

# Building a Data Portal for enhanced **Community Collaboration** and **Knowledge Mobilization**



 *Health Landscape*

Esri International User Conference

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Jené Grandmont, on behalf of Elisabeth Wells, PhD,  
Mark Carrozza, and Shelley Lothian, PhD

# Our Kids Network

A Halton-wide partnership of agencies and organizations  
that serve children and youth

## OKN Partners

Halton Children's Aid Society    ROCK Reach Out Centre for Kids

Halton District School Board    Halton Police Services

Halton Catholic District School Board    ErinoakKids

Halton Community Health and    Halton Multicultural Council

Children's Services

**Over 90 unique participating agencies**

**Three community Hubs: Acton, Aldershot and Milton**

# Knowledge Mobilization: the need for a Data Portal

## OKN's Community Data Reports

Neighbourhood level information about children, youth and families.

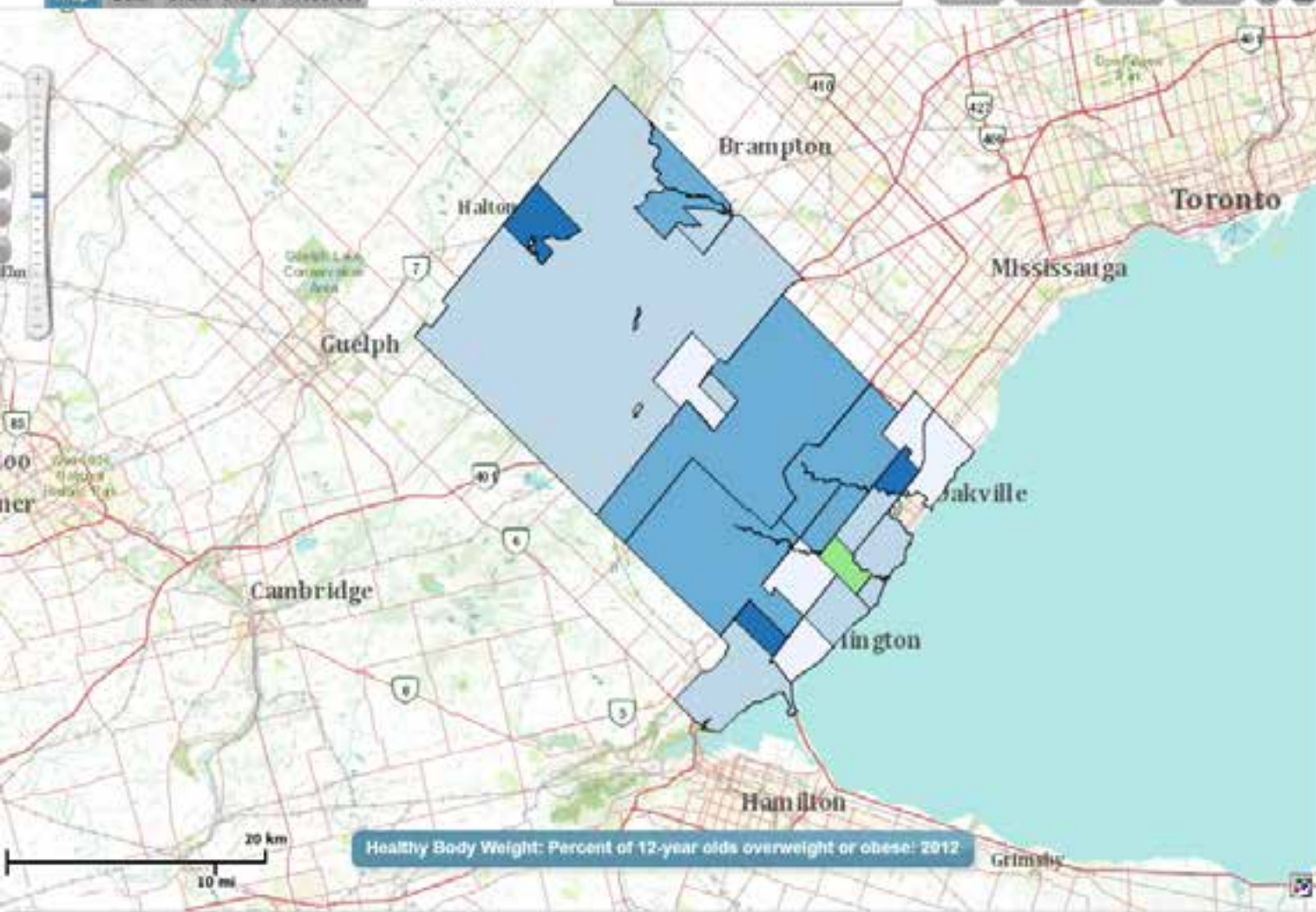
Service providers say: reports are easy to understand, full of excellent information.

But, how do they apply the information to make their own programs better?



