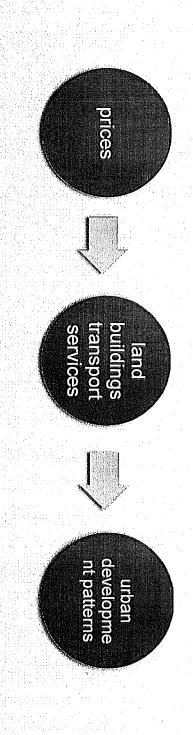


Price Check!

City of Hamilton Public Works Committee November 7, 2011 Pamela

Blais METROPOLE Consultants

Prices drive development patterns



Urban goods and services

- Land
- Buildings
 - incl. mortgage costs, insurance...
- Transport
 - roads, autos, transit, gas/fuel, insurance, parking...
- Services and Utilities
 - road maintenance, snow clearance...
 - garbage and recycling
 - water, sewer, stormwater
 - phone, cable, electricity, gas, postal...

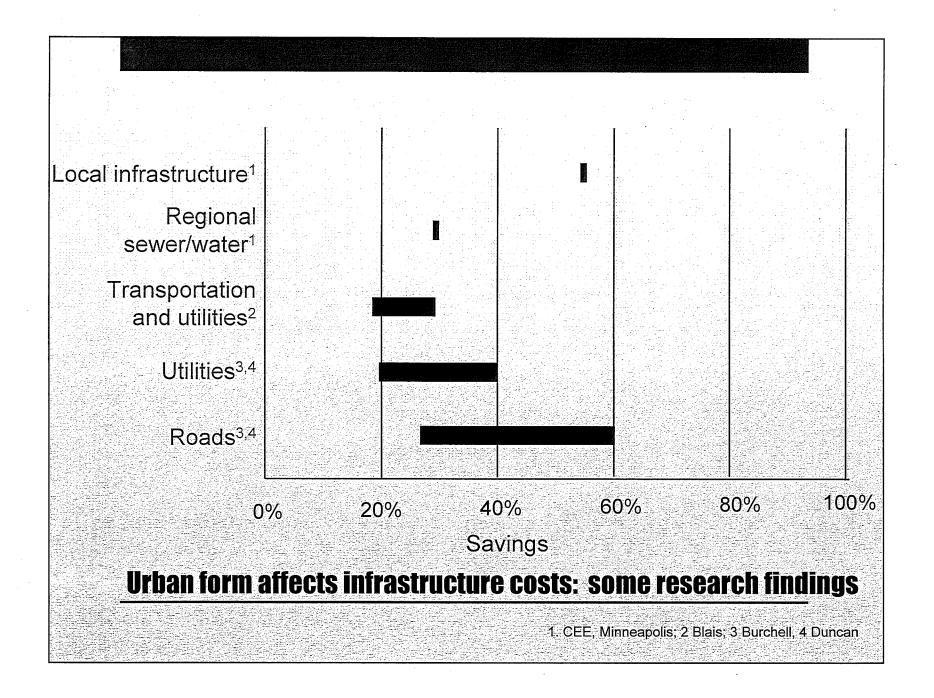
Prices

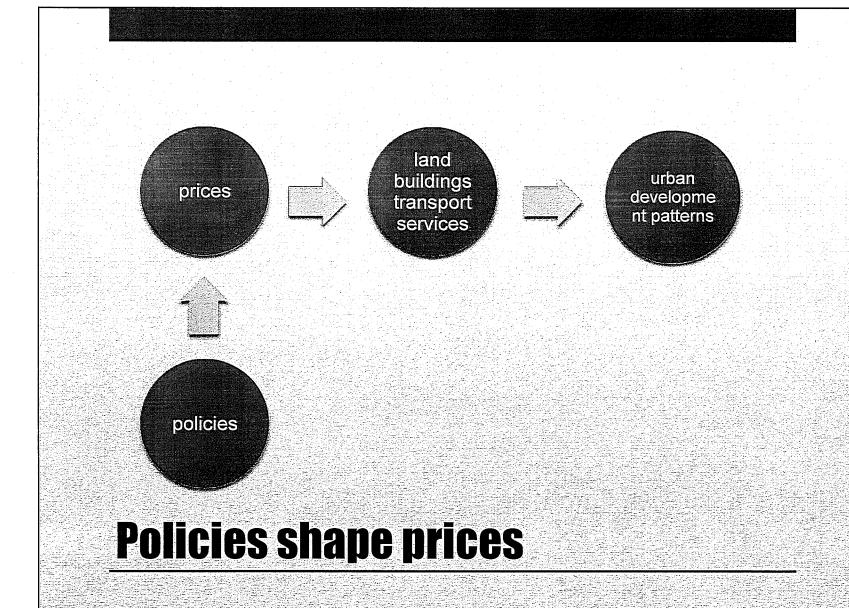
- Property price/rents
- Mortgage interest
- Mortgage insurance
- Utility rates
- User fees
- Property taxes
- Transportation costs
 - Auto insurance
 - Gas and fuel
 - Parking
- Etc.

Prices for urban goods and services

- For economic efficiency, prices must reflect costs accurately
- Costs of urban goods and services vary with urban form factors, e.g.
 - Location
 - Density
 - Use
 - Context

Economic efficiency





Prices

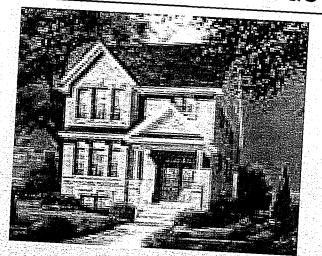
- Property price/rents
- Mortgage servicing
- Mortgage insurance
- Utility rates
- User fees
- Property taxes
- Car costs
 - Auto insurance
 - Gas and fuel
 - Parking

Policie

- Development charges
- Federal, provincial tax policy
- Property tax structures
- Homeownership programs
- Mortgage policy
- Infrastructure grants
- Energy subsidies
- Fuel taxes
- Bundled goods

