BBBike @ CPH

Copenhagen by Bike
A Route Planner for Cyclists
in Perl/TK

YAPC::EU::2008, Copenhagen, 14-Aug-2008
Wolfram Schneider, Andreas Hetey, Berlin.pm
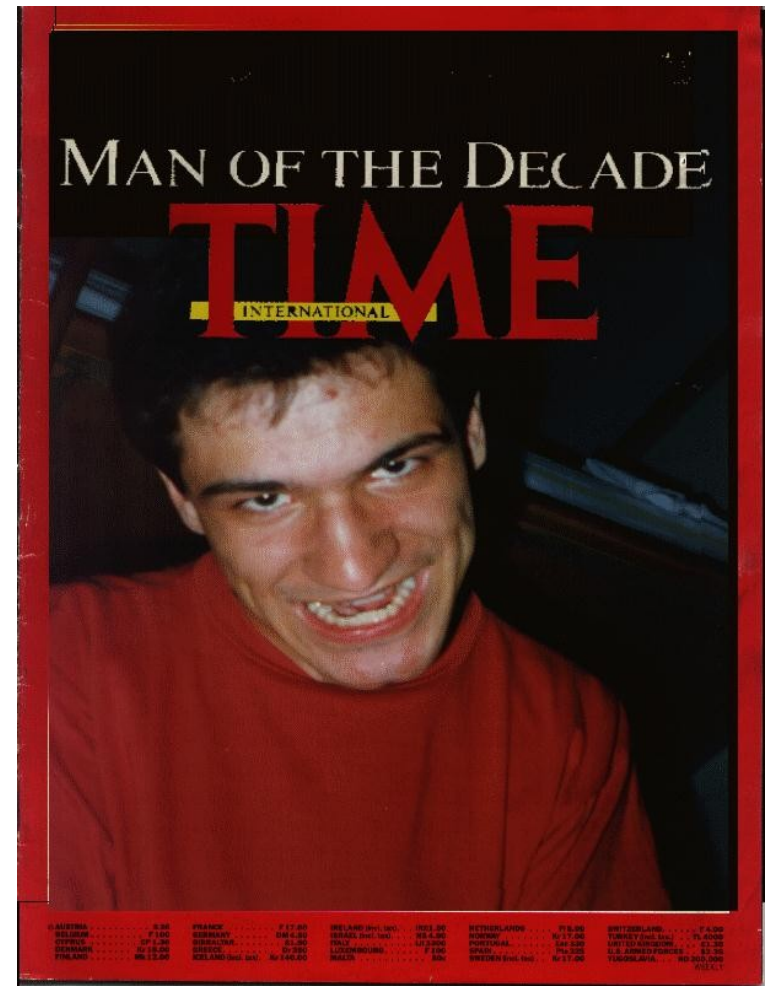
BBBike

- A route planner for cyclists
  in Berlin & Brandenburg (www.bbbike.de)

BBBike

- written in Perl/Tk

- data collected manually
  by author Slaven Rezić
  and contributers

- presented 2000 at
  2. German Perl Workshop

  (Picture found
  at Google Images)

