TrilliumSolutions

Creating a Seamless Information Experience for the Transportation End-User

25 October 2010

19th National Conference on Rural Public and Intercity Bus Transportation

Aaron Antrim | Trillium Solutions, Inc.

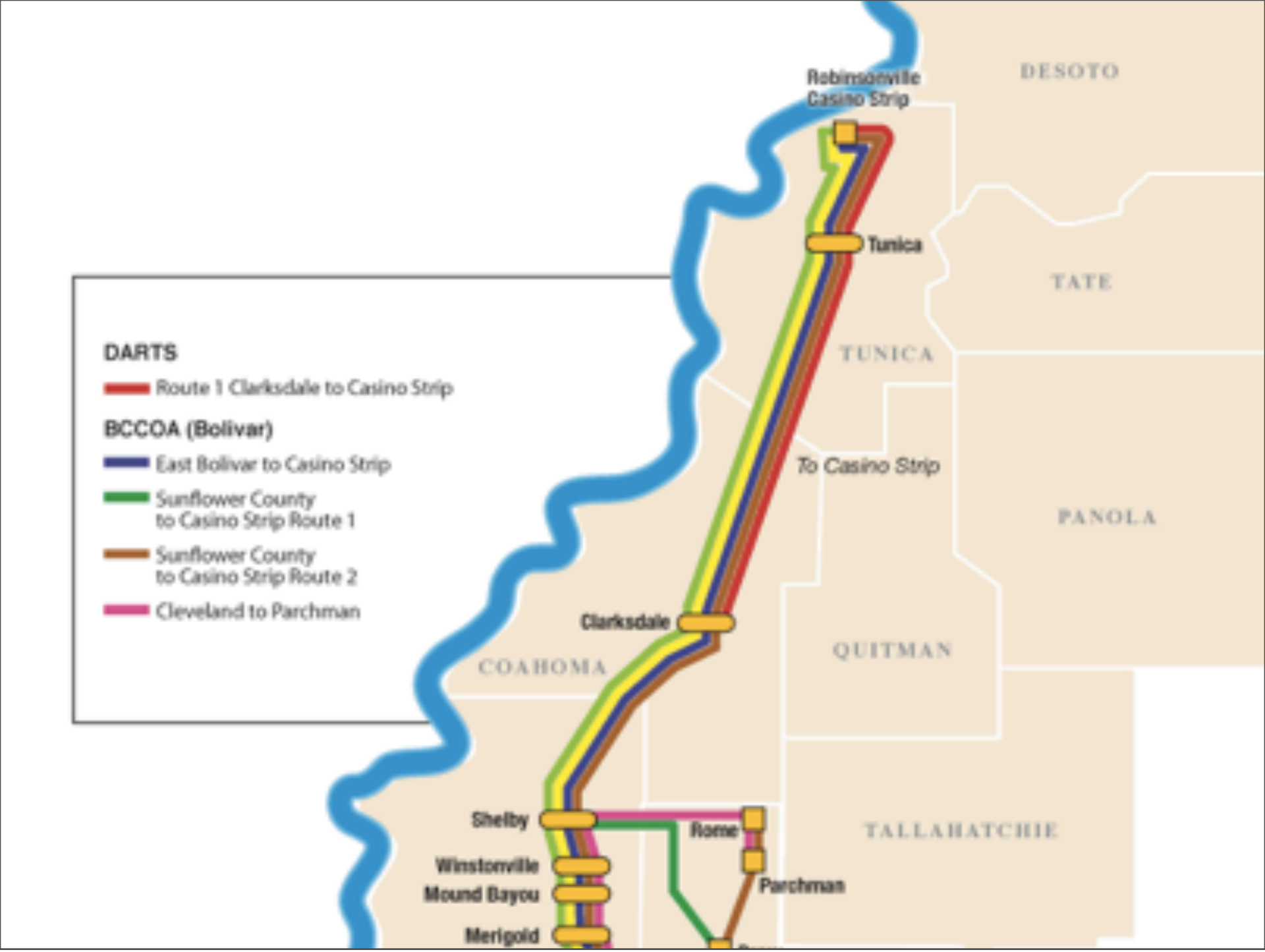
What if…

drivers needed to consult different maps for interstate highways, state highways, county roads, and city streets?

This is how most transit information is presented today.

Project: Deltarides.com (Mississippi Delta Region)

Regional map | Delta Rides
http://www.deltarides.com/maps/
Google
DELTA RIDES
MOVING MISSISSIPPI FORWARD
Fixed Routes
Door-to-door
Transit Providers
Trip Calendar
Click a route in the map or legend, or an agency name, for more detail.
DARTS
Route 1 Clarksdale to Casino Strip
BCCOA (Bolivar)
East Bolivar to Casino Strip
Sunflower County to Casino Strip Route 1
Sunflower County to Casino Strip Route 2
Cleveland to Parchman
DELTA RIDES
Tunica to Vicksburgs
Tunica to Yazoo City
HEGA
Robinsonville Casino Strip
Tunica
Clarksdale
To Casino Strip
Shelby
Winstonville
Mound Bayou
Merigold
Renova
Cleveland
Rome
Drew
Ruleville
Moorhead
Indianola
MDCC
Greenwood
Greenville
Leland/
Elizabeth
DESOTO
TATE
TUNICA
COAHOMA
BOLIVAR
SUNFLOWER
WASHINGTON
deltarides.com
• Interactive regional map
• Multiple agencies included (12)
• Cost for entire website: ~$5,000


DARTS
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Winstonville
Mound Bayou
Merigold
Rome
Parchman
DESOTO
TATE
TUNICA
PANOLA
QUITMAN
COAHOMA
TALLAHATCHIE

BCCOA Schedule - East Bolivar County	
Service Monday through Sunday	
CLEVELAND to SHELBY to CASINO STRIP	AM
Cleveland: BCCOA Office	4:30
Merigold: One Stop	4:40
Mound Bayou: Smitty's	4:45
Winstonville: Post Office	4:55
Shelby: Double Quick Meet	
BCCOA Shuttle to Casino Strip	5:00
Casino Strip	6:30
CASINO STRIP to SHELBY CLEVELAND	**PM**
Casino Strip	**4:00**
Shelby: Double Quick	
BCCOA Shuttle to Benoit	**5:30**
Winstonville: Post Office	**5:40**
Mound Bayou: Smitty's	**5:50**
Merigold: One Stop	**6:00**
Cleveland: BCCOA Office	**6:10**

Fixed Routes | Door-to-door | Transit Providers | Trip Calendar

This trip calendar shows intercity public transit trips that are scheduled for the near future. If you would like to find out how to make a reservation for one of these trips, click on the e-mail link for that trip. Or call the transit provider shown for the trip.

Note that these trips are **in addition** to the regularly schedule bus routes shown under **Fixed Routes**.

