City Birmingham Comprehensive Multi-Modal Transportation Plan $2 \approx 10^{10} \text{ m} = 10^{10} \text{ Visioning Workshop}$



Thursday, January 17, 2013 7:00 PM to 9:00 PM, Library

Norman Cox, PLA, ASLA Carolyn Prudhomme, MLA **The Greenway Collaborative, Inc.** Ann Arbor, Michigan

Dan Goodman, AICP, LEED-AP **Toole Design Group** Silver Spring, Maryland







- Overview of Best Practices & Inventory and Analysis Findings
- Individual and Group Exercises:
 - Role Playing
 - Corridor Evaluations
 - Neighborhood Connectors and Trails
 - Downtown Birmingham
 - Woodward Avenue
- Wrap Up and Next Steps



The purpose of today's meeting is to set the course for the preliminary plan



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Revised, September 22, 2012											
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	28										
1. Project Initiation		8		12							
2. Inventory & Analysis		0		Ō		7	11				
3. Draft Recommendations						0	0	11	10		
4. Implementation Action Plan								Ō		8	12
5. Master Plan											$\overline{\mathbf{A}}$
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6. Public Engagement				— 👗	I					T	<u> </u>
Legend:											
Task Duration											
🔲 Web Survey											
Advisory Committee Meetings (6)											
Planning Board Meetings (3)											
City Commission Meetings (5)											
Community Meetings (2)											





- 550 started survey
- 429 (78%) completed survey
- 264 (61.5%) residents of the City of Birmingham completed the survey

Please indicate which of the following best describes your circumstance. For the purposes of this question, a household is considered any type of residence with one or more occupants.



Due to time constraints, we are not going to go over the survey results tonight, they can be downloaded from our project website at www.greenwaycollab.com

We will reference key finding from the survey through out the presentation.

Why Undertake a Multi-modal Plan?

- A means to build consensus on how best to accommodate all uses within the road ROW
- Improve safety for all users especially vulnerable users
- Establish a logical framework for implementation
- Address related goals such as promoting physical fitness through active transportation
- Improve quality of life for residents



Healthy, Livable Communities Complete Streets Cool Cities Smart Growth Safe Routes to School

All have common ground in providing multi-modal transportation options

What do we mean by Multi-Modal?

- City has already focused on vehicles and is considered a walkable city
- This plan looks at how to further integrate pedestrian, bicycle, and transit users into the transportation system
- Considers the impact that new bicycle, pedestrian and transit facilities will likely have on motorized traffic



Fixing the pot hole in front of your house or reducing traffic congestion is not in the scope of this project











Public Policies

- Planning & Zoning
- Design Standards
- Performance Measures
- Decision Making Process
- Universal Design
- Public Transit
- School Transportation
- Maintenance
- Enforcement

Environment & Operations

- Urban Form
- Public R.O.W.
- Public and Private Spaces
- Off-Road Trails
- Wayfinding
- Bicycle, Pedestrian and Transit Support Facilities
- Transit Operations
- Environmental and Art Enhancements

Community Programs

- Ongoing Assessment
- Resources
- Campaigns
- Marketing/ Outreach
- Special Events
- Targeted Encouragement
- School Programs
- Safety Education

Quality of Life Objectives

- Increased Activity Levels
- Crash Reduction
- Improved Personal Safety + Experience
- Enhanced Health and Wellbeing
- Energy Savings
- Pollution Reduction
- Sense of Place
- Robust Economy
- Increase Ridership

City Birmingham Comprehensive Multi-Modal Transportation Plan $2 \approx 10^{10} = 10^{10}$ Understanding the Users



Key issues for pedestrians, bicyclists transit users and motorists





No Such Thing as a Typical User

Wide Range of:

- Ages
- Understanding of traffic laws
- Temporary and longterm physical and cognitive abilities
- Personal preferences
- Travel speeds
- Skills and knowledge
- Vehicle characteristics (for bicyclists and mobility assistance devices)



Need to address a spectrum of users rather than a particular target



- Wide range of temporary and long-term physical abilities
- Various Cognitive abilities
- Different degrees of "traffic tolerance"
- Some may be carrying or pushing cargo / kids



There is no required education program or licensing for pedestrians

Web Survey – Current Walking Destinations



Participants were asked to identify where they currently walk to:

- Downtown
- Rouge Trails
- Barnum Park
- Booth Park
- Shain Park
- Baldwin Public Library
- City Hall
- Community House
- North Old Woodward
 District





