State of the Federation Conference Kingston, June 5, 2015

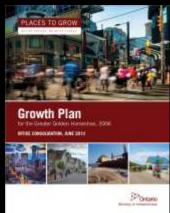
DISTORTED INFRASTRUCTURE

Pamela Blais PhD RPP MCIP

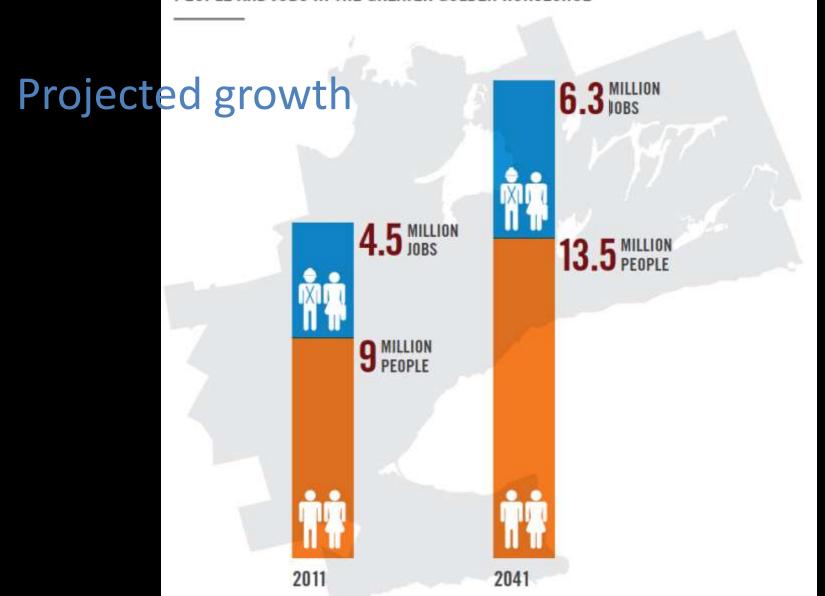
METROPOLE Consultants

GREATER GOLDEN HORSESHOE





PEOPLE AND JOBS IN THE GREATER GOLDEN HORSESHOE



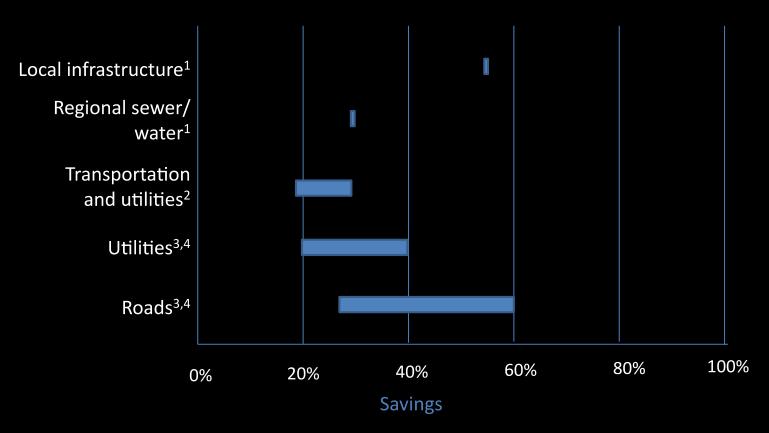
PLANNING AIMS AND INFRASTRUCTURE

The Growth Plan and infrastructure

- Optimize the use of existing and new infrastructure to support growth in a compact, efficient form
- Better use of land and infrastructure can be made by directing growth to existing urban areas.
- Concentrating new development in these areas also provides a focus for transit and infrastructure investments to support future growth.

