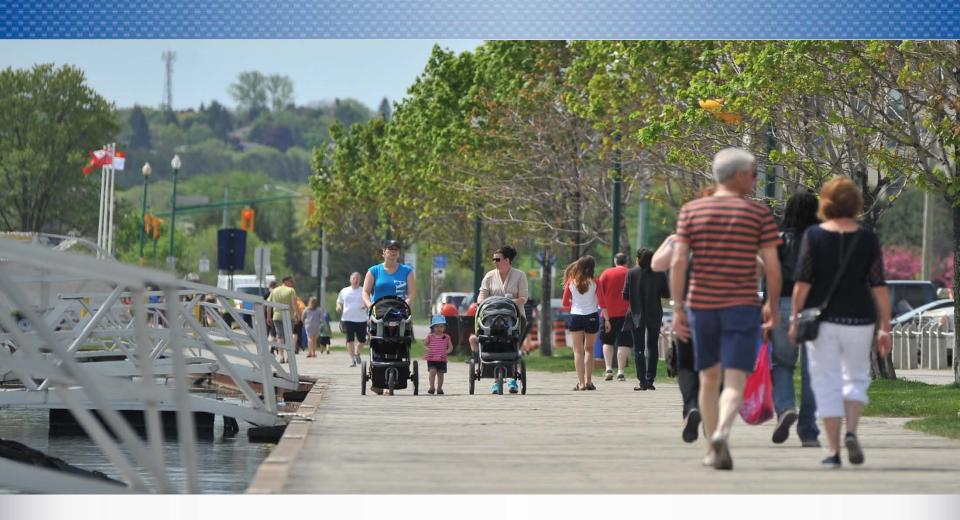
# **Building Healthier Neighbourhoods** in Barrie

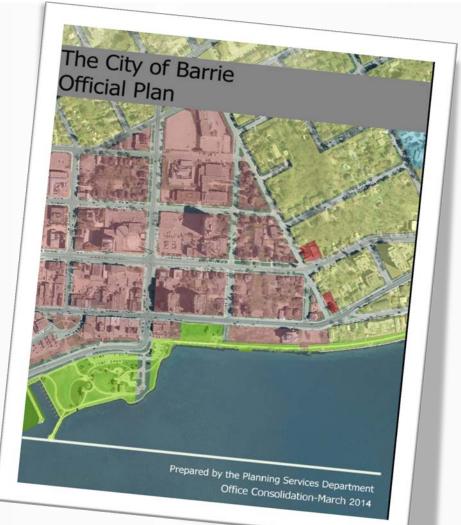


Charles Gardner, MD, CCFP, MHSc, FRCPC Medical Officer of Health



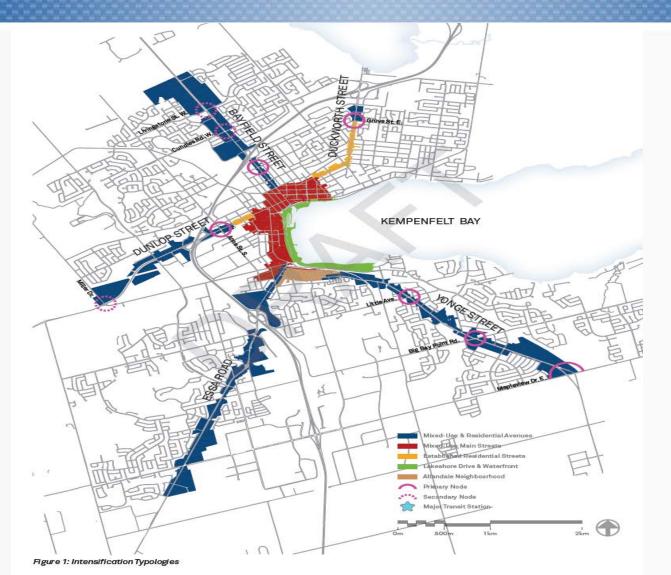
#### The City of Barrie

Barrie
 has a visionary
 Official Plan...