- Colored roadways indicate bus routes
- Dots indicate transit stations (current and proposed)

Survey Results

(# of survey participants who currently walk)





- 67 pedestrian crashes in 8 year period
- Both fatalities occurred under very unusual circumstances for which there are no countermeasures
- Winter months had highest number of crashes
- 66% of crashes took place in daylight, 4% at dust and 29% in the dark
- Wet, snowy or icy roads were a factor in 10% of the crashes
- 46% of crashes occurred where traffic control was not present



- 2 fatalities
- 13 crashes resulted in serious injuries



- Fatal A - Incapacitating Injury
- B Nonincapacitating Injury
- O C Possible Injury
- No Injurty

Web Survey – Potential Walking Destinations



Participants were asked to identify where they would like to walk to if safe and comfortable facilities were available

The following destinations have potential for the most growth:

- Downtown Birmingham
- Future Amtrak Station
- Rouge Park Trails
- Baldwin Public Library
- Rail District
- Triangle District
- North Old Woodward
 Commercial Areas
- Booth Park



- Similar pattern to existing walking destinations
- Relative low demand may reflect the high number of people already walking

Survey Results

(# of survey participants who would like to walk







A – Facility with Vertical Buffer



B – Facility with Buffer



C – Facility along Curb



- 5' minimum
- 6' along collectors
- 8' along arterials
- Even wider downtown



D – No Facility, but Passable



E – No Facility, Not Passable

Existing Sidewalk Level of Service

- Majority of sidewalk system is complete
- Gaps along Quarton, Woodward Ave, Cranbrook, Oak and Lincoln

<u>Web Survey Results:</u> Walking is the primary mode of transportation to work or shopping for 14% of survey respondents



 Approximately 40 miles of existing sidewalks along primary roads

Sidewalk Rating

- A Facility with Vertical Buffer
- B Facility with Buffer
- C Facility along Curb
- D No Facility/Passable
- E No Facility/Not Passable

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Existing Neighborhood Sidewalk Coverage



- Majority of the neighborhood sidewalk system is complete
- Incomplete systems in the southwest area of the city

Web Survey Results:

17% of survey respondent with school age children already walk to school

55% are interested in their children walk or bicycling to school





Existing Sidewalk Connectivity



- Most of the City has sidewalk coverage
- Incomplete systems in the southwest area of the city

Web Survey Results:

69.5% of respondents indicated that a complete sidewalk system was very important to them to being able to walk or bike to a desired destination in the future



Importance of Direct Travel for Pedestrians

- Most walking trips for personal business are about ¼ to ½ mile
 - 5 to10 minute walk
- Most people will not go out of there way more than 10% total trip distance
- A 10% detour for a ½ mile walking trip is 264'
 - less than a city block



Signs and barriers have little impact on changing people's behaviors

Crosswalk Spacing



- Great spacing in the downtown
- Need to contrast roads with poor spacing with demand





Road Crossing Difficulty

D

Е

5

6+

40

45 +

Signalized Intersection

Unsignalized Road Crossing

- Woodward Ave,
 Southfield Rd, W 14
 Mile Road, Coolidge
 Hwy, Quarton Road
 and Maple Road are
 Difficult to Cross
- Please note that this analysis is based on the posted speed limit which may vary from the actually running speeds

Web Survey Results: Crossing Woodward Avenue was identified as a major place of concern



15.000 - 20.000

20,000+



- Minimizes crossing distance
- Better for seniors
- Better visibility at corners
- Reduces illegal parking
- Shorter crosswalk equals longer "walk" signal time and reduces the clearance interval (flashing "don't walk" time)
 - Walking "pace" used to calculate signal timing being slowed from 4 feet per second to 3.5 feet per second



Mid-block Crossing with On-Street Parking

- Curb extension places pedestrian into the sightlines on oncoming vehicles
- Reduces the potential of "dart-out" type crashes
- Areas simply marked off for no-parking often become default loading zones









- Ability to cross the street in two stages
- Only requires a gap in traffic from one direction at a time
- Zig-Zag Crossing Provide Room for Multiple Bicycles, Trailers and Tandems
- Lighting is key









Rectangular Rapid Flash Beacon

- High intensity LED flashers that are paired with crosswalk signs to get motorists attention when the crosswalk is in use
- Push-button or passively activated (automatic detection)
- Can be linked to advanced warning signs with LED flashers
- Can be used in conjunction with crossing islands



