407/7 Destination Ctr

Richmond Hill Transit Ctr

Construction Costs
Operating Costs
Societal Costs
Land Value Capture (82 ha)
Incremental Economic Opportunity
Solution
Alignments (407 Transitway/Yonge St Ext

Cheaper - \$835+m
Cheaper
Sensitive
Up to \$ 2 billion
Up to \$20 billion
Superior (For the people)

In Establish Corridor

More Expensive
More Expensive
Insensitive
Sterilizing land & tearing down facilities
Zero
Dysfunctional
Veer to Silvercity

407/7 Integrated Destination Centre

- Cost of Construction

- Savings

- LVC - 52.5 ha

- Incremental Economic Opportunity

- \$ 2,555,600,000

- \$ 835,000,000

- \$ 1,250,000,000

- \$20,000,000,000

Versus

Richmond Hill Transit Centre

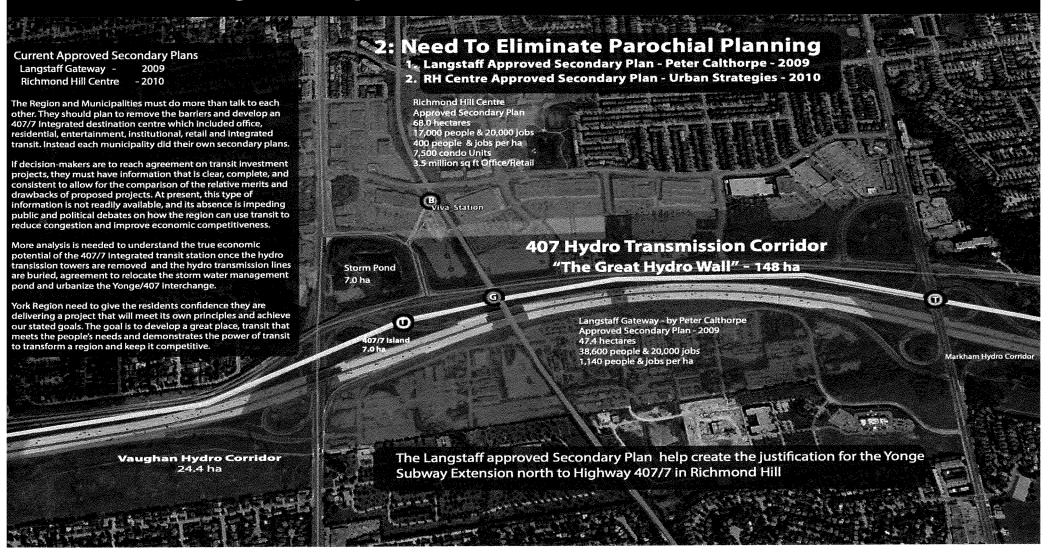
- Cost of Construction

- \$3,390,000,000

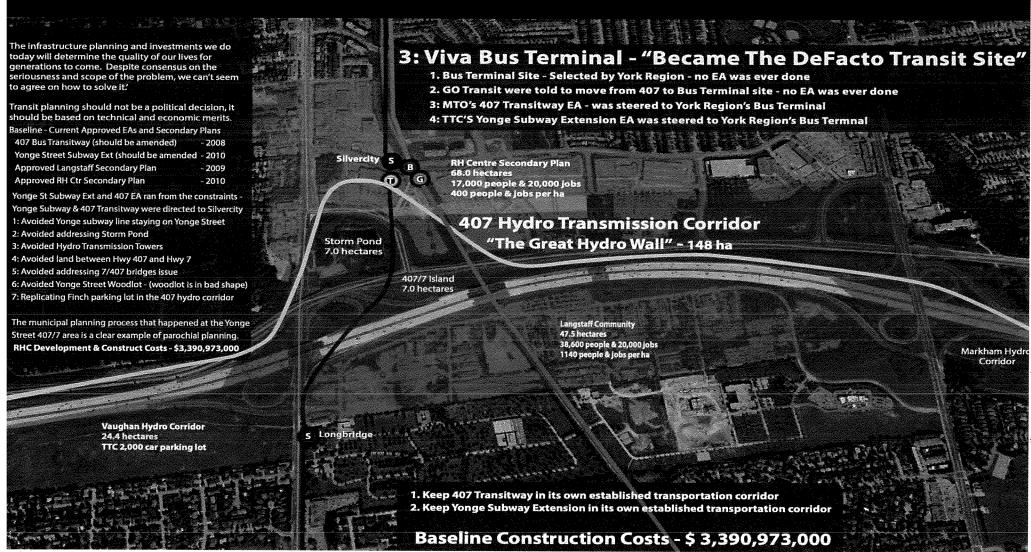
Remove All Impediments & Constraints Impacting 407/7 Centre