Policies shape prices

New suburban house



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

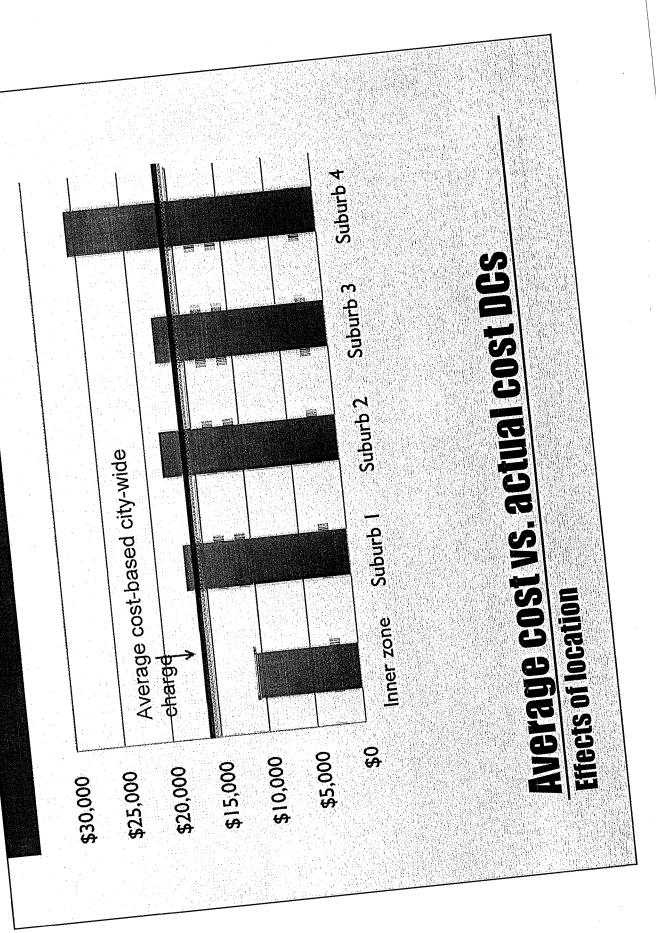
New suburban house

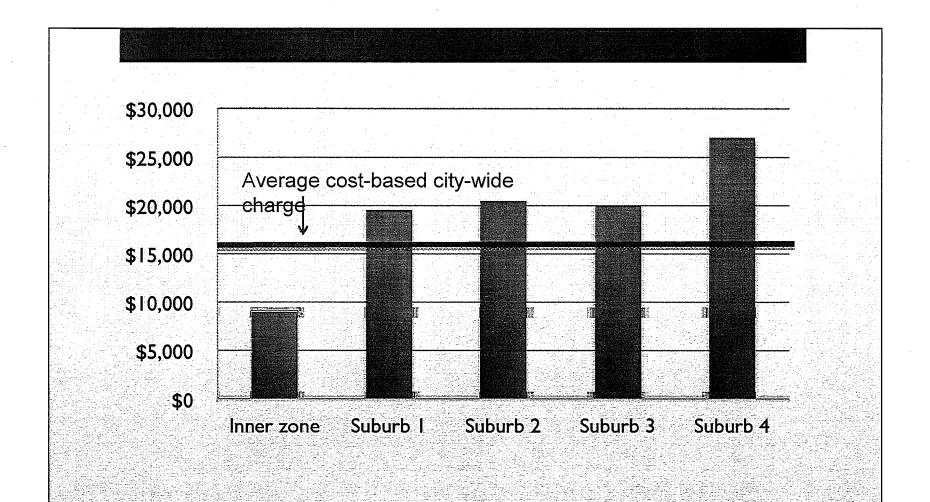


60' lot
Upper tier DC = \$31,000
DC = \$516 per front foot

How policies shape prices

Example 1: DCs



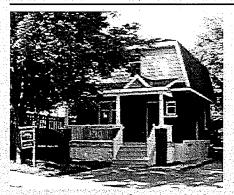


Average cost vs. actual cost DCs

Effects of location + density (illustration)



Urban



28' wide lot \$625,000 Property taxes = \$7,400 pa Share network services: \$2,812 Tax paid per frontage foot: \$100

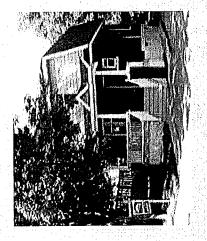
Suburban

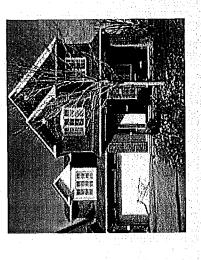


54' wide lot \$408,000 Property taxes = \$4,750 pa Share network services: \$1,805 Tax paid per frontage foot: \$33

How policies shape prices

Example 2: Property taxes





- "Prices" (taxes) unrelated to actual costs
- Assume costs/front foot are equal for 2 properties:
- Urban property pays taxes at rate 3X suburban property for network infrastructure
- Implicit cross-subsidy from high-value to low-value, ie often central to suburban

How policies shape prices

Example 2: Property taxes

- DCs
- Property taxes
- Road use
- "Free" parking
- Utilities water rates, gas, hydro, cable, internet etc.
- Homeownership programs
- Policies and prices that ignore urban context