Most important aspect is that the flashers are only on when someone is about to or is crossing the road



- Good for locations where \bullet crossing islands are not practical or feasible
- **Evaluation of 21** ulletlocations found a 69% reduction in pedestrian crashes after installation
- Minimal delay to ulletmotorized vehicles















Alternating Flashing Red **During Pedestrian** Clearance Interval

Dark Until Activated

Flashing Yellow

Steady Yellow



Steady Red during Pedestrian Walk



• Strong & Fearless

- <1%
- Always Biking
- Any Road Regardless of Condition
- Enthused & Confident
 - 7%
 - Frequently Bike
 - Like Designated Facilities
 Such As Bike Lanes
- Interested but Concerned
 - 60%
 - Occasional Rider
 - Local Roads and Trails
- No Way, No How
 - 33%



Not Really This Clear Cut. There Is Movement Between the Groups.

Developed by Roger Geller, Bicycle Coordinator, Portland Office of Transportation

Web Survey – Current Biking Destinations

Participants were asked to identify where they currently bike to:

- Downtown
- Shain Park



- Not as many existing bicycling trips as walking trips
- Similar pattern as existing walking trips

Survey Results

(# of survey participants who currently bike)





- 44 pedestrian crashes in 8 year period
- Summer months had highest number of crashes
- 93% of crashes took place in daylight, 2% at dust and 4% in the dark
- Wet, snowy or icy roads were a factor in 7% of the crashes
- 34% of crashes occurred where traffic control was not present



- 0 fatalities
- 7 crashes resulted in serious injuries



- B Nonincapacitating Injury
- O C Possible Injury
- No Injurty

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Web Survey – Potential Biking Destinations



Participants were asked to identify where they would like to bike to if safe and comfortable facilities were available

The following destinations have potential for the most growth:

- Rail District
- Downtown Birmingham
- North Old Woodward
 Commercial Areas
- Rouge Park Trails
- Triangle District
- Baldwin Public Library
- Woodward Commercial South of Lincoln
- Future Amtrak Station



 Generally a higher number of potential bicycling trips than potential walking trips

Survey Results

(# of survey participants who would like to bike





- Motorists and bicyclists have designated lanes
 - Better traffic flow than same road without bike lanes
- Delineated by solid white stripe, bike icon pavement markings and signs
- 5' minimum width, increase width as speeds and traffic volumes increase

Web Survey Results:

57.2% of respondents would be comfortable riding a bike lanes on a Minor Road

29.2% would be comfortable riding a bike in a bike lane on a Major Road



Target Audience: "Enthused and Confident" Bicyclists

Context: Used on Primary Roads in urban and suburban areas

Sidewalk/Roadside Pathways vs. Bike Lanes

- Motorists are not looking for bicyclists on sidewalks or roadside paths especially when they are bicycling opposite the flow of traffic
- Bicycling on the sidewalk is generally slower and more inconvenient than bicycling on the roadway.
 - the presence of pedestrians
 - motorists that block the sidewalk or crosswalk.



Bike lanes are the current best practice for primary roads to reduce the number of crashes involving motorists and bicyclists

Potential Bike Lanes through Lane Narrowing





Bike Lane Potential through Lane Narrowing

High Potential (11' travel lanes)



- Marginal Potential (10' travel lanes)
- Low Potential (less then 10' travel lanes)

Potential Bike Lanes through 4 to 3 Lane Conversion

- High Potential on Adams Road & Cranbrook Road
- Marginal Potential on E Maple Ave between Adams and Eton



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Low Potential (Greater than 20,000 ADT)

Not Applicable

Potential Bike Lanes by Rearranging Parking



- High Potential on Old Woodward, however parking would have to be changed to Back-in Angled Parking
- 50% loss of parking on parts of Lincoln, Eton and Oak
 - Will look at this issue as part of workshop



Bike Lane Potential thorugh Rearrangment of On-Street Parking

- High Potential (No loss of parking spaces)
- Moderate Potential (Loss of 50% of Parking Spaces)
- Marginal Potential (Loss of 100% of Parking Spaces)
- Low Potential (Too Narrow)
- Not Applicable

Potential Bike Lanes by Paving the Shoulder



 Potential along Cranbrook Road, Chesterfield Road, Quarton Road, Saxon Drive and part of Oak Street