A graphic consisting of three overlapping circles. A large orange circle is on the left, a large blue circle is on the right, and a smaller red circle is at the bottom center. The words "Data" and "Portal" are written in white, bold, sans-serif font. "Data" is positioned over the orange circle, and "Portal" is positioned over the blue circle, with the two words overlapping each other and the circles.

# Data Portal



Healthy Body Weight: Percent of 12-year olds overweight or obese: 2012



Show As  Thematic  Threshold

Color Scheme:  Palette:

Number of Categories:  Distribution:

Primary Indicator

Select a topic [search](#)

- |                              |                                |
|------------------------------|--------------------------------|
| <a href="#">Demographics</a> | <a href="#">Healthy</a>        |
| <a href="#">Learning</a>     | <a href="#">Connected</a>      |
| <a href="#">Safety</a>       | <a href="#">Families</a>       |
| <a href="#">Schools</a>      | <a href="#">Neighbourhoods</a> |

Select an indicator

- At-Risk Births [show all](#)
- Healthy Eating [show all](#)
- Healthy Body Weight [hide list](#)
  - Percent of 12-year olds overweight or obese [about](#)
- Physical Activity [show all](#)
- Mental Health [show all](#)

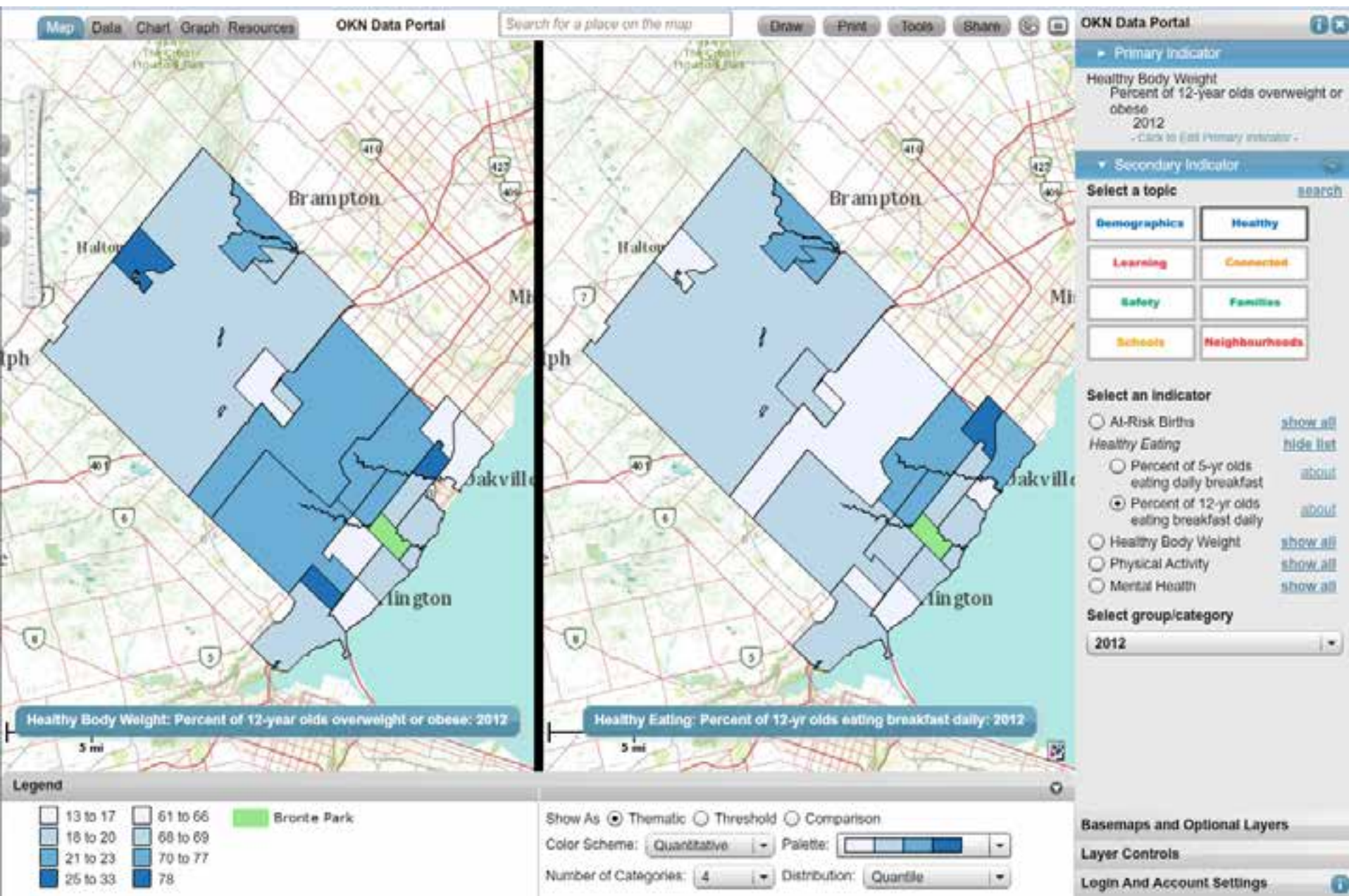
Select group/category

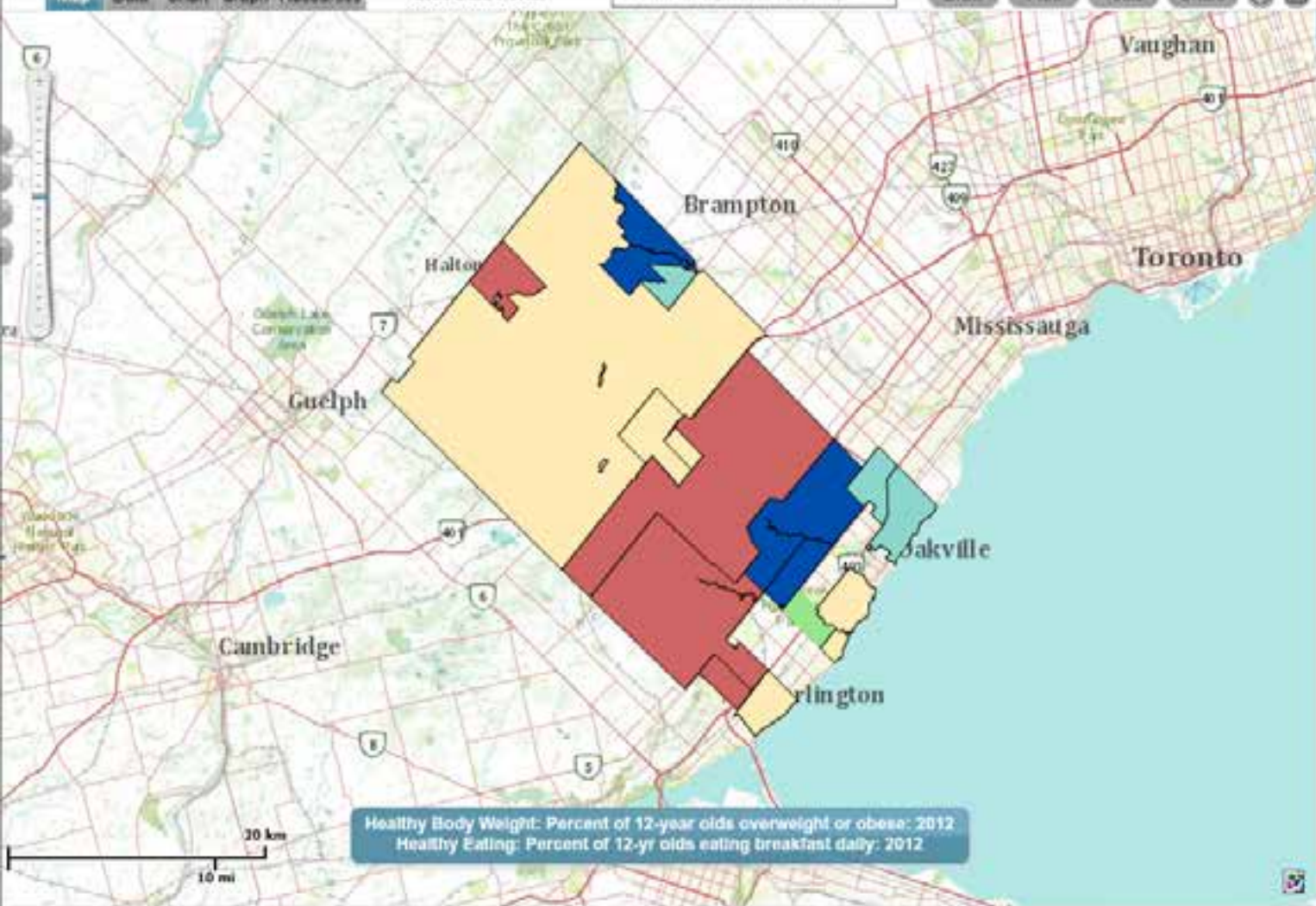
- Add Secondary Indicator -

Basemaps and Optional Layers

Layer Controls

Login And Account Settings





Healthy Body Weight: Percent of 12-year olds overweight or obese: 2012  
 Healthy Eating: Percent of 12-yr olds eating breakfast daily: 2012

Primary Indicator

Healthy Body Weight  
 Percent of 12-year olds overweight or obese  
 2012  
[Click to Edit Primary Indicator](#)

Secondary Indicator

Select a topic search

- Demographics
- Healthy**
- Learning
- Connected
- Safety
- Families
- Schools
- Neighbourhoods