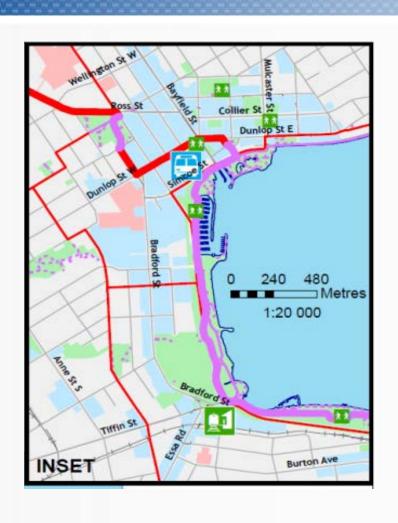


### **Urban Design Guidelines**





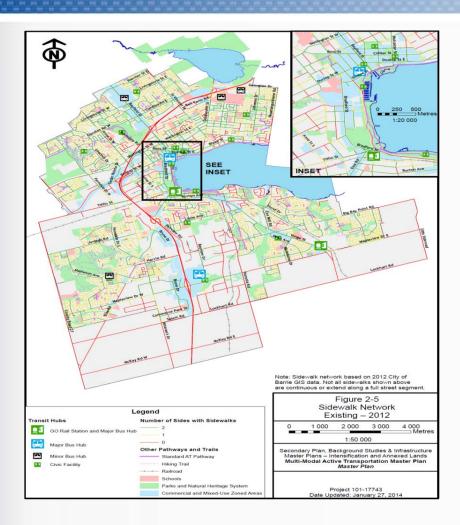
### 20 years - for cycling...







#### ...and for walking







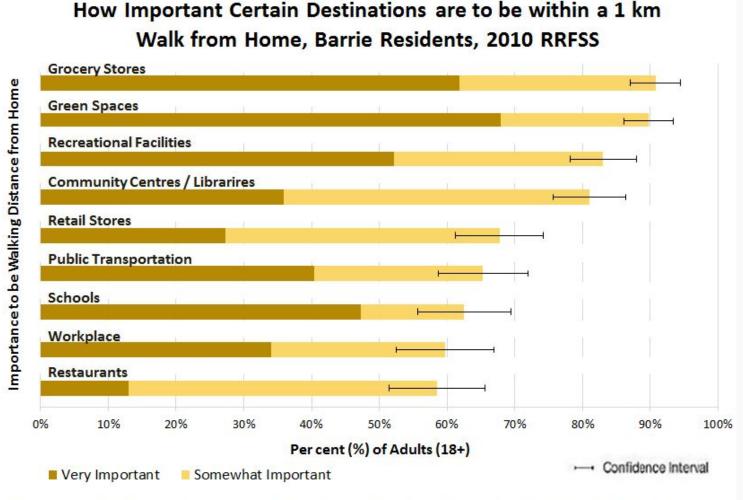
#### Mixed land use - good for health



Figure 2: Mixed-Use and Residential Avenue Rendering
The Mixed-Use and Residential Avenues should evolve into street-oriented, mixed-use development at a low to mid-rise scale.



#### **Public Desire for Access**

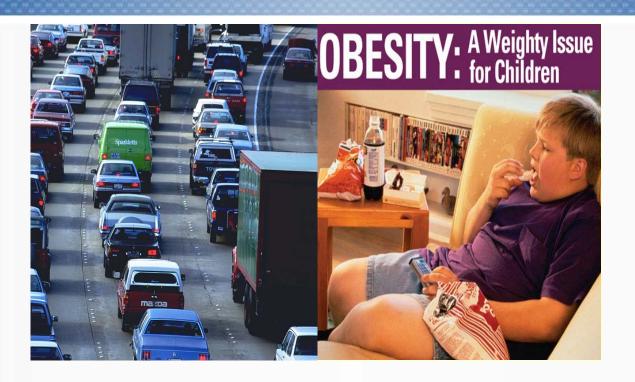


Data Sources: Rapid Risk Factor Surveillance System (RRFSS), Cycles 5-6 (May - Dec, 2010). Simcoe Muskoka District Health Unit. Data collected on

behalf of the health unit by the Institute for Social Research (ISR) at York University, Toronto, Ontario, Sample Size = 200