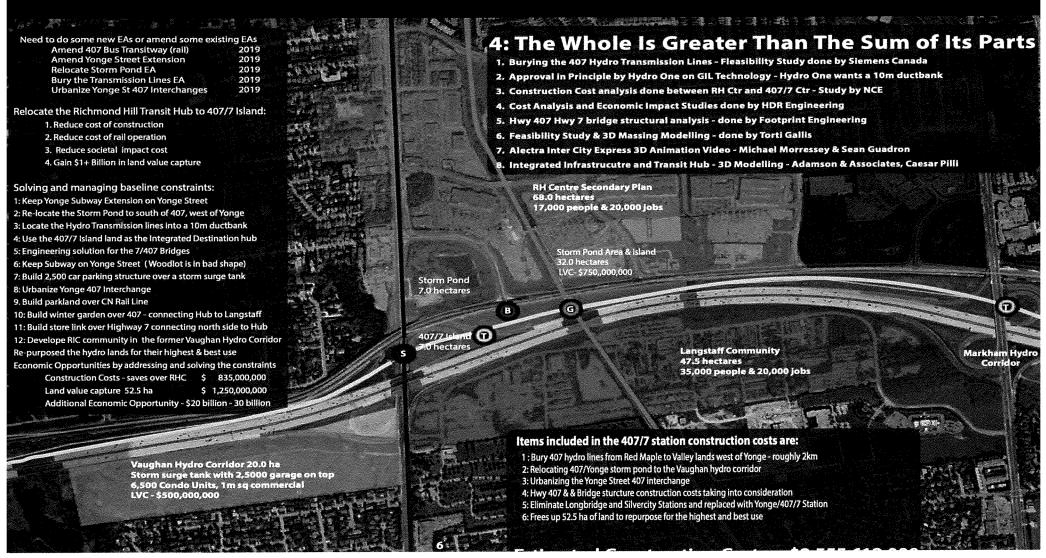
Integrate Langstaff & Richmond Hill Secondary Plans



Viva Bus Terminal - "Became De facto Transit Site"



The Whole is Greater Than The Sum of Its Parts



Land Value Capture - (Maximum Returns by Creating A Great Place)

and Value Capture Strategies

and value capture (LVC) is a method of funding infrastructure improvements that is uccessful upon recovering all or some of the increase in property value generated y public infrastructure investment. LVC can help mitigate the challenges governments face in obtaining public funding, while also providing benefits to private ector partners. Land Value capture mechanisms rectify clawing back at least some rall of the increased business revenue or land value. These funds are then allocated towards the initial costs of infrastructure provision. Land value uplift can also help neure that affordable housing for low income groups are included in new development. Most of the lands in the 407 hydro corridor is in government hands. To get the haximum land value capture return, we need to masterplan the area as a complete, yalkable urbanism, high-rise, mixed use rail integrated community.

ransit Development Impact Fees (TDIF- Development charge)

one-time charge on new development designed to cover costs associated with its npact on public transit systems. Local governments can look to developers to ontribute to the impacts of the rail integrated communities development.

ax increment Financing (TIF) - "approved but not inacted by the Ont Gov't yet"

funding strategy used by cities to promote economic development within a esignated area that is deemed "blighted" or "underdeveloped" (407 Hydro Corridor). /idely used in USA Cities, TIF is used to divert anticipated property tax increases to a edicated fund, which is reinvested into public infrastructure within the TIF district.

pecial Assessment Districts (SAD)

districts in which land value has increased as a result of public infrastructure nprovements, like upgraded transit systems, an additional tax is assessed on arcels to recover the costs of the public improvement project. SADs are most useful of fund localized improvements, such as new transit stations on existing lines or istrict-specific improvements like bus or light rail.

