

# Bike to the Future 

2009 Capital Budget Submission

Presented December 2, 2008

Bike to the Future is a voluntary, inclusive group of concerned citizens working to make cycling in Winnipeg a safe, enjoyable, accessible and convenient transportation choice year-round.
2. We envision a city where cycling is embraced as the preferred mode of transportation, where cycling is integrated into urban design and planning, and where Winnipeg is recognized as a leader in cycling infrastructure and programs .

## Progress over the Past Year

>2008 Active Transportation Action Plan

- \$2.58 million for pathways
- $\$ 600,000$ for AT Corridors

Bike Boulevards
Bike Lanes

- First Iteration of Active Transportation Network Map
> Disraeli Bicycle/Pedestrian Bridge
> Policy Changes
- Incorporation of Active Transportation facilities into any reconstruction or rehabilitation required on infrastructure identified as an Active Transportation facility


## Increasing Bicycle Traffic

> Bicycle Counts

- 25\% Increase in Bicycle Traffic Between 2007 and 2008
> Bike to Work Day
- 2,440 cyclists registered as participants
- 432 of those participants were first time commuters
- 64\% Increase from 2008 Bicycle Traffic Counts


## AT Corridors

> Use Sharrows Only as a Stop Gap Measure

- Not as a substitute for bike lanes on longer routes
$>$ In shared lanes, restrict their use to 4.3 m wide lanes
> For short distances, allow Sharrows in the center of the lanes to indicate that cyclists should take the full lane
- sign appropriately
> Funding should be for bike boulevards, bike lanes, and grade separations


## Sturgeon Creek Bridge

> Make sure Pedestrian Underpass Accommodates Cyclists
$>$ Include Curb Cuts for Flood Season

## Osborne Bridge

$>$ Bicycles account for 4\% of traffic
$>$ Pedestrians account for $8 \%$ of traffic
$>$ Complaints of Bicycle/Pedestrian Conflicts
$>$ Make sure that Rehabilitation includes widening to accommodate bike lanes

## Jubilee Overpass/Pembina Underpass

> Plan for Connection to Harrow Bikeway

- Sherbrook/Maryland Bridges
- University of Winnipeg
- Health Sciences Complex
- Earl Grey/Corydon Village
- River Heights


## Southwest Rapid Transit Corridor

> Include Cyclists in all Grade Separations
> Include Active Transportation Advisory Committee in Design Process

## Potential for Increased Cycling Rates in Winnipeg

$30 \%$ of Manitobans cycle "most of the time" to at least one destination
40 30\% of Manitobans cycle "sometimes" as a mode of transportation

- $65 \%$ of Manitobans would like to use bicycles more as a mode of transportation

Source City of Winnipeg Active Transportation Study, 2004

- $90 \%$ of Manitobans support governments investing more money in active transportation

Source: Manitoba Medical Association 2007

## What Cyclists Want

Safe Routes
Convenient and Direct Routes that connect destinations
do Employment Centres
Education Centres
Shopping Districts
Entertainment Districts
ebecreation
© Residences
Secure Bicycle Parking (Short Term and Long Term)

## Bicycle Boulevards

Low-traffic neighbourhood streets that have been optimized for bicycling
Welcoming to kids, families and novice cyclists, and attractive for all kinds of cyclists
They provide direct, attractive routes for bikes
They enhance neighbourhood liveability and traffic safety


## Implementing Bike Boulevards


draffic calming to slow cars down
Diverters to discourage through traffic (Bicycles travel through)
© Turned Stop Signs to Minimize stops for Bicycles
HTraffic lights and curb extensions to help cyclists cross busy streets
Central to the Cycling Networks in Vancouver, Montreal and Portland

## Bike Lanes


> Following installation of a bike lane on Fell Street in San Francisco, the number of cyclists rose $32 \%$, and percentage of cyclists riding on the sidewalk dropped from 50\% to 10\%
> In Toronto, the average increase in cycling two years after installation of a bike lane was found to be 23\%

## Grade Separations



## More Roads Create More Traffic

Crowded Roads
Scarce Parking


People Demand New Lanes New Parking

People drive more often People live further from work


Driving is More Appealing
> For every 1\% increase in roadway capacity, traffic increases by $0.9 \%$ within 4 years

## Rethink Transportation Priorities

More public space is devoted
 walkable, bikeable urban areas

Higher Transit
Ridership, Cycling and Walking, Lower Driving Demand


People choose to live closer to work

More than 60 percent of metro Portland's residents rated their transportation system good or excellent, compared to only 35 percent of Americans

