Improving access to mental health and suicide prevention services for the English-speaking population of the Capitale-Nationale region

***Report by**: Melina Papalampropoulou-Tsiridou, Ph.D., M.B.A., Jan Warnke, Ph.D. candidate, and Laura-Lee Bolger, G.I.S Analyst*

Centre of Expertise on the Adaptation for English-speaking Communities in Health and Social Services (CE-ACESS)

CHSSN « Bâtir ensemble » 18-19 janvier, 2023

Presented by: Jan Warnke & Laura-Lee Bolger, Project Geodata

Services Communautaires de langue anglaise | JHSB – CIUSSS de la Capitale-Nationale

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Améliorer l'accès par le savoir

Improving access through knowledge

Santé Canada Health Canada

This initiative is funded by Health Canada through the Action Plan for Official Languages – 2018-2023:
Investing in Our Future. The views expressed here do not necessarily reflect those of Health Canada..

CHSSN

The Geodata project is financed by

Health Canada Santé Canada

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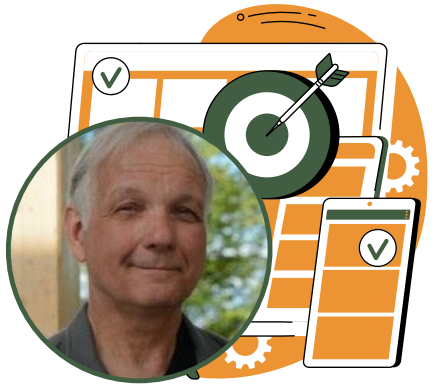
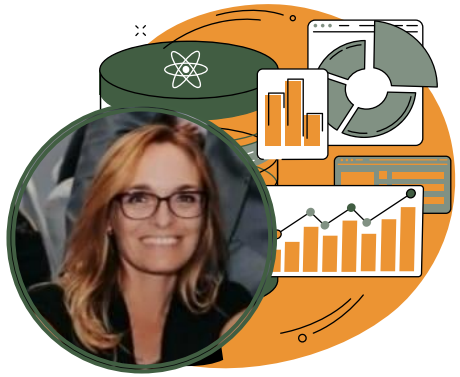
Meet the Geodata team



Jan Warnke, Jeffery Hale Hospital (JHSB) Data Model Analyst and Manager



Laura-Lee Bolger
G.I.S Analyst

Jean-François Richard, Project manager

Melina Papalampropoulou-Tsiridou, Project administrator

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Objectives of this presentation

Demonstate how

- The analysis of local administrative health and census data
  - Improves the management and development of the health service offer
  - Improves the development of a deeper understanding of health service needs at the local, regional and provincial levels.

Introduce the use of the Geodata platform

- Local analysis of English language health services for mental health during the pandemic (2019-2020) in the CIUSSS de la Capitale-Nationale
  - Overall distribution of the English-speaking population at different scales (RTS, and CT-CSD)
  - Distribution of the population aged 65 and over according to the use of health care and mental health services
  - Distribution de la population de 65 ans et plus dans le CIUSSS-de la Capitale-Nationale (03) par CT-CSD
  - Distribution de la population de 65 ans selon l'utilisation des services de santé

The challenges of official language minority communities

- The resolution of issues concerning OLMCs (Linguistic Minority Communities) must consider the number and geographical distribution of their characteristics, their proximity

- The "GeoData" project meets this need
  - Uses health service user data and cross-references this information with census data
  - Locate by neighborhood or district

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Geodata Project

Context of the Geodata project

Under-utilisation of clinical-administrative data on the use of health services in English by the English-speaking population of Quebec to improve the distribution of services in the territory.

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The SCLA Jeffrey Hale data model

Main features (out of 170)

1. Service acts - JHCS – CIUSSSCN
2. Gender

   - ✓ Female/Male
3. Age

   - ✓ Age at the moment of intervention
   - ✓ Age groups
4. Geographic location of users

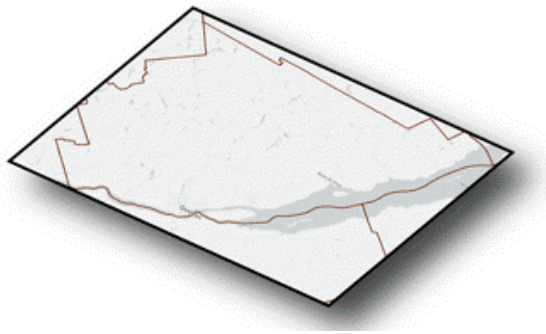
   - ✓ 28 territorial scales from local to provincial

The Geodata Project

- Is an initiative of the Jeffery Hale Community Services in English (SCJH)
- Developed a protocol for geolocation and anonymization of clinical-administrative health data
- Contextualized English-language service user information according to socio-demographic data profiles
  - 380 variables according to :
    - Language
    - Age groups
    - six geographic scales including local scale by census tract and municipality (CT-CSD)
- 48,330 acts of service by SCJH from 2015-2020 (services in English)
- 1,700,000 acts of service by CIUSSS de la Capitale-Nationale from 2019 to 2020
- An online analysis and dissemination infrastructure (dashboards and story maps)

Geodata Project

Data from different sources



RTS

Systemic challenges to be addressed

The geodata project allows:

- Integration of data from different resources
- The crossing of databases to obtain information
- The geolocation of administrative data usage

