CONNECT COLUMBUS
Building Columbus’ Transportation Future

Vision and Goals Meeting
March 31, 2015
Today’s Agenda

1. How We Got Here
2. Connect Columbus Process
3. What Are Others Doing?
4. Columbus’ Goals
How We Got Here
Cities are an invention to maximize exchange (goods, culture, friendship, knowledge) and to minimize travel.

The role of transport is to maximize exchange

...David Engwicht
Transportation investments are powerful and far-reaching.

Transportation accounts for 19 percent of spending by the average household in America - as much as for food and health care combined.
What is the Purpose of Cities?

Access  Mobility
The Good Old Days

Broad and High Streets
• Crowded
• Dangerous
• Dirty
• Unhealthy
• Lacking Greenspace
Multi-Disciplinary Approach

1. Identify Problem
2. Formulate A Response
3. Implement The Solution
Identifying Last Century’s Problems

Infectious Diseases

- TB
- Cholera
- Yellow Fever
- Polio
THE HARTMAN SANITARIUM, COLUMBUS, OHIO.

Great Water Cure Facilities.
CARLSBAD, NAUHEIM, KISSENGEN, VICHY, SPA.
Modified, Grouped Under one Roof by the Dr. Hartman Method.
KALYBA SPRINGS SITUATED IN THE SANITARIUM.
"abundant sunshine, fresh air, fine green parkways will blend together seamlessly with dazzling skyscrapers and seven-lane highways."
## Freeways Are Safe!

<table>
<thead>
<tr>
<th></th>
<th>Rural Areas</th>
<th>Principal Arterial</th>
<th>Minor Arterial</th>
<th>Collector</th>
<th>Interstate</th>
<th>All Highways</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Miles of Travel (Millions)</td>
<td>4,031.36</td>
<td>1,789.58</td>
<td>957.67</td>
<td>4,573.99</td>
<td>11,352.60</td>
<td></td>
</tr>
<tr>
<td>Miles of Highway</td>
<td>1,980.28</td>
<td>1,685.51</td>
<td>1,604.63</td>
<td>467.33</td>
<td>5,737.75</td>
<td></td>
</tr>
<tr>
<td>Total Collisions</td>
<td>3,776</td>
<td>2,128</td>
<td>1,291</td>
<td>2,367</td>
<td>9,562</td>
<td></td>
</tr>
<tr>
<td>Collision Rate (1)</td>
<td>0.94</td>
<td>1.19</td>
<td>1.35</td>
<td>0.52</td>
<td>0.84</td>
<td></td>
</tr>
</tbody>
</table>
Implement The Solution
Federal Aid Highway Act of 1956
Freeways
<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Hours Wasted Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Los Angeles</td>
<td>31.3 hours</td>
</tr>
<tr>
<td>#6</td>
<td>New York</td>
<td>20.8 hours</td>
</tr>
<tr>
<td>#15</td>
<td>Chicago</td>
<td>14.9 hours</td>
</tr>
<tr>
<td>#19</td>
<td>Minneapolis</td>
<td>13.5 hours</td>
</tr>
<tr>
<td>#49</td>
<td>Cincinnati</td>
<td>6.5 hours</td>
</tr>
<tr>
<td>#52</td>
<td>Columbus</td>
<td>5.9 hours</td>
</tr>
</tbody>
</table>
To facilitate travel over longer distances!
Today’s Issues - Energy

Note: Prices are Average Annual prices not Peak Prices so peaks are smoothed out considerably.

Source of Data: US Energy Information Administration
CPI-U Inflation index - www.bls.gov
Unintended Consequences
Above $400K - Create Space

Below $400K - Improve Access
Results Over the Last 50-Years

1) Vehicle Miles of Travel (VMT) Growing Faster Than Population Growth

2) Longer Commute Times

3) Decreased Transit Ridership
Diseases of this Century

- Cardiovascular: Heart Attack
  Stroke
- Respiratory: Asthma
  Emphysema
- Weight Related: Diabetes II
  Heart Disease
- Environmental: Cancer & other “chronic” diseases
Environmental factors influence 85 out of the 102 categories of diseases and injuries listed in The World Health Report.
Today's Issues - Health

Humana Vitality
18,208 likes · 575 talking about this

Health/Medical/Pharmaceuticals
Welcome to HumanaVitality! We are a wellness company that will help you stay motivated to be healthy and reach your fitness goals. Connect with us!

About – Suggest an Edit

Photos
Likes
Welcome
How it works

COLUMBUS
Consumption of Resources
People Left Behind
Connect Columbus

Process
“A good hockey player plays where the puck is. A great hockey player plays where the puck is going to be.”

Wayne Gretzky
Our Process

1. Discovery
2. Desire
3. Design
4. Documentation
Project Schedule
Project Coordination

2016-2040 Columbus Area Metropolitan Transportation Plan

NEXTGEN
IT'S YOUR MOVE

CONNECT COLUMBUS
Move Differently
## Travel Modes

<table>
<thead>
<tr>
<th></th>
<th>Drive Alone</th>
<th>Carpool</th>
<th>Transit</th>
<th>Walk</th>
<th>Other Means</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbus Region</td>
<td>83%</td>
<td>8%</td>
<td>2%</td>
<td>2%</td>
<td>5%</td>
</tr>
<tr>
<td>City of Columbus</td>
<td>81%</td>
<td>8%</td>
<td>3%</td>
<td>3%</td>
<td>5%</td>
</tr>
</tbody>
</table>

