

canarie



LOOKING

**BACK
TO
THE FUTURE**

Jim Ghadbane | President and CEO

April 25, 2023

BCNET Connect

CANARIE
celebrated
its 30th
birthday last
month



To understand
where we're
going...



...we need to
understand where
we came from



So let's set our time circuits back 30 years

MONTH DAY YEAR PM HOUR MN
APR 25 1993 : 01 : 50
DESTINATION TIME

MONTH DAY YEAR PM HOUR MN
APR 25 2023 : 01 : 50
PRESENT TIME

MONTH DAY YEAR AM HOUR MN
NOV 05 1995 : 06 : 36
LAST TIME DEPARTED

It all started in the community...



CA*net

Canada's Research Network

1990-1997



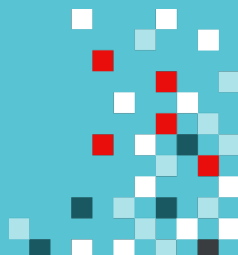
 **CANARIE** INC. created 1993



Visionaries!



The team that incorporated CA*net in 1990. Victoria, BC.
From left to right: Roger Taylor, Peter Jones, Dave MacNeil, Mike Martineau, Warren Jackson, Jack Leigh, Dean Jones, Alan Greenberg, Andy Bjerring, Walt Neilson, Will Bussey, Jim Hancock, Gerry Miller, Bernie Turcotte