Logout

Transit Trip Calendar

Search Calendar for: By: Origin Go

+ Add Event

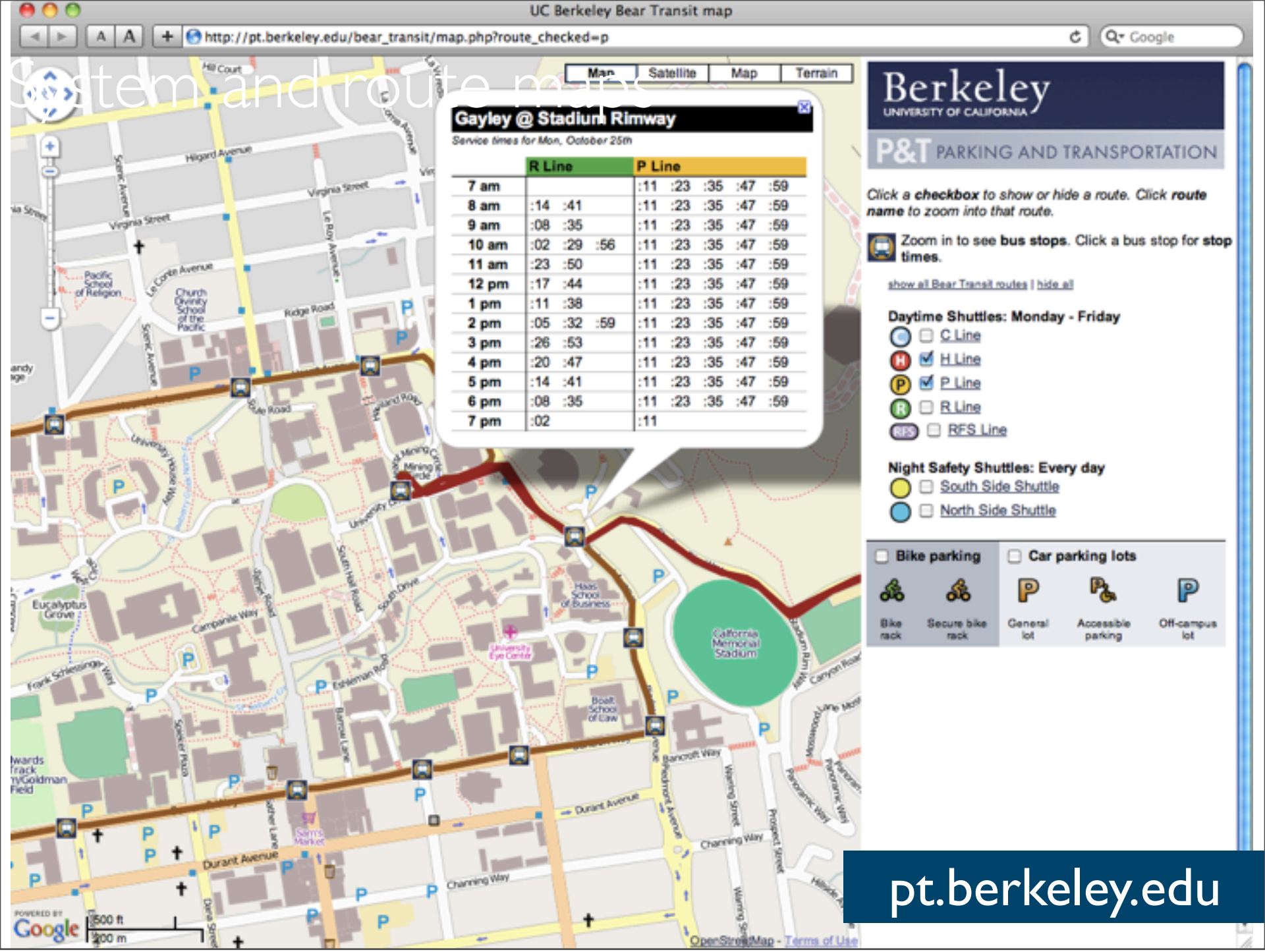
date	start time	origin	destination	transit provider	email	
03-13-08	6:00 am	Shelby, MS	Jackson, MS	BCCOA Transportation	email	edit
03-13-08	7:00 am	Lambert, MS	Clarksdale, MS	BCCOA Transportation	email	edit
03-13-08	7:30 am	Shelby, MS	Greenwood, MS	BCCOA Transportation	email	edit
03-13-08	9:15 am	Rosedale, MS	Clarksdale, MS			
03-13-08	8:00 am	Hollandale, MS	Greenville, MS			
03-13-08	8:00 am	Hollandale, Ms	Leland, Ms			
03-13-08	9:15 am	Rosedale, MS	Greenville, MS			
03-	9:50			BCCOA		

deltarides.com

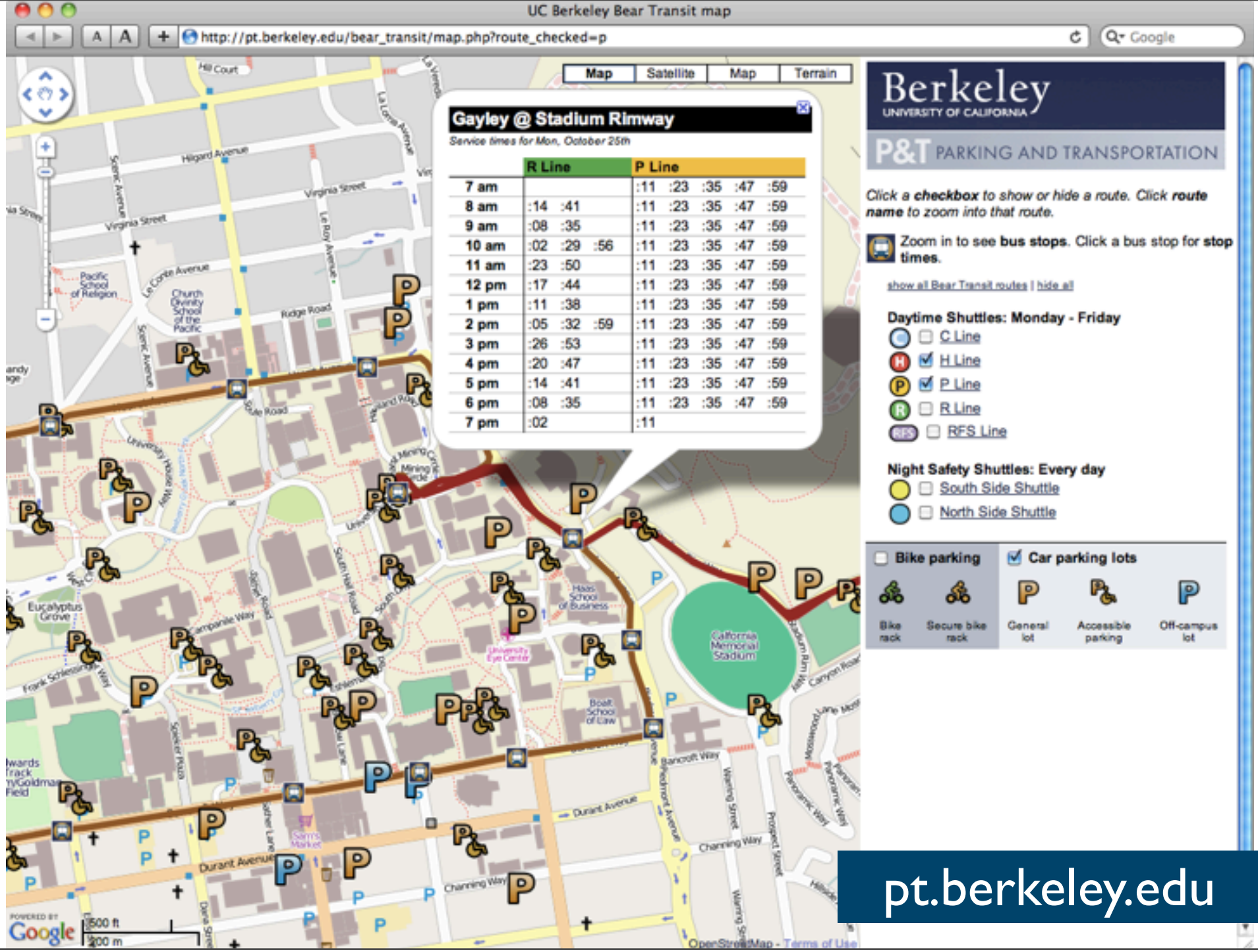
- Trip calendar shows one-time or reoccurring scheduled trips