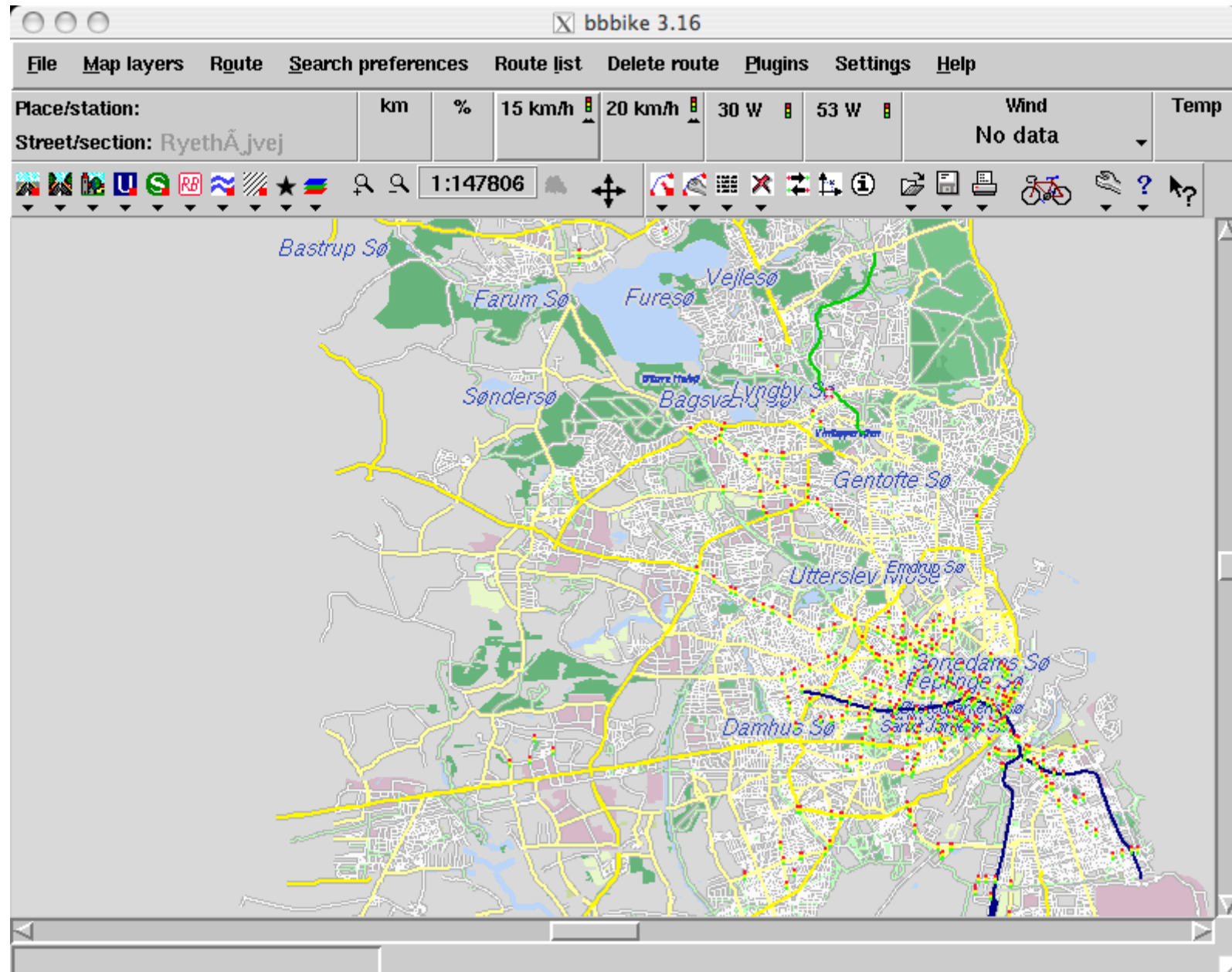# Example Route @ Berlin

Some Features

- list of all streets, metro stations, ...

- select street quality

- other preferences (no cars, no hills, green way, avoid carrying, obey oneway streets strictly, traffic light optimization, ...)