Select an Indicator

- At-Risk Births [show all](#)
- Healthy Eating [hide list](#)
  - Percent of 5-yr olds eating daily breakfast [about](#)
  - Percent of 12-yr olds eating breakfast daily [about](#)
  - Healthy Body Weight [show all](#)
  - Physical Activity [show all](#)
  - Mental Health [show all](#)

Select group/category

2012

Legend

- High/High
- High/Low
- Low/High
- Low/Low
- Bronte Park

Show As  Thematic  Threshold  Comparison

Break Points  45 / 55 Percentile

Percent of 12-year olds overweight or obese: 2012: Less than 20.00 and over 21.00  
 Percent of 12-yr olds eating breakfast daily: 2012: Less than 68.00 and over 70.00

Basemaps and Optional Layers

Layer Controls

Login And Account Settings

Healthy Body Weight: Percent of 12-year olds overweight or obese

Export

Neighbourhood Name	2006	2009	2012
SE Oakville	17 %	22 %	14 %
NE Oakville	17 %	18 %	17 %
River Oaks	19 %	25 %	22 %
NC Oakville	28 %	28 %	25 %
SC Oakville	27 %	21 %	unavailable
Olen Acoey	22 %	29 %	20 %
NW Oakville	18 %	23 %	21 %
IW Oakville	26 %	23 %	20 %
SE Burlington	24 %	26 %	20 %
NE Burlington	10 %	21 %	16 %
NC Burlington	20 %	24 %	22 %
SC Burlington	18 %	21 %	15 %
Aldershot	21 %	28 %	19 %
NW Burlington	25 %	26 %	26 %
South Milton	23 %	23 %	21 %
East Milton	24 %	32 %	26 %

Primary Indicator

Select a topic

search

- [Demographics](#)
- [Healthy](#)**
- [Learning](#)
- [Connected](#)
- [Safety](#)
- [Families](#)
- [Schools](#)
- [Neighbourhoods](#)

Select an indicator

- At-Risk Births [show all](#)
- Healthy Eating [hide list](#)
  - Percent of 5-yr olds eating daily breakfast [about](#)
  - Percent of 12-yr olds eating breakfast daily [about](#)
- Healthy Body Weight [show all](#)
- Physical Activity [show all](#)
- Mental Health [show all](#)

Select group/category

2012

Healthy Body Weight  
Percent of 12-year olds overweight or obese  
2012  
[Click to Edit Primary Indicator](#)

Secondary Indicator

secondary indicator only exists on map

- HaltonID
- Neighbourhood Name
- 2006
- 2009
- 2012
- Benchmark
- Trend

About the data

**Description**  
Percent of 12-yr olds overweight or obese is based on the standards applied by the World Health Organization (WHO) using Body Mass Index (BMI) for age