Urban form to support efficient infrastructure

INFRASTRUCTURE COSTS VARY WITH URBAN FORM

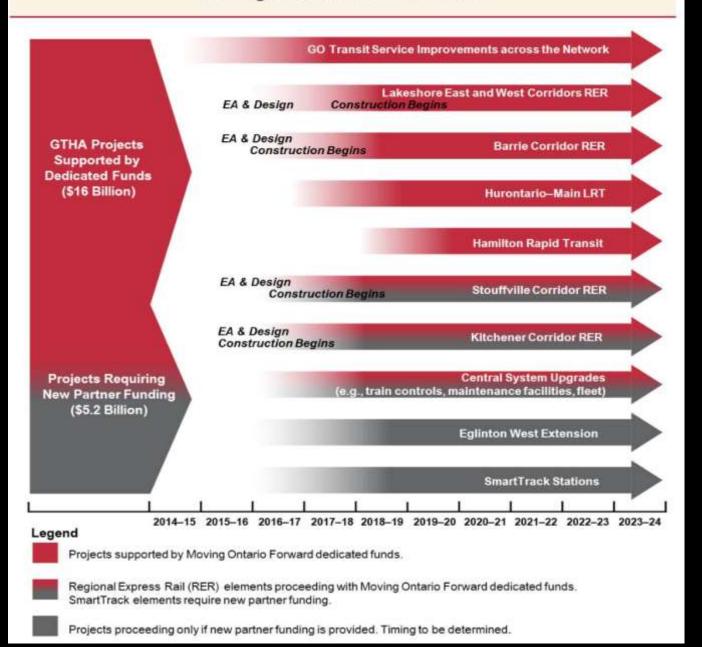


20 – 60% savings on infrastructure with compact urban form

Urban form to support transit investment

- 2015 Ontario budget: \$130 billion/10 years
 - \$31.5 transit & transportation
- The Big Move 25 year plan
- RER/GO electrification \$13.5 billion
- Mississauga LRT
- Waterloo LRT \$1.9 billion
- Hamilton LRT \$1 billion

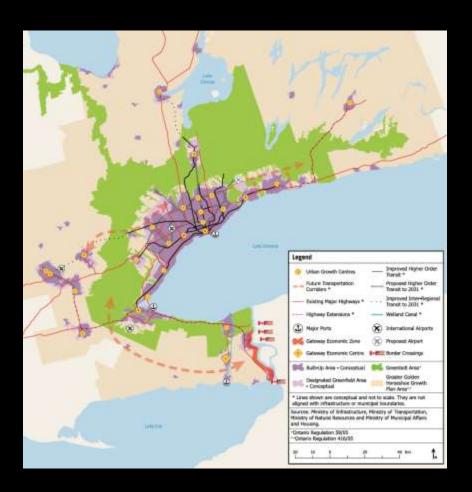
Moving Ontario Forward – GTHA





PLANNING APPROACHES

- Urban growth centres
- Minimum density targets
 - UGCs
 - greenfield development
- Intensification target



PROBLEMS WITH PLANNING

It's slow

PERFORMANCE INDICATORS

PLACES TO GROW GREATER GOLDEN HORSESHOE, 2006

FOR THE CROWN HORSESHOE, 2006

"It is still early days"

Official Plan conformity

Supra-regional plan

Regional plan

Municipal plan



Official Plan conformity 2015

Supra-regional plan

Regional plan

Municipal plan





Meanwhile, growth in the suburbs

GROWTH GGH 2006 - 2014

880,000

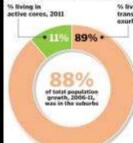
GROWTH CMA 2006 - 2011

Active core = 52,000

Transit suburbs = 26,000

Auto suburbs = 390,000

Cities' growth is in the suburbs



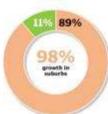
% living in auto suburbs, transit suburbs and exurban areas, 2011

Toronto:

2001 regional population: 5,583,064

If in the '416' area, 68% of the growth is in active cores and transit suburbs.

I in the '905' area, 99% of growth is in the auto and exurban areas.

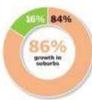


Montreal:

3,824,221

B About 50,000 more people now live off the Island of Montreal than on it.

If Exorben areas grew by 18,500 people from 2006-31, the largest increase of any region.



Vancouver:

2,274,329

I in City of Vancouver, 88% of growth is in core and transit areas

I in surrounding region it's apparate: 87% of growth is in auto and exurban areas.