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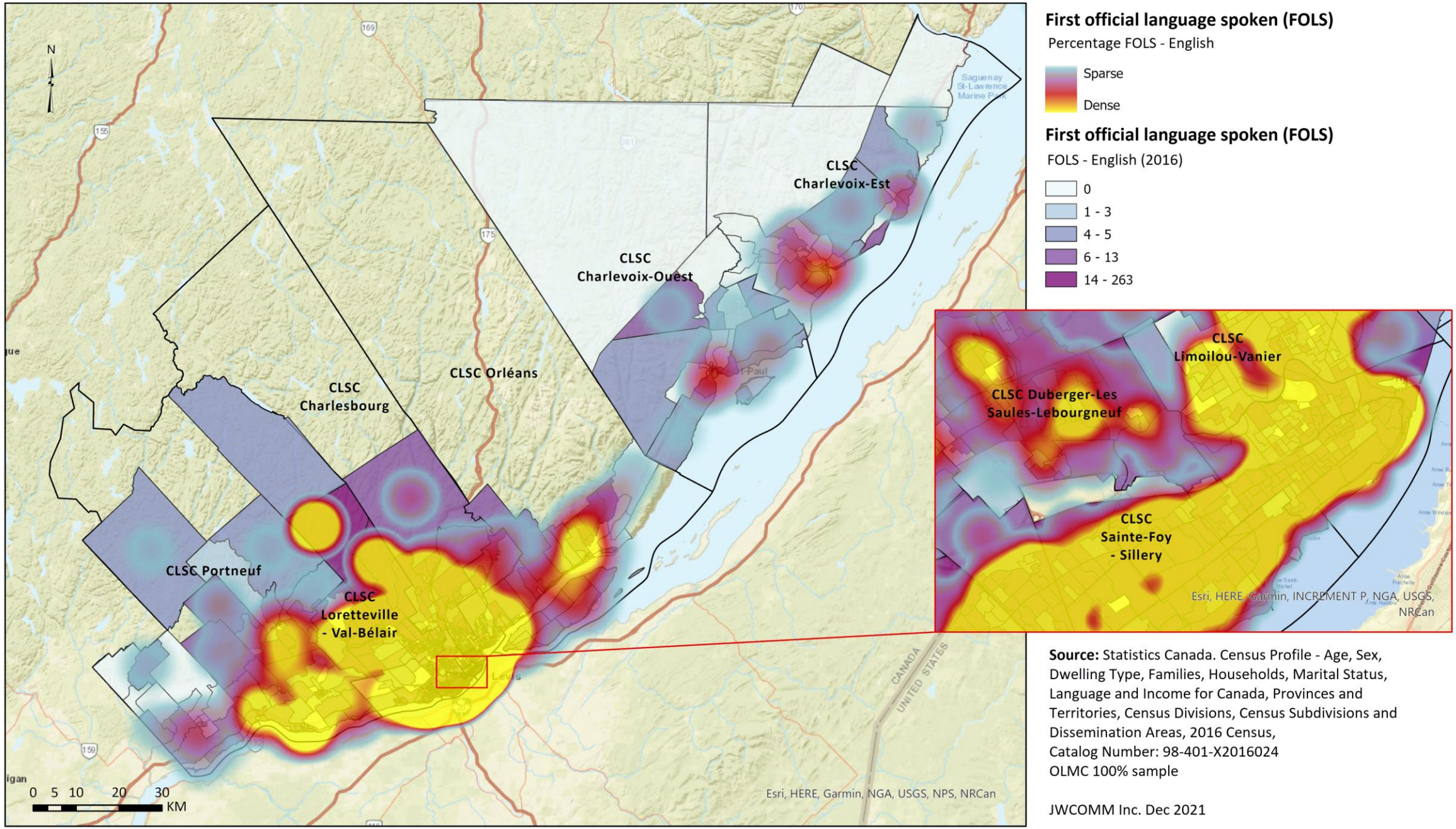
The English-speaking population

Their number is a fraction of the majority French-speaking population in Quebec

- 1,103,475 or 13.1% (2016) of the total population of Quebec

The geographical distribution varies unevenly

- 80% of the FOLS English population is in the Montreal area
- 20% distributed in sometimes isolated concentrations in the rest of Quebec
  - 14,870 or 2.1% (2016) of the total population in the Quebec City area, the CIUSSS de la Capitale-Nationale
- Distribution by 25 territorial service networks (RTS)
  - Each population class represents 20% of the population
  - High concentration in Western Quebec
- Distribution by local neighbourhood (census tracts and municipalities)
  - Dispersion from west to east with a strong concentration around Montreal
  - At a local level (CT-CSD) there are clusters of high concentration outside of Montreal



First official language spoken (FOLS)

Percentage FOLS - English

Sparse

Dense

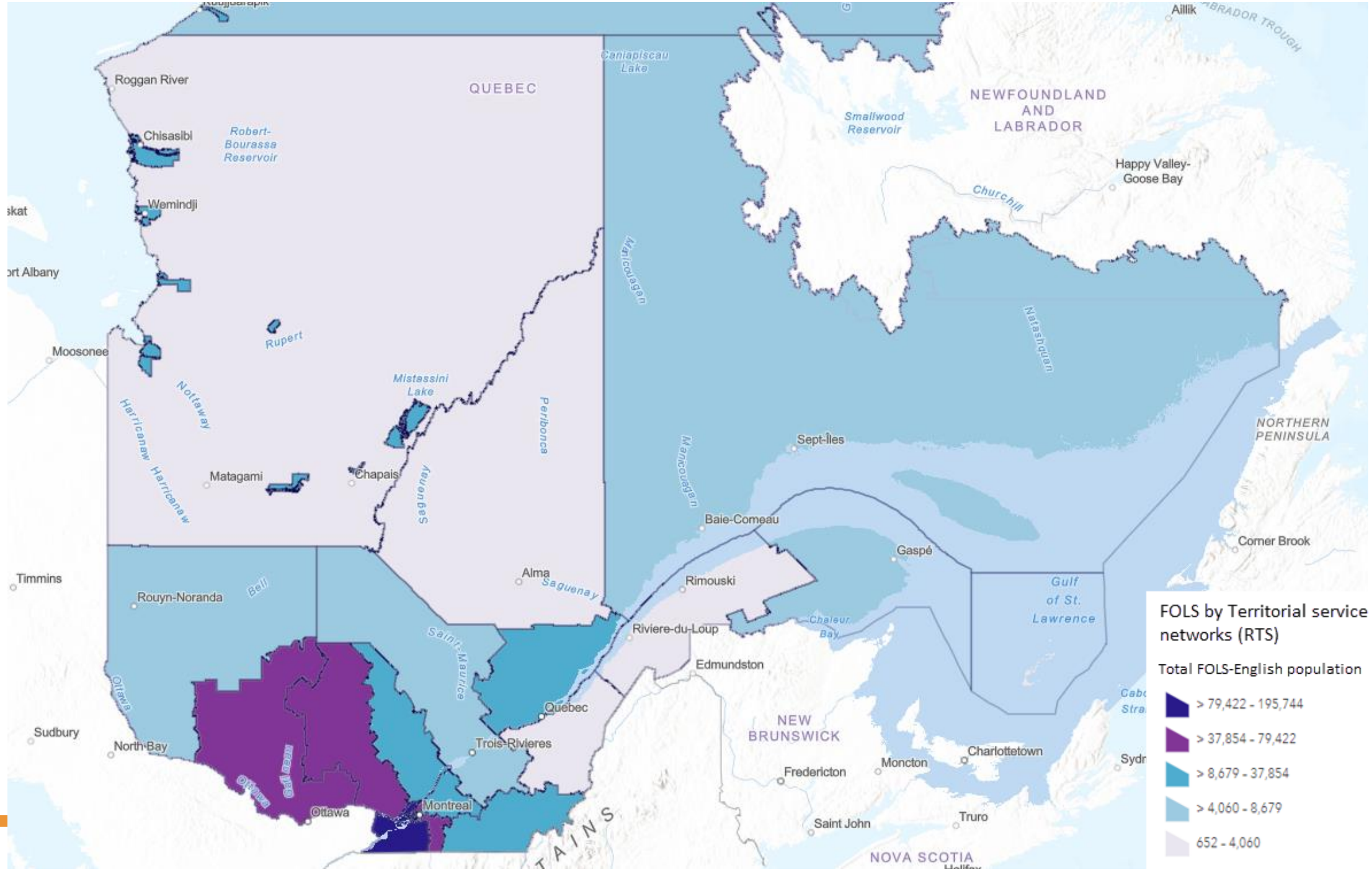
First official language spoken (FOLS)