Bike Lane Potential by Paving the Shoulder

Potential

Not Applicable



- Used where a bike lane is not feasible and/or desirable
- Indicated to motorists to expect bicycles
- Indicates to bicyclists to:
 - Ride with traffic
 - Ride a safe distance away from car doors



Target Audience: "Enthused and Confident" Bicyclists

Context: lower speed roads typically in downtown areas with on-street parking
Potential for Shared Lane Markings



 Majority of the roads have potential for Shared Lane markings



- Shared Lane Markings are generally used where a bike lane is not feasible and/or desirable
- They work especially well in downtown areas where on-street parking is present





- A shared-use path separate from the road but still within a road ROW
- Issues include:
 - Conflicts with motorists at intersecting driveways and roadways
 - Pedestrian / bike conflicts
 - Getting to destinations on other side of the road
 - Transitions to on-road facilities



Target bicyclists: "Interested but concerned"

Context: used along primary roads in areas with limited vehicular conflict points



- Bicycles are physically separated from motorists and pedestrians midblock
- Can be one-way or twoway
- Various approaches to addressing intersections





Used extensively in Europe and growing number of examples in the US

Generally safer mid-block, more dangerous at intersections

<u>Web Survey Results:</u> 73.8% would be comfortable riding a bike on a Cycle Track



- Signs provide wayfinding to key destinations using routes appropriate for most bicyclists
- Often provide a low traffic alternate route to a major road
- Help to identify routes that may not be obvious





Target bicyclist: "Interested but concerned"

Context: generally used on local residential roads and rural routes with moderate speed and traffic volumes.

Web Survey Results:

73.9% would be comfortable riding a bike on a Local Bike Route on a residential road



- Signed as bike routes
- AKA Bicycle & Pedestrian Boulevards
- Primarily on low speed, low traffic volume local roads with connecting pathways
- Traffic calming as necessary
- Often provide alternate route to a major road









Target audience: "Interested but Concerned" bicyclists

Neighborhood Connector System

- Provide good crosswalks at major roadway intersections
- Great for Safe Routes to Schools
- Some routes may be enhanced to become urban greenways
- Coordinate with transit stops





Neighborhood Connector Map

- Potential Routes through Birmingham
- Alternatives to the major roadways
- Need to provide safe road crossings



Transit Users – The First and Last Mile

Effective draw area of a transit stop is determined by a number of factors:

- Mode, walking vs. bike
- Quality of the transit stop (especially with long headways)
 - Shelter
 - Benches
- Facilities leading to the stop
- Adjacent amenities
 - Trip chaining
- Ability to cross the road







Existing Public Transit Use

- SMART Bus
- Amtrak
- Downtown & Woodward south of Maple produce the most transit activity



The city was divided into a grid and 1/4 Mile Cell is used

Transit Activity

(total daily on and off per cell)

200 and over 100 to 200 50 to 100 20 to 50 0 to 20

Web Survey Results:

Walking is the primary mode of transportation for traveling to and from the bus stop for the majority (80%) of respondents who currently ride the bus



- Level of service is determined by freedom of movement
 - Pedestrians, bicyclists and buses tend to get in motorist's way
- A lot of information needs to be processed very quickly – focus is on the immediate threats and opportunities
 - Signs have limited effectiveness
- Travel speed is determined by roadway characteristics



Motorists are much further removed from the environment and have a greater degree of anonymity than pedestrians and bicyclists

Balancing Conflicting Needs

- Solved at the system level – individual streets may favor one mode over another
- There are many networks within a network depending on one's perspective
- Need to recognize that there are inherent conflicts
 - e.g. buses like wide turning radii – their customers do not



Key to balancing corridors is increasing the understanding of the issues from all users perspective

Need to see people, not modes



- Recognize that some roads in the City need to carry large volumes of motor vehicle traffic
- Even for these roads provide non-motorized users commuting to work or shopping the ability to safety move along or across the roadway





Rain gardens



- Sometimes the emphasis should be placed on the needs of the non-motorized users
 - Numerous mid-block crossings
 - Mini-roundabouts
 - Bike lanes
- Designed such that motorists will naturally driving 30 to 35 MPH
- Establish comfortable roads to walk or bike along







Raised median provides refuge for informal road crossings and provides opportunity for raid gardens



- Provide connections to key destinations using local roads and connecting pathways
- Provide wayfinding improvements to help people navigate what can be confusing routes
- Make improvements to the routes to make them more bicycle and pedestrian friendly