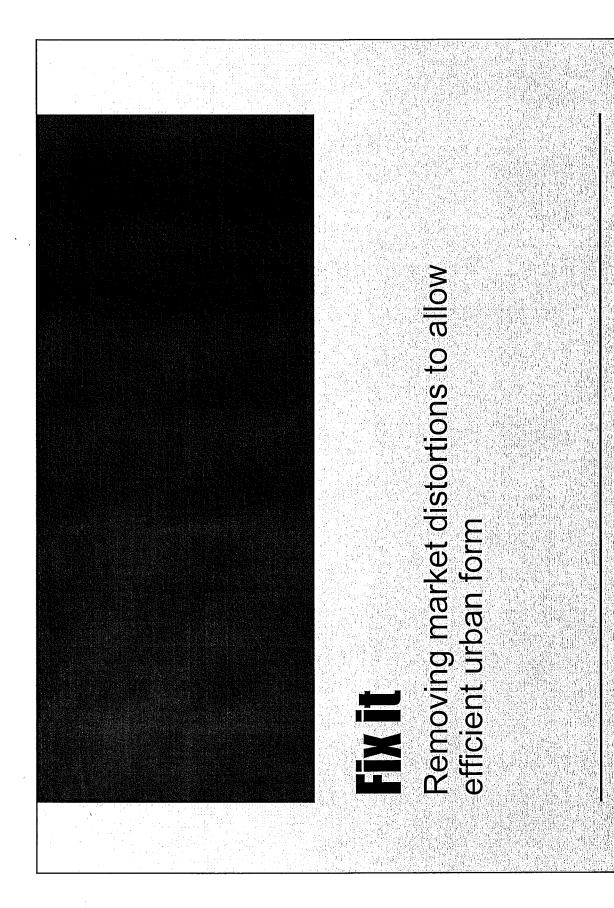
Mispricing around urban development is common

- Policies mean "prices" don't reflect costs accurately
- Remove potential for accurate price signals to inform decision-making, ensuring efficient outcomes
- Uniform DCs make developers indifferent to real cost variations
- Distortions reflected in market prices:
 - Efficient development overpriced/inefficient underpriced
 - Price differentials that should exist between efficient and inefficient development are eliminated
- Affects consumer and business owner decisionmaking

Distorted pricing = distorted decisions

- "Artificial incentives to sprawl / disincentives to denser, more efficient forms
- Directly contravenes and undermines planning policy, weakening its impact
- Inefficient urban development patterns mean overspending on infrastructure: direct link between mispricing and overspending
- Opportunity costs of overspending on dumb infrastructure re competitiveness, quality of life, sustainability...
- Implicit cross-subsidies raise issues of fairness and equity, choice and informed decision-making
- Cost impacts for affordable housing
- We have sprawl because that is what people want and the market is simply responding to demand