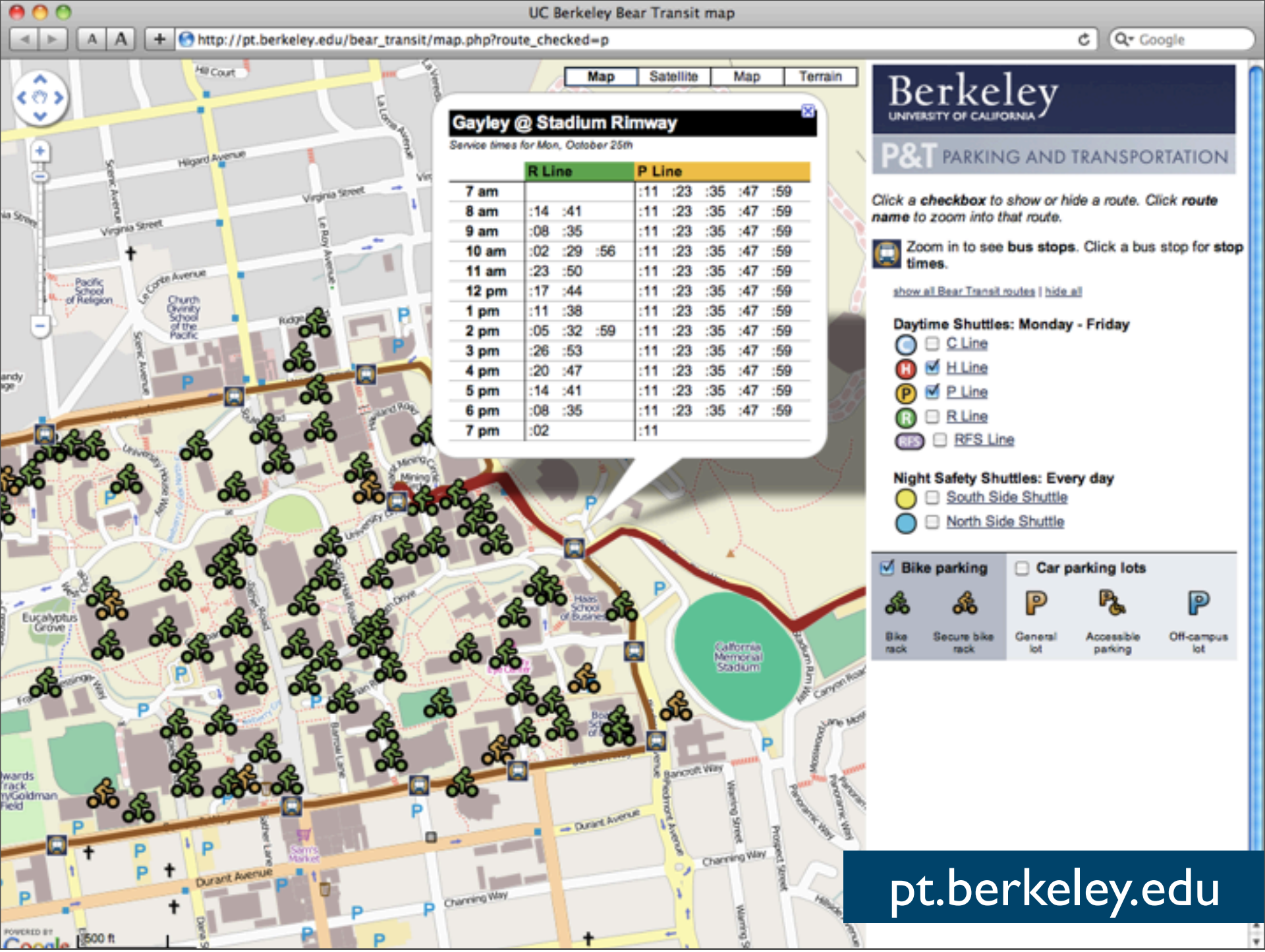
Project: UC Berkeley Bear Transit multi-modal map, timetables, and trip planner

System and route maps



pt.berkeley.edu


UC Berkeley Bear Transit map
http://pt.berkeley.edu/bear_transit/map.php?route_checked=p
Google
Map
Satellite
Map
Terrain
Gayley @ Stadium Rimway
Service times for Mon, October 25th
R Line
P Line
7 am :11 :23 :35 :47 :59
8 am :14 :41 :11 :23 :35 :47 :59
9 am :08 :35 :11 :23 :35 :47 :59
10 am :02 :29 :56 :11 :23 :35 :47 :59
11 am :23 :50 :11 :23 :35 :47 :59
12 pm :17 :44 :11 :23 :35 :47 :59
1 pm :11 :38 :11 :23 :35 :47 :59
2 pm :05 :32 :59 :11 :23 :35 :47 :59
3 pm :26 :53 :11 :23 :35 :47 :59
4 pm :20 :47 :11 :23 :35 :47 :59
5 pm :14 :41 :11 :23 :35 :47 :59
6 pm :08 :35 :11 :23 :35 :47 :59
7 pm :02 :11
Berkeley
UNIVERSITY OF CALIFORNIA
P&T PARKING AND TRANSPORTATION
Click a checkbox to show or hide a route. Click route name to zoom into that route.
Zoom in to see bus stops. Click a bus stop for stop times.
show all Bear Transit routes | hide all
Daytime Shuttles: Monday - Friday
C Line
H Line
P Line
R Line
RFS Line
Night Safety Shuttles: Every day
South Side Shuttle
North Side Shuttle
Bike parking
Car parking lots
Bike rack
Secure bike rack
General lot
Accessible parking
Off-campus lot
pt.berkeley.edu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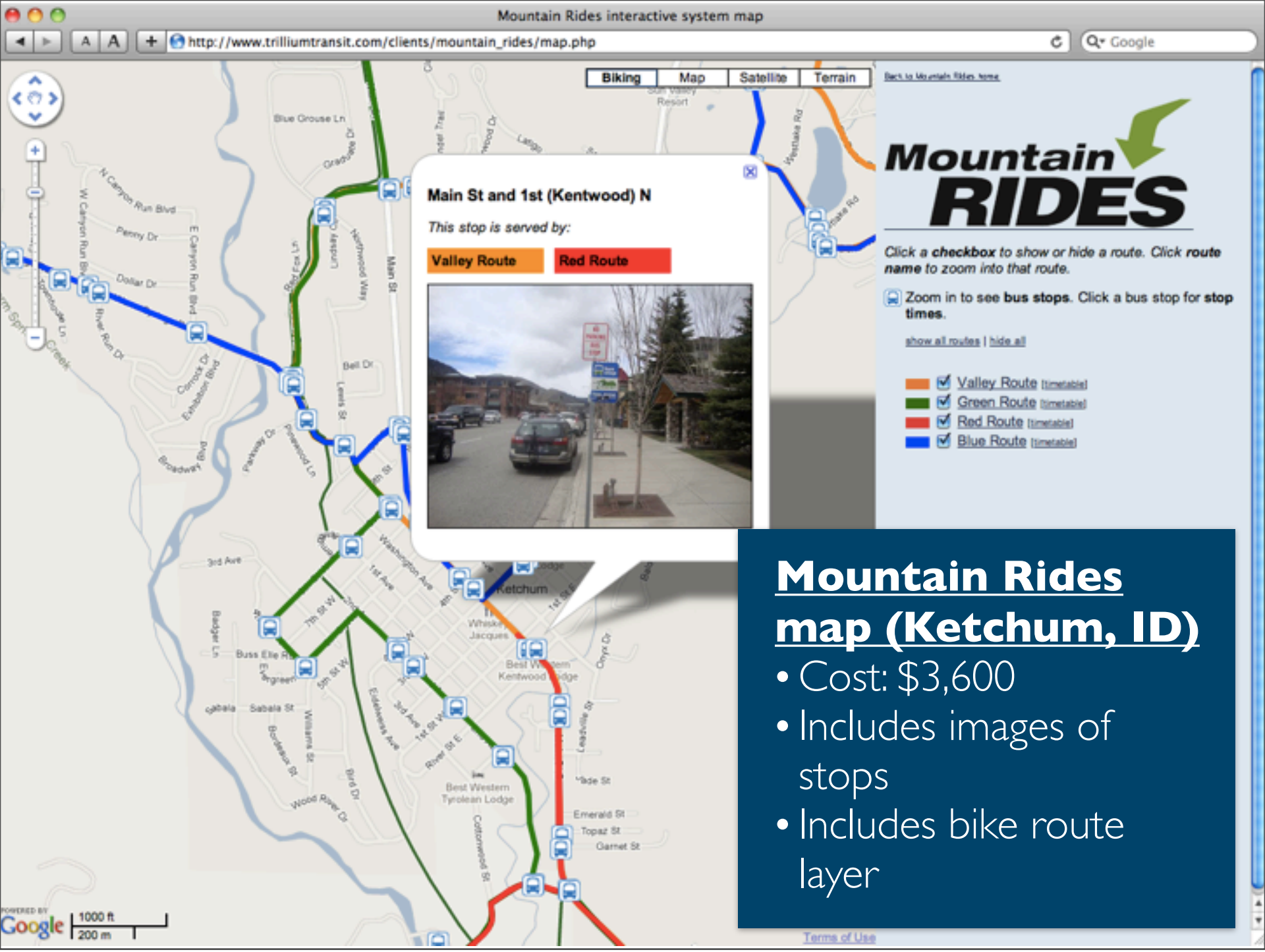
RFS Line
Night Safety Shuttles: Every day
South Side Shuttle
North Side Shuttle
Bike parking
Car parking lots
Bike rack
Secure bike rack
General lot
Accessible parking
Off-campus lot
Hill Court
Hilgard Avenue
Virginia Street
Le Conte Avenue
Pacific School of Religion
Church Divinity School of the Pacific
Ridge Road
Scenic Avenue
Le Roy Avenue
La Loma Avenue
University House
Eucalyptus Grove
Haas School of Business
California Memorial Stadium
Durant Avenue
Channing Way
Bancroft Way
Dana Street
Bowditch Street
Prospect Street
Warring Street
Panoramic Way
Sather Lane
Barrow Lane
Sam's Market
500 ft
pt.berkeley.edu