Source: 2009-2013 American Community Survey 5-Year Estimates
Job Access

Total primary jobs, by tract

<table>
<thead>
<tr>
<th>Current Access</th>
<th>New Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 200</td>
<td>0 - 200</td>
</tr>
<tr>
<td>201 - 1,000</td>
<td>201 - 1,000</td>
</tr>
<tr>
<td>1,001 - 5,000</td>
<td>1,001 - 5,000</td>
</tr>
<tr>
<td>5,001 - 15,000</td>
<td>5,001 - 15,000</td>
</tr>
<tr>
<td>Over 15,000</td>
<td>Over 15,000</td>
</tr>
</tbody>
</table>
Sidewalks
Transit Decision Drivers

- Frequency
- Hours
- Safety
- Cost (Relative To Driving)
Transit Commitment - Denver

$6.1 Billion Investment In 122 Miles of Transit
Transit Commitment - Charlotte

• $8.9 Billion Investment In Transit
• Over $1 Billion in Private Investment Before Opening
$2.6 Billion Added to Local Economy By Getting Citizens to Drive 4 Less Miles Per Day
Transit Commitment – Salt Lake City

SLC tops the US in transit connecting people and jobs
MBTA Key Bus Routes

- MBTA’s 15 highest ridership bus routes
- Capital Improvements
MBTA Key Routes

- Bus stops too close
- Poorly located boarding area
- Signage issues
- Lack of accessibility
- Bus stop too short
Typical Improvements

Stop Consolidation

Signal Improvements

Curb Extensions

Improved Amenities

Spacing

- 730 ft
- 320 ft
- 410 ft
Cycle Design Is Not One-Size-Fits-All
For the price of a mile of highway, you too can have a bike-friendly city

Portland, Oregon is America's iconic cycling city, but I'm happy to say we're being swiftly overtaken as everywhere else gears up

Elly Blue
cetheguardian.com, Monday 28 October 2013 09.45 EDT

Cars. They're noisy and ugly. They smell terrible and cause disease on an epidemic proportion. They move way too fast, take up an extraordinary amount of space, are a leech on the economy, and have a propensity to run people over, especially kids. What's to love?
Parking Prices Affect Mode Choices
For Commuters to Downtown Los Angeles

Price of parking at work ($/day)

Drive solo
Transit
Carpool

Source: Estimated from Willson (1991)
Grow Differently
120,000 Outside 680

10,000 Inside 680

Sustain Louisville
Reduce VMT 20% by 2020
2035 Greater Infill Focus

100,000 Outside 680

30,000 Inside 680
CONGESTION IN 2035 Enhancements Scenario
Greenhouse Gasses

- **AB 32 Target**
- **Sustainable City Plan Target**

- Existing
- 1984 Plan (2030)
- Proposed LUCE (2030)
# Street + Transit Costs

<table>
<thead>
<tr>
<th>Cost Type</th>
<th>Annualized Cost</th>
<th>Annual Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annualized Street Construction Cost</td>
<td>$2,645,000</td>
<td>$68,000</td>
</tr>
<tr>
<td>Annual Street Maintenance Cost</td>
<td>$193,000</td>
<td>$136,000</td>
</tr>
<tr>
<td>Annualized Transit Capital Cost</td>
<td>$35,000</td>
<td>$17,000</td>
</tr>
<tr>
<td>Annual Transit Operating Cost</td>
<td>$235,000</td>
<td>$119,000</td>
</tr>
<tr>
<td>TOTAL COSTS</td>
<td>$3,108,000</td>
<td>$340,000</td>
</tr>
</tbody>
</table>
Put Rights of Way To Work
Support Retail and Restaurant
Support Retail and Restaurant

Clematis Street – West Palm Beach, FL
Fort Washington Way
Cincinnati, Ohio
Fort Washington Way
Cincinnati, Ohio
Fort Washington Way
Cincinnati, Ohio
Fort Washington Way
Cincinnati, Ohio

Underground transit center
Fort Washington Way
Cincinnati, Ohio
City turns the park into parking (with freeway access)
Riverfront Parkway - Chattanooga
Riverfront Parkway - Chattanooga
Striking A Balance

VEHICULAR SERVICE

Seconds

Large Gain

LIVABILITY

CONNECT COLUMBUS
We can do nothing and just take our chances…

…or we can choose now to plan for change.
Columbus

Tomorrow
Walking is a pleasure everywhere for everyone
Cycling is comfortable for all ages
The needs of daily life are a walk away
Transit is fast, frequent, reliable and dignified
Everyone knows and loves their neighborhood

http://www.flickr.com/photos/joebehr/1782474408/
Food and energy are local and precious
Social networks are fostered
215 Planning Documents Reviewed

Of those 215 planning documents reviewed by the Connect Columbus team, how many documents supported each of the goals?

- Neighborhood Development: 31
- Economic Development: 29
- Health and Safety: 23
- Access: 21
- Sustainability: 13
- Resiliency: 5
- Placemaking: 4
- Equity: 2
Discussion - Draft Project Goals

- **Health and Safety:** Promote health, safety and welfare throughout neighborhoods within the City
- **Access:** Increase mobility options for residents, employees and visitors
- **Equity:** Provide transportation choices that are equitable for all citizens
- **Sustainability:** Reduce resource consumption and promote sustainable and renewable transportation options
- **Resiliency:** Maximize infrastructure system resiliency to adapt to expected and unexpected changes
- **Neighborhood Development:** Protect and enhance Columbus' diverse neighborhoods
- **Economic Development:** Build Columbus' infrastructure to attract and retain key jobs and minds
- **Placemaking:** Invest in transportation as a driving force for community development and place making
THANK YOU