Some Implications



By dwelling type

+ special areas

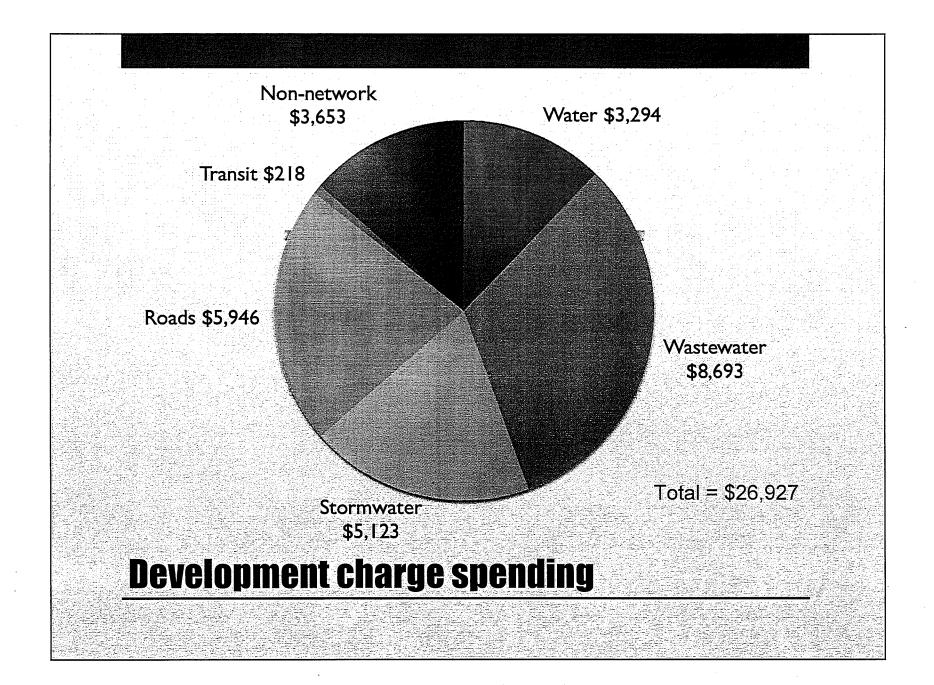
- downtown

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Small
Apartments

\$11,094

Current DC structure: residential



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Single	e & S	emi	(\$26,9	27
Town	S			\$19,3	00
Large				\$16,6	26
Small				\$11,0	94

- Lot size and density?
- Cost variations within the urban area?
 Zones?
- Downtown exemption: above-average cost developments still subsidised
- Land or impervious-area based stormwater charge?

Things to consider

Zone	Sept.	Charge
	Land-related	People-related
1	\$50,000 per ha. +	\$5,000 per single detached unit \$4,000 per row house \$2,000 per apartment
2	\$120,000 per ha. +	\$25,000 per single detached unit \$20,000 per row house
3	\$100,000 per ha. +	\$20,000 per spartment unit \$16,000 per row house
4	\$95,000 per ha. +	\$10,000 per apartment \$17,500 per single detached unit \$14,000 per row house \$6,000 per apartment