Ottawa-Gatineau:

1,236,324

I Growth in transit and core areas (7%) was greater than Montreal (4%) but less than Vancouver (25%) or Toronto (17%).

In City of Ottawn in 2012: 528,900 people inside the Greenbelt and 405,300 outside the Greenbelt and in rural group.



Calgary:

1,214,83

 Fastest growing region in Canada from 2006-2011 (136,000 or 12.6 %).

B Least growth among major cities in transit and core areas (4,100 people or 3%).



Edmonton:

1,159,869

I Canada's second-fastest growing region: from 2006-11 graw by 125,000 or 12 %.

Crowth in cores and transit suburbs (8,300) is lower than Toronto but higher than Calgary.

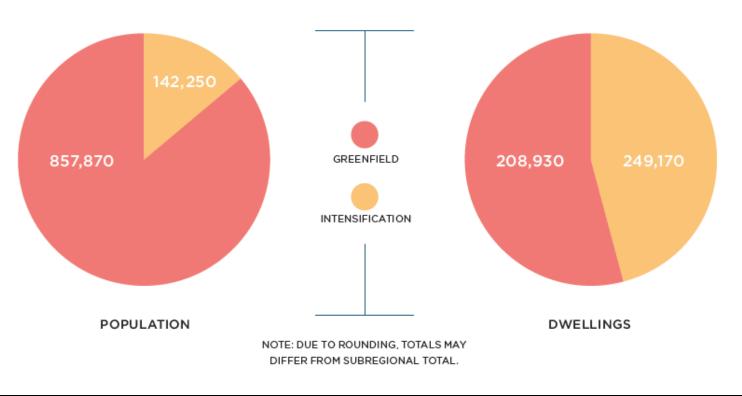
Source: David Gordon, Queen's University



It has been of questionable effectiveness

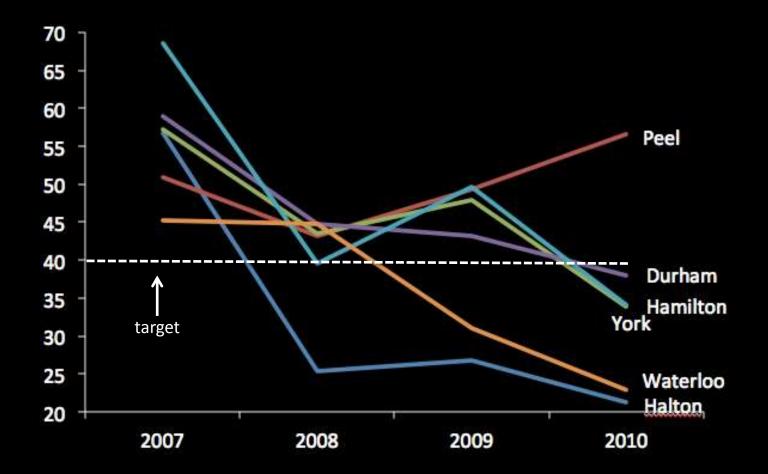
FIGURE NO. 7

NET GAIN IN POPULATION AND DWELLINGS, GTHA, 2001-2011



Growing Pains, Neptis Foundation, 2015





Intensification Rates 2007-2010

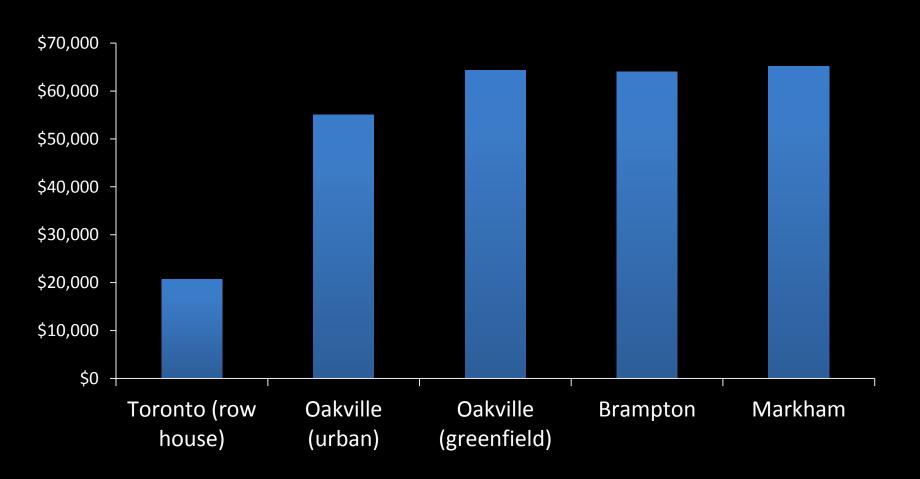
Performance Indicators: region-wide: 60% w/o Toronto: 44%