> Vaughan TDD Storm Pond with 3,000 parking Structure on top 6,500 condo units 1 million sq ft - Retail/Office

5: Land Value Capture

Engage a world class, architectural, urban design, engineering firm, if we want to realized maximum land value capture

RH Centre Secondary Plan 68.0 hectares 17,000 people & 20,000 jobs 400 people and jobs per ha

DG Group

Land Value Captur

Storm pond area - 38,0 ha 407/7 Island - 7,0 ha Vaughan Hydro Corridor - 24,5 ha 407/2 Destination Centre 62.4 Hectares 1140 People & Jobs per ha 20.000 - 25,000 condo Units 30,000 - 50,000 Jobs 10-12 million sq ft of office/Retail 8,000 - 10,000 underground parking Net zero in energy & carbon emissions

Langstaff Community 47.5 hectares 35,000 people & 20,000 job 1140 people and jobs per ha

Estimated Land Value Capture 52.5 ha - \$1,250,000,000

407/7 Integrated Destination Centre

Create Complete Rail Intigrated Community Stations

- . Make it better with a vision
- · Get the land use right, promote density
- Create convenient pedestrian connections
- · Ensure good urban design
- Create compact development patterns
- Get the parking right
- Make each station a "Place" not a " Ject
- . Make retail devlopment marke ariven, not transit driven
- . Engage Corporate and Inve or Attention
- . Get the local transit righ' .irst mile/last mile strategy

How far will people walk? che station?

Planners invariably work — the basis that bus and tram users will walk no more than 400—letres from home to the nearest stop. It's known travellers will — alk further to catch a train, so the maximum walk dist—ice to a rail station is accordingly usually taken as 800 to 1.0—0 metres.

People will wal¹ .urther for rail transit, especially if the walk is protected fror the elements, safe, interesting, productive and enjoyable. P ople travelling on the GO system to Union Station will walk 1, 2 0 meters to the Queen Street area in an undergrou d animated walkway.

Developi j a first mile, last mile strategy which could include autonom aus vehicles, uber type services, Personal People Mover, trams ar I walkways.

6: Transit Destination Centre "Zone of Influence"

- 1. Create one intege. d community "the whole is greater than the some of its parts"
- 2. Create One integrated co. Lete mixed-use destination transit Hub
- 3. Solve the last mile/first mile wis an autonomous vehicle strategy, PPM or Tram
- 4. Comprehensively, holistically and 5. stegically plan the Destination Centre uses
- 5. Incorporate District Energy, central garv. qe system, fire station, energy storage, IOT

RHC - 18,000 people

- 19,000 jobs

RH Centre Secondary Plan 68.0 hectares 17,000 people & 20,000 jobs 400 people & jobs per ha

1,000 metre

DG Group

Storm pond - 7.4ha

407/7 - 38,000 people - 50,000 jobs

07/7 Dectination Ctr = 7 Aba

Langstaff - 38,000 people - 19,000 jobs Langstaff Community 47.5 hectares 35,000 people & 20,000 jobs 1140 people & jobs per ha

407/7 Integrated Destination Travisit Centre

- 1. Keep 407 Transitway in its own established transportatio / corridor
- 2. Keep Yonge Subway Extension in its own established traesportation corridor

Vau han TDD Stor. \Pond wil 6,000 ondo yn Vaughan - 18,000 people - 8,000 jobs

World Class Architectural/Urban Design/Engineering Opportunity

ortance of Visionary Planning

ework for growth: Need a common vision and follow it through with a n to implement in an orderly fashion. Such transformational change is not a duct of spontaneity but instead of good constructive visionary planning.

planned community is a well prepared community: Anticipating the future ows us to stay ahead of challenges. With reliable information, we will be able make decisions between the long-term vision and the short term actions, ommunities that don't actively plan for their future will be left behind.

anning improves impact: We were elected to deliver community provided in the state of the state

well thought out Urban form is extremely important: Housing, proposed the security, affordable and seniors housing, transit and lety are key concerns for urban dwellers. The right policies on density, land use,

good visionary plan will have a positive impact on the urban economy: e compete to attract investment with a view to generate economic activity, anning coordinates the spatial location, distribution of economic activity, cilitates land value capture from public investment and the transformation of inderutilized land to valuable urban land.

collectively held plan allows communities to build lasting relationships: cople that see opportunity in urbanization need to engage all possible avenues ward realizing it. A commonly held vision gives people a road map to mobilize ir citizens and partners to be engaged in realizing the plan.

broader territorial perspective helps communities attain economies of ale: Communities that plan together can make a competitive advantage out cross-municipal coordination. In addition to spatial efficiencies, this would

ow them to draw on economies of scale to boost their economic negotiation

ontinuity generates credibility: Successful communities have ensured intinuity of plans through political cycles, realizing that a stable road map will ake us more credible. Investment is a long term endeavour that benefits from edictable conditions. Spatial planning is an asset to reduce uncertainties and continuity contributes to the creation of opportunities for an engaged society.

nticipating is more cost effective than reacting to problems: We have an popularity of driving constructive change, we must move away from laissez re. Communities that long term plan will be in a position of anticipating rather

vision gives consistency to message: Communication is a key asset for mmunities, but the opportunity to connect and convey a community's vantages can be undermined by empty or contradictory messages. omentum and support are increased when we demonstrate substantive ogress that is consistent with the collective framework (vision) for action.