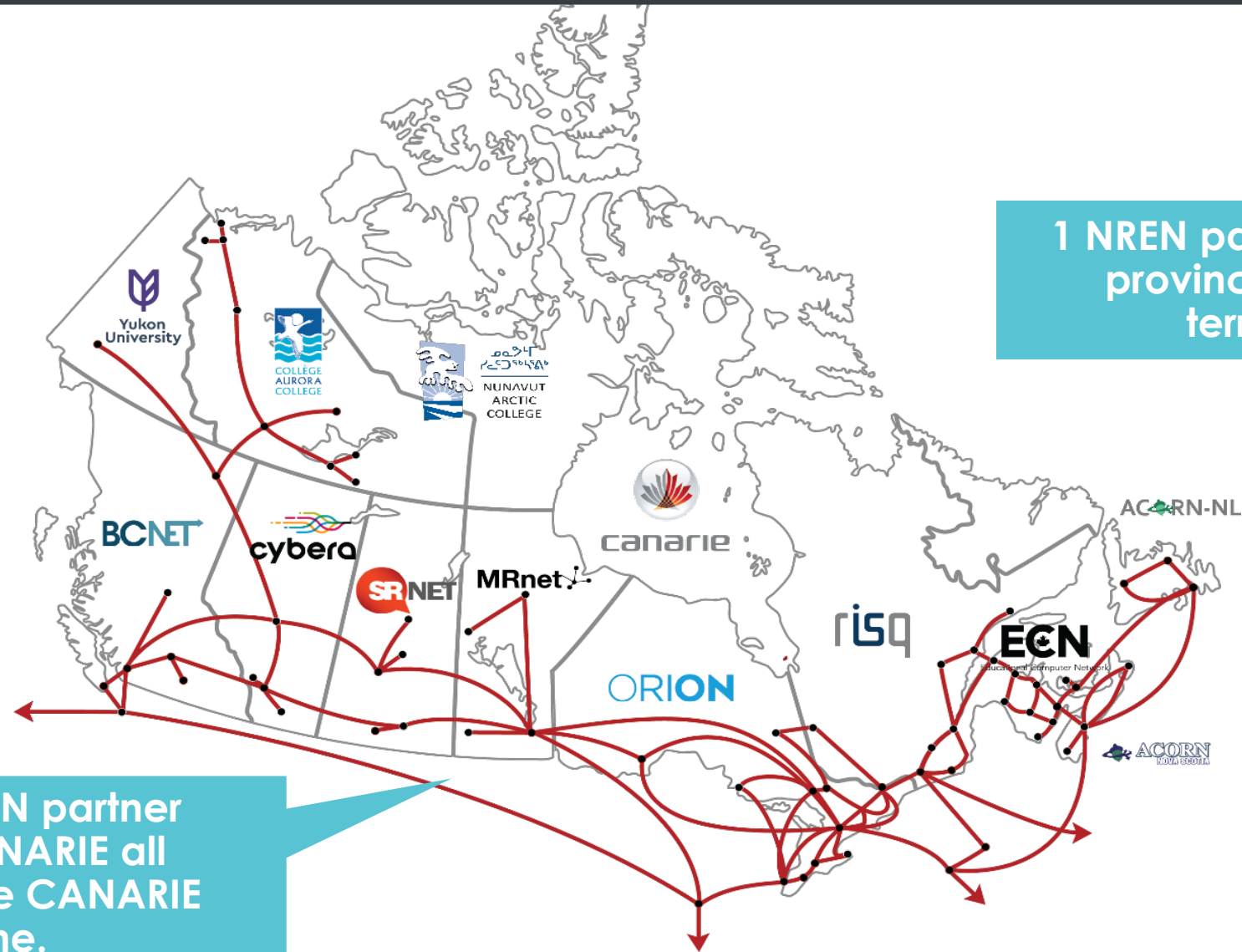


So, what if we go Back to the Future (*aka today*)?



National Research and Education Network (NREN)