## You can't Build your way out of Congestion

Texas Transportation Institute's report on congestion in major metropolitan areas

- 15 years of data on road capacity and traffic congestion
- Covers 70 Metropolitan Areas


There was no significant difference in congestion cost per capita between metro areas that invested heavily in roadway expansion and those that did not expand heavily

## Making a Commitment to Cycling

> \$80 Million Over 10 years

- \$2 Million/Year Recreational Pathways
- \$6 Million/Year AT Corridors
- \$2 Million/Year Bikeways
- \$4 Million/Year Grade Separations


## Increased Capacity

$>50 \mathrm{~km}$ of new bike paths
$>100$ to 150 km of new bikeways
> 3-6 Bike/Pedestrian Grade Separations
$>$ Increase Bicycle Modal Share From 3\% to $7.5 \%$
$>60$ Kt Annual Reduction in GHGs
> \$18.5 Million Annual Savings in Fuel

## Funding

> Costs Amortized over 25 Years
> 50/50 Cost Share with Province

- Amounts to less than 1\% of Highways Funding
> Cash to Capital $\$ 2.044$ Million/Year
- That's just $\$ 3.23$ per capita
- Requires $\$ 1.544$ Million/Year Increase from Budget
- \$259K/Year increase from 2008 funding
> Additional Funding from Reductions/Delays in Planned Roadway Expansion


## Bike to the Future 2009 Capital Budget Presentation Appendices

| Commuter Growth in Winnipeg |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Car | Expected | Bike |  | Mitigated | Car Modal | Bike Modal |
| Year | Commuters | Commuters | Growth | Commuters | Bike Growth | Growth | Share | Share |
| 0 | 313325 | 244707 | 3059 | 8773 | 1053 | 2006 | 78.10\% | 2.80\% |
| 1 | 317242 | 246713 | 3084 | 9826 | 1179 | 1905 | 77.77\% | 3.10\% |
| 2 | 321207 | 248618 | 3108 | 11005 | 1321 | 1787 | 77.40\% | 3.43\% |
| 3 | 325222 | 250405 | 3130 | 12326 | 1479 | 1651 | 77.00\% | 3.79\% |
| 4 | 329287 | 252056 | 3151 | 13805 | 1657 | 1494 | 76.55\% | 4.19\% |
| 5 | 333404 | 253550 | 3169 | 15461 | 1855 | 1314 | 76.05\% | 4.64\% |
| 6 | 337571 | 254864 | 3186 | 17317 | 2078 | 1108 | 75.50\% | 5.13\% |
| 7 | 341791 | 255972 | 3200 | 19395 | 2327 | 872 | 74.89\% | 5.67\% |
| 8 | 346063 | 256844 | 3211 | 21722 | 2607 | 604 | 74.22\% | 6.28\% |
| 9 | 350389 | 257448 | 3218 | 24328 | 2919 | 299 | 73.47\% | 6.94\% |
| 10 | 354769 | 257747 | 3222 | 27248 | 3270 | -48 | 72.65\% | 7.68\% |
| 11 | 359203 | 257699 | 3221 | 30518 | 3662 | -441 | 71.74\% | 8.50\% |
| 12 | 363693 | 257258 | 3216 | 34180 | 4102 | -886 | 70.73\% | 9.40\% |
| 13 | 368240 | 256372 | 3205 | 38281 | 4594 | -1389 | 69.62\% | 10.40\% |
| 14 | 372843 | 254983 | 3187 | 42875 | 5145 | -1958 | 68.39\% | 11.50\% |
| 15 | 377503 | 253025 | 3163 | 48020 | 5762 | -2600 | 67.03\% | 12.72\% |
| 16 | 382222 | 250426 | 3130 | 53783 | 6454 | -3324 | 65.52\% | 14.07\% |
| 17 | 387000 | 247102 | 3089 | 60236 | 7228 | -4140 | 63.85\% | 15.56\% |
| 18 | 391837 | 242962 | 3037 | 67465 | 8096 | -5059 | 62.01\% | 17.22\% |
| 19 | 396735 | 237904 | 2974 | 75561 | 9067 | -6093 | 59.97\% | 19.05\% |
| 20 | 401694 | 231810 | 2898 | 84628 | 10155 | -7258 | 57.71\% | 21.07\% |

Growth in Commuter Modal Share
Annual Growth in Commuters - 1.25\%
Annual Growth in Bike Commuters - 12\%

