

June 2019

NORTH AMERICA

Regional Overview 2019



The NARB Team

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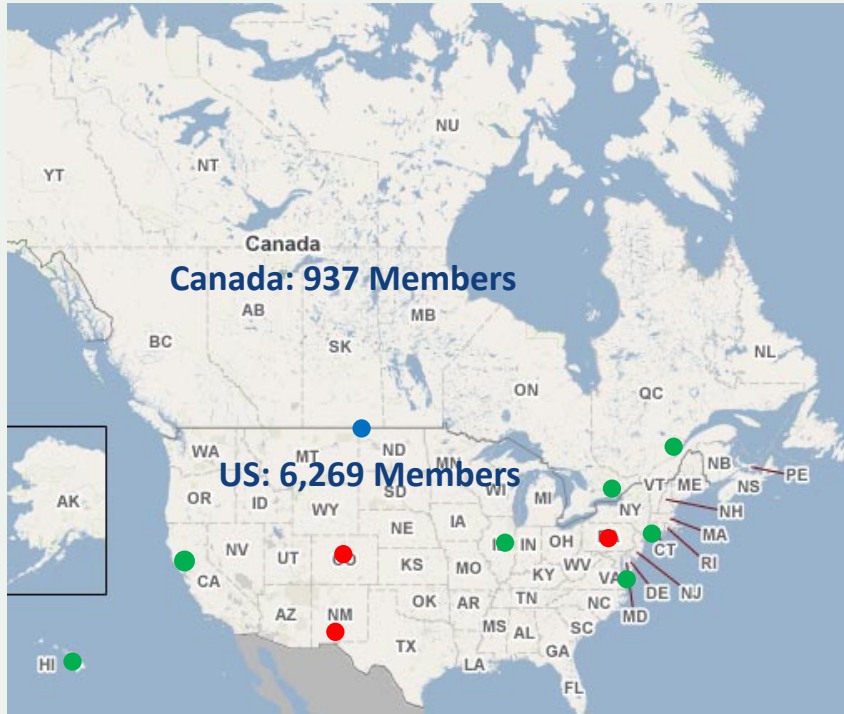
Research Analyst (intern)

Mark Buell

Regional Bureau Director



The ISOC North America community



North America Chapters:

- New York City
- San Francisco-Bay Area
- Canada
- Quebec
- DC
- Illinois
- Hawaii
- Colorado
- New Mexico
- Philadelphia

Chapters in-progress:

- Indigenous (Turtle Island)



* In good standing *pre-rejuvenation *in-progress

NARB Partnerships

Organization	Area of collaboration
Canadian Internet Registration Authority	IoT security and privacy, Internet governance and policy
Innovation, Science and Economic Development	IoT security and privacy, Indigenous connectivity, Internet governance and policy
Global Affairs Canada	Internet governance and policy
CANARIE	IoT security and privacy
MuralNets	Indigenous connectivity
CIPPIC	IoT security and privacy
University of Alberta	Indigenous connectivity
FCC (ONAP)	Internet governance and policy, Indigenous connectivity
OpenMedia	Internet governance and policy
M-Lab	Indigenous connectivity
CA-IX	IXPs, MANRS
First Mile Connectivity Consortium	Indigenous connectivity
Government of the Northwest Territories	Indigenous connectivity
Northern Lights General Partnership	Indigenous connectivity
Inuvialuit Regional Corporation	Indigenous connectivity
Nuvujaq	IXPs, MANRS, Indigenous connectivity
Center for Democracy and Technology	Internet governance and policy
R Street Institute	Internet governance and policy
US Telecom	Internet governance and policy
Century Link	Internet governance and policy
Open Technology Institute	Internet governance and policy
Next Century Cities	Indigenous connectivity
Jangala	Indigenous connectivity
NANOG	IXPs, MANRS



North America

- Highly developed digital economies; well-established democracies
- Very high Internet penetration (reported, Statista):
 - Canada: 94.7%
 - US: 86.5%
- Challenges continue in rural, remote areas; issues with reporting/mapping
- Affordability continues to be a challenge

The North American Political Environment

United States:

- Polarized, divided Congress:
 - August is scheduled to be a month of recess, but another budget must be passed by mid-September. Any bills not introduced by the end of July are unlikely to move forward until the new Administration given 2020 will largely be dedicated to Presidential campaign activities.
- Election on the horizon:
 - Fake news, censorship, and antitrust are going to be big themes.
 - Several candidates are already calling to break up big tech.
- Distracted:
 - The Mueller Report, immigration, and trade are sucking the air out of the room.
- Committed public service
- Issues: privacy, 5G, censorship, net neutrality, antitrust/consolidation, impact of Internet on children
- FTC has imposed fines against Facebook and is investigating others, but some in Congress and the public don't think they're doing enough.



