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Growth (1 to 2%) and intensification (20 to 40%) alternative rates be evaluated (including operating and capital costs) prior to the next Public Meeting

2. To seek Council's approval:

A modified approach for completing the TMP



Recap of Study Status





- testing of 3 growth scenarios January 19, 2011 to present results of 3rd Public Workshop was held on
- Interim Report #2 completed in March 2011 documenting Phase 2 of this 3-phased TMP
- March 2011 Progress Report to Council recommending:
- BRT concept be incorporated into TMP update
- Its implementation be staged
 2 initial routes proposed for 2030 be further evaluated in Phase 3
- Newsletter #4 distributed in June 2011

Scenario 1

Sustain Existing Service Levels

- 1% annual growth
- 22% intensification10% transit share
- Scenario 2

More Balanced Approach

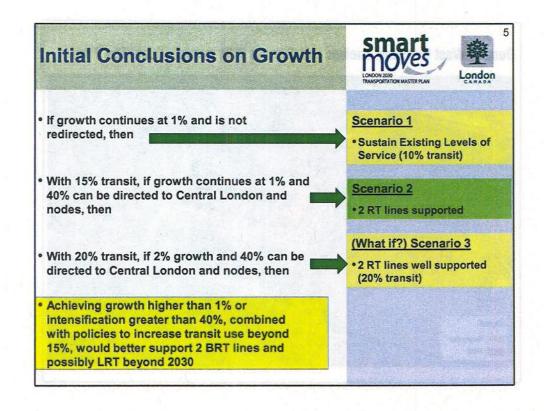
- 1% annual growth40% intensification15% transit share