Project: Mountain Rides map (Ketchum, Idaho)


Mountain Rides interactive system map
http://www.trilliumtransit.com/clients/mountain_rides/map.php
Google
Biking
Map
Satellite
Terrain
Main St and 1st (Kentwood) N
This stop is served by:
Valley Route
Red Route
Mountain RIDES
Click a checkbox to show or hide a route. Click route name to zoom into that route.
Zoom in to see bus stops. Click a bus stop for stop times.
show all routes | hide all
Valley Route [timetable]
Green Route [timetable]
Red Route [timetable]
Blue Route [timetable]
Mountain Rides map (Ketchum, ID)
• Cost: $3,600
• Includes images of stops
• Includes bike route layer
Terms of Use
1000 ft
200 m

Project: Humboldt County Transportation Services Guide

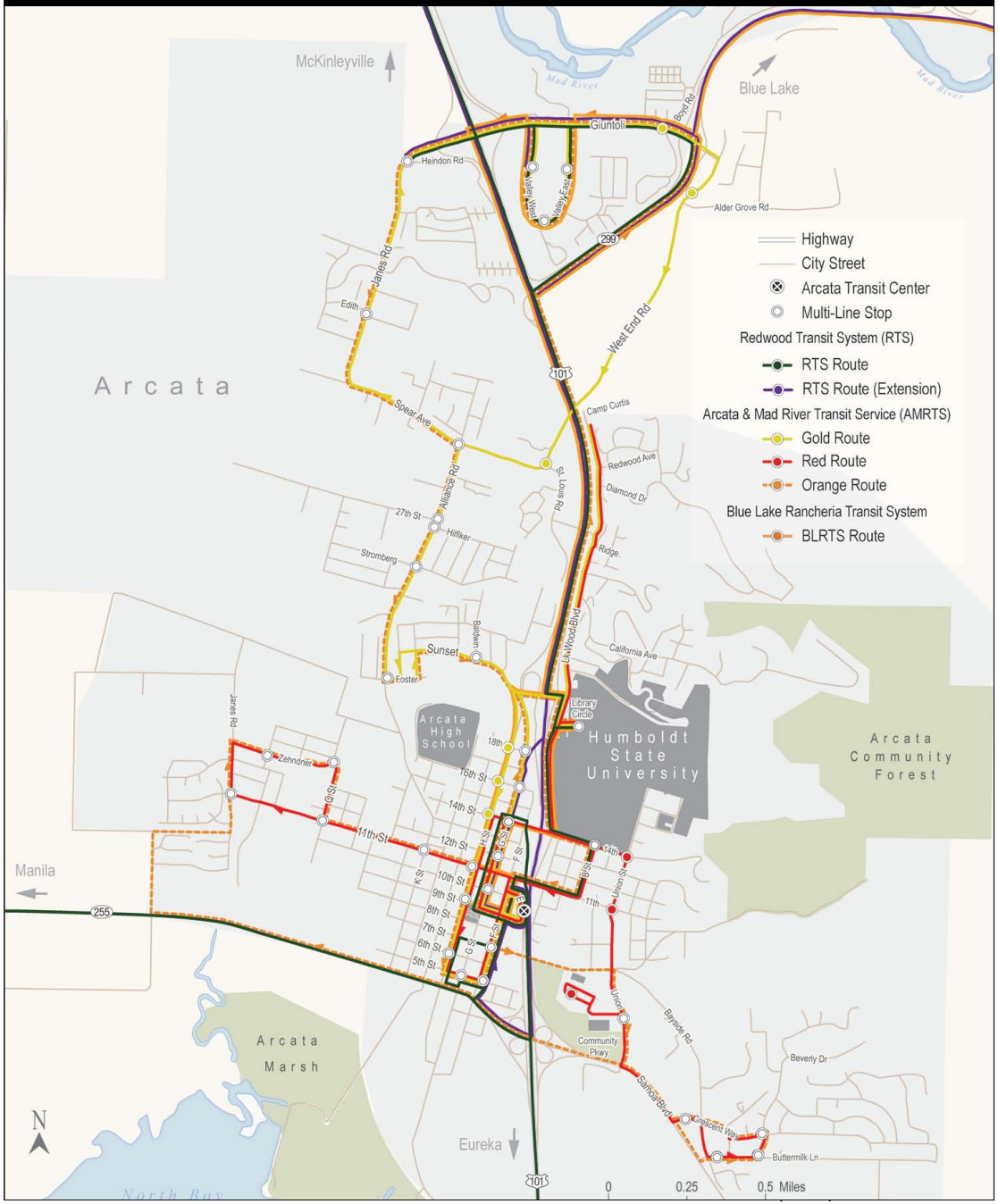
Humboldt County Transportation Services Guide