(*)





Raised median prevents motor vehicle traffic but permits bicycle and pedestrian traffic

Curb extensions help to calm traffic, shorten road crossing distance and provide areas for rain gardens



Mini-traffic circle replaces stop signs and calms traffic



Generally 5' sidewalks on both sides of the road

One-way choker at road entrance prohibits motor vehicle traffic from entering from one direction, although road remains

open to two-way traffic Pathways through parks and schools can provide

shortcuts unavailable to motorized traffic



 Provide wayfinding along the route

কি Lakeshore Park 3.5 → সিত Novi Town Center 1.5 →

When sidewalks are unavailable, it may be *** desirable to indicate an area for bicycles and pedestrians or sign as a shared roadway

---- Rain garden ---- Traffic Calming

Stop or yield signs favor through movement



Short pathways that connect separated roadways provide --non-motorized shortcuts to other neighborhoods and



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Key issues that influence pedestrians, bicyclist and transit use







 The most effective way to increase the safety of pedestrians and bicyclists is to increase the number of pedestrians and bicyclists



Combined Bicycle Traffic over Four Main Portland Bicycle Bridges Juxtaposed with Bicycle Crashes



Dangerous designs and situations may be off-set by expectations of encountering bicyclists and pedestrians

Less frequent use needs more visible facilities to increase motorist's awareness



Looking beyond facilities, the following factors have been shown to correlate with pedestrian and bicycle use

- Population density
- Land use diversity
- Activity generators
- Transit activity
- Connectivity
- Employment centers



demand is determined by adding up the six demand model components and then an inverse distance weighting calculation is performed where the value of all cells within 1.5 miles is used

Low Demand

City Birmingham Comprehensive Multi-Modal Transportation Plan $2 \approx 10^{10} = 10^{10}$ Vision, Goals & Objectives









- The purpose is to guide the development of the plan
- Drawn from Web Survey responses
 - 429 responses
- Revised by the Project Steering Committee

VISION:

A broad statement of what the plan is to accomplish

- Picture of the preferred future
- Economically phrased

GOALS:

Broad, long-term aims that define accomplishments of the vision

- Define ideal states to be achieved at some unidentified future time
- Guide everyday decisions and actions
- Do not necessarily deal with measureable results
- Target: 3 Goals

OBJECTIVES:

Specific, quantifiable, realistic targets that measure the accomplishment of a goal

- Be specific, what is to be achieved?
- Focuses on milestones and targets
- Make sure the objectives are relevant to the goal and vision
- May be changed when necessary for progress towards goals
- Target: 2 to 5 Objectives per Goal

Braft Vision and Goals and Objectives

Vision

The City of Birmingham seeks to build upon its brand as a walkable community. The purpose of this plan is to provide a document that the community may reference when contemplating future actions regarding infrastructure, policies and programs.

It is envisioned that this plan will guide improvements designed to give people additional transportation choices, thereby enhancing the quality of life in the City of Birmingham

Goals

1. Complete the Infrastructure

Provide an appropriate balance between motorized and non-motorized methods of transportation.

2. A Connected Community

Create a greater sense of community by improving and increasing the opportunities for social interactions between those walking, bicycling and taking transit.

3. Inclusive Transportation System

Develop a multi-modal system that respects the unique needs of all different users.

Goal 1 – Complete the Infrastructure

Goal

Provide an appropriate balance between motorized and non-motorized methods of transportation.

Objectives:

- a) Expand the infrastructure as necessary to create a more pedestrian, bicycle and transit friendly community
- b) Provide convenient and appropriate road crossing opportunities for pedestrians and bicyclists
- c) Provide additional and enhanced bicycle parking options
- d) Enhance transit amenities (e.g. shelters, benches, information resources, etc.) including appropriate pedestrian and bicycle connections to the transit facilities



Goal

Create a greater sense of community by improving and increasing the opportunities for social interactions between those walking, bicycling and taking transit.

Objectives:

- a) Increase the number people walking, bicycling and taking transit, especially for daily transportation trips such as commuting to work and running errands
- b) Increase the number of children walking and bicycling to school

Goal 3 – Inclusive Transportation System

Goal

Develop a multimodal system that respects the unique needs of all different users

Objectives:

- a) Reduce negative and dangerous interactions between motorists, transit users, bicyclists and pedestrians
- b) Enhance the ability for youth, seniors and persons with physical and/or cognitive challenges to travel throughout the community independently
- c) Develop strategies to educate all transportation system users to create an atmosphere of respect among all travelers

Together, the three goals will combine to enhance the safety of the citizens and visitors of Birmingham through appropriate infrastructure, safety in numbers and a greater understanding among all users of the City's transportation system.