7: World Class Architectural Design/Engineering Opportunity

Need a Comprehensive and Holistic Community Building Planning Approach

SOM - Skidmore Owens and Merrill - Chicago, IL Adamson & Associates -Toronto, Ont

Kohn Pedersen Fox Architects - New York, NY César Pelli.-Pelli Clarke Pelli Architects - Princeton, N.J.

407 / 7 Integrated Destination Transit Centre						
Area	Hectares	Condo Units	People	Retail/Office (M)	Jobs	People/Jobs
Langstaff	47.37	15,000	33,000	3.5 sqft	21,000	1140 per ha
Richmond Hill Centre	68.02	7,500	16,500	3.5 sqft	21,000	400 per ha
Hwy 7 Hydro Corridor	48.58	18,000	39,600	8 sqft	48,000	1140 per ha
Vaughan TDD	21.86	7,500	16,500	1 sqft	6,000	1140 per ha
Totals	185.83	47,000	105600	16 saft	96.000	

Burying the Hydro Transmission Lines "A Game Changer"

Estimated Construction Costs \$2,555,612,000

- Langstaff/Richmond Hill/Vaughan Centre Design Objectives
- 1: Reduce urban sprawl & Gridlock
- 2: Maximize utilization of government lands and assets
 - (a) bury hydro transmission lines
 - (b) relocate the storm pond
 - (c) urbanize 407 interchange
 - (d) bury hydro transformer station
- (e) urbanize public schools and high school
- 3: Build parks over the CN rail lines

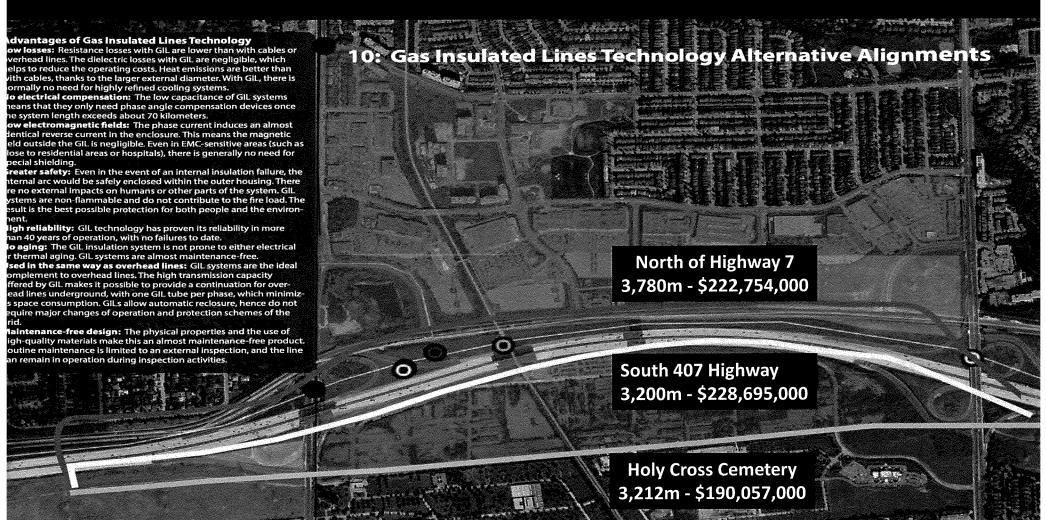
- 6: Create a seniors friendly community 7: Create a net-zero in energy and carbon emissions community
- 8: Create a leading edge IOT technology community
- 9: Encourage every price point to live around the transit station
- 10: Manage waste, graywater & storm water locally
- 11: Plan the 200+ ha as a RIC community to achieve a high transit
- 12: Plan the 407/7 development centre as a high-tech IIOT communi