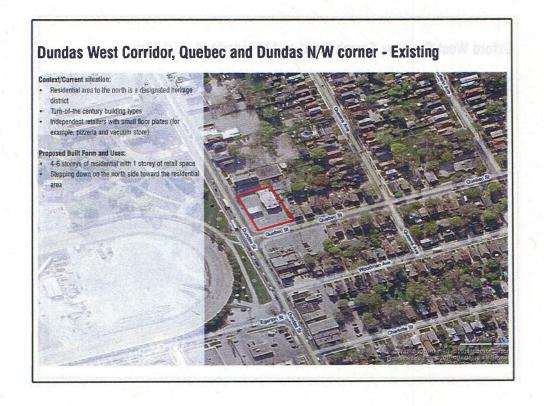
Scenario 3

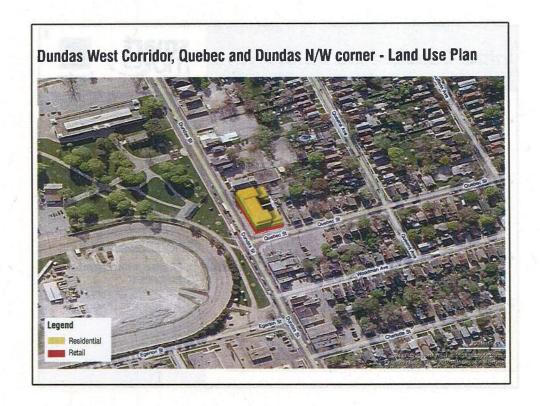
Transit Focus

- 2% Annual growth
- 40% intensification
 20% transit share





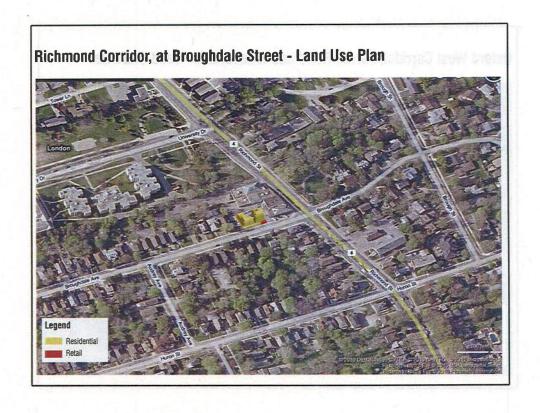






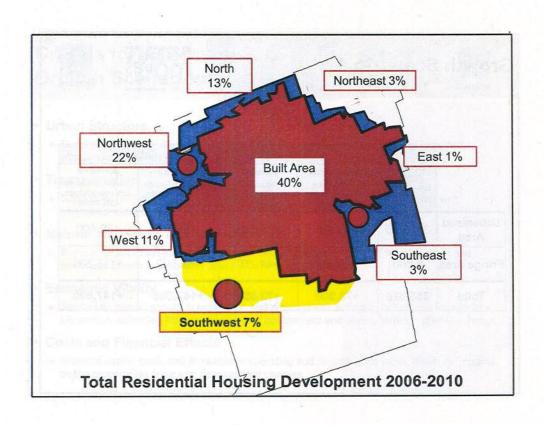












Urban Structure Factors

- Strong and Vibrant Central London
- Mixed-Use Nodes and Corridors
- Effective Use of Municipal Infrastructure



Support for Central London Revitalization





	Assu	Assumed Growth in the Central London						
Growth	Scenario 1 1% Annual Growth 22% Intensification	Scenario 2 1% Annual Growth 40% Intensification	Scenario 3 2% Annual Growth 40% Intensification	Scenario A 2% Annual Growth 22% Intensification	Scenario B 1.5% Annual Growth 30% Intensification			
Population	2,300	11,075*	22,150*	4,600	6,330			
Employment	950	950**	6,800	10,750	5,850			
Total	3,250	12,025	28,950	15,350	12,180			

Note: * Scenarios 2 and 3 assume 37.5% of urban area population growth occurs within Central London.
** Scenario 2 has not yet reallocated GMIS employment growth to better support intensification

Support for Nodes & Corridors





Assumed Growth to 2030 in Nodes & Corridors

Growth	Scenario 1 1% Annual Growth 22% Intensification	Scenario 2 1% Annual Growth 40% Intensification	Scenario 3 2% Annual Growth 40% Intensification	Scenario A 2% Annual Growth 22% Intensification	Scenario B 1.5% Annual Growth 30% Intensification 15% Transit
Population	1,300	11,075*	22,150*	2,600	7,470
Employment	4,850	4,850**	15,925	16,050	10,450
Total	6,150	15,925	38,075	18,650	17,920

Note: * Scenarios 2 and 3 assume 37.5% of urban area population growth occurs within key nodes and corridors.
** Scenario 2 has not yet reallocarted GMIS employment to better support intensification

22 **Efficient Use of Infrastructure** London Infrastructure Types Transportation Percentage and Amount of Population ▶ Roads Growth to 2030 in Urbanized Areas ► Transit ▶ Walk/Cycle Scenario 1 Scenario 2 Scenario 3 Scenario A Scenario B Other Hard Services ▶ Storm Sewers Growth in 30 ▶ Sanitary Sewers/ Urbanized Treatment Plants Areas ▶ Water/Treatment Plants Amount of Growth in Urbanized 32,400 33,200 16,200 29,550 59,100 Other Soft Services Areas ▶ Protective (Fire. Police, EMS) ▶ Libraries ▶ Parks and Recreation

Transportation Assessment Factors

- Support for BRT Investment
- Overall Transit Network Levels of Service
- Amount of Road Network Congestion