FOLS - English (2016)

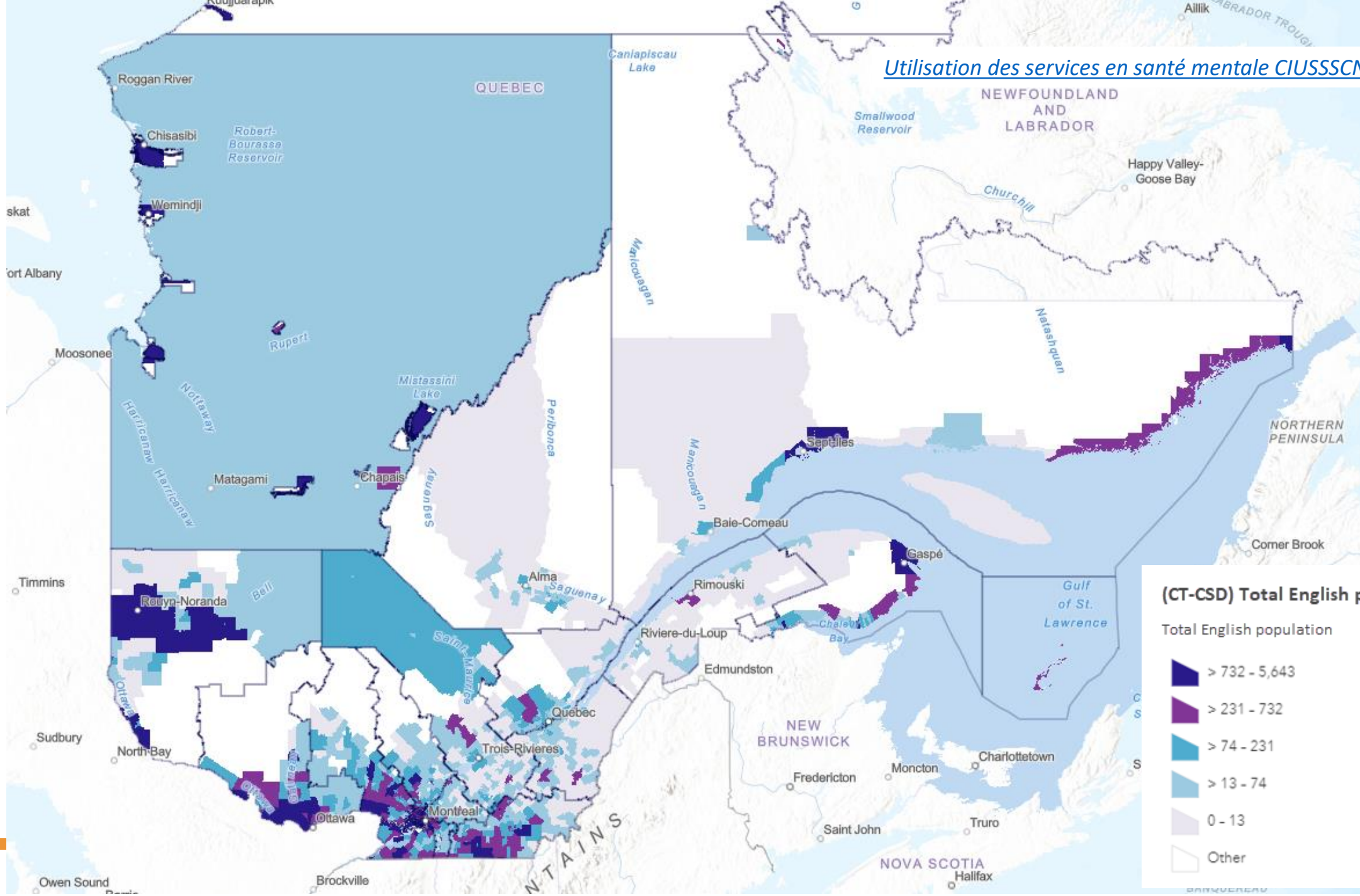
- 0
- 1 - 3
- 4 - 5
- 6 - 13
- 14 - 263

Source: Statistics Canada. Census Profile - Age, Sex, Dwelling Type, Families, Households, Marital Status, Language and Income for Canada, Provinces and Territories, Census Divisions, Census Subdivisions and Dissemination Areas, 2016 Census,
Catalog Number: 98-401-X2016024
OLMC 100% sample

JWCOMM Inc. Dec 2021


QUEBEC
NEWFOUNDLAND AND LABRADOR
NEW BRUNSWICK
NOVA SCOTIA
NORTHERN PENINSULA
Roggan River
Chisasibi
Wemindji
Moosonee
Matagami
Chapais
Rouyn-Noranda
Timmins
Sudbury
North Bay
Ottawa
Montreal
Quebec
Trois-Rivieres
Alma
Sept-Îles
Baie-Comeau
Gaspé
Rimouski
Riviere-du-Loup
Edmundston
Fredericton
Moncton
Charlottetown
Saint John
Truro
Happy Valley-Goose Bay
Corner Brook
Aillik
Caniapiscau Lake
Smallwood Reservoir
Robert-Bourassa Reservoir
Rupert
Mistassini Lake
Nottaway
Harricanaw
Bell
Saguenay
Peribonca
Manicouagan
Natashquan
Gulf of St. Lawrence
Chaleur Bay
Saint-Maurice
Ottawa
Gatineau
Lievre
Churchill
FOLS by Territorial service networks (RTS)
Total FOLS-English population
> 79,422 - 195,744
> 37,854 - 79,422
> 8,679 - 37,854
> 4,060 - 8,679
652 - 4,060