for public transit and human services transportation

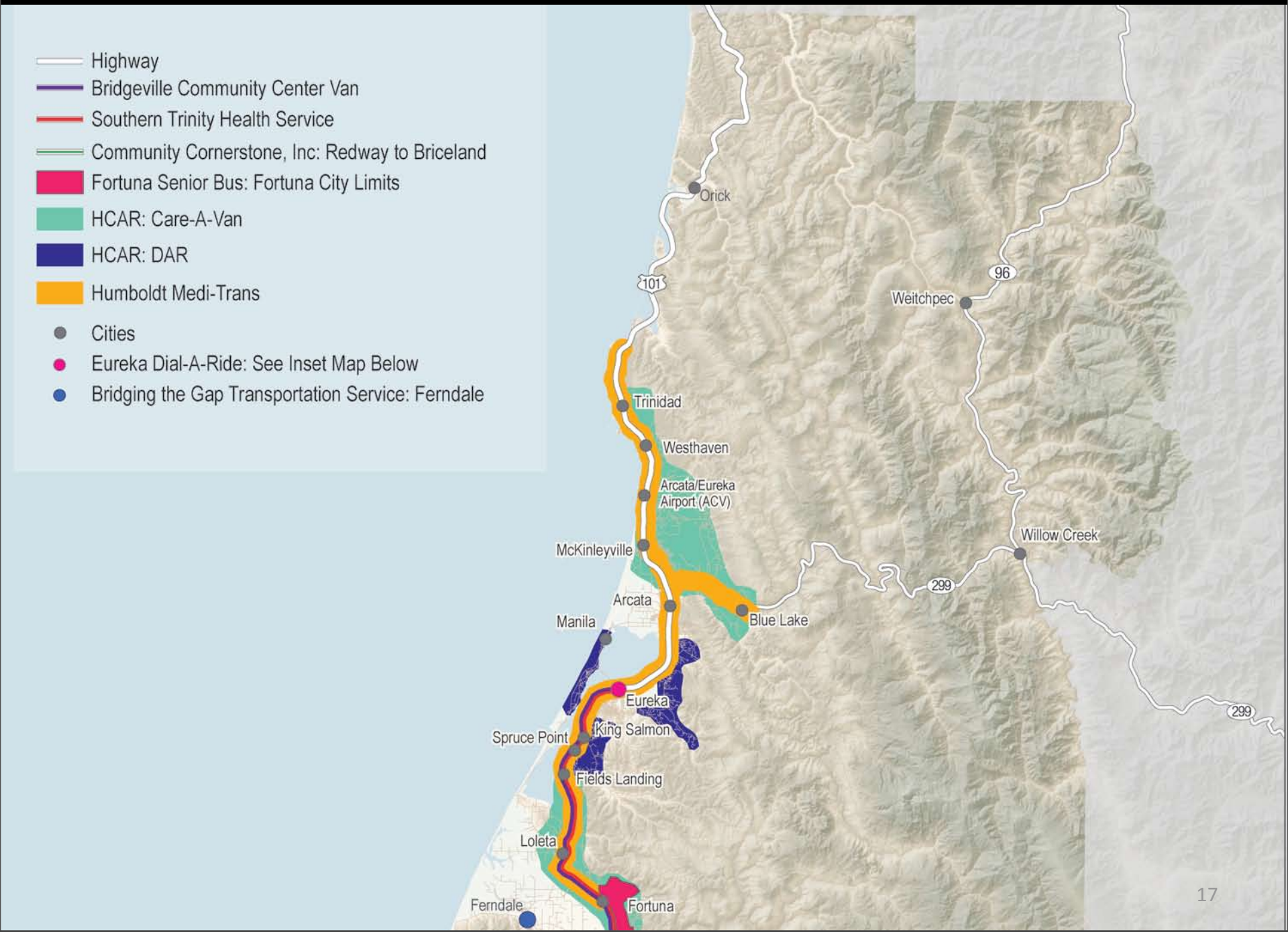
Published January 2010

RIDE THE BUS
HTA
HUMBOLDT TRANSIT AUTHORITY

Arcata



Humboldt County: Human Service Transportation



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Humboldt Bay Area transportation services

Service	Service area	Service hours	Eligibility	Accessibility	Cost	Contact
Bridging the Gap Transportation Service (Ferndale Senior Resource Agency)	Service area: Humboldt Bay Area for shopping trips and medical appointments.		Residents of Ferndale only. 62 years and older or must have a disability.	No information.	In-ferndale trips are cost-free. Siding fee for inter-city travel: Ferndale to Fortuna: $4 (round trip) Ferndale to Eureka: $8 round trip (provided trips are no more than 2 hours -	707-786-4141
CARE-A-VAN (operated by Humboldt Community Access and Resource Center)	CARE-A-VAN:south of Fields Landing to Scotia as well as the communities of Blue Lake, Trinidad, &	Mon-Sat 7am to 7 pm	Requires dial-a-ride certification from Humboldt Transit Authority	ADA accessible.	No cost	707-443-7077 ats@hcar.us www.hcar.us
Dial-a-ride (operated by Eureka City Ambulance)	From from Herrick Ave, Eureka to Clam Beach, McKinleyville	Mon-Fri, 6am-7pm. Saturday, 7:30a-5:30p.	Requires dial-a-ride certification from Humboldt Transit Authority	ADA accessible.	$2.80 per trip within a service zone. Additional fare per service zone.	707-442-4555
Dial-a-ride (operated by Humboldt Community Access and Resource Center)	Communities south of Eureka to Fields Landing; Samoa/Manila; Old Arcata Rd; Indianola; & Freshwater	Mon-Sat 7am to 7 pm	Requires dial-a-ride certification from Humboldt Transit Authority	ADA accessible.	DAR the tickets are sold through the transit centers, senior centers, and city hall. As of now the price per ticket is $2.80.	707-443-7077 ats@hcar.us www.hcar.us
Door-to-door airporter	Transportation to and from Arcata/Eureka Airport only. Primary service area is Fortuna to Trinidad. Service to and from other areas may be arranged in	All flights serviced with advanced reservations		No wheelchair lifts, do not provide child safety seats	Cost of transportation is based on area, number of passengers, luggage, pets etc. Example: 2 passengers from Eureka: $28.00 Payments accepted: Visa, Mastercard, Amercian Express, Discover Cash, and Local Checks	888-338-5497 airporter@suddenlink.net doortodoorairporter.com

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Project: Google Transit for Oregon intercity services

Google Transit

http://www.google.com/intl/en/landing/transit/#mdy

head calculus

Google Maps **Transit**

Plan a trip using public transportation

Use Google Maps to

- Get step-by-step transit directions
  - in your web browser
  - on your mobile phone
- Find transit stops in your area
- View station information and schedules

Join the transit partner program

Get transit directions

Start address

Destination address

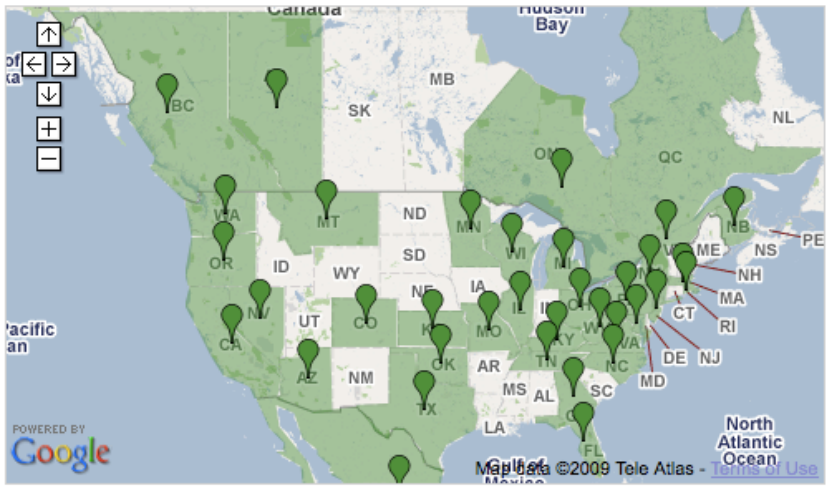
Leave 3/27/09 8:17pm

Get directions

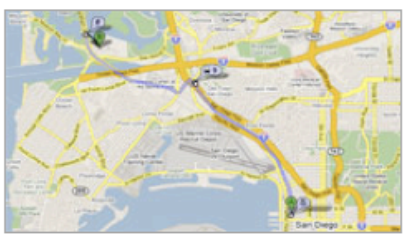
See what cities are covered (more than 256)

View text only version

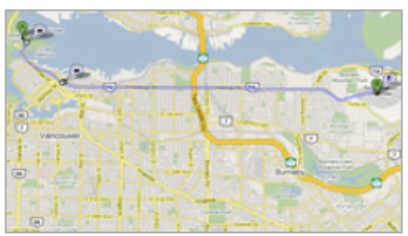
Recent highlights: Moscow Montréal New York Houston, TX