Draft Goals and Objectives Input

- A Web Survey will be posted to the project Web Site to collect any remaining comments
- There are paper handouts of the survey available tonight if anyone is interested in filling them out here
- Survey available for one week until next Thursday, January 24

Firefox 🔻

🕄 www.surveymonkey.com/s.aspx?PREVIEW_MODE=D0_NOT_USE_THIS_LINK_FOR_COLLECTION&sm=bZuMPW%2ftGvAz%2bvXPixLSwgU 🏠

City of Birmingham Multi-Modal Transportation Plan: Goals & Objectives

Exit this survey

Community Vision

COMMUNITY VISION: The City of Birmingham seeks to build upon its brand as a walkable community. The purpose of this plan is to provide a document that the Community may reference when contemplating future actions regarding infrastructure, policies and programs.

It is envisioned that this plan will guide improvements designed to give people additional transportation choices, thereby enhancing the quality of life in the City of Birmingham.

- Strongly Agree
- Agree, but with modifications

2/5

Disagree

Please include any additions, modifications or strong objections to the goal and objectives that you feel are needed:

LINK PROVIDED ON PROJECT WEBPAGE AT: WWW.GREENWAYCOLLAB.COM

Next

Prev

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Group Exercise: Role Playing

- Each group has been given a different character that needs help navigating the multimodal system in Birmingham
- Determine the route you would take and describe the issues and potential solutions
- At the end of the exercise each group is going to present
- You have 10 minutes for this exercise



Using the Yellow Marker, Highlight Route on Map.

Group Exercise: Role Playing Report Out

- Choose a spokesperson
- Only one minute
- Read your groups role
- Concisely describe your character's biggest issues



YOU WILL BE CUT OFF AFTER ONE MINUTE (SORRY)

Circle complete after one minute is up



- Divided the roads we would like to look at tonight into two groups
 - Major Corridors
 - Minor Corridors
- We will introduce all of the roads in each category and then ask your opinions on what is most important for each of those roads



Major Corridor: W Maple Ave (West of Southfield Rd)

Issues:

- 4 to 3 lane conversion to add bike lane difficult due to traffic volume
- Distance between crosswalks







Major Corridor: Maple Ave (Between Southfield & Woodward)

Issues:

 Add bike lane through lane narrowing would be very tight







Major Corridor: E Maple Ave (East of Woodward Ave)

Issues:

- 4 to 3 lane conversion to add bike lane difficult due to traffic volume
- Distance between crosswalks









Issues:

- Not enough room for bike lanes
- Distance between crosswalks







Major Corridor: Southfield Road

Issues:

- Not enough room for bike lanes
- Distance between crosswalks



road crossings

Designated

Bike Facilities







No Bike Facilities

Major Corridor: Adams Road (North of Madison St)

 Idea candidate for 4 to 3 lane conversion to add bike lanes







Group Exercise 2: Major Corridors Worksheet

- 10 Minutes for Exercise
- As a group talk about alternatives and provide comments on the corridor
- Individually everyone at the table puts a check in the box that they agree most with





Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question



Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question

Times Up!
Minor Corridor: S. Eton Road (Between Maple & Lincoln)

Issues

- Remove On-street Parking on one side to Add bike lanes
- Remove On-street Parking on both side to add buffered bike lanes
- Road crossings planned in 2013 at Villa, Bowers, Holland, and Cole







Minor Corridor: Lincoln (Between Cranbrook and Southfield)

Issues

 Remove On-street Parking on both sides of road to Add bike lanes







Minor Corridor: Lincoln (Between Southfield and Woodward)

Issues

- Remove On-street Parking on one side to Add bike lanes
- Remove On-street Parking on both sides to add buffered bike lanes







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Minor Corridor: Oak (Between Chesterfield and Quarton Lake)

Safe Pedestrian

road crossings

Frequency of

Pedestrian

road crossings

Designated

Bike Facilities

Issues

 Remove On-street Parking to Add bike lanes



Higher Motor

Vehicle Speeds

Better Motor

Vehicle Flow

No Bike

Facilities



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Group Exercise 3: Minor Corridors