[Utilisation des services en santé mentale CIUSSSCN]



Number and proportion of the English-speaking population by age group, 2016

Proportion by age	Québec	CIUSSS-CN	Québec	CIUSSS-CN
Total age group	1 103 475	14 830	100%	100%
55 years and older	30 1415	4 170	27.32%	28.12%
65 years and older	163 425	2 305	14.81%	15.54%
55 to 64 years	137 990	1 865	12.51%	12.58%
65 to 74 years	94 745	1 380	8.59%	9.31%
75 to 84 years	49 480	650	4.48%	4.38%

1

2

Mental Health Services 2019 and 2020, SCLA | JHSB CIUSSS-CN

1. Service acts
   - 5910 – Psychosocial services for trouble youth and their families
   - 5930 – Front line outpatient mental health services
   - 5940 – Community supports for people with serious mental illness
   - 6560 – Psychosocial Services
2. Number and proportion of total mental health procedures
3. Comparison 2019 and 2020

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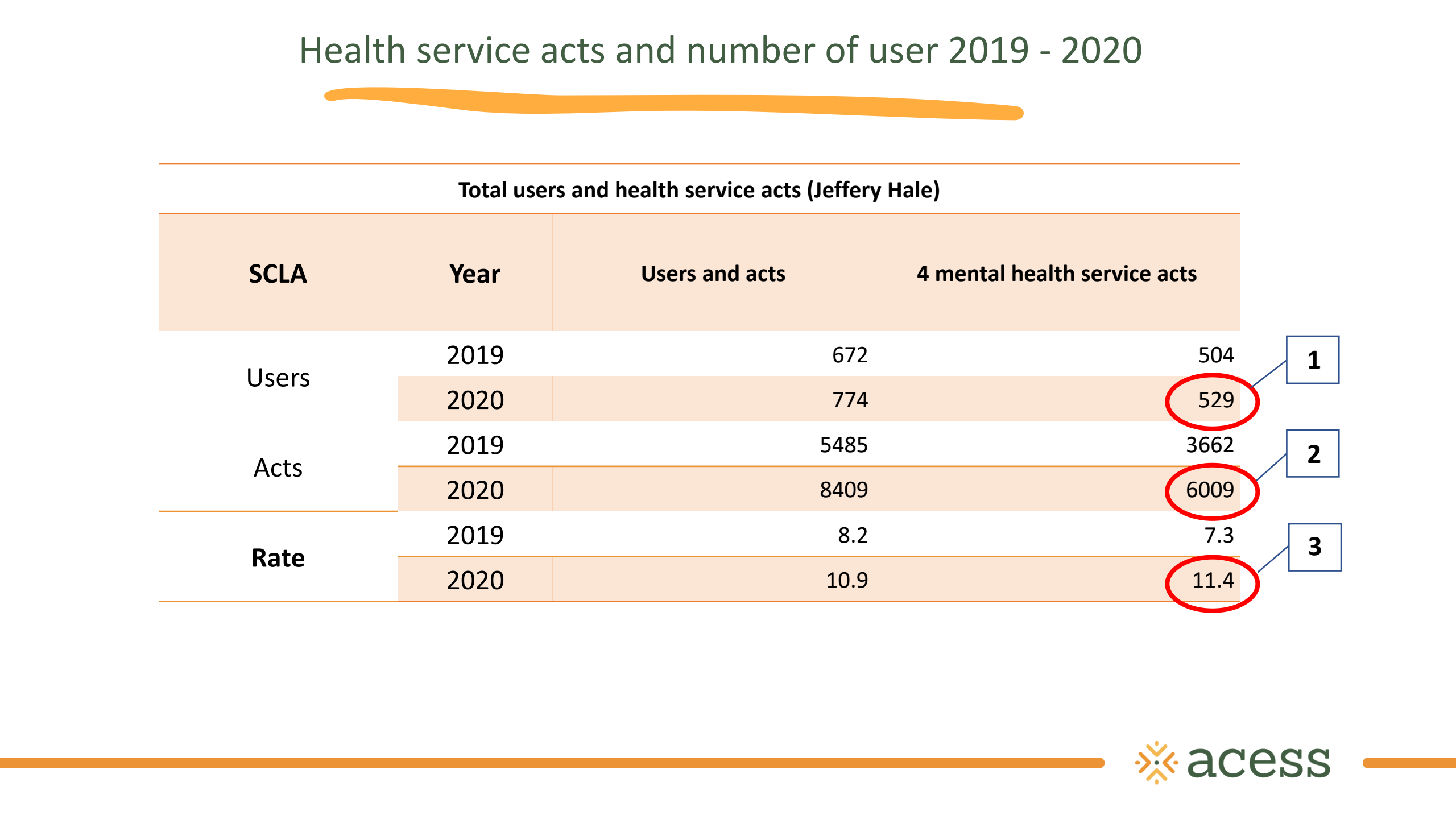
Health service acts and number of user 2019 - 2020

Total users and health service acts (Jeffery Hale)			
SCLA	**Year**	**Users and acts**	**4 mental health service acts**
Users	2019	672	504
	2020	774	529
Acts	2019	5485	3662
	2020	8409	6009
Rate	2019	8.2	7.3
	2020	10.9	11.4



Change of service by age group and gender

Age group and gender	SCJH - 2019	SCJH - 2020	Total	Change	SCJH - 2019 % de 13 actes	SCJH - 2020 % de 13 actes
0-17 years	1267	1941	3208	674	20.0%	20.3%
18-54 years	1178	1442	2620	264	18.6%	15.1%
55 years and over	1217	2626	3843	1409	19.2%	27.4%
Women	1722	2894	4616	1172	27.1%	30.2%
Men	1940	3115	5055	1175	30.6%	32.5%
Total 4 actes	3662	6009	9671	2347	57.7%	62.7%
Total 13 actes	6350	9577	15927	3227	100.0%	100.0%