**Source**  
Halton Youth Survey (HYS)  
<http://www.ourkidsnetwork.ca/Public/Home.aspx>

Basemaps and Optional Layers

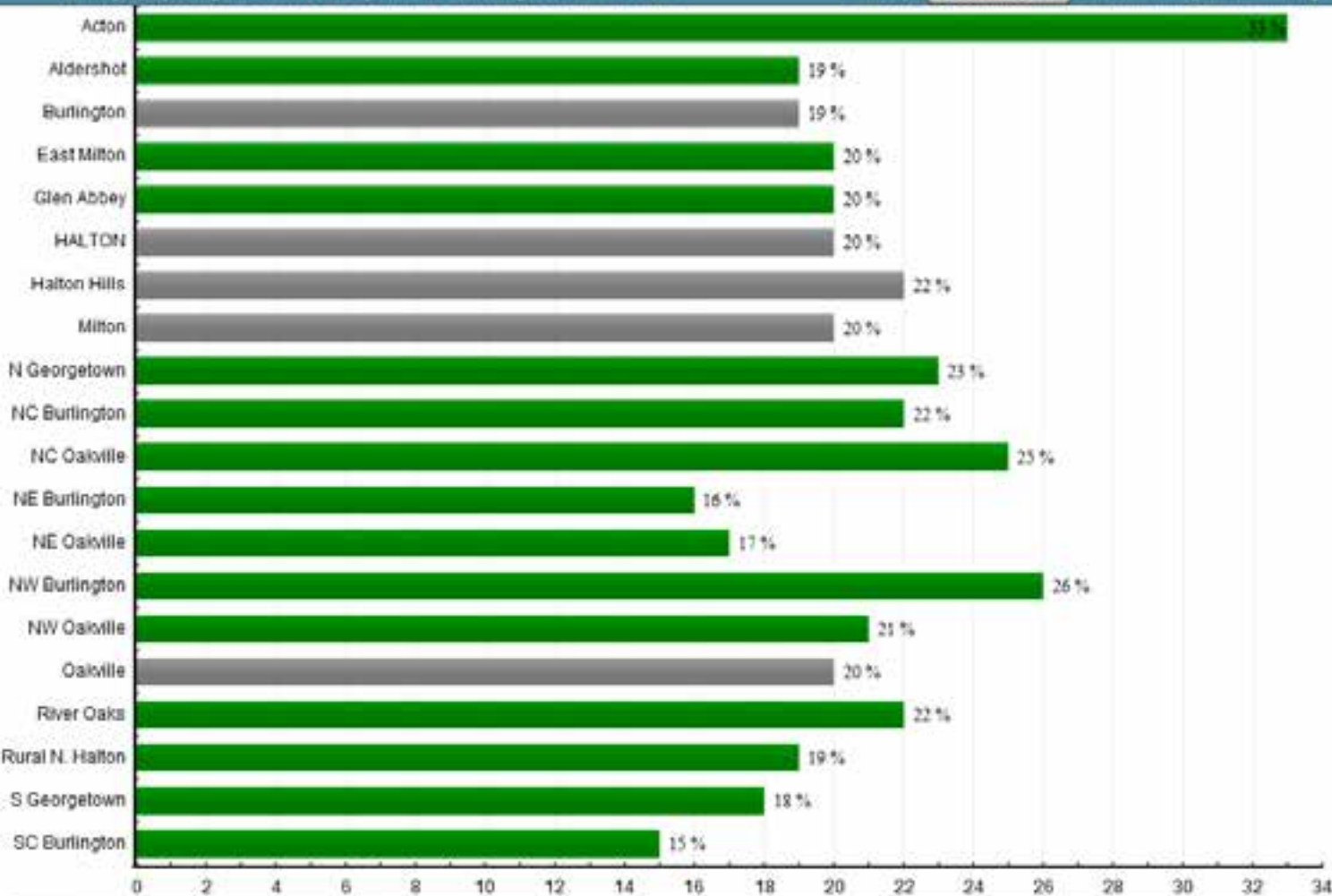
Layer Controls

Login And Account Settings



Healthy Body Weight: Percent of 12-year olds overweight or obese: 2012

Sort By: Area Name Sort Ascending or Descending



Primary Indicator

Select a topic [SEARCH](#)

- Demographics
- Healthy
- Learning
- Connected
- Safety
- Families
- Schools
- Neighbourhoods

Select an indicator

- At-Risk Births [show all](#)
- Healthy Eating [hide list](#)
  - Percent of 5-yr olds eating daily breakfast [about](#)
  - Percent of 12-yr olds eating breakfast daily [about](#)
- Healthy Body Weight [show all](#)
- Physical Activity [show all](#)
- Mental Health [show all](#)

Select group/category

2012

Healthy Body Weight  
Percent of 12-year olds overweight or obese  
2012  
[Click to Edit Primary Indicator](#)