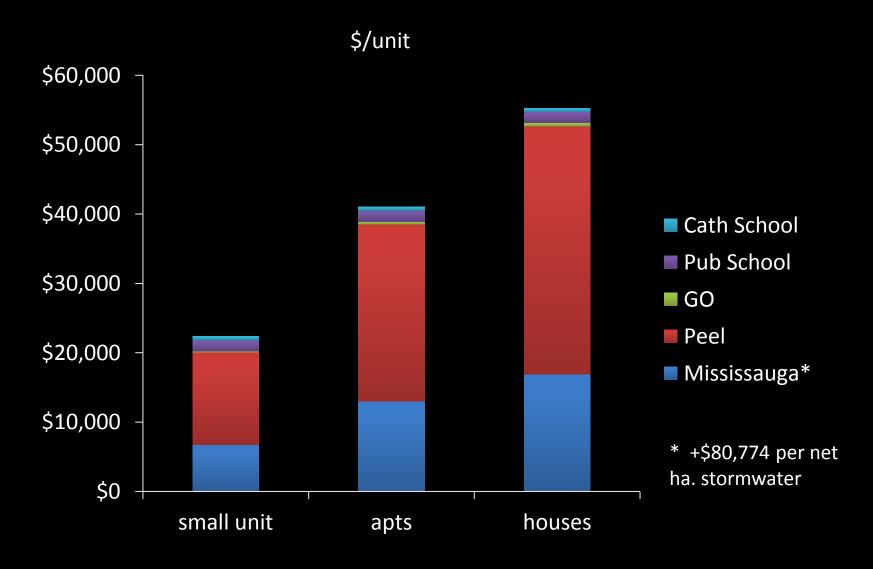
It's undermined by public sector (mis)price signals

That subsidize inefficient development

- Economics 101: prices should reflect costs for efficient allocation of resources
- Urban context: public sector "prices" should reflect costs, which vary with
 - density
 - location
 - type of land use