- ✓ locatio
 - n
- √ density
- √ use
- ✓ context

True cost-based DC, an example

District CHAR	GE PER NET HA.
Don Mills / Browns Corner	\$31,377
Armadale	\$11,425
Armadale NE	\$14,862
Milliken Mills	\$209,694
PD 1-7	\$543,119
Rodick / Miller Road Planning District	\$313,240
South Unionville	\$58,516
South Unionville - Helen Avenue	\$822,647
Markham Centre	\$51,673
Markham Centre - Clegg	\$68,374
Markham Centre - Hotel	\$906,731
Markham Centre - South Hwy 7	\$343,709
Markham Centre - Sciberras	\$578,595
Markham Centre - East Precinct	\$560,676
Rouge North East	\$7,363
Wismer	\$7,101
Cathedral	\$3,318
York Downs	\$25,827
404 North Employment Lands	\$18,405
rates, plant at an arrangement of CONSTRUCTION CONTROL	and a superior of the contract

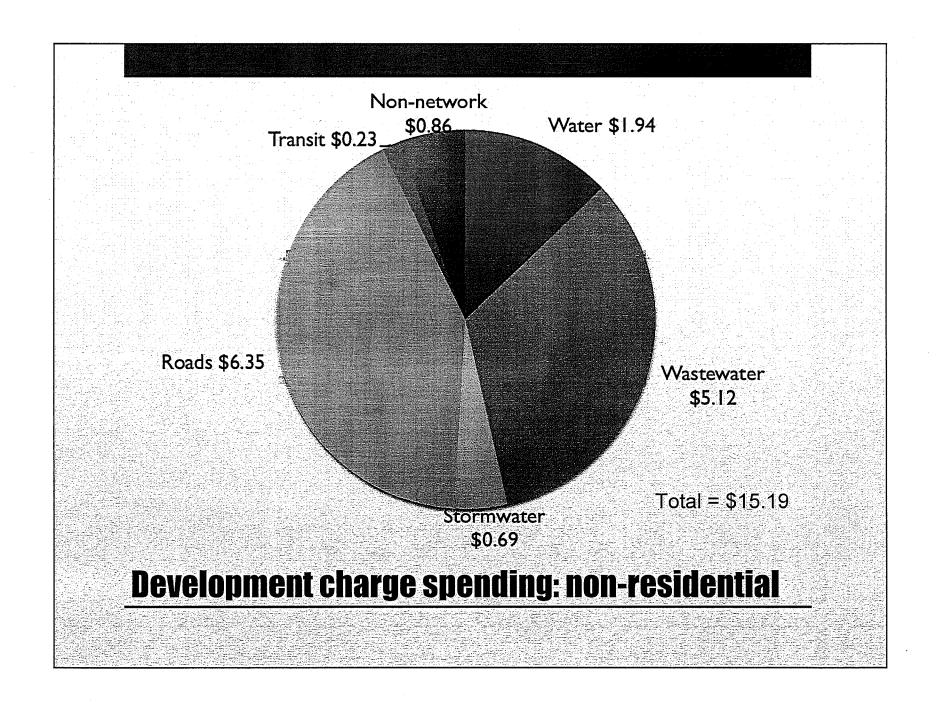
	Singl e/Sem i	Town	Large Apt.	Small Apt.
Town- wide Hard	\$8,59 1	\$6,76 0	\$5,31 7	\$3,19 5
Town- wide Soft	\$9,88 4	\$7,75 9	\$6,10 9	\$3,66 9