Secondary Indicator

secondary indicator only available on map

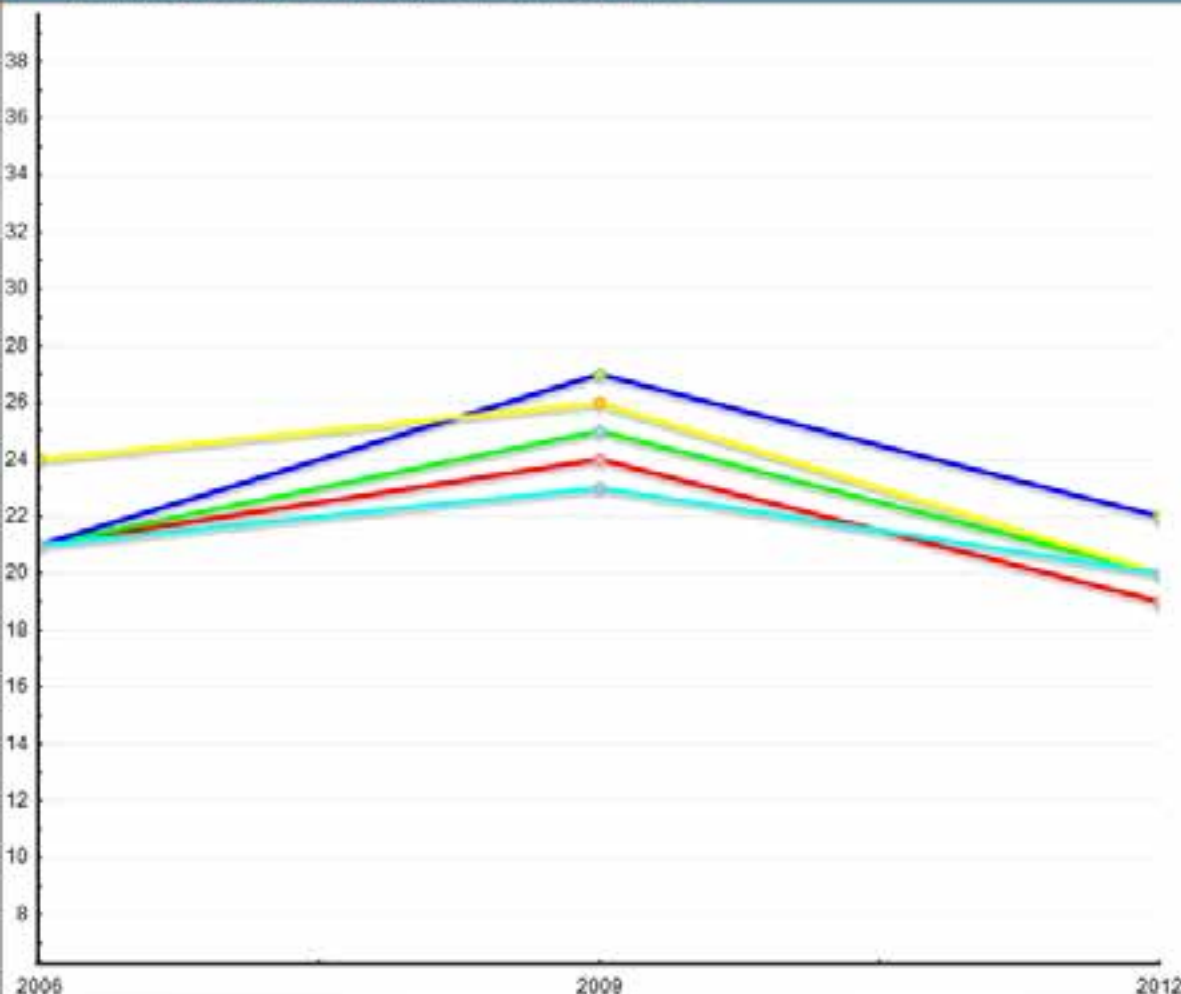
About the data

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**Source**  
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<http://www.okkidsnetwork.ca/Publit/home.aspx>

- Basemaps and Optional Layers
- Layer Controls
- Login And Account Settings

Healthy Body Weight: Percent of 12-year olds overweight or obese



- Sort Alphabetically [Clear All](#)
- SE Oakville
  - NE Oakville
  - River Oaks
  - NC Oakville
  - SC Oakville
  - Glen Abbey
  - NW Oakville
  - SW Oakville
  - SE Burlington
  - NE Burlington
  - NC Burlington
  - SC Burlington
  - Aldershot
  - NW Burlington
  - South Milton
  - East Milton
  - West Milton
  - Rural N. Halton
  - Acton
  - N Georgetown
  - S Georgetown
  - Burlington
  - HALTON
  - Halton Hills
  - Milton
  - Oakville

Primary Indicator

Select a topic [search](#)

Demographics	<b>Healthy</b>
Learning	Connected
Safety	Families
Schools	Neighbourhoods

Select an indicator

- At-Risk Births [show all](#)
- Healthy Eating [hide list](#)
  - Percent of 5-yr olds eating daily breakfast [about](#)
  - Percent of 12-yr olds eating breakfast daily [about](#)
- Healthy Body Weight** [show all](#)
- Physical Activity [show all](#)
- Mental Health [show all](#)

Select group/category

2012

Healthy Body Weight  
Percent of 12-year olds overweight or obese  
2012  
[Click to Set Primary Indicator](#)

Secondary Indicator

secondary indicator may be visible on map

Basemaps and Optional Layers

Layer Controls

Login And Account Settings

**About the data**

**Description**  
Percent of 12-yr olds overweight or obese is based on the standards applied by the World Health Organization (WHO) using Body Mass Index (BMI) for age

**Source**  
Halton Youth Survey (HYS)  
<http://www.oknhaltonnetwork.ca/Public/Mapa.aspx>

# Building the OKN Data Portal

Environmental  
scan

Community  
consultation

Pilot test

Engage  
Core  
Users

# Development

## Step 1: Environmental Scan

Reviewed over 200 digital Community Information Systems worldwide

Created a “wish list”

## Step 2: Community Consultations

Described project and objectives

Functional demonstrations and polling

Confirmed features, and importance of data literacy



# Pilot test

Randomly selected members of OKN committees

Experimental Group: In-depth demonstration (n = 11)

Control Group: No demonstration (n = 17)