Access in the US

Congress appears to be increasingly interested in access/digital divide issues:

- Bills to expand funding, implement dig-once and one touch make ready policies, and establishing offices in NTIA and the FCC.
- Maps are inaccurate, Congress and FCC recognize this: show that way more Americans have adequate Internet access than there actually are (see Microsoft's estimates for internet service).
- Congress is holding more hearings and asking more questions about spectrum.
- The FCC has held and will hold more spectrum auctions that sell unused or little-used bands of spectrum to companies and networks.
- The primary goal is to make way for 5G technologies.



The North American Political Environment

Canada:

- Election year – Current government (Liberals) may be in trouble
 - Most federally-funded or -led projects are on hold until the end of the fall
- Current government committed to multistakeholder model and global collaboration
- Strong relationship with Federal Government
- Access is a priority for Federal Government – have committed funds and support
 - \$6 billion announced
- Tech discussion currently dominated by election interference
- Dominate ‘tech’ issues: access, digital literacy, election security, cybersecurity, routing within Canada (IXPs), privacy, review of telecommunications and Broadcasting Act



2019 Activities to-date

Media hits: 13

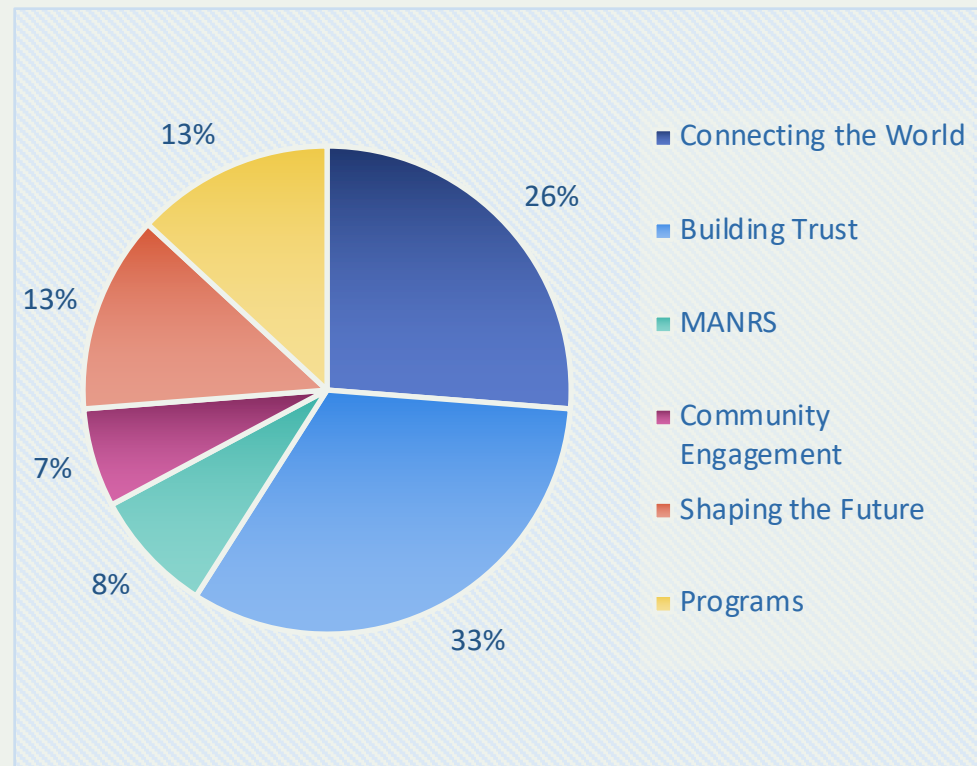
Blog posts: 10

Publications: 3

Government consultation comments: 4

Presentations: 8

Events/workshops: 14



Connecting the World



Connecting the Northwest Territories



Long-term outcome:

Underserved communities have improved access to Internet service on their own terms

Activities:

In partnership with GNWT, NLGP, IRC, and others, provide training and support to communities in the Northwest Territories to create and manage community networks

Cross-cutting:

Involves work with Jane, CN team, communication, PubPol



Connecting Uluhaktuk, NWT

Population: 396

- 60% under 35
- 90% Indigenous

Geography:

- Arctic community, fly-in only
- Located at 70° North

Access:

- Satellite-dependent, expensive

Activities to-date:

- Preliminary network designs developed
- Community meetings in June 2019
- Training materials in development

Next steps:

- Training to commence September 2019
- CN deployment Nov/Dec 2019 (TBC based on community input)



Connecting Sahtu Region, NWT



- ISOC partnered with communities of Fort Good Hope (516), Deline (533), Colville Lake (129), Tulita (477), Norman Wells (778)
- Community workshops held in June 2019
- Focus: building relationships, information sessions

Indigenous Connectivity Summit

Activity:

Coordinate and plan the
Indigenous Connectivity Summit
2019

Details:

November 12-15, 2019
Hilo, Hawaii

Partnerships:

First Mile Connectivity
Consortium, University of Alberta,
Indigenous and Hawaii chapters,
local Indigenous community

Cross-cutting:

Jane, PubPol, Communications, CN
team



Connecting Pu'uhonua o Waimānalo, Independent Nation of Hawai'i

Population: ~80

Access:

- Mobile only

Activities to-date:

- Community meeting
- Preliminary network designs developed
- Backhaul access negotiated

Next steps:

- Training, deployment at 2019 ICS



Other Access Work

Research: economic benefits of community networks in Indigenous communities (with Jangala, M-Lab, and University of Alberta)

Enhancing voice: partnership with the Telecommunications Act Review Panel to consult with northern/Indigenous community members (complete)

Research: feasibility study of IXPs in Arctic satellite dependent communities (with Qikitani Health Authority, Nuvujaq, City of Iqaluit, CBC)

Support: IXPs in Ottawa (OGIX), Inuvik, Iqaluit, VANIX

Policy: Influencing policy discussions in Canada and the US



Progress to-date – Connecting the World

- Government of Canada committed publicly to funding Community Networks
- CRTC's Broadband Fund criteria for funding projects is merit-based, not reverse auction
- CRTC's Broadband Fund application guide references five recommendations from the Indigenous Connectivity Summit report
- Arctic Council (intergovernmental body representing the 8 Arctic states) adopts recommendations from Indigenous Connectivity Summit
- Canadian Telecommunications Review Panel completes ISOC recommended tour of northern Indigenous communities, hires Indigenous advisor the “direct result of ISOC's help”

Rural Canada's voice in cabinet says feds looking at funding community ISPs

BY THE CANADIAN PRESS

POSTED MAY 10, 2019 1:02 PM EDT



Connecting the World

Edmonton Edition
CHANGE LOCATION

THE STAR

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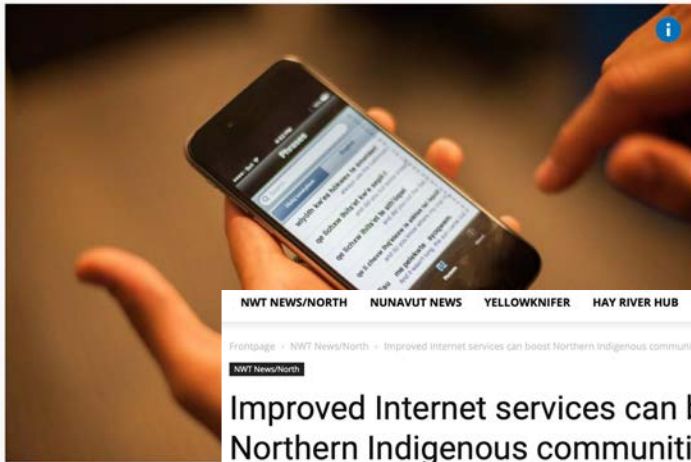
CONTRIBUTORS **OPINION**

Internet access key to protecting threatened Indigenous languages

By Crystal Gail Fraser Opinion

Mark Buell

Tues., June 25, 2019 | 3 min. read



NWT NEWS/NORTH NUNAVUT NEWS YELLOWKNIFER HAY RIVER HUB INUVIK DRUM

Frontpage > NWT News/North > Improved Internet services can boost Northern Indigenous communities' success

NWT News/North

Improved Internet services can boost Northern Indigenous communities' success

By Aaron Hemens - January 12, 2019

152

At the turn of the century, Gwich'in and Inuvialuit relied on language to connect with the world.

As a fur trader, trapper, mother and teacher, the Gwich'in area of the Northwest Territories was intrinsically linked to its languages: her own, Dinjii Zhuh.