Effect of Sustained bike growth on Need to Twin Roadways

| Year | Peak HourTraffic |  | Expected Growth | Bikes |
| :---: | :---: | :---: | :---: | :---: |
|  | 0 | 500 | 10 | 14 |
|  | 1 | 508 | 10 | 16 |
|  | 2 | 517 | 10 | 18 |
|  | 3 | 525 | 10 | 20 |
|  | 4 | 533 | 11 | 22 |
|  | 5 | 541 | 11 | 25 |
|  | 6 | 549 | 11 | 28 |
|  | 7 | 557 | 11 | 31 |
|  | 8 | 564 | 11 | 35 |
|  | 9 | 571 | 11 | 39 |
|  | 10 | 578 | 12 | 43 |
|  | 11 | 584 | 12 | 49 |
|  | 12 | 590 | 12 | 55 |
|  | 13 | 595 | 12 | 61 |
|  | 14 | 600 | 12 | 68 |
|  | 15 | 604 | 12 | 77 |
|  | 16 | 606 | 12 | 86 |
|  | 17 | 608 | 12 | 96 |
|  | 18 | 609 | 12 | 108 |
|  | 19 | 608 | 12 | 121 |
|  | 20 | 606 | 12 | 135 |


| Expected Growth | Mitigated Growth | Business as Usual | Annual Growth |
| :---: | :---: | :---: | :---: |
| 1.68 | 8 | 500 | 10 |
| 1.88 | 8 | 510 | 10 |
| 2.11 | 8 | 520 | 10 |
| 2.36 | 8 | 531 | 11 |
| 2.64 | 8 | 541 | 11 |
| 2.96 | 8 | 552 | 11 |
| 3.32 | 8 | 563 | 11 |
| 3.71 | 7 | 574 | 11 |
| 4.16 | 7 | 586 | 12 |
| 4.66 | 7 | 598 | 12 |
| 5.22 | 6 | 609 | 12 |
| 5.84 | 6 | 622 | 12 |
| 6.55 | 5 | 634 | 13 |
| 7.33 | 5 | 647 | 13 |
| 8.21 | 4 | 660 | 13 |
| 9.20 | 3 | 673 | 13 |
| 10.30 | 2 | 686 | 14 |
| 11.53 | 1 | 700 | 14 |
| 12.92 | -1 | 714 | 14 |
| 14.47 | -2 | 728 | 15 |
| 16.21 | -4 | 743 | 15 |

Peak Hour Traffic Growing at 2\%
Bike Traffic Growing at $12 \%$

25 Year Funding Amortization Tables

|  | City |  |  | Provincial | Provincial |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bike | City AT | City | Bike | AT | Provincial |  |
| Year | Paths | Corridors | Total | Paths | Corridors | Total | Total |
| 2009 | \$1,000 | \$3,000 | \$4,000 | \$1,000 | \$3,000 | \$4,000 | \$8,000 |
| 2010 | \$1,120 | \$3,360 | \$4,480 | \$1,120 | \$3,360 | \$4,480 | \$8,960 |
| 2011 | \$1,254 | \$3,763 | \$5,018 | \$1,254 | \$3,763 | \$5,018 | \$10,035 |
| 2012 | \$1,405 | \$4,215 | \$5,620 | \$1,405 | \$4,215 | \$5,620 | \$11,239 |
| 2013 | \$1,574 | \$4,721 | \$6,294 | \$1,574 | \$4,721 | \$6,294 | \$12,588 |
| 2014 | \$1,762 | \$5,287 | \$7,049 | \$1,762 | \$5,287 | \$7,049 | \$14,099 |
| 2015 | \$1,974 | \$5,921 | \$7,895 | \$1,974 | \$5,921 | \$7,895 | \$15,791 |
| 2016 | \$2,211 | \$6,632 | \$8,843 | \$2,211 | \$6,632 | \$8,843 | \$17,685 |
| 2017 | \$2,476 | \$7,428 | \$9,904 | \$2,476 | \$7,428 | \$9,904 | \$19,808 |
| 2018 | \$2,773 | \$8,319 | \$11,092 | \$2,773 | \$8,319 | \$11,092 | \$22,185 |
|  | \$17,549 | \$52,646 | \$70,195 | \$17,549 | \$52,646 | \$70,195 | \$140,390 |


| Cash <br> to | Diverted | Financial <br> Cost |  |  |
| :--- | ---: | ---: | :--- | :--- | :--- |
| Capital |  |  |  |  |
| Twinnings |  |  |  |  |
| Savings |  |  |  |  | | Deficit |
| :---: |
| $\$ 2,044$ |