Land Ownership 8: Langstaff, Richmond Hill and Vaughan Land Ownership

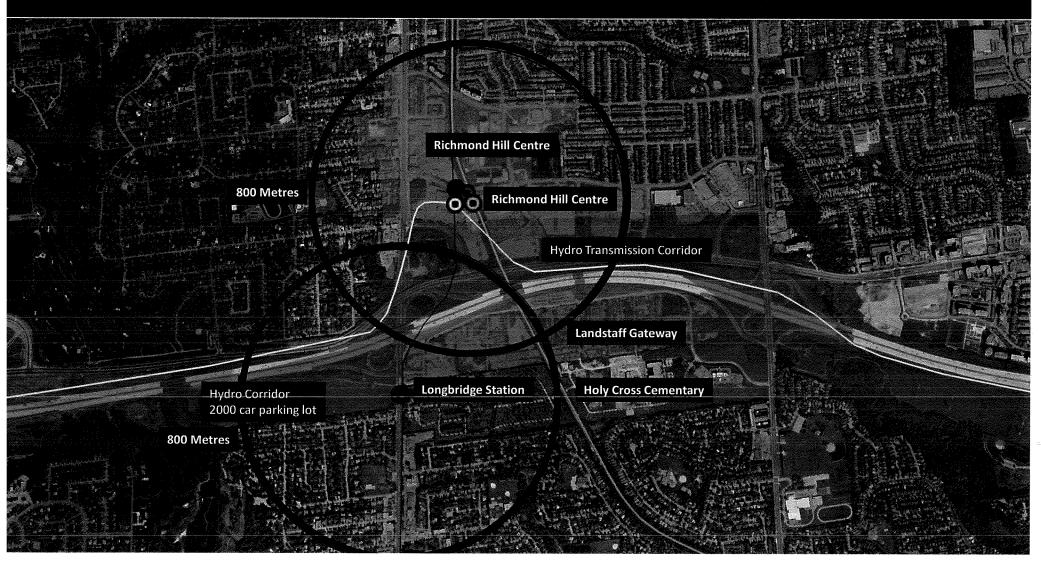
Development Charges, Cash-in-lieu, Tax Incremental Financing

9: Development Charges / Tax Incremental Financing Estimated Development Charges - \$50,000 a condo unit 1: Langstaff Gateway 18,000 units x \$50,000 = \$900,000,000 2: Richmond Hill Centre 7,500 units x \$50,000 = \$375,000,000 3: Hwy 7 Hydro Corridor 4: Vaughan Hydro Corridor 18,000 units x \$50,000 =\$900,000,000 7.500 units x \$50.000 =\$375.000.000 Estimated Cash-in-Lieu - \$20,000 per Condo unit 1: Langstaff Gateway 18,000 units x\$20,000 = \$360,000,000 2: Richmond Hill Centre 7,500 units x\$20,000 = \$150,000,000 3: Hwy 7 Hydro Corridor 4: Vaughan Hydro Corridor 18,000 units x\$20,000 = \$360,000,000 7,500 units x\$20,000 = \$150,000,000Land Value Capture - Land Values = \$24.7m per hectare 1: Langstaff Gateway $10.0 \text{ ha} \times $24.7 \text{ m} = $247,000,000$ 2: Richmond Hill Centre $0.0 \text{ ha} \times \$24.7 \text{m} = \0 3: Hwy 7 Hydro Corridor 4:Vaughan Hydro Corridor 50.0 ha x \$24.7m = \$1,237,000,000 20.0 ha x \$24.7m = \$ 494,000,000 Tax Incremental Financing - Average Property Tax per Condo Unit - \$2,000 1: Langstaff Gateway 2: Richmond Hill Centre Richmond Hill Centre 3: Hwy 7 Hydro Corridor 4: Vaughan Hydro Corridor Highway 7 Hydro Corridor Richmond Hill Integrated Transit Centre 1: Cost of Construction \$3,390,600,000 \$110m a yr x 50yrs \$5,500,000,000 Excessively High 2: 50 yr Operation Costs 3: 50 yr Societal Costs Yonge Street 407/7 Integrated Destination, Transit and Utilities Centre 1: Cost of Contruction \$2,555,600,000 2: 50 yr operation Costs \$ 52m a yr x 50 yrs \$2,510,000,000 3: 50 yr societal Costs very comfortable **Langstaff Gateway** Vaughan Hydro Corridor

Burying 407 Hydro Line Alternatives – (Gas Insulated Line Technology)



Richmond Hill Centre – Zone of Influence



Yonge Street – 407/7 Destination Centre – Zone of Influence