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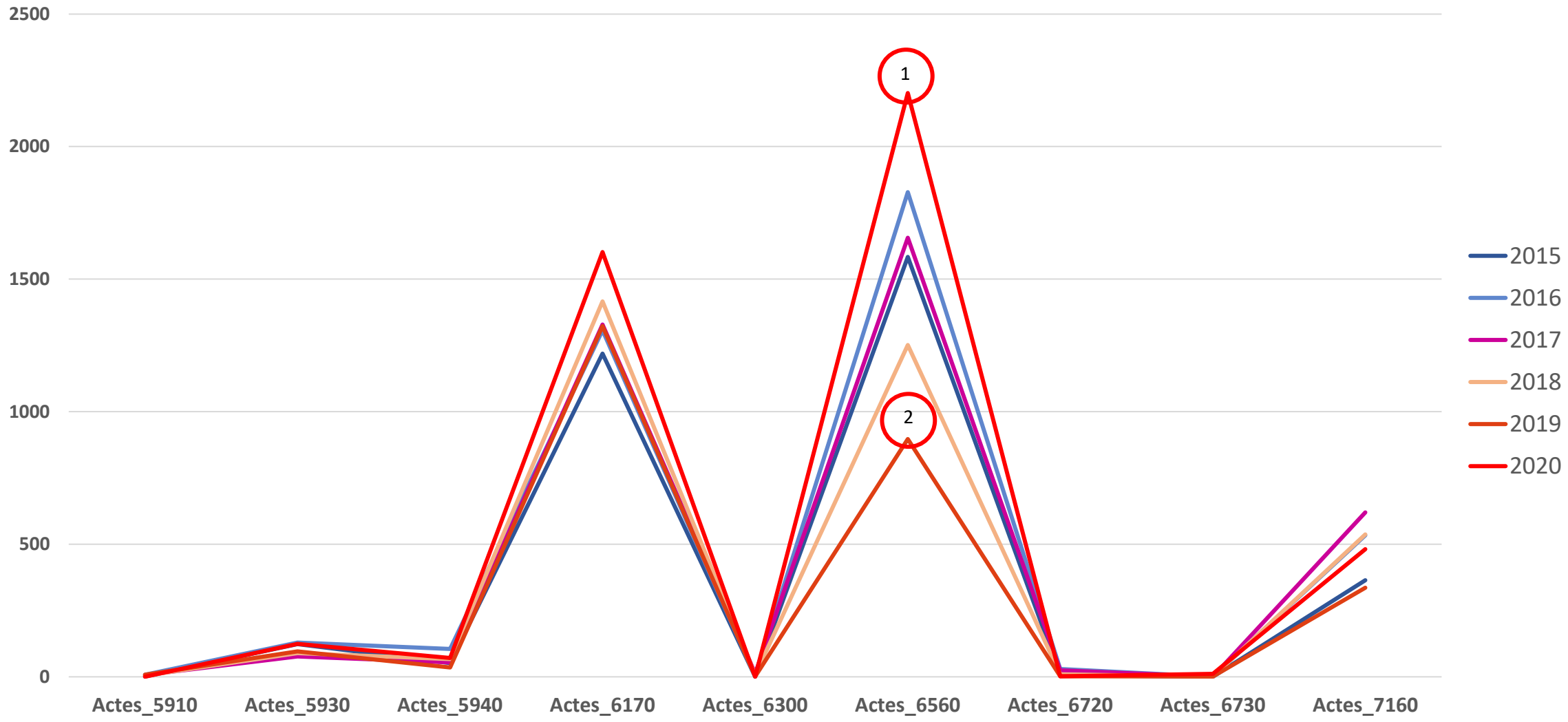
Year	Acts by gender	5910 Psychosocial services for troubled youth and their families	5930 Front line outpatient mental health services	5940 Community supports for people with serious mental illness	6560 Psychosocial Services	Total
2019	Men	508	338	188	906	1940
	Women	713	388	30	591	1722
	Total	1221	726	218	1497	3662
2020	Men	550	340	194	2031	3115
	Women	779	428	99	1588	2894
	Total	1329	768	293	3619	6009
% Change	Men	8.3%	0.6%	3.2%	124.2%	60.6%
	Women	9.3%	10.3%	230.0%	168.7%	68.1%
	Total	8.8%	5.8%	34.4%	141.8%	64.1%

Mental Health Services, SCLA

- 64.1% overall increase in services
- Increase in each service category ranging from 8.8% (5910) to 141.8% (6560)
- Increase in services for women from 9.3% (5910) to 230% (5940)
- Questions raised: number of users?
- Sociodemographic context (social determinants of health?): geolocation and analysis