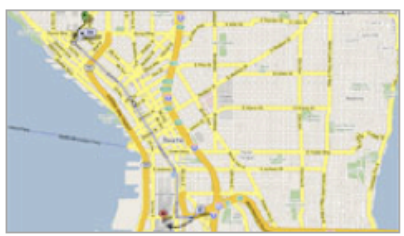
Featured searches



San Diego Amtrak Station to SeaWorld

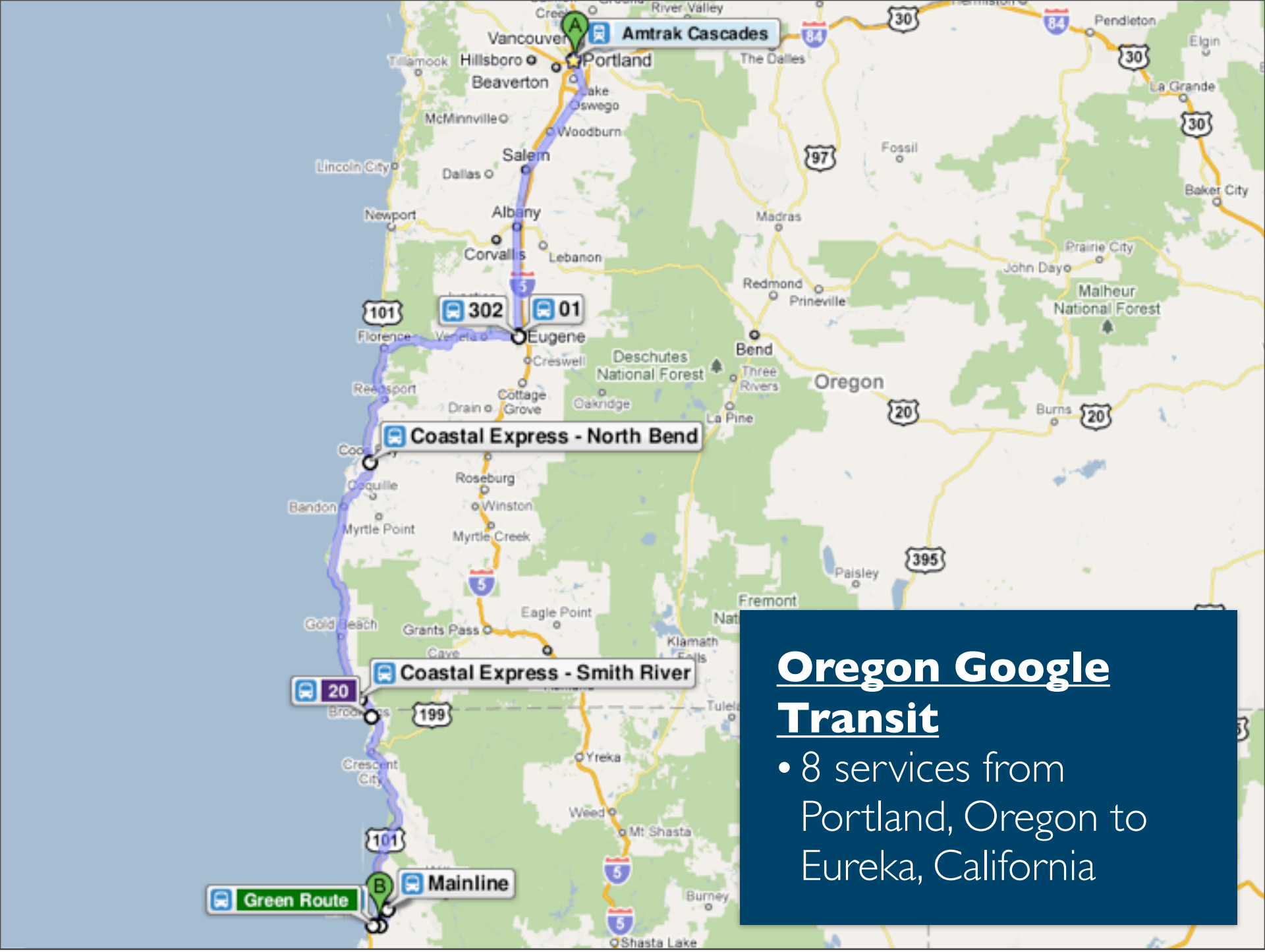


Stanley Park, BC to Simon Fraser University



Space Needle to Safeco Field

©2009 Google - Terms of Service - Privacy Policy

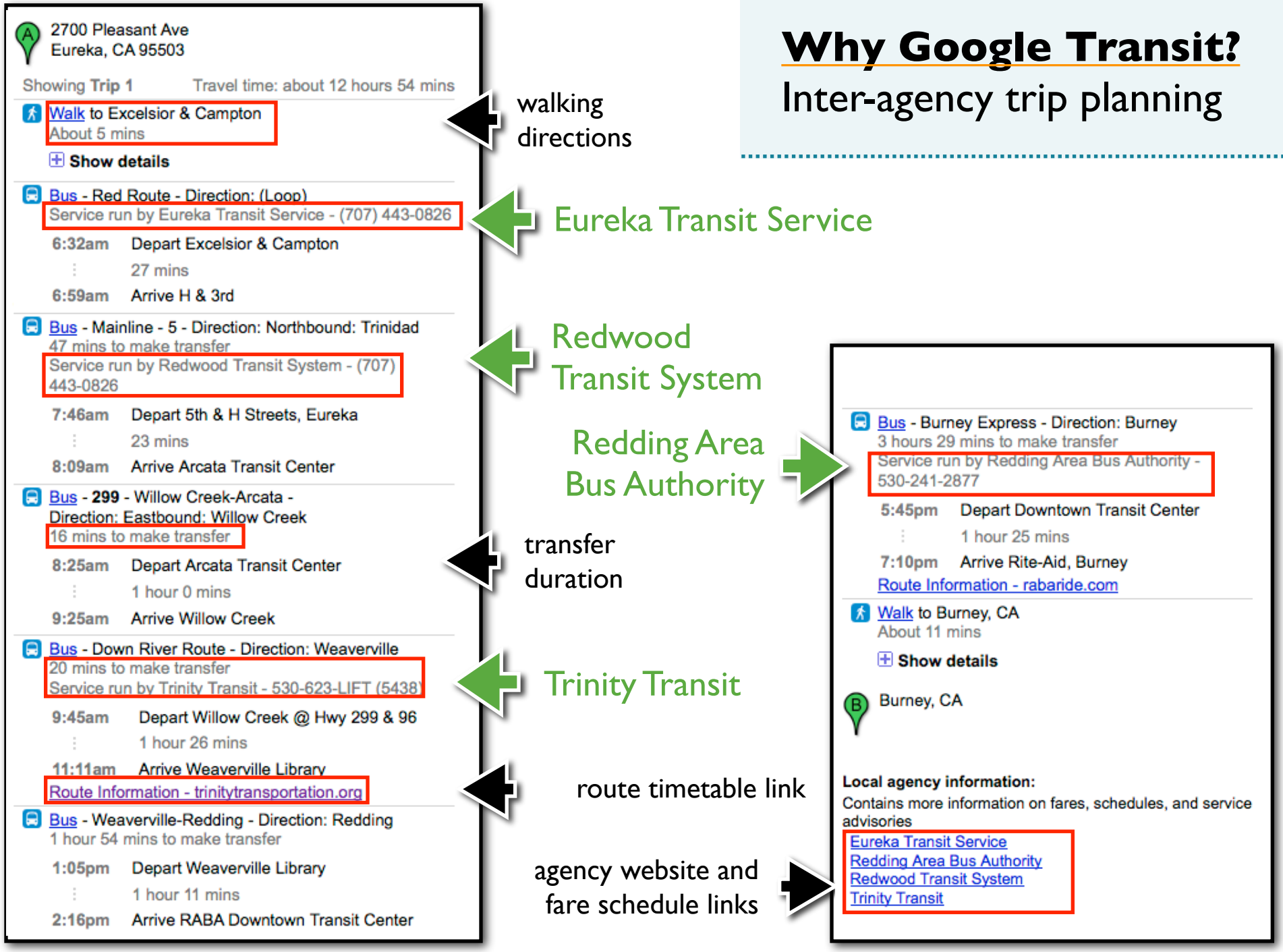


Oregon Google Transit

- 8 services from Portland, Oregon to Eureka, California

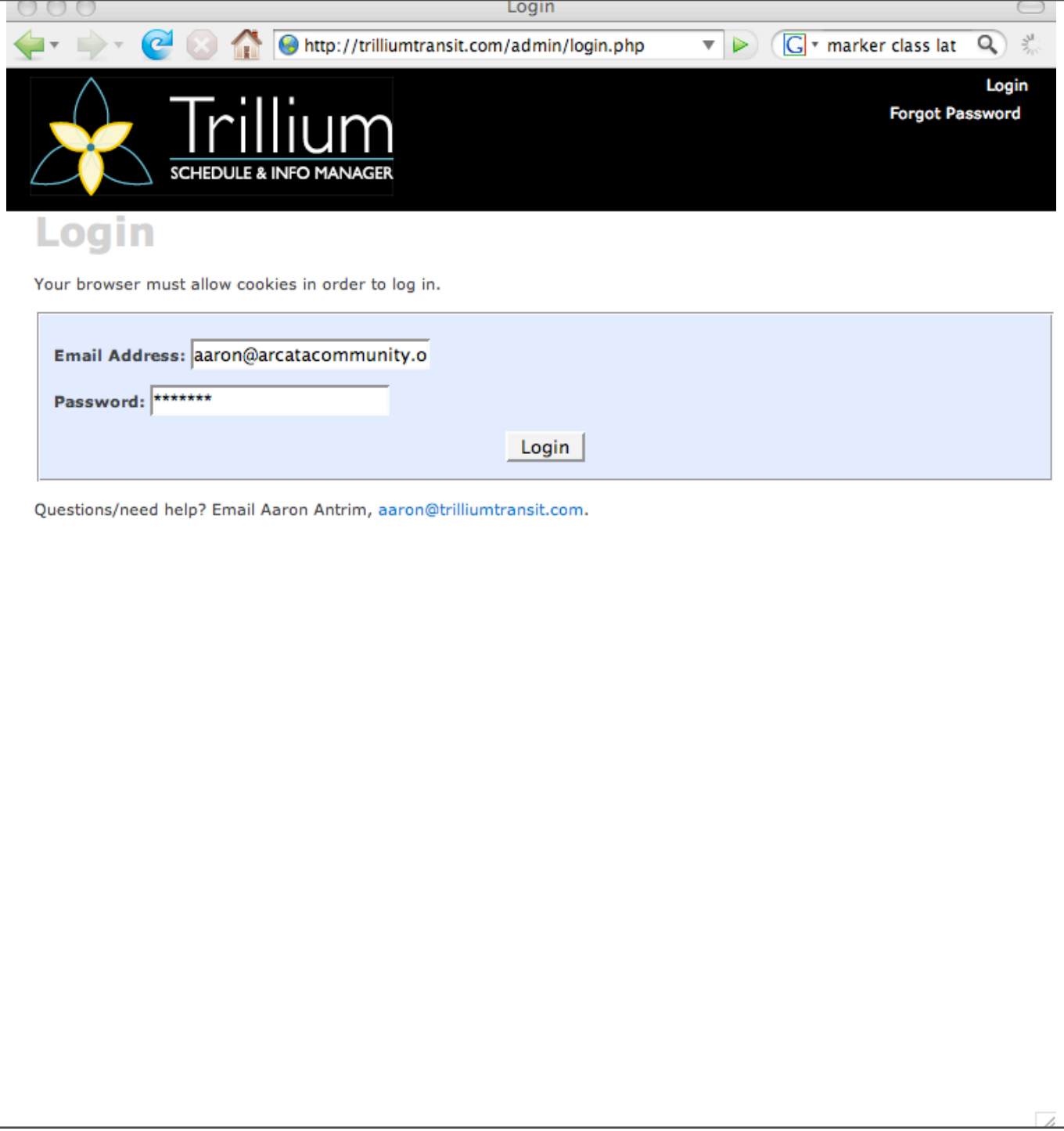
Why Google Transit?

Inter-agency trip planning



Oregon Google Transit Challenges

Challenge	Solution approach
Agency staff capacity for implementation	Trillium (consultant) manages all data entry
Google Transit display limitations	Problems are reported in Google Transit support groups
Maintaining up-to-date data	Software emails agencies when data is expiring


Login
http://trilliumtransit.com/admin/login.php
marker class lat
Trillium
SCHEDULE & INFO MANAGER
Login
Forgot Password
Login