- realtime data (traffic, wind, temperature)
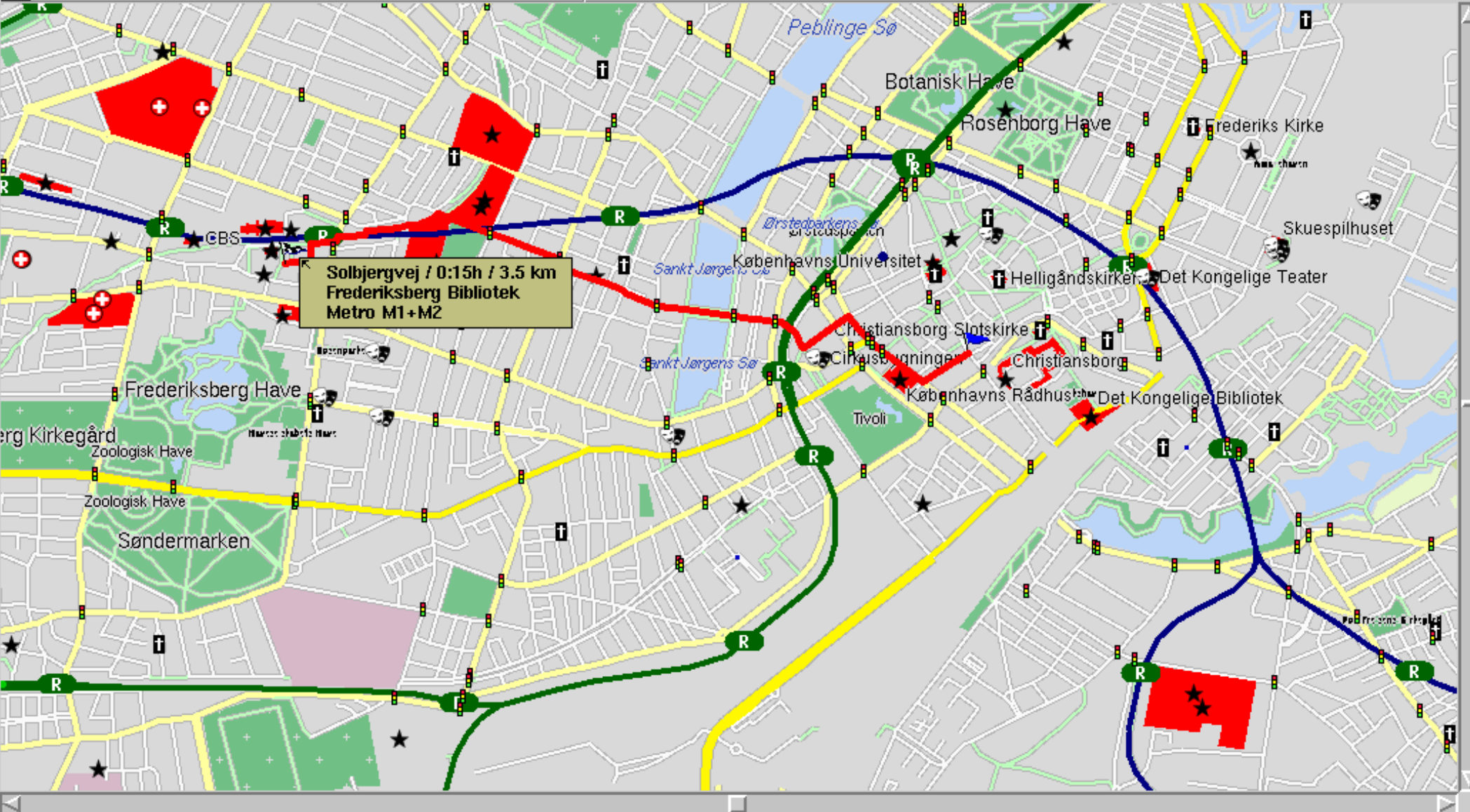
Porting to Copenhagen

- modifying bbbike for YAPC::EU::2008
- data taken from openstreetmap.org

Copenhagen Map

File   Map layers   Route   Search preferences   Route list   Delete route   Plugins   Settings   Help

Place/station:		km	%	15 km/h	20 km/h	30 W	53 W	Wind	Temp
Street/section: Solbjergvej		3.5	15	0:15 h	0:12 h	0:15 h	0:12 h	No data	

1:18475

Peblinge Sø

Botanisk Have

Rosenborg Have

Frederiks Kirke

CBS

Ørstedparkens Sø

Sankt Jørgens Sø

Københavns Universitet

Skuespilhuset

Helligåndskirken

Det Kongelige Teater

Solbjergvej / 0:15h / 3.5 km
Frederiksberg Bibliotek
Metro M1+M2

Christiansborg Slotskirke

Christiansborg

Cirkusbygningen

Frederiksberg Have

Københavns Rådhus

Det Kongelige Bibliotek

Tivoli

...rg Kirkegård

Zoologisk Have

Zoologisk Have

Søndermarken

Getting the Map

- www.openstreetmap.org

- selecting area, export data as XML
  => save as copenhagen.osm

- converting xml to bbbike-format (script in current cvs)

```
./miscsrc/osm2bbd -f -map bbbike
-center  12.435,55.579
-o data-copenhagen copenhagen.osm
```