DEVELOPMENT CHARGES IN SOME TORONTO AREA CITIES \$/ SINGLE DETACHED UNIT





Current development charges: residential

New suburban house



30' lot Upper tier DC = \$31,000 DC = \$1,033 per front foot

New suburban house

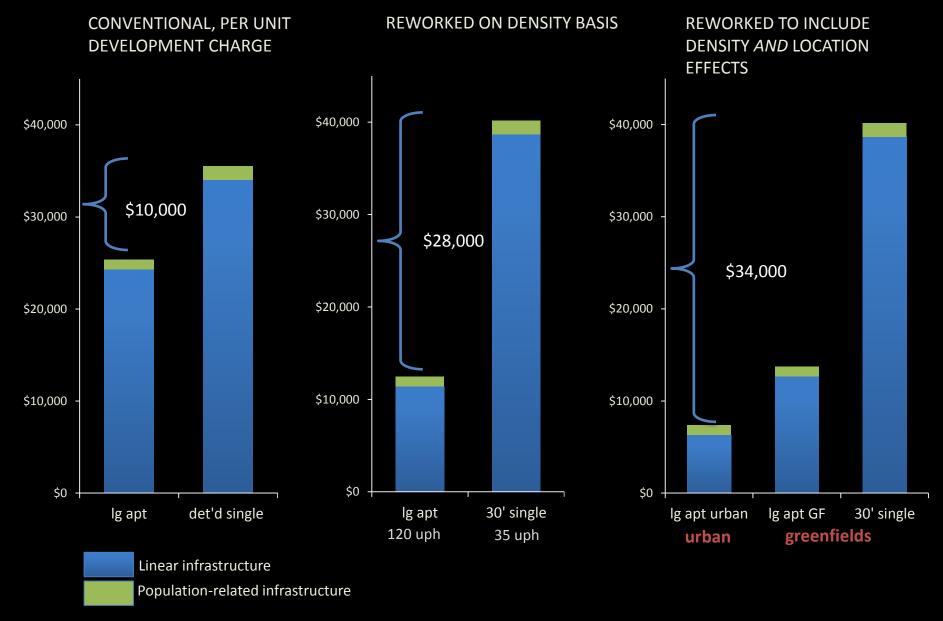


60' lot Upper tier DC = \$31,000 DC = \$516 per front foot

Development charges do not account for effect of density on cost



or how infrastructure costs vary with location



Reflect the effects of density and location on costs













Mispricing



overspending on municipal infrastructure

Urban



28' wide lot \$625,000 Property taxes = \$7,400 pa Share network services: \$2,812

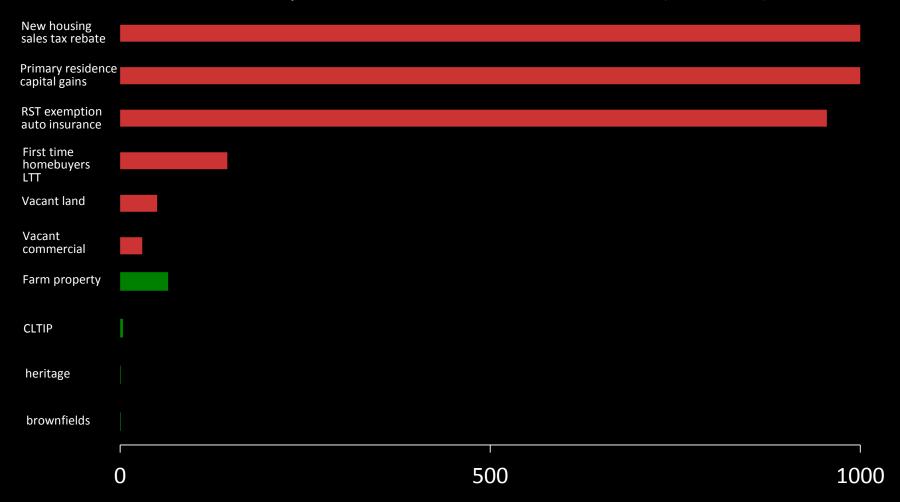
Tax paid per frontage foot: \$100

Suburban



Property taxes are unrelated to costs

Select tax expenditures, Province of Ontario, 2011 (\$ millions)



Duelling subsidies

Public sector policies result in the underpricing of inefficient development and the overpricing of compact, sustainable development

Financial disincentives:

- denser development
- reurbanisation/infill
- multi-unit buildings



Financial incentives:

- low density
- greenfields



What are public sector price signals saying?



"It's what people want"

But decisions are governed by prices, and prices are distorted by public policy

Incentives matter...
public sector "prices" affect outcomes

- Infrastructure costs vary with urban form
 - density
 - location
 - type of land use
- Prices set in the public sector should reflect these variations
- Consider impact of tax structures
- An efficient, undistorted market will deliver compact urban form and efficient infrastructure