← Residential and Non-Residential

Town of Markham DC

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	Industrial	Commercial/Institution			
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Gurrent DC structure: non-residential



		4.54.75	
Industrial		\$6.65/s	q.ft. gfa
Commercial/	Institution		
First 5,000	sq.ft.	\$7.60/s	q.ft. gfa
Second 5,0	00 sq.ft.	\$11.39/	sq.ft.
10,000+ sq	.ft.	\$15.19/	sq.ft.

- Zone cost variations?
- Step scale: density disincentive?
- Land area basis to incentivise density?
- Use-related cost variations, e.g. retail, fastfood

Things to consider

	Office/Instit I	Retail M	lfg.	Warehouse/ Dist'n.
		\$/hed	ctare	
1	\$100,00	\$100,00	\$60,000	\$90,000
2	\$500,0 0	\$500,0 0	\$400,00	\$450,00
3	\$400,00	\$400,0 0	\$300,00	\$350,00
4	\$275,00	\$300,00	\$200,00	\$250,00
	0	0	0	0

- ✓ location
- √ density
- √ use
- ✓ context

True-cost non-residential DC, an example

York Re	gion Non-Reside	ential DCs
	. Ind'I/Office/In st'I	Retail
	(per square m	netre gfa)
Water	\$26.59	\$28.09
Sewer	\$49.52	\$55.97
Roads	\$37.03	\$128.42
Transit	\$2.15	\$7. 10
Subway	\$6.67	\$22.71
General	\$2.70	\$3.88
TOTAL	\$124.66	\$246.17

Markl	nam Town- Charges	Wide
Hard \$/net	9	180,023
Soft	IOI	\$8.1
\$/sq.m. g	fa ^{Retail} Mixed	4 \$8.8
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Non-Residential DC BPs

- Underlying problem: MVA-based property taxes not reflective of cost causation for network services
- Remove network services from property tax, charge user fees that reflect usage and cost causation
 - e.g. garbage/recycling, road maintenance, water/sewer
- Phase in fix for inherited distortions

Fixing property tax

Kitchener, Ontario storm water management charges

Charges based on impervious area

Small detached house: \$6.30/month

•Large house: \$13.80/month

Credits for on-site controls that reduce runoff

User fees best practice

- Basic access fee
- Costs related to usage (km travelled) (maintenance, policing costs)
 - Standard fee per vehicle
 - Based on VKT (annual or at license renewal)
- Costs related to lot size (cleaning, snow clearance, maintenance)
 - Fee based on lot size or frontage

Simple user fees for roads

- 1. Pricing... especially mispricing... drives urban form
- 2. Mispricing drives overspending on infrastructure
- 3.If you want smart growth, compact development, reurbanisation, affordable infrastructure, sustainable communities.... mispricing must be addressed!
- 4. Planning and pricing must work together: alignment
- 5. Many many options for smart pricing

Takeaway

The failure to use price – as an *explicit* system – in the public sector of the metropolis is at the root of many, if not most, of our urban problems.

Wilbur Thompson The City as a Distorted Price System, 1968

www.perversecities.ca

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