SCLA | JHSB use of service acts from 2015 to 2020 for those 65 years and older

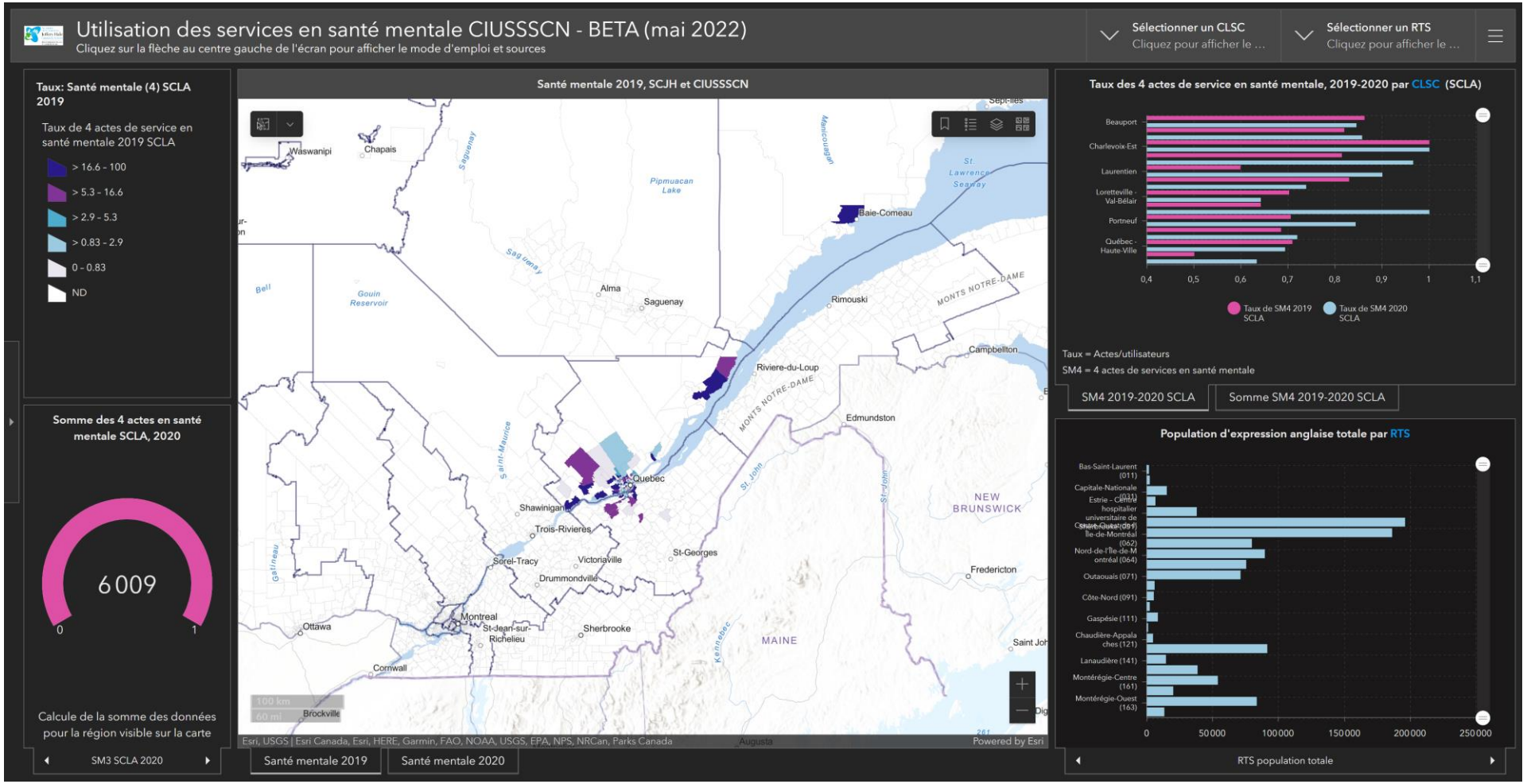


Conclusion and next steps

- Gaps in services have been identified
  - changing dynamics / changing needs
- Geodata knowledge base targeted local needs
- Adapted tools solicited constructive feedback
- Adaptation to change in health use parameters
  - Adaptation of knowledge tools
  - Adaptation of targeted policies and programs
  - Magnifying effect of the pandemic on linguistic minority health service issues (especially elderly)

Online data dissemination and analysis

Application: dashboard



[Utilisation des services en santé mentale CIUSSSCN]

rofils multicritères et santé mentale CIUSSSCN - BETA (mai 2022)

quez sur la flèche au centre gauche de l'écran pour afficher le mode d'emploi

Sélectionner un CLSC
Cliquez pour voir le menu

Bilingue (var06234)

14.5

0 100

Moyenne

06234

Réponses multiples, ngues parlées à la maison (var06233)