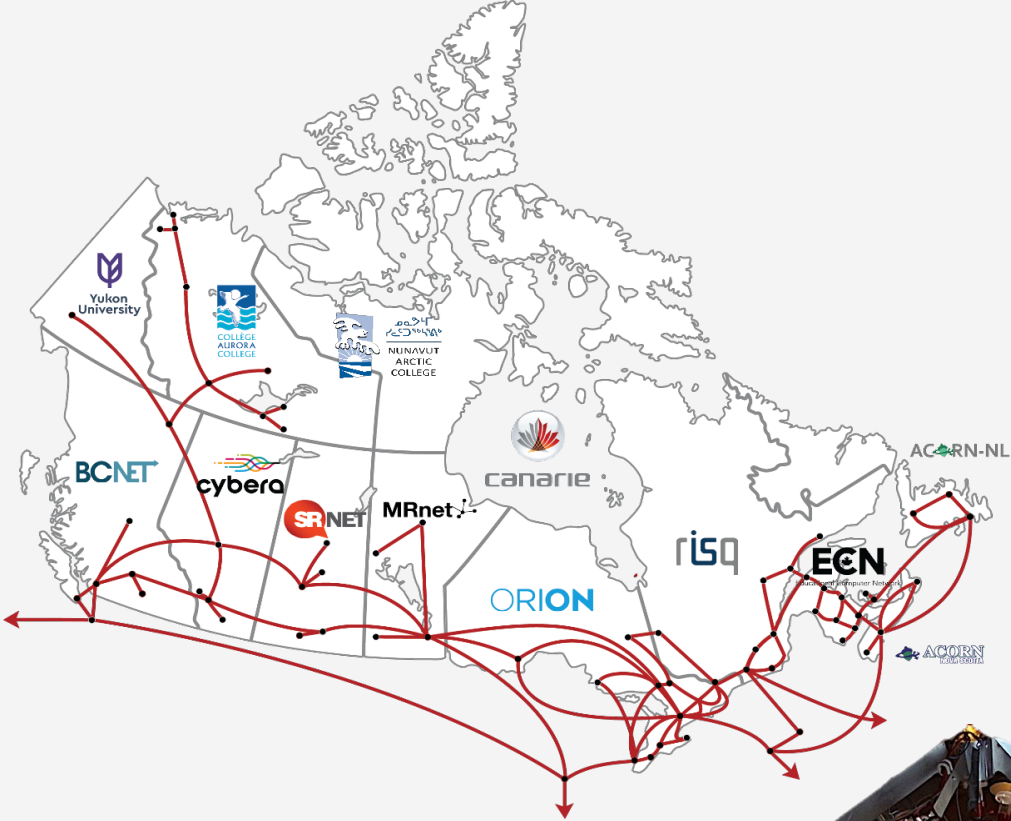
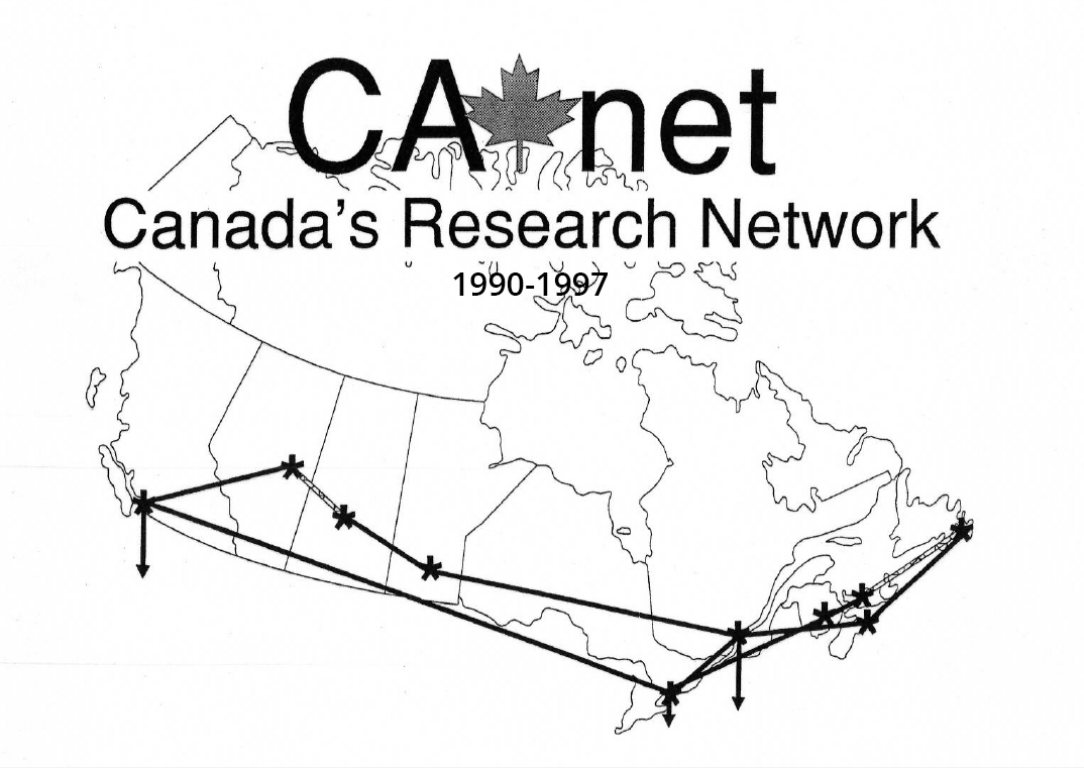
Connects Canada's R&E and innovation communities via ultra high-speed (up to 100G) networks.



