᑎᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓕᖕᓄᑦ ᓴᖅᑭᓪᓗᒋᓪᓗ ᐱᕙᓪᓕᐊᑎᑦᑎᓂᒃᑯᑦ ᖃᖓᑕᔪᓐᓇᖅᑐᓂᒃ ᖃᖓᑕᔪᓐᓇᖅᑐᓂᒃ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᑐᓴᐅᒪᔪᓕᕆᔾᔪᑎᓄᑦ ᓄᓇᓕᖕᓄᑦ.

Location:
Chesterfield Inlet, Nunavut

Duration:
3 years

Methods:
We plan to:
• Conduct social needs assessments with the community to understand how people are
communicating now, their challenges, and suggestions for how to improve communications, particularly surrounding hunters and trappers travelling beyond their communities
• Co-develop airship technologies that could provide improved communications networks
and situational awareness for people travelling between and beyond communities
• Demonstrate and evaluate the effectiveness of the new solutions within and outside the
community

Sharing Research Results:
We plan to share the results of the research directly with the communities through a series of town-hall style meetings, detailed technology transfer discussions, and postings on local news / information sharing platforms (such as the Chesterfield Inlet Facebook Group).

ᐃᓂᒋᓂᐊᖅᑕᖓ:

ᐃᒡᓗᓕᒑᕐᔪᒃ, ᓄᓇᕗᑦ

ᐊᑯᓂᐅᓂᖓ:

3 ᐊᕐᕌᒍᑦ

ᖃᐅᔨᓴᕈᓰᑦ:
ᐸᕐᓇᒃᓯᒪᔪᒍᑦ ᐃᒪᐃᓐᓂᐊᕐᓂᑦᑎᓐᓂᒃ:
1. ᑲᔪᓯᑎᑦᑎᔪᖃᕐᓗᓂ ᐃᓅᖃᑎᒌᒃᐸᖕᓂᕐᒧᑦ ᐱᔭᐅᔭᕆᐊᓕᖕᓂᒃ ᖃᐅᔨᓴᖅᓯᓂᕐᒥᒃ ᓄᓇᓕᖕᒥᐅᓄᑦ ᑐᑭᓯᐅᒪᔪᒪᓂᕐᒧᑦ
ᖃᓄᖅ ᐃᓄᐃᑦ ᑐᓴᐅᒪᑎᑦᑎᕙᖕᒪᖔᑕ ᒫᓐᓇ, ᐊᓂᒍᖅᑎᓐᓇᓱᒋᐊᖃᖅᐸᒃᑕᖏᓐᓂᒃ, ᖃᓄᐃᓕᐅᖁᔨᓇᔭᕐᓂᖏᓐᓂᒡᓗ ᖃᓄᖅ ᐱᐅᓯᒋᐊᖅᑎᑦᑎᔪᓐᓇᕐᒪᖔᑕ ᑐᓴᐅᒪᑎᑦᑎᓂᕐᒥᒃ, ᐱᓗᐊᙳᐊᖅᖢᓂ ᖃᓂᒋᔭᖏᓐᓃᑦᑐᓂᒃ ᐊᖑᓇᓱᒃᑎᓂᒃ ᒥᑭᒋᐊᕐᓂᐊᖅᑎᓂᒡᓗ ᓄᒃᑕᖅᐸᒃᑐᓂᒃ ᓄᓇᓕᖏᑕ ᐅᖓᑖᓄᑦ
2. ᐋᖅᑭᒃᓱᐃᖃᑎᒌᖕᓂᖅ ᐊᓂᖅᓵᖅᑐᒐᕐᒥ ᐱᓕᕆᔾᔪᑕᐅᕙᒃᑐᓂᒃ ᐱᑎᑦᑎᔪᓐᓇᖅᑐᓂᒃ ᐱᐅᓯᒋᐊᖅᓯᒪᔪᓂᒃ
ᑐᓴᐅᒪᑎᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᓂᒃ ᖃᓄᐃᓕᖓᓂᕆᔭᐅᔪᓄᓪᓗ ᐅᔾᔨᕆᔭᖃᕐᓂᕐᒥᒃ ᐃᓄᖕᓄᑦ ᓄᒃᑕᖅᐸᒃᑐᓄᑦ

ᐅᑯᖕᓄᙵ, ᐅᖓᑖᓄᑦ ᓄᓇᓖᑦ
3. ᑕᑯᒃᓴᐅᑎᓪᓗᒋᑦ ᖃᐅᔨᓴᕐᓗᒋᓪᓗ ᐊᑑᑎᖃᑦᑎᐊᕐᓂᖏᑦ ᓄᑖᑦ ᐋᖅᑭᒋᐊᕈᑎᒃᓴᑦ ᓄᓇᓕᖕᓂ ᓯᓚᑖᓂᓗ

ᐊᒥᖅᑳᖃᑎᖃᕐᓂᖅ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᖃᐅᔨᒪᔭᐅᓕᖅᑐᓂᒃ:
ᐸᕐᓇᒃᓯᒪᕗᒍᑦ ᑐᓴᖅᑎᑦᑎᓛᕈᒪᓪᓗᑕ ᖃᓄᐃᓕᖓᓕᕐᓂᕆᔭᐅᔪᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᔪᓂᒃ ᓄᓇᓕᖕᓂ ᑲᑎᒪᑎᑦᑎᑲᑕᒡᓗᑕ

ᓄᓇᓕᖕᓂ ᑲᑎᒪᑎᑦᑎᑲᑕᒡᓗᑕ, ᑐᑭᓯᓇᖅᑐᓂᒃ ᐱᓕᕆᔾᔪᑎᓂᒃ ᓅᑎᑦᑎᓂᕐᒧᑦ ᐅᖃᖃᑎᒌᒃᑐᓂᒃ, ᐊᒻᒪ ᓴᖅᑭᓪᓗᒋᑦ ᓄᓇᓕᖕᓂ ᐱᕙᓪᓕᐊᔪᑦ / ᑐᑭᓯᒋᐊᒐᒃᓴᑦ ᑐᙵᕕᖏᑦ (ᓲᕐᓗ ᐃᒡᓗᓕᒑᕐᔪᖕᒥ Facebook-ᑯᑦ).