More than 100 years later, Canada's piece of Indigenous culture that couldn't inherit: the ability to speak more than 400 fluent Dinjii Zhuh.

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Following their second annual Indigenous Connectivity Summit (ICS) that was hosted in Inuvik this past October, the Internet Society has issued a report that highlights how improved Internet connectivity can empower Northern Indigenous communities, beyond just strengthening their download speeds.

Apr 2019 · 30 days

TWEET HIGHLIGHTS

Top Tweet earned 7,077 Impressions

"Canadians pay some of the highest prices in the world for Internet" says @mebuell; Calls on the fed gov to do more, in today's @TheHillTimes opinion piece: bit.ly/2uApAS2 pic.twitter.com/hcevu9tx5t



ensure all Canadians have access to a basic service that's fundamental to participating in nearly every facet of the modern world.

From economic development and learning to job-hunting and socializing, the Internet is an integral part of our lives. The two million Canadians without high-speed Internet, and the mainly rural and northern communities where they live, are at a crippling disadvantage.

As budget documents rightly noted, "high-speed Internet is a necessity, not a luxury."

The government's recognition of this is reason for optimism. The budget explicitly acknowledges the need for more investment in remote and northern communities, including plans to secure satellite capacity that could bring Internet service to the most far-flung places. It sets up a significant

government's 2019 budget had set \$1.7-billion for a lofty, if not universal, access to Internet. It's a step in the right direction, but more steps are needed to

26

OPINION

No one left behind: for universal internet access, federal government must do more

By MARK BUELL APR. 1, 2019

The federal government's 2019 budget earmarked \$1.7-billion for a lofty, and utterly vital, aim: universal access to high-speed Internet. While the funding is a step in the right direction, many more steps are needed to ensure all Canadians have access to a basic service that's fundamental to participating in nearly every facet of the modern world.



Morneau, pictured March 28, a day after releasing

the government's 2019 budget, calls for high-speed Internet

NWT NEWS/NORTH NUNAVUT NEWS YELLOWKNIFER HAY RIVER HUB INUVIK DRUM

Frontpage > NWT News/North > More options for Internet

NWT News/North

More options for Internet

By Tim Edwards - June 17, 2019

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Ulukhaktok's geography could make it an ideal place to set up its own internet infrastructure, according to an international advocacy group.

The Internet Society, an advocacy group based in Virginia seeking better and more open global internet connections, has been travelling around the Northwest Territories over the last few weeks to let people know how to set up community networks and access new funding to do so.

"A community network is essentially a network that is built by a community, with a community and for a community," said Katie



Photo courtesy of Natalie Campbell

Building Trust



CANADIAN MULTISTAKEHOLDER PROCESS
ENHANCING IOT SECURITY



Canadian Multistakeholder Process: Enhancing IoT Security

Long-term outcome:

End users trust that Internet security is protected when they use Internet-connected devices

2019 Goal:

Enhancing IoT Security Project recommendations created, promoted, and launched in Canada; recommendations referenced and/or process duplicated internationally (completed)

Partnerships:

GoC-ISED, CIRA, CANARIE, CIPPIC, Canada and Quebec chapters

Cross-cutting:

Communications, ITO, OTA



Innovation, Science and
Economic Development Canada



Samuelson-Glushko Canadian Internet Policy and Public Interest Clinic
Clinique d'Intérêt public et de politique d'Internet du Canada Samuelson-Glushko



canarie



Canadian Multistakeholder Process: Enhancing IoT Security

Status:

- Final report launched May 2019
- Implementation Working Group active
- Global IoT Security Policy Platform established

Next steps:

- Promotion of recommendations
- Collateral development
- Implementation



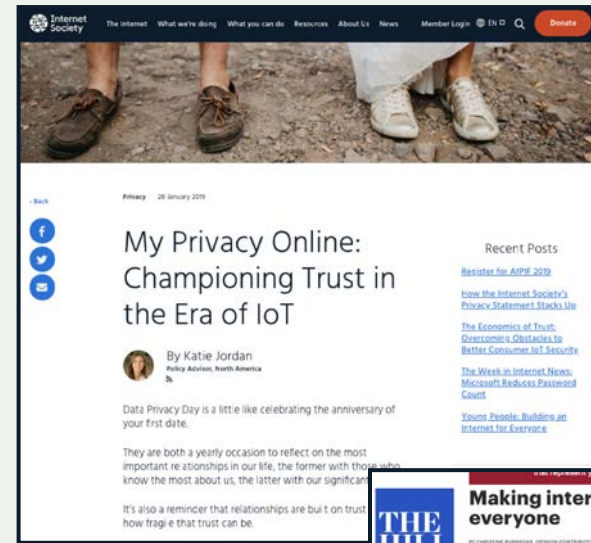
2019 Priorities – Building Trust

Privacy: Influence the development of a US comprehensive federal privacy law and enhancements to Canadian privacy law