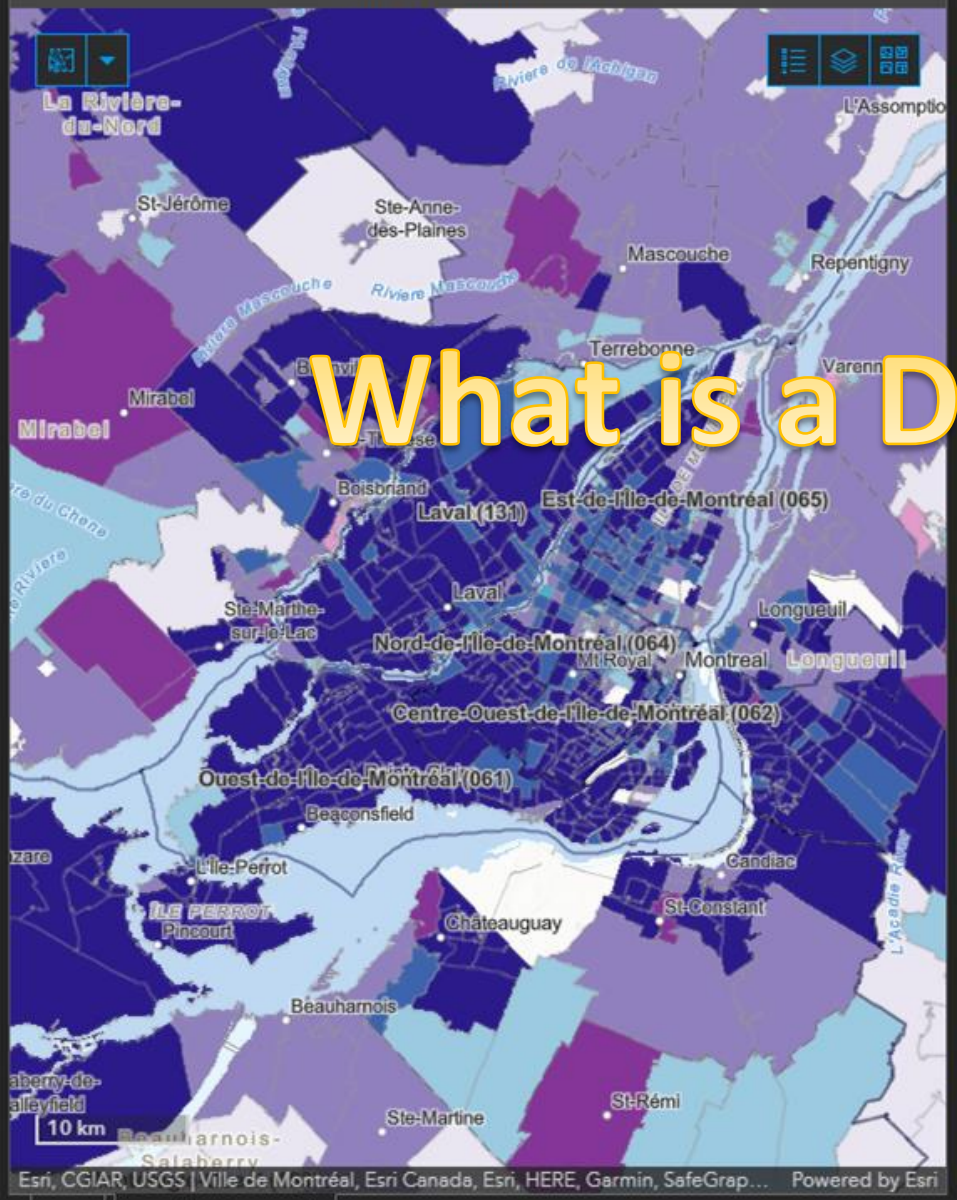
2k

0 100

Moyenne

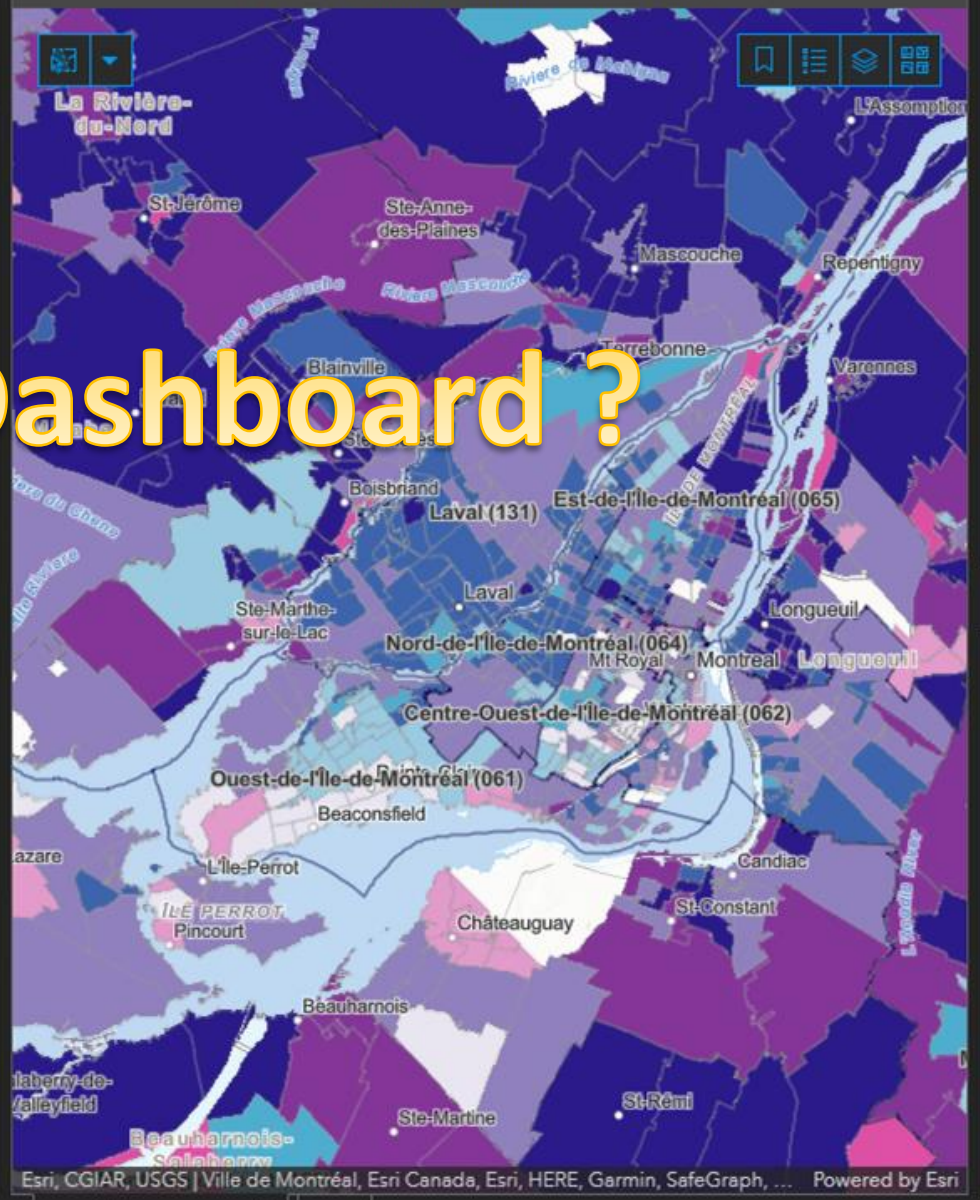
06233

Profil provincial (valeur)



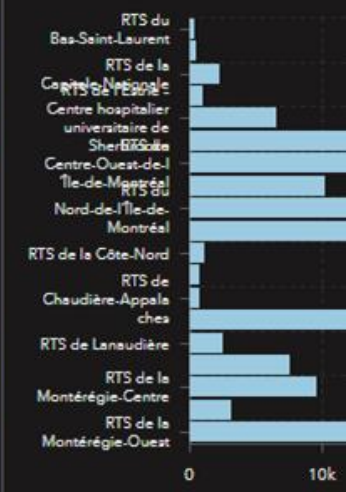
sm | profil valeur

Profil provincial / population total anglaise



profil /pop ang | sm

Population d'expre



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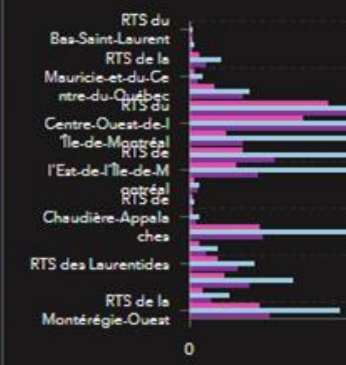
Population d'expression