Export   Close

Area to Export

55.7

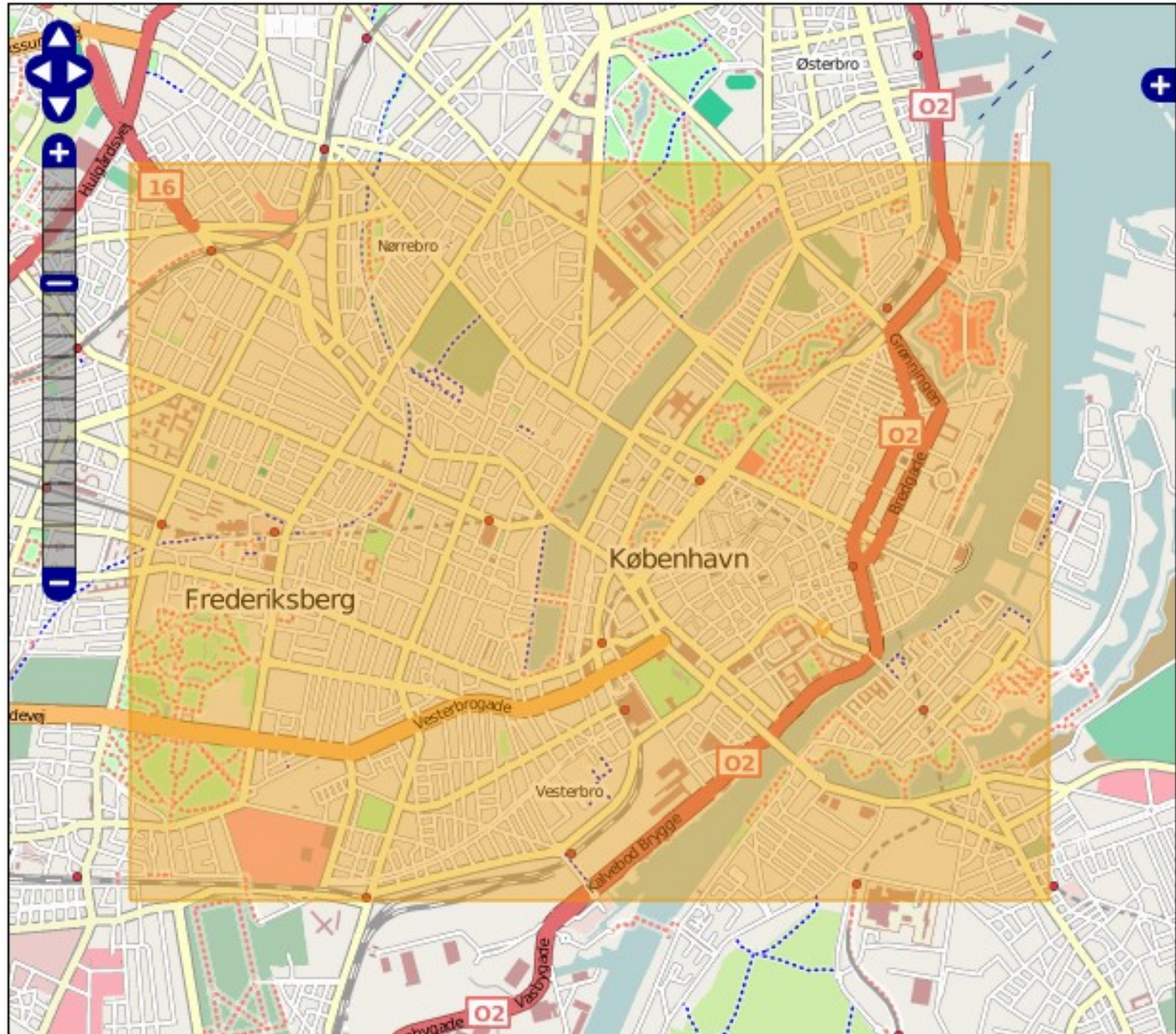12.5201   12.6025

55.6627

Manually select a different area

Format to Export

- ⦿ OpenStreetMap XML Data
- ○ Mapnik Image
- ○ Osmarender Image
- ○ Embeddable HTML

Licence

OpenStreetMap data is licensed under the Creative Commons Attribution-ShareAlike 2.0 license.

Export

Things To Do

- data from openstreetmap not bicycle optimized

- no height information (hills)

- no street quality (eg. cobblestone)

- too few traffic lights

- sea layer missing (known bug)

What can you do?

- support the openstreetmap project for your city or area!

- edit the openstreetmap data

- add new information (for cyclists)

Thank You

- Thanks to Slaven Rezić
- Thanks to openstreetmap project

www.bbbike.de
Sourcecode http://bbbike.sourceforge.net/

www.openstreetmap.org

Live Demo ... ?

- route from CBS to "The Globe"
- route from CBS to social event