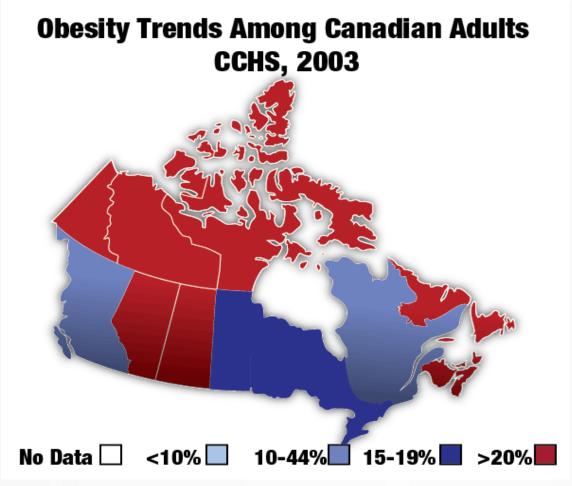
#### Community design is a health priority



Many of our health challenges are related to how we have built our communities.



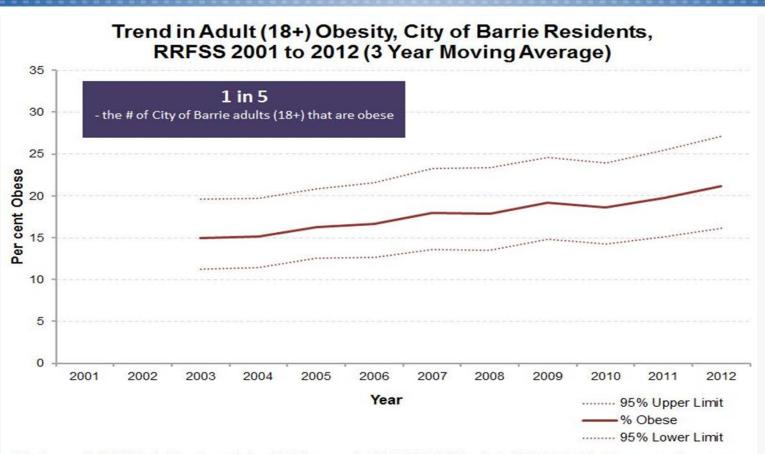
#### **Dramatic Increase in Obesity**







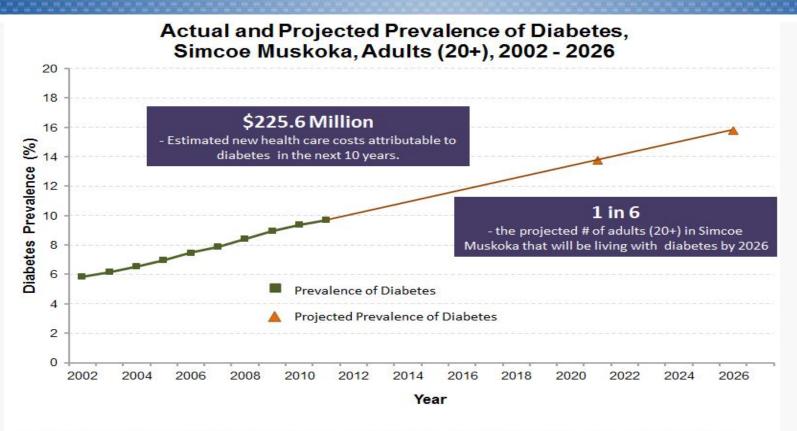
#### **Increasing Obesity in Barrie**



Data Sources: Rapid Risk Factor Surveillance System (RRFSS), waves 1 - 96 (2001 to 2008) & cycles 1-12 (2009 to 2012). A three-year moving average of the point estimates and confidence intervals was used to smooth the trend line. Simcoe Muskoka District Health Unit. Data collected on behalf of the health unit by the Institute for Social Research (ISR) at York University, Toronto, Ontario.



#### Increasing Diabetes in Simcoe Muskoka



Data Source: Ontario Diabetes Database (2011). Institute for Clinical Evaluative Sciences (ICES). Toronto, Ontario, 2013. Rosella LC et al. 2010. A population based risk algorithm for the development of diabetes: development and validation of the Diabetes Population Risk Tool (DPoRT). J Epidemiology Community Health, doi:10.1136/jech.2009.102244. Suvey data from the Canadian Community Health Survey (CCHS), Statistics Canada, Annual Content (2011/12). Ontario Share File, Distributed by the Ontario Ministry of Health and Long-Term Care.