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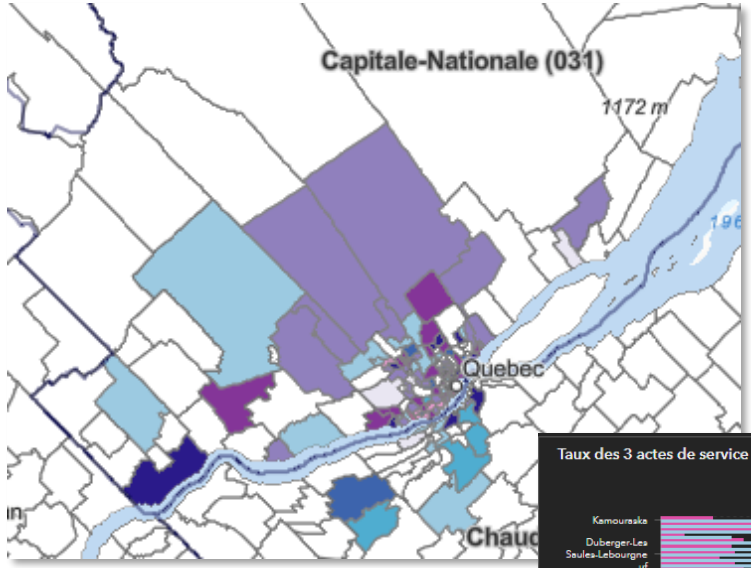
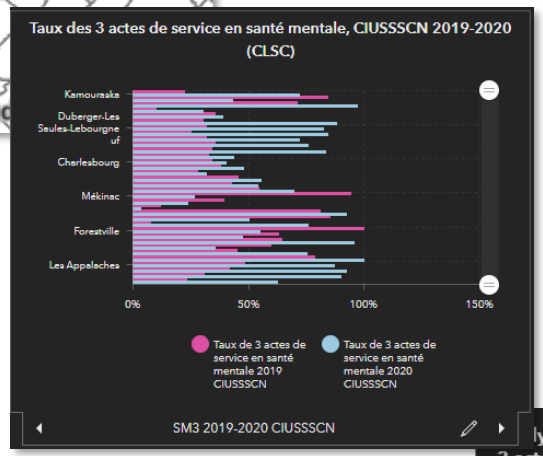
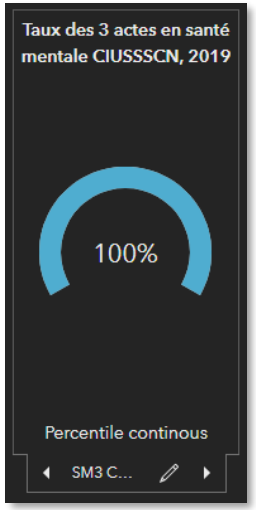
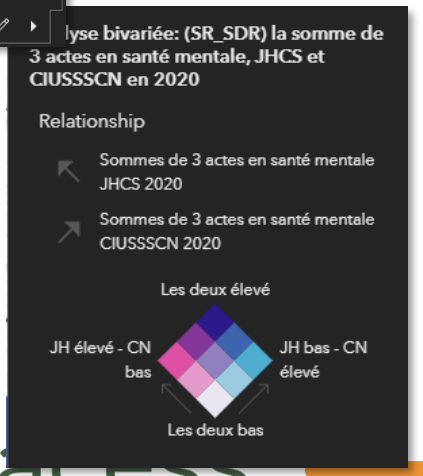
What is a Dashboard ?

A dashboard is a view of geographic information and data









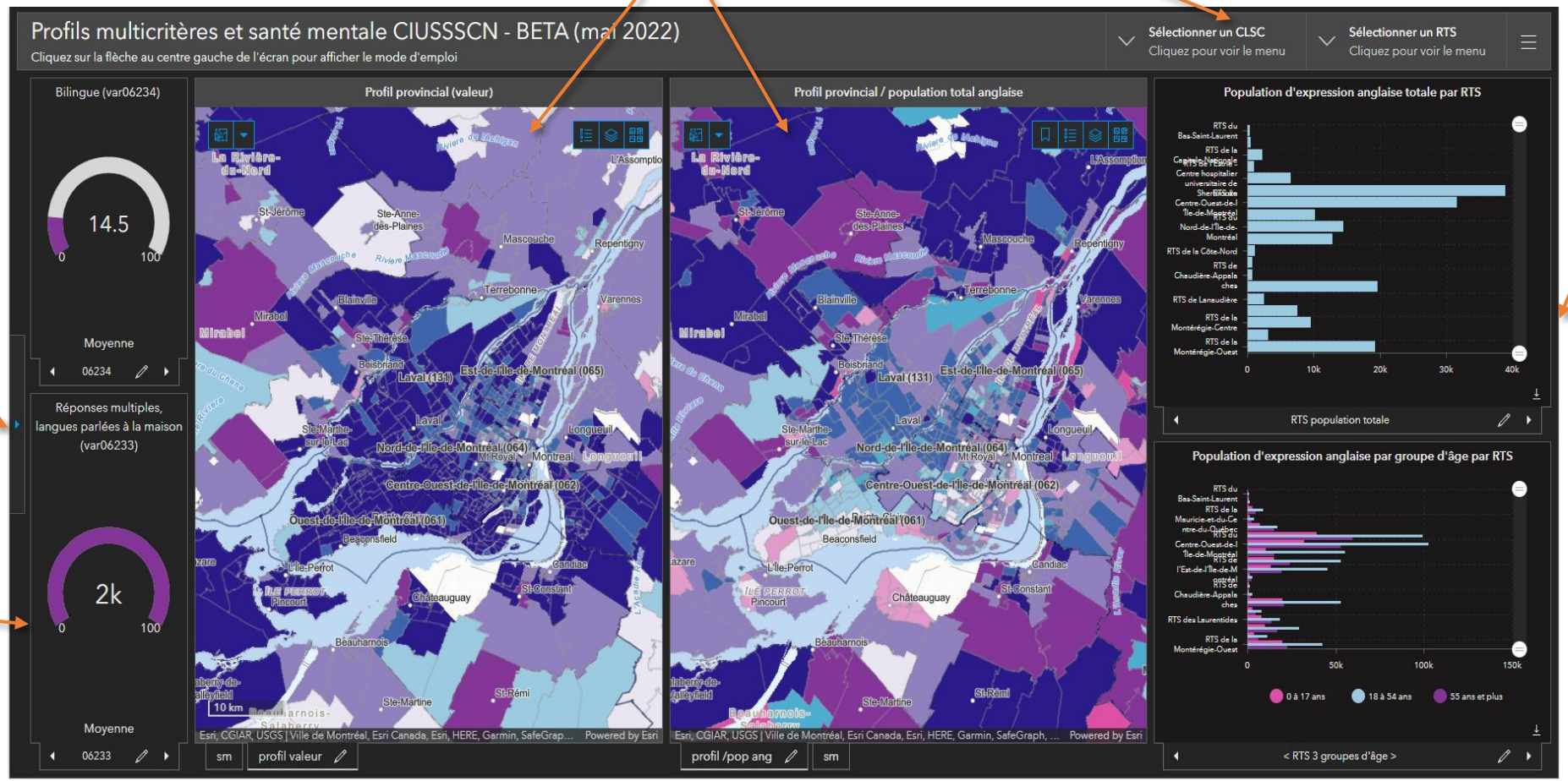
Designed to display multiple visualizations that work together on a single screen

Offer a complete view of your data and provide key information for at-a-glance decision making.

Composed of configurable elements, such as maps, lists, graphs, gauges, indicators and tables, and occupy 100% of the application's browser window.

Utilisation des services en santé mentale CIUSSSCN

Dashboard elements



Thank you!

jwarnke50@gmail.com l2bsigis@gmail.com

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Improving access through knowledge