1 NREN partner in each province and in 3 territories

13 regional NREN partner networks + CANARIE all connected to the CANARIE backbone.

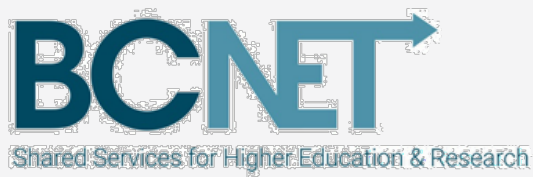
You can start to see parallels...



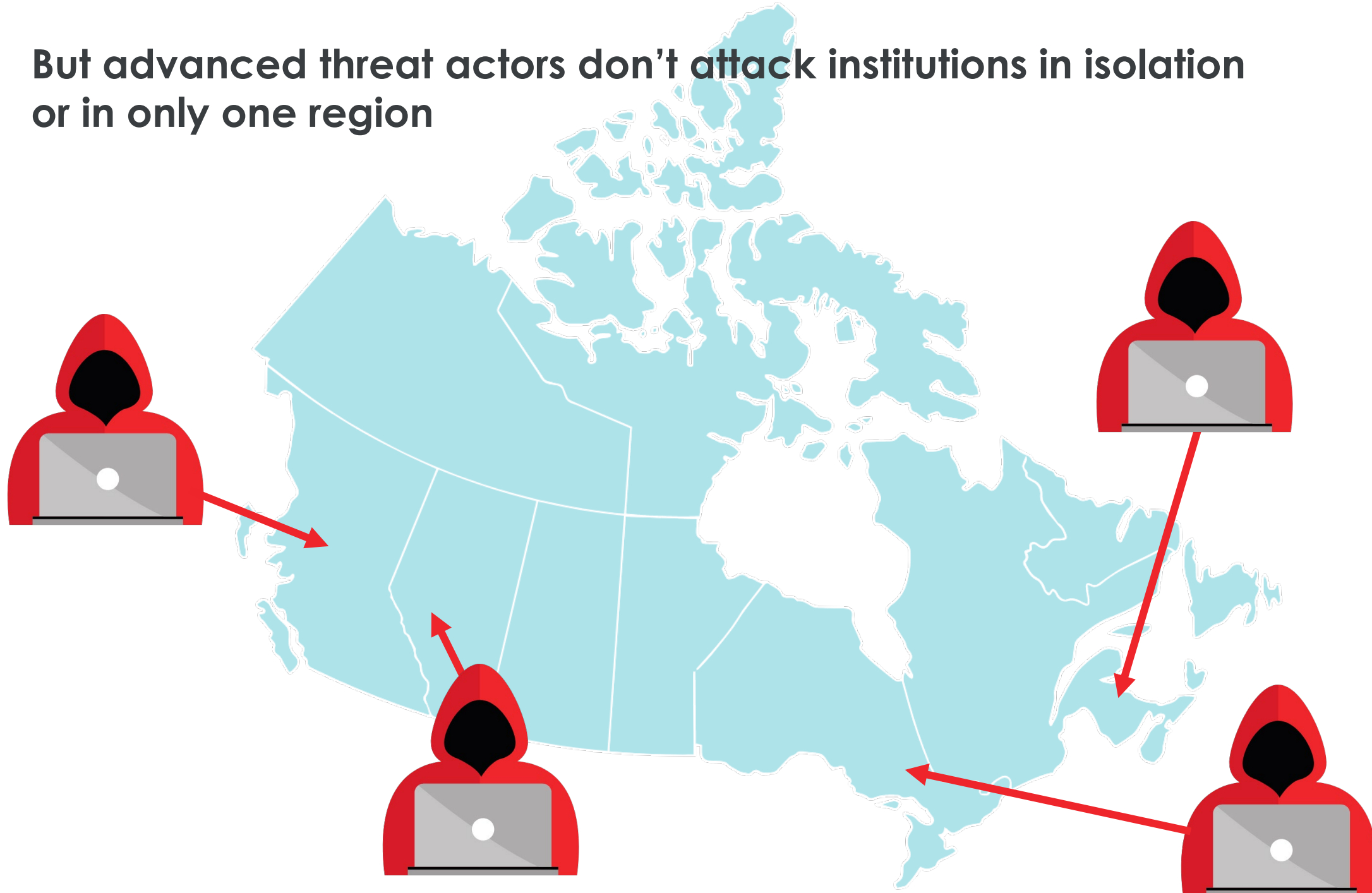


It is starting in the community