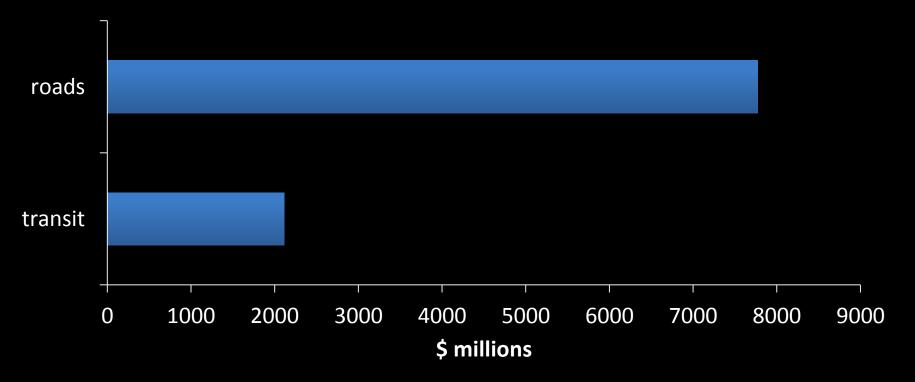
Getting the prices right



- User fees
- Property tax
- Development charges
- Federal and provincial taxes
- Homeownership incentives

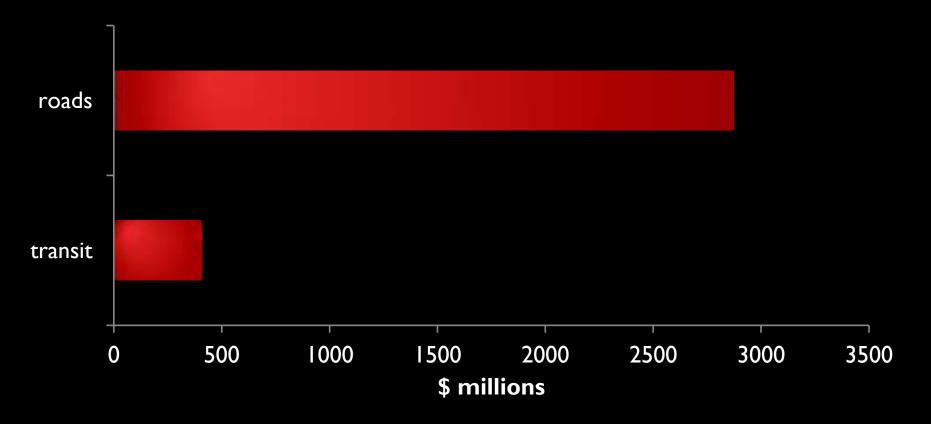
Not only how we raise the money, but how we spend it

Duelling subsidies: spending on roads and transit



York Region Growth-Related Capital Spending

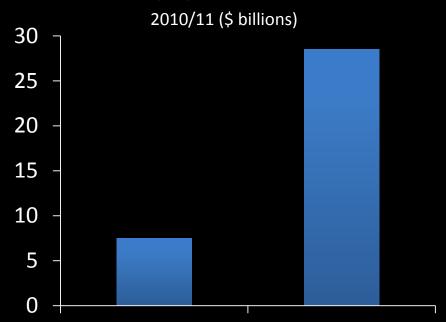
Fed/prov grants



York Region Growth-Related Capital Spending



GOVERNMENT SPENDING ON TRANSPORT IN CANADA



We haven't yet made the spending shift

In conclusion...

Growth Plan undermined by public sector (mis)price signals that subsidize inefficient development And misinvestment

Urban development patterns not achieved Resulting in overspending on infrastructure (20-60%)... and/or possibility of underperforming infrastructure investments (esp. transit)

Planning necessary but not sufficient

Need to pay more attention to the effect of public sector "prices" on broader policy objectives

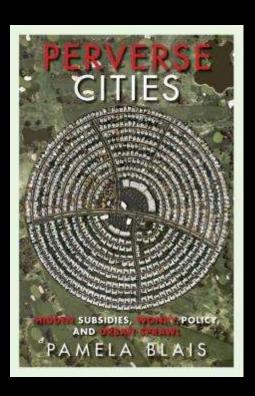
Pricing can be used to (more efficiently?) achieve planning objectives

Need to consider how infrastructure investments work together in actual urban environments and

What spending shifts might be needed to realise policy objectives

Thank you!

www.perversecities.ca www.metropoleconsultants.com



- Municipal inf investments are multidimensional
- Shape urban development patterns and travel demand
- Environmental outcomes
- Economic development role
- Need to be considered multidimensionally