- 10 Minutes for Exercise
- As a group talk about alternatives and provide comments on the corridor
- Individually everyone at the table puts a check in the box that they agree most with





Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question



Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question

Group Exercise: Neighborhood Connector and Trails

- Please Review:
 - Neighborhood
 Connector Routes
 - Proposed Pathways
- Use markers on map to indicate
 - Alternative routes
 - Alternative facilities
 - Concerns with proposals
- 10 Minutes



Group Exercise: Neighborhood Connector and Trails

Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question

Group Exercise: Downtown Birmingham

- Areas Currently Under Study
 - Old Woodward Avenue
 - Woodward Avenue
 - Pierce Street
- Alley & Passages Plan shown on map
- Well known issues are already noted on the map
- 10 Minutes



Add any additional comments by placing a number on the map that corresponds with your comment

Group Exercise: Downtown Birmingham

Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question



- Description
 - Bypass
 - Main Street



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Individual Exercise: Woodward Avenue

- 10 Minutes for Exercise
- Each person get there own worksheet to fill out front and back
- Back side is optional

WOODWARD CORRIDOR EXERCISE

With the current transit and complete streets studies for the Woodward Corridor underway it is uncertain what the corridor may become. Currently the corridor acts as a by-pass through town, however with the new studies occurring there may be opportunities to change that. For this exercise we want you to describe your vision for the Woodward Corridor.

How do you envision the Woodward corridor developing? Would you like it to have more of a "Main Street" feel or would you like it to continue as a by-pass around the downtown? Please put a check in box below.



Additional Comments:

Individual Exercise 6: Woodward Corridor



The following examples show how space is currently allocated in two different location along Woodward Avenue.

Example of Existing Conditions (Type A):							Travel Lane		
Sidewalk								Edg	
Parking								ĝe o	
Service Drive								Ē	
Designated Bicycle Facilities								stin	
Buffer								g Ro	
Designated Transit Facilities								bad	
Example of Existing Condition	ons (Type B):							Trave	Lane
Sidewalk								Edg	
Parking								e of	
Service Drive								Exi	
Designated Bicycle Facilities								stin	
Buffer								g Ro	
Designated Transit Facilities								ad	

Use the following guidelines to assit in filling in the matrix below.

<u>Sidewalk</u> 1 block = narrow 2 blocks= wide 3 blocks= sidewalk plus cafe space or trees

Parking 2 blocks = Parallel Parking 3 blocks= Angled Parking Buffer 1 block = concrete 2 blocks = landscaped 3 blocks = landscaped with trees

Service Drive 2 blocks = One Traffic Lane Designated Bicycle Facilities 1 block = Bike Lane 2 blocks= One-way Cycle Track (with Buffers) 3 blocks= Two-way Cycle Track (with Buffers)

Designated Transit Facilities 2 blocks= Designated Transit Lane

How would YOU allocate space for the following facilities along Woodward Avenue? Travel Lane									l Lane
Sidewalk								Edg	
Parking								eof	
Service Drive								Exi	
Designated Bicycle Facilities								stin	
Buffer								g Ro	
Designated Transit Facilities									



Rules:

- Every opinion is welcome
- Do not criticize or comment on another's opinion
- Let everyone have an opportunity to speak
- One check per person, per question



- Vision, Goals and Objectives Survey available until Thursday, January 24
 - Available on project website
- Preliminary Plan
 Workshop Feb 28
 - Baldwin Public Library
- Comment Cards are available if you would like to share any other thoughts with the design team

City of Birminham Comprehe	ensive N	Multi-r	nodal T	ranspo	rtation l	Plan				
Revised, September 22, 2012										
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	28									
1. Project Initiation		8	12							
2. Inventory & Analysis		0	Ō		7	11				
3. Draft Recommendations					0	Ō	11	10		
4. Implementation Action Plan							0		8	12
5. Master Plan									$\mathbf{\bullet}$	$\overline{\mathbf{A}}$
		15	2 12		17 28	28	11	22		24
6. Public Engagement				1			Ā	Ā		<u> </u>
Legend:										
Task Duration										
🔲 Web Survey										
Advisory Committee Meetings (6)										
Planning Board Meetings (3)										
City Commission Meetings (5)										
Community Meetings (2)										

Please visit the project website at: www.greenwaycollab.com

- Vision, Goals & Objectives Survey
- Web Survey Results
- Draft Inventory and Analysis Maps
- Project Materials and Updates

Questions or Comments



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