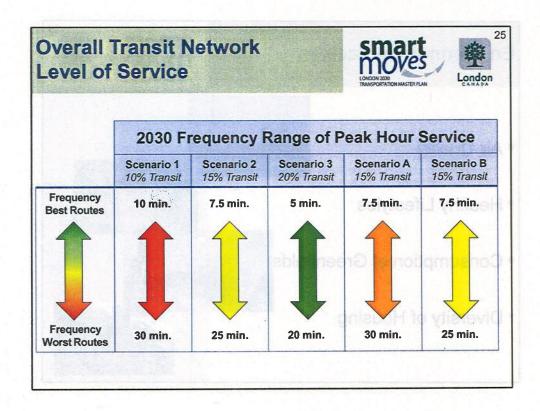
Support for BRT

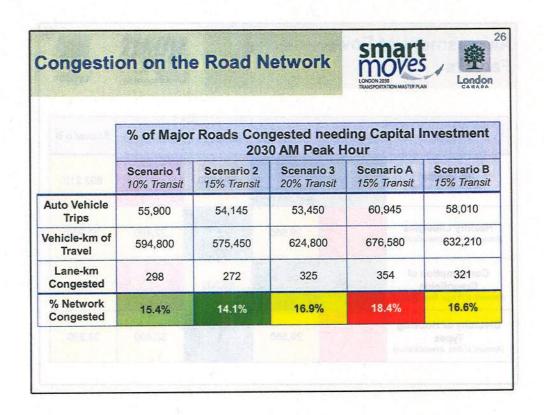




807.5	2030 AM Peak Hour BRT Line Ridership						
Line/ Direction	Scenario 1* 1% / 22% 10% Transit	Scenario 2 1% / 40% 15% Transit	Scenario 3 2% / 40% 20% Transit	Scenario A 2% / 22% 15% Transit	Scenario B 1.5% / 30% 15% Transit		
East-West/EB	1,200 – 1,400	2,500 – 2,700	3,400 – 3,600	2,600 – 2,800	2,500 – 2,800		
East-West/WB	200 – 400	600 – 700	1,100 – 1,300	700 – 800	700 – 800		
North-South/NB	600 – 800	1,200 – 1,350	2,000 - 2,200	1,400 - 1,600	1,400 – 1,500		
North-South/SB	200 – 400	600 – 750	1,100 – 1,300	800 – 900	700 – 800		
Totals	2,200 - 3,000	4,900 - 5,500	7,600 - 8,400	5,500 - 6,100	5,300 - 5,900		

Note: * Scenario 1 includes express bus service only in the BRT corridors







Assessment of Environmental Factors	f Enviro	nmenta		smart moves cooxian rangedraften austra a.u.	London
Factor	Scenario 1	Scenario 2	Scenario 3	Scenario A	Scenario B
Air Quality (Vehicle km of Travel)	594,800	575,450	624,800	676,580	632,210
Healthy Lifestyles (Amount of Res. Intensification)	16,200	29,550	59,100	32,400	33,200
Consumption of Greenfields (Amount of Fringe Res. Growth)	57,600	44,250	88,500	115,200	77,500
Diversity of Housing Types (Amount of Res. Intensification)	16,200	29,550	59,100	32,400	33,200

Economic Vitality Factors

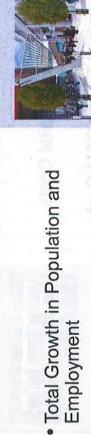
















Employment

Ability to Lever Subsidies from Senior Levels of Government



Overall City Image

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Assessment of Econom

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Total Amount of Growth 100,800 100,800 209,700 203,600 152,700	Factor	Scenario 1	Scenario 2	Scenario 3	Scenario A Scenario E	Scenario
3.875 -/22% Poor	Total Amount of Growth		100.800	209,700	203,600	152,700
- / 22% Poor	Strengthening Key Job Sectors (Medical, Education and Manufacturing)	3,875	More than Scenario 1	More than Scenario A	17,875	10,875
Poor Good Very Good	Ability to Lever Subsidies (for BRT & Downtown Terminal)	-/22%	\$252 M / 40%	\$252 M / 40%	\$252 M / 22%	\$252 M / 30
	Overall City Image (Central London, Other Nodes, Options for Work, Live and Play)	Poor	Good	Very Good	Poor-Fair	Fair

%

Financial Factors

- Transportation Capital Costs
- Roads and Transit O&M Costs
- Growth Related Costs/New Resident
- Transportation Impact on Property Tax Base



Transportation Capital Costs





Reminded Contra	20	Year Cap	ital Costs	s (\$/Millio	ns)
Transportation Element	Scenario 1	Scenario 2	Scenario 3	Scenario A	Scenario B
Municipal Roads	1,490	1,360	1,625	1,770	1,605
Municipal Transit*	49	136*	220*	238*	143*
Active Transportation and Parking	16	44	56	36	36
Total Transportation Capital	1,555	1,540	1,901	2,044	1,784

Note: * Net of assumed subsidies from senior levels of governmen

	Scenario 1 Residential Growth	Scenario 2 Residential Growth	Scenario 3 Residential Growth	Scenario A Residential Growth	Scenario B Residential Growth
Base Road Capital Needs (\$Millions)	73,800	73,800	755	755	755
Growth Related Road Capital Needs (\$Millions)	735	909	870	1,015	850
Growth Related Road Costs Per New Resident	\$9,959	\$8,198	\$5,894	\$6,877	\$7,678