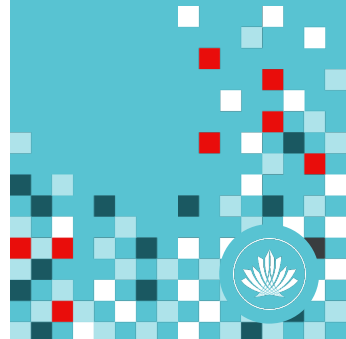
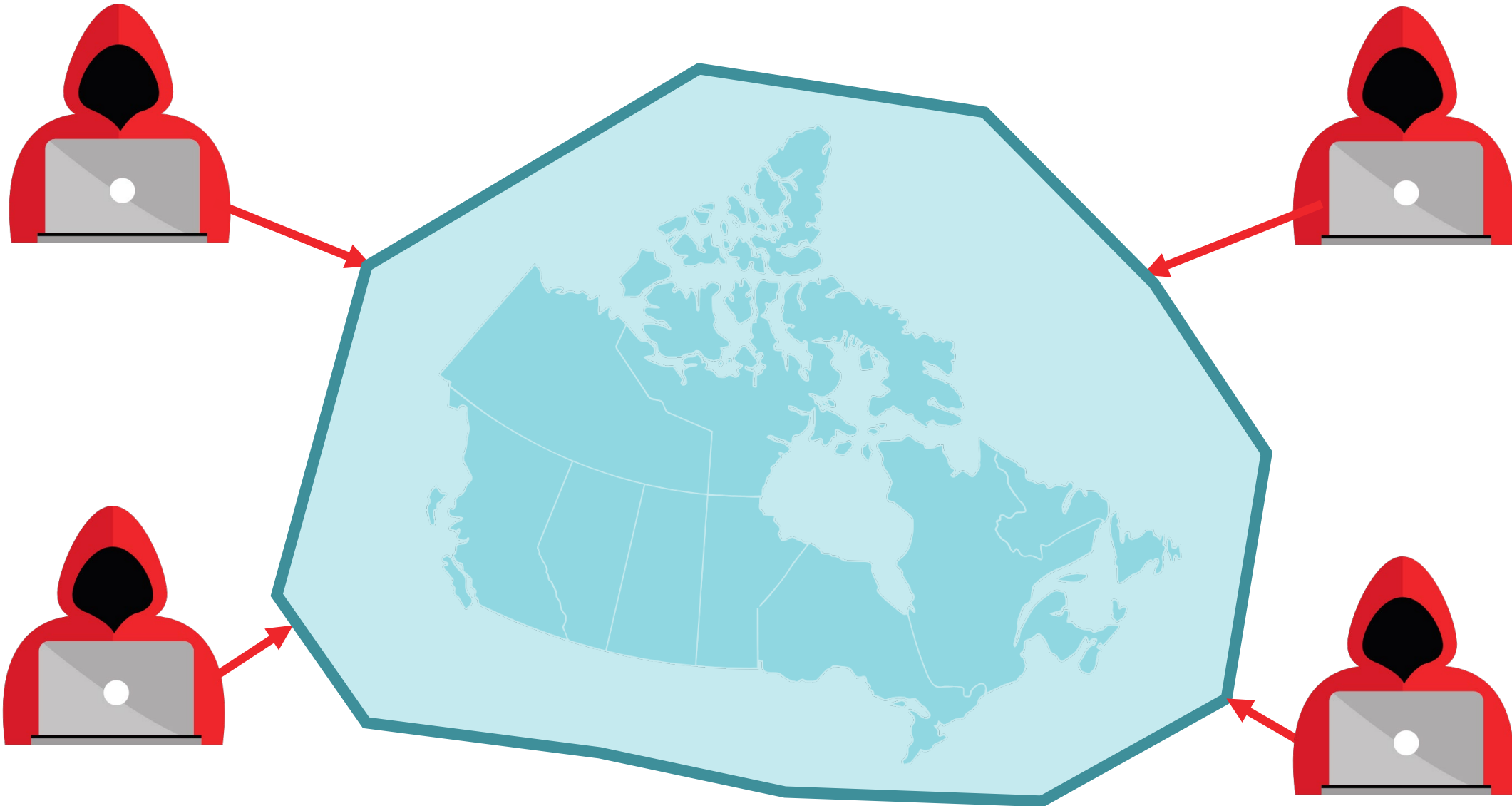
With visionaries willing to leverage their time and vision



But advanced threat actors don't attack institutions in isolation or in only one region



A truly national approach is required...