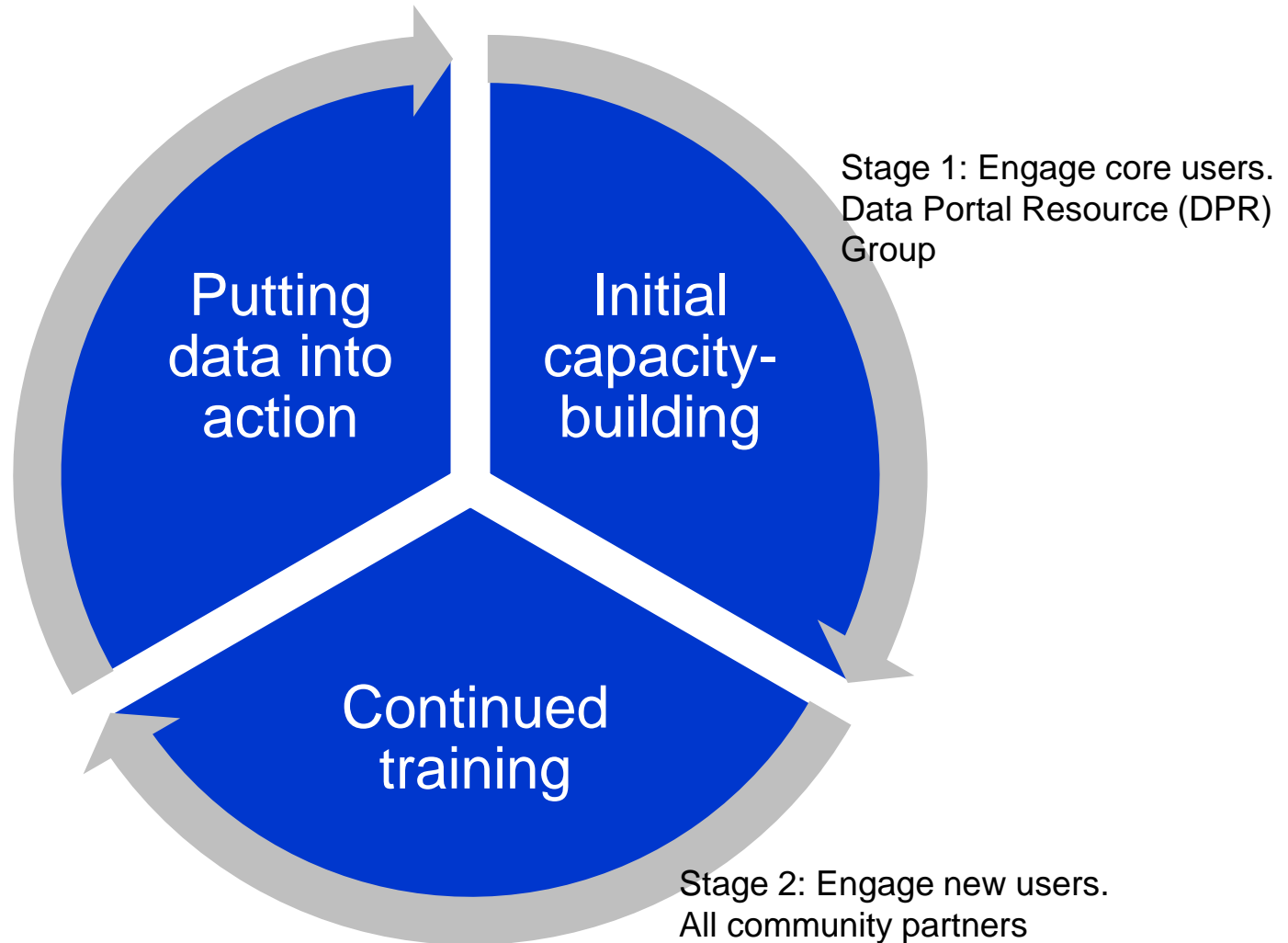
Introduced data portal, asked participants to explore and then complete a System Test

System Evaluation Survey

Focus Group



# Knowledge Mobilization plan



# Evaluation of initial capacity-building phase

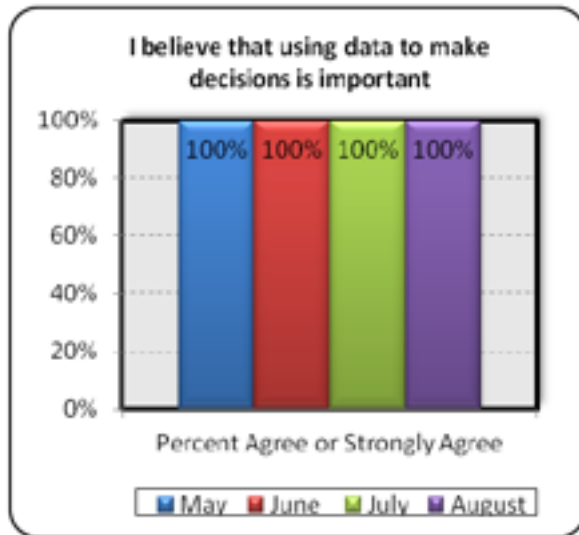
Recruited 34 community partners to act as Data Portal Resources (DPR) within their organizations

Participated in 3-hour training, and 3 monthly meetings

DPRs completed a self-assessment after initial training and after each monthly meeting