Your browser must allow cookies in order to log in.
Email Address: aaron@arcatacommunity.o
Password: *******
Login
Questions/need help? Email Aaron Antrim, aaron@trilliumtransit.com.

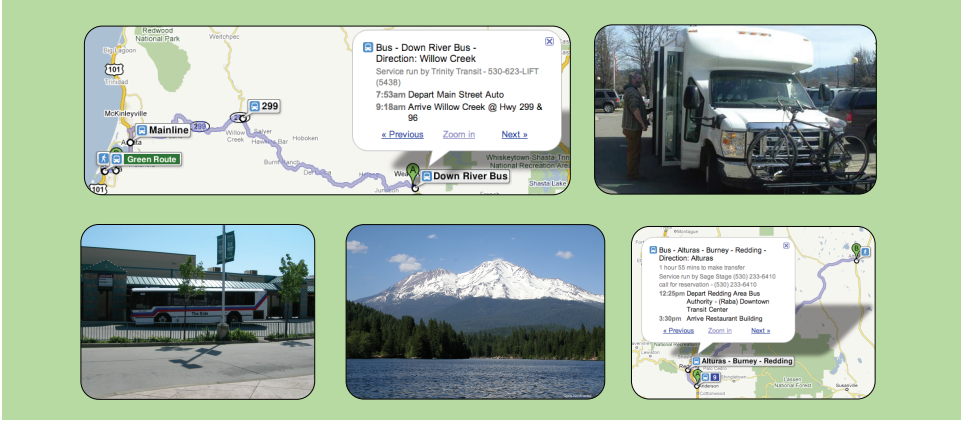
Resource: Northern California Google Transit Feasibility Study

Study highlights Google Transit issues for rural and intercity service

Northern California Google Transit Feasibility Study

FINAL

Pilot project and full implementation roadmap for
Inyo, Lassen, Modoc, Mono, Plumas, Shasta,
Siskiyou, Tehama, and Trinity counties



Shasta County Regional Transportation Planning Agency

October 2009

Trillium TRANSIT INTERNET SOLUTIONS in association with Nelson|Nygaard consulting associates

The Google Transit Feed Specification, as a lightweight data standard for transit geographic and schedule data, has quickly become an increasingly ubiquitous format.

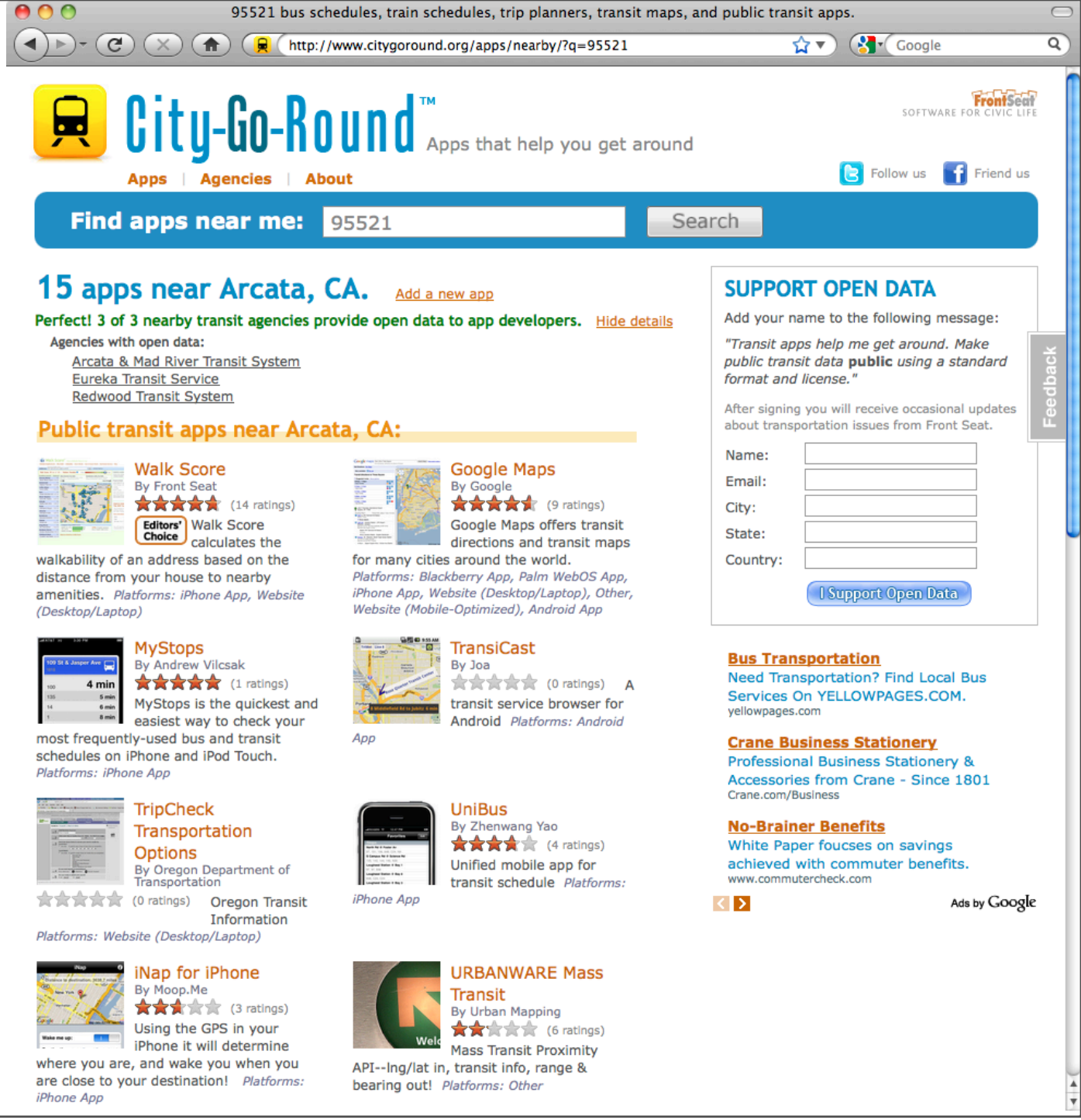
And you don't have to be Google to use it.