Annual Operating and Maintenance Costs	erating a	2		Smart moves cooksing	London
	2030 Ann	ual Municip	2030 Annual Municipal Roads & Transit O&M Costs	Transit O	&M Costs
	Scenario 1 Transit R/C = 47%	Scenario 2 Transit R/C = 52%	Scenario 3 Transit R/C = 61%	Scenario A Transit R/C = 56%	Scenario B Transit R/C = 54%
Roads (\$Millions)	36.3	35.7	36.6	37.2	36.6
Transit – Gross	24.4	29.7	37.1	36.0	30.7
Transit – Net (\$/Millions)	12.9	14.3	14.5	15.8	14.1
Total – Net	49.2	50.0	51.1	53.0	50.7

Relative Impa Property Tax I				mart Moves DIOON 2030 HANSPORTATION MASTER PLAN	London
dominant Long	2030 Net	Municipal	Transport	ation Cost	Impacts
	Scenario 1	Scenario 2	Scenario 3	Scenario A	Scenario B
20 Year Capital Costs Funded by Tax Base	\$504.7 M	\$552.3 M	\$714.9 M	\$780.4 M	\$633.5 M
Avg. Annual Capital Cost/Capita	\$58.75	\$64.30	\$71.02	\$77.53	\$67.92
2030 Annual Net O&M Cost/Capita	\$114.55	\$116.40	\$101.53	\$105.31	\$108.71
2030 Total Annual Costs/Capita	\$173.30	\$180.71	\$172.55	\$182.84	\$176.63

	e Scena				smart Moves ONDON 2030 PRANSPORTATION MASTER PLAN	Londor
		Growth Scenarios				
5784	C MAD ha	Scenario 1	Scenario 2	Scenario 3	Scenario A	Scenario B
Urban Structure		0	0		0	0
Transportation		0	0	0	0	0
Natural & Social Environment		0	0	0		
Economic Vitality		0	0	0	0	0
Costs & Financial Impacts	Growth Cost/ New Resident	\$9,959	\$8,198	\$5.894	\$6,877	\$7,678
	Impact on Property Tax Base	\$173.30	\$180.71	\$172.55	\$182.84	\$176.63

Key Messages





- Scenario 1 (1% growth with 22% intensification) without BRT is not sustainable. Expect higher City subsidy for transit and higher cost/new resident for transportation system; does not support Central London growth well.
- Intensification (even with low growth rates) reduces growth <u>costs</u> (all hard infrastructure) and, if directed to Central London, and to Nodes and Corridors, supports higher transit ridership making BRT viable, in turn supporting more growth in Central London.
- Higher growth rates support higher order transit, significantly reduce costs/new resident and allow City urban structure to change faster, including Central London.

Key Messages (continued)





- While Scenario 3 rates best overall, achievement of 2% annual growth by 2030 would be a "stretch" goal.
- Without solid substantiation for 2% annual growth, there is relatively high risk that senior levels of government would not contribute to BRT investments, if TMP based solely on Scenario 3
- Still, Scenario 3 is a good long-term (25 to 40 years) target for development within the urbanized area

Proposed Direction for Completing TMP





Overall Growth Rate :

- ▶ 1.5 % growth rate also a "stretch"; <u>use base population/employment growth of 1%, with triggers</u>, providing for a ramp-up to 2%.
- ▶ De-emphasize horizon years (assumed 1% growth over 20 years could occur sooner (i.e.by 2025, or even 2020); put a TMP in place to serve a level of growth, whenever it might happen.

Intensification Rate :

- ➤ OP Review should consider 40% as a minimum if only 1% growth achieved, it would still support BRT.
- Also, given the Provincial Growth Plan precedent, 40% likely to be minimum that senior levels of government would support for BRT subsidies.
- ▶ If 40% target achieved, a 1.5% growth rate would still allow for fringe area growth greater than current GMIS (in fact, could go to 48% intensification without impacting GMIS fringe).

Proposed Direction for Completing TMP (continued)





Allocation to Central London, Nodes & Corridors

- ▶ Target allocations should be established to ensure support for BRT.
- ▶ Target densities should also be set for these areas.

City Growth should be Monitored Closely

- ▶ Intensification is essential to support BRT.
- ➤ To build that support quickly, directing growth to Central London, and to other key nodes and corridors at appropriate densities needs to start now, and stay on target.