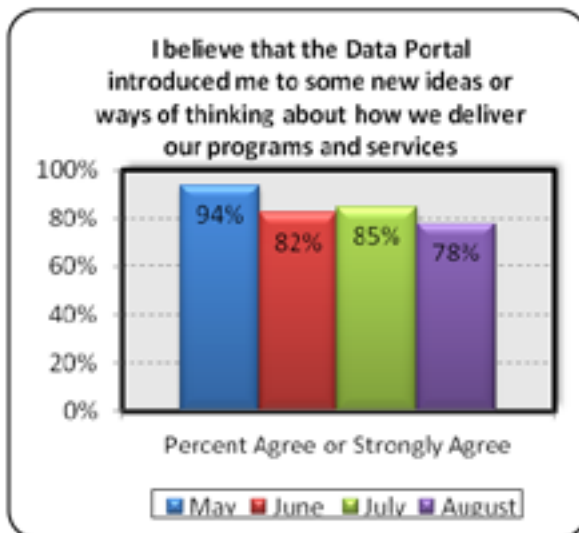
Assessed their: beliefs, confidence and behaviours

# Beliefs: Summary of findings



Beliefs about the importance of using data to make decisions is very strong

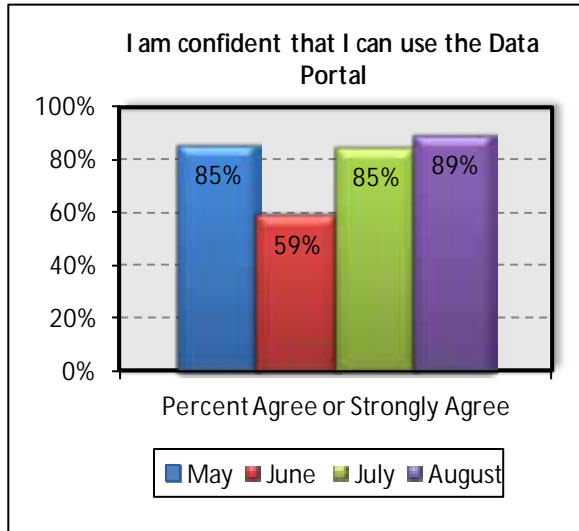
Beliefs supporting free and accessible data are very strong



The majority believed that the Data Portal introduced them to new ideas or ways of thinking about their programs

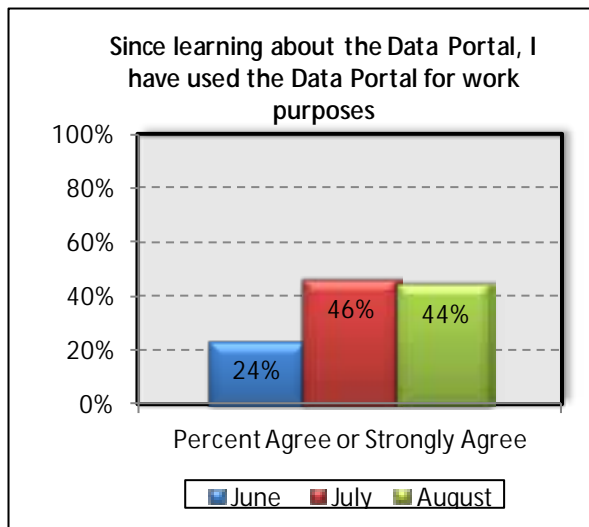


# Evaluation: Summary of findings




Confidence using the data portal is high immediately following training, but decreases one month later

Follow-up meetings were important for restoring confidence and maintaining the community of practice



Knowledge mobilization activities remained low in the short term

# Tools to support knowledge mobilization



**Data Conversation Tool**  
How to Turn a Map into a Story

This tool is provided to you as a resource in helping you use the Data Portal. To use the tool, simply follow the step by step instructions. Each step includes guided questions to help you understand the data, have meaningful conversations and help you tell a story using data. This tool is meant as an exercise to "roll up your sleeves" as it takes some work to make data meaningful. Just remember the data does not provide all the answers. It inspires conversation and discovery.

*An organization's results are determined through webs of human commitments born in webs of human conversations - Fernando Flores*

Step 1: Start with Why!	Why?
<ul style="list-style-type: none"><li>• What answers do you need?</li><li>• Why do you need those answers?</li><li>• Who needs those answers?</li><li>• How will you get your answers?</li></ul> <p><i>Hint to Ponder:</i> You don't need an advanced degree in statistics and a room full of computers to start asking data questions about your community and programs. Use what you learn to guide improvements.</p>	

Monthly meetings support collaboration and knowledge exchange

Building data literacy, in a non-data person way

Frameworks to support meaningful discussions about data

Sharing real examples



## How our community partners are using the OKN Data Portal

Identify locations for future service delivery

Map program users

Visualize caseloads

Evaluate if programs are meeting intended audience

# Lessons learned

Importance of testing and staged implementation

Can't work in isolation

Service providers respect data and are cautious with interpretations, but don't want to get bogged down in stats



**Thank you!**

**Questions?**

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