A New National Approach



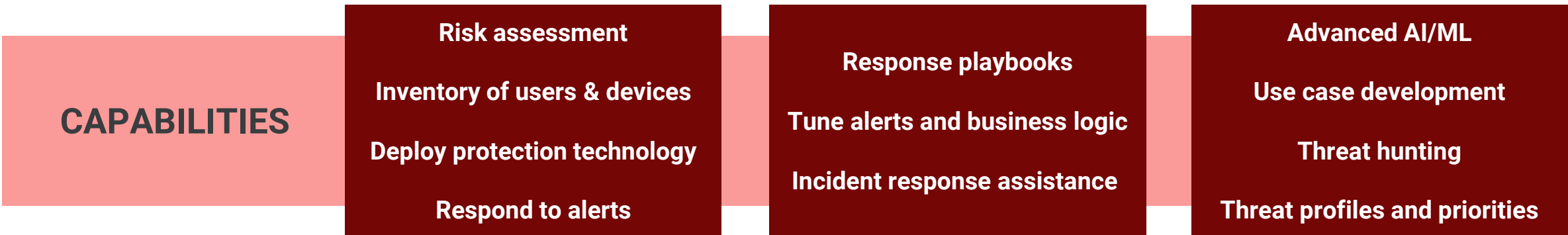
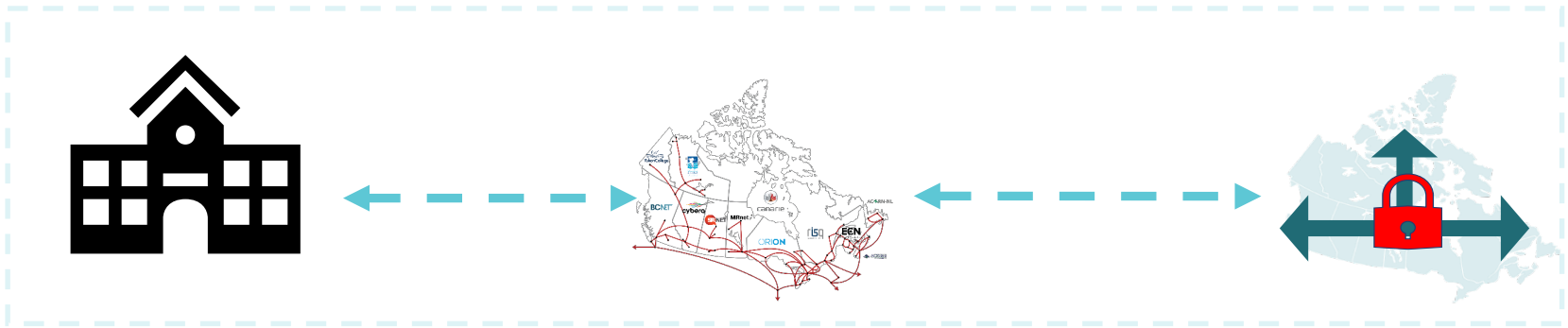
- Duplicate spend on easy processes
- Little to no spend on advanced tools
- Inability to counter nation state actors
- Scare skills and talent
- Limited information and threat sharing



- Reduce duplicate spend
- Investment in advanced tools
- Sophisticated approach to thwart nation state actors
- Leverage talent across ecosystem
- Information sharing across institutions, national and international partners



Future State Cybersecurity Ecosystem | A Multi-Tier Model



We know things aren't built overnight...



But what do we envision the future will look like?

MONTH DAY YEAR PM HOUR MN
APR 25 2053 : 02 : 00
DESTINATION TIME

MONTH DAY YEAR PM HOUR MN
APR 25 2053 : 02 : 00
PRESENT TIME

MONTH DAY YEAR PM HOUR MN
APR 25 1993 : 01 : 50
LAST TIME DEPARTED



“Roads? Where we’re going, we don’t
need roads...”

Okay, maybe 30 years was too far...

MONTH DAY YEAR PM HOUR MN
APR 25 2028 : 02 : 00
DESTINATION TIME

MONTH DAY YEAR PM HOUR MN
APR 25 2053 : 02 : 00
PRESENT TIME

MONTH DAY YEAR PM HOUR MN
APR 25 2023 : 02 : 00
LAST TIME DEPARTED

The vision

News

Strength in Numbers

A view from the future

BY SOHARA VENNI, CISO, UNIVERSITY OF CANADA |

FEB 15 2028

Wow! FROM THE FUTURE!



10 Comments



ALLNET provided on-site support for investigation and recovery while sharing relevant threat info with other in-province institutions

My team managed investigation, recovery and internal comms

CANSSOC used advanced tools to link this breach to other threat activity and provided timely information to institutions, governments and partners



So maybe your institution isn't ready for a Federated SOC today...

But your kids are gonna love it...



**So, what will the
future hold?**



**So, what will the
future hold?**





canarie



canarie.ca | [@canarie_inc](https://twitter.com/canarie_inc)



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