#### Physical activity reduces...

- Heart disease
- Falls and injuries
- Obesity
- High blood pressure
- Adult-onset diabetes
- Osteoporosis
- Stroke
- Depression
- Colon cancer
- Premature death





#### **Air Quality**

 Increasing health impact estimates – OMA estimate in 2009 of 9,500 deaths annually in Ontario

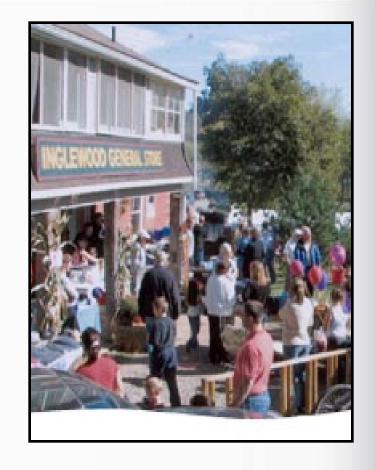
 Over 350 deaths annually in Simcoe Muskoka





#### Physical Activity- Walkable Communities

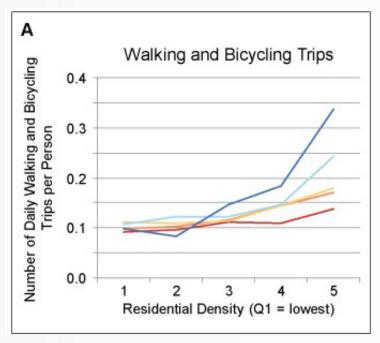
An analysis of studies in 6
 communities found that on
 average, residents in highly walkable neighbourhoods took
 twice as many walking trips as
 people in less walkable
 neighbourhoods. Most of the
 increase was due to walking for
 errands or to go to work.[1]



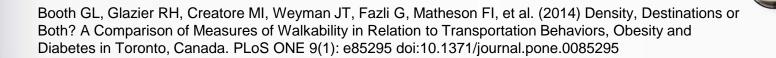


#### Walkable destination in Ontario

Transportation Behaviors and Health Outcomes by Residential Density and Availability of Walkable Destinations.

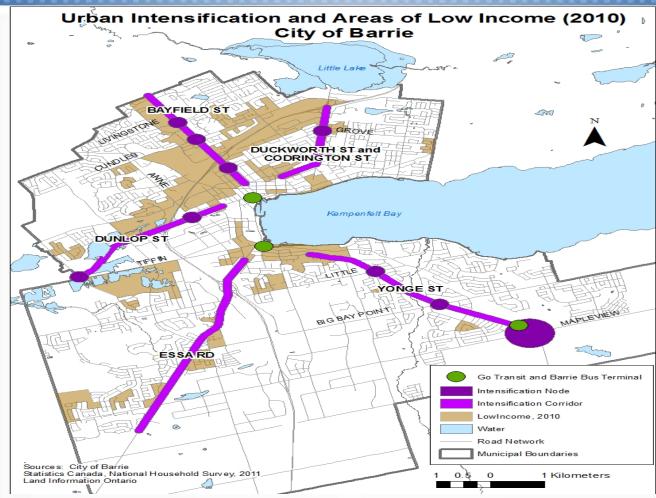








#### Walking Access for Lower Income People





# A healthy community provides opportunities...

- For people to walk and cycle to work.
- For children to be able to walk and bike safely to school.
- To be connected to parks, other neighbourhoods and trails.
- To enjoy the natural environment such as water, farmland and green space.
- To have access to healthy foods that are fresh and affordable in every neighbourhood.
- To have sidewalks, pathways, trails and bike lanes that are inviting, accessible, safe and connected to amenities and public transit.
- For connection to community gathering places.
- Has sufficient density to support all of this.





#### Whether you are 8 or 80...





...you need walkable access to services in every neighbourhood...



#### **Final Thoughts**

## Mixed Use Design and a Healthier Barrie

- Community design is important for people's health.
- People are more active and healthier in neighbourhoods with amenities in walking distance.
- Barrie has excellent plans for healthy, complete neighbourhoods.