Encryption: Implemented a targeted media and democracy strategy to communicate the importance of encryption; actively participate in a coalition of like-minded organizations and thought leaders to amplify messages; submissions to government consultations on encryption and exceptional access in the US and Canada

MANRS: Formalized strategic partnerships with Industry and Government organizations to promote MANRS within their memberships

IoT campaign: Creation, launch, and growth of the IoT Security Policy Platform



2019 Priorities – Other

Fostering a Collaborative Approach:

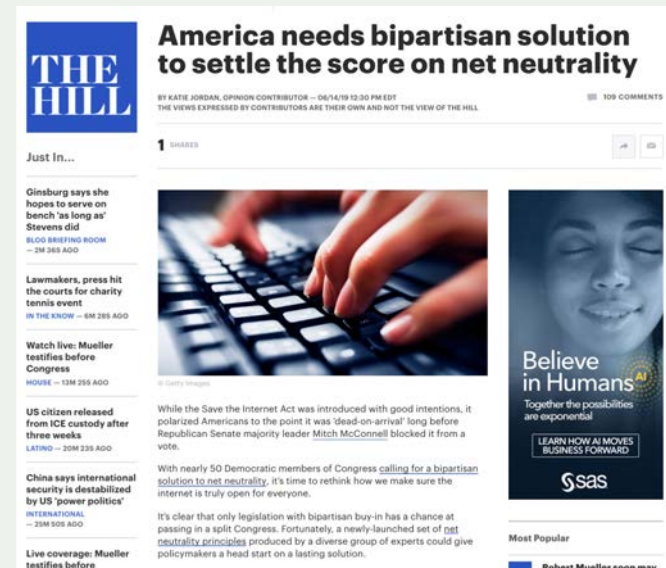
- Coordinated and led a politically diverse multistakeholder group of net neutrality experts to create a baseline set of principles in the United States for an open Internet. These principles formed input into a bipartisan process

Building our Community:

- Enhance the capacity of NA Chapters to carry out work in support of ISOC's vision

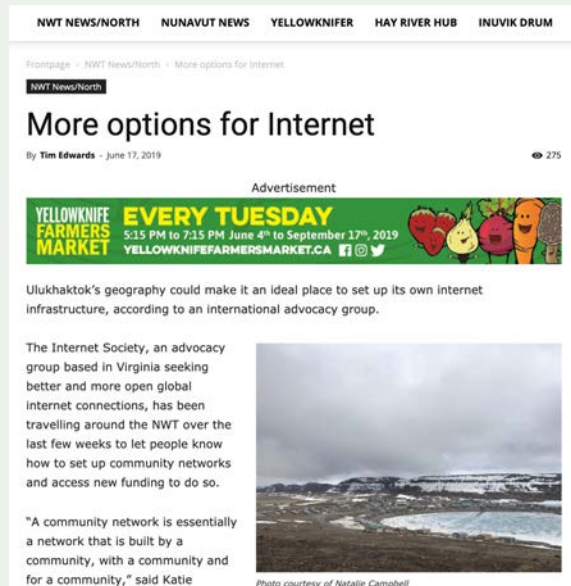
Policy Engagement:

- 5 consultations (trust and access related) in North America meaningfully include ISOC recommendations in reports




We make our mission 'hit home' with:

- Clear, consistent, bold communications that help people understand what we do.
- Regional strategies that make audiences care about our work and want to support our mission.



Strengthening our voice

- We're building a strong reputation through strategic **thought leadership opportunities**



America needs bipartisan solution to settle the score on net neutrality


BY KATIE JORDAN, OPINION CONTRIBUTOR — 06/14/19 12:30 PM EDT
THE VIEWS EXPRESSED BY CONTRIBUTORS ARE THEIR OWN AND NOT THE VIEW OF THE HILL

108 COMMENTS

1 SHARES

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INTERNATIONAL — 25M 50S AGO
- Live coverage: Mueller testifies before



While the Save the Internet Act was introduced with good intentions, it polarized Americans to the point it was 'dead-on-arrival' long before Republican Senate majority leader Mitch McConnell blocked it from a vote.

