Cycloplan

(Cyclopath... for Planners!)

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Presented by L. Terveen, Lead Professor and J. Andrew
Cycloplan

- Cyclopath
  - University of Minnesota GroupLens Research
  - A “geowiki” routing and social media tool for cyclists
- Cycloplan
  - Led with direction from the Metropolitan Council along with Mn/DOT and local partners
  - Funded with a federal Non-Motorized Transportation Pilot Program grant from Transit for Livable Communities
Cycloplan

- Project Manager
  - James Andrew, Metropolitan Council
- GroupLens Research Lead Professor
  - Loren Terveen
- GroupLens Research Lead Programmer
  - Landon Bouma
- Cyclopath Founder
  - Reid Priedhorsky
What Planners Want!??

- Collaboration
  - Share private GIS data with other Agencies
- Transparency
  - Share new Facility Designs with the Public
  - Provide a Forum for the Public to Comment
- Clairvoyance!
  - If I build it, will they come?
  - Predict what happens when facilities change.
This is Cyclopath
Share Private GIS Data
Share Private GIS Data

Cyclopath

Welcome! | Sign Up | Privacy | Maps | Help

Items > Public Map

Name: Public Map

E-mail Updates: Send me updates

Manage Attributes

Direction
Speed Limit
Total number of lanes
Width of outside lane
Usable shoulder space

Add New Attribute

Add New Attribute
Define New Attribute, E.g., Ramsey Cty. TID
Share Private GIS Data

Set Access Permissions
Share Private GIS Data

Apply New Attribute to Features
Combine Agency Data

Merge Two Maps
Combine Agency Data

Resolve Conflicting Data
Routing Analytics

A Route Across the Stone Arch
Routing Analytics

A Route

If the Stone Arch Did Not Exist
Routing Analytics

Private Login For Planners And Engineers
Routing Analytics

Landing Screen Shows Work Queue: Tasks Can Take a While
Routing Analytics

Analyze Differences Between Networks
Routing Analytics

Filter By Region, No. of Routes, and more
Routing Analytics

Wait Patiently For Results
Routing Analytics

Et Voilà!

Red: With Facility  
Blue: W/out Facility  
The darker the color, the more traveled the route.
Metropolitan Council Use of Cycloplan

Next Steps:

- Usability Testing This Week
- Refinement of Tool (June 2011)
- User Guide (Summer 2011)
- Public Release (Fall 2011)
- Regional Bikeways Inventory
- Regional Bikeways Gap Analysis and Master Study
Existing and Planned Bikeways - Twin Cities Metro Area
Minneapolis / St. Paul - April 2007

Existing Bikeways
- Bike Lane or Shoulder 5 feet or wider
- Paved Trail
- Non-paved Trail
- Other / Unclassified Bikeways

Planned Bikeways
- Bike Lane or Shoulder 5 feet or wider
- Paved Trail
- Non-paved Trail
- Other / Unclassified Bikeways

Rivers and Major Lakes
City and Township Boundaries
County Boundaries
Centerline Streets

Bikeways data was prepared for the Metropolitan Council by the Minnesota Department of Administration's Land Management Information Center in cooperation with the Minnesota Department of Transportation, counties and most cities in the metropolitan area.

While every effort was made to collect and map the most current data available, portions of this map may now be out of date. Metropolitan Council Publication: 36-67-029
Regional Bikeways Inventory

- Data Attributes Include:
  - Bikeway type
  - Planned/Existing
  - Jurisdictional Agency

- Conflation of 2007 Bikeways Dataset with Cyclopath (almost completed)
  - Revealed several inaccuracies in the 2007 map
  - Met Council staff will refine the dataset prior to release
Regional Bikeways Gap Analysis and Master Study

- The purpose of collecting an inventory within Cyclopath
  - Shows the existing and planned official bikeways within the entire roadway and trail context
  - Official bikeways can be evaluated for effectiveness in promoting connectivity
  - Agencies can plan across jurisdictions
  - Meaningful public feedback on existing and proposed bicycle routes
Regional Bikeways Gap Analysis and Master Study

- Gap Analysis
  - “Official” Bikeways for baseline network
  - Complemented by full roadway and trail network
  - Routing analytics ("modeling")
- Summarize Existing Conditions
- Gap Prioritization
A Tool For Everyone

- Cycloplan Users Guide
  - To be produced by Metropolitan Council and GroupLens
- An Open Tool
  - Protected and private workspace
  - Ability to solicit public involvement on plans and projects and create unique maps for use by agencies or the public
- A Dynamic Tool
  - Continual updates
Thank you