Open data makes transit information more ubiquitous.

Open data enables innovation.

citygoround.org

Directory of third-party transit applications and agencies that provide open data.



Multi-modal trip planning application uses GTFS

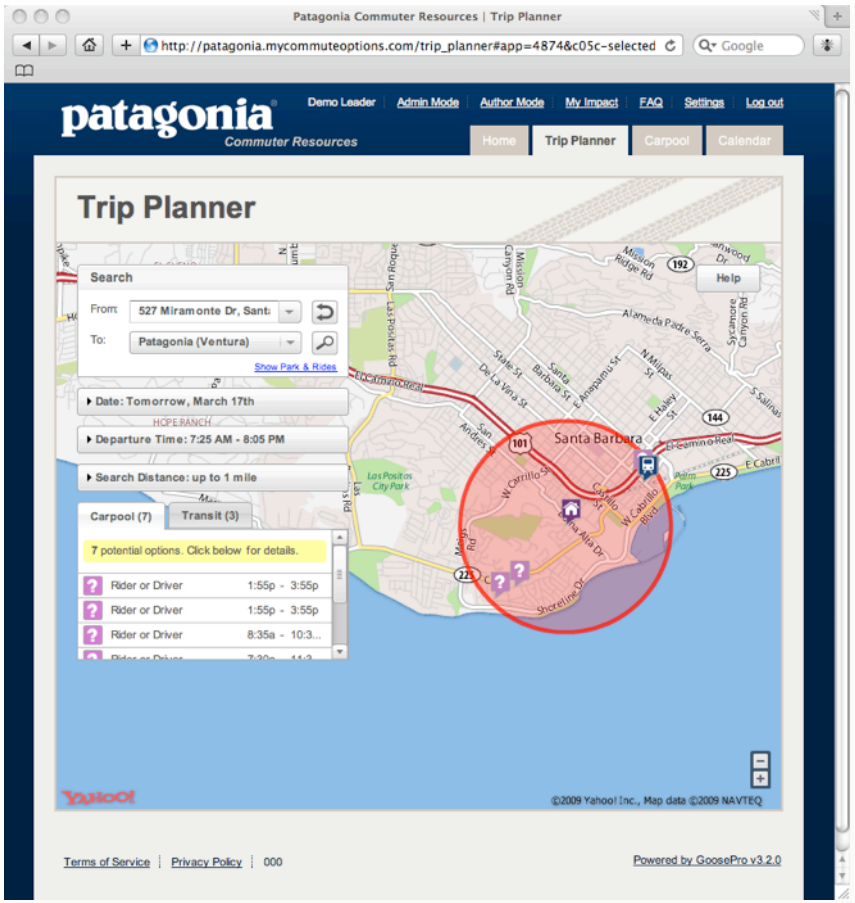
Show all relevant options – including public transit, private employer shuttles, carpool, vanpool, biking, walking – through a single map

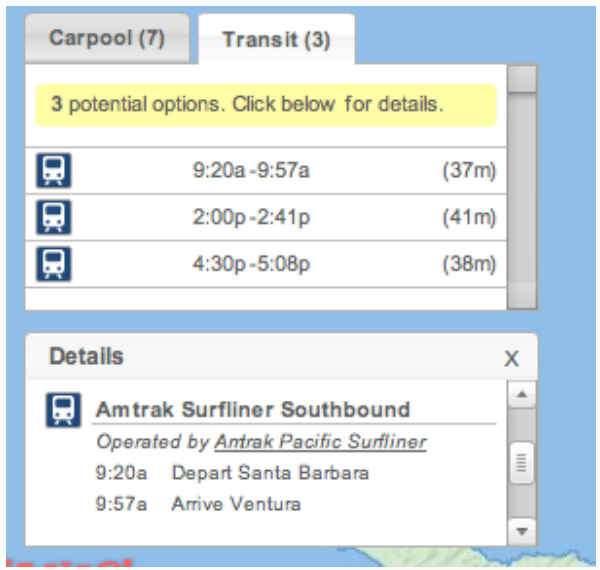
Show interagency transfers

goose NETWORKS

Multi-Modal Planning

Patagonia - Ventura

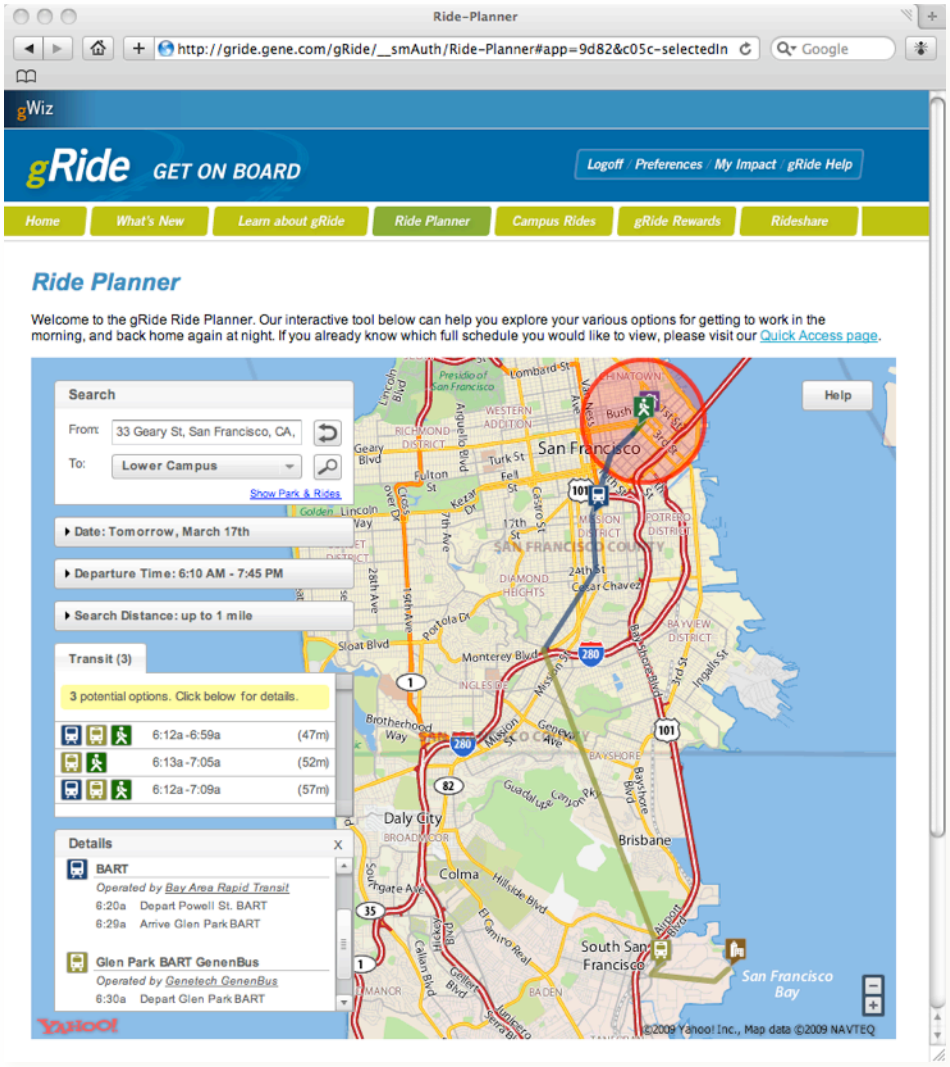


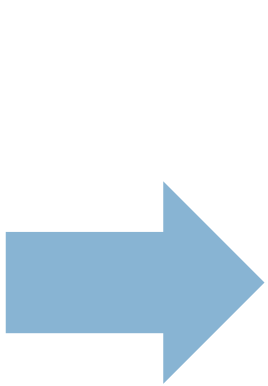