With nearly 50 Democratic members of Congress [calling for a bipartisan solution to net neutrality](#), it's time to rethink how we make sure the internet is truly open for everyone.

It's clear that only legislation with bipartisan buy-in has a chance at passing in a split Congress. Fortunately, a newly-launched set of [net neutrality principles](#) produced by a diverse group of experts could give policymakers a head start on a lasting solution.



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CONTRIBUTORS OPINION

Internet access key to protecting threatened Indigenous languages

By Crystal Gail Fraser Opinion
Mark Buell

Tues., June 25, 2019 | 3 min. read



At the turn of the century, Gwich'ya Gwich'in woman Julienne Teh'dahcha relied on language to survive.

As a fur trader, trapper, mother and matriarch on the flats of the Tsiighehtchic area of the Northwest Territories, her success as she travelled through present-day Alaska, Yukon and the Northwest Territories was intrinsically linked to her ability to speak multiple languages: her own, Dinjii Zhuh Ginjik, along with Dene and French.

More than 100 years later, Canada passed a bill to help save a core piece of Indigenous culture that Julienne's own great-grandchildren couldn't inherit: the ability to speak their language. There are fewer than 400 fluent Dinjii Zhuh Ginjik speakers today.

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Stronger together than apart

- Collaboration is critical to our success.
- Members, chapters, and community influencers consistently engaged in multi-channel campaigns to achieve our goals on access, privacy, and IoT security.

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My Privacy Online: Championing Trust in the Era of IoT
By Katie Jordan, Policy Advisor, North America

10 Goals for Good Privacy Protection Law

- Require Privacy-by-Design**: Require privacy-by-design from the outset, when new products or services are developed. Privacy-by-design includes principles such as data minimization, clear specification of intended use, and limits on sharing and retention.
- Promote Clarity**: Require plain language on all privacy-related agreements, to ensure users can give informed consent based on a true understanding of what will be shared, how and with whom.
- Enforce Privacy Protection**: Ensure that privacy regulation can be effectively enforced, and that data handlers are accountable for their privacy practices. Require safeguards to enhance data security overall, based on accepted best practice.
- Strengthen oversight and enforcement**: Undergo regular review to ensure it remains relevant and fit for purpose, provide sanctions and remedies for privacy violations, and encourage companies to be transparent about compliance.
- Give Users Control**: Make sure users have effective control over their own privacy, requiring data handlers to give users greater control over whether, and how, they share their data, including the ability to opt out. Make sure that if users opt to share data, they are able to request its removal later. And that, if they opt out, they have meaningful alternatives.
- Increase Accountability**: Require transparency and accountability for privacy practices and breaches. If something goes wrong, data handlers must be held accountable and do their best to contain the harm, give appropriate support to help those affected and ensure timely notification of any violations. The cost of bad practice must be borne by the responsible party.
- Work Globally**: Include mutually-agreed cross-border provisions to protect personal data that leaves one country and enters another, to ensure continuous privacy protection without undermining the Internet's global nature.
- Be Strict but Fair**: Impose strict conditions on any exceptions to privacy and personal data protection. Exceptions should be restricted to matters of national security or public safety. They must have a legitimate goal, be necessary and proportionate, and be subject to transparent, independent judicial supervision.
- Keep it Anonymous**: Protect individuals and their data against the "re-identification" of their data over time. This law should require data handlers to ensure that privacy protection methods - including anonymization, where this is allowed as a privacy protection - remain relevant, as technology and re-identification methods evolve.
- Be Drafted Collaboratively**: Privacy affects everyone, and makes sense to involve the private sector, regulators, privacy advocates and consumer groups in formulating policy in this area. Multi-stakeholder participation makes for more open and sustainable policy-making.

Recent Posts

- [Register for AIPIF 2019](#)
- [How the Internet Society's Privacy Statement Stacks Up](#)
- [The Economics of Trust: Overcoming Obstacles to Better Consumer IoT Security](#)

Feb 2019 · 28 days

TWEET HIGHLIGHTS

Top Tweet earned 2,377 impressions

#Privacy is critical to our ability to trust the Internet. These **10 #dataprotection** tips for lawmakers are a great start protect both people and **#innovation** online. Learn more here: bit.ly/2BSuptU **#Privacyinthehouse** **#USSenate** **#USCongress** **@SenatorWick**

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Making internet privacy wor everyone

BY CHRISTINE KUNIGSBERG, OPINION CONTRIBUTOR — 01/10/19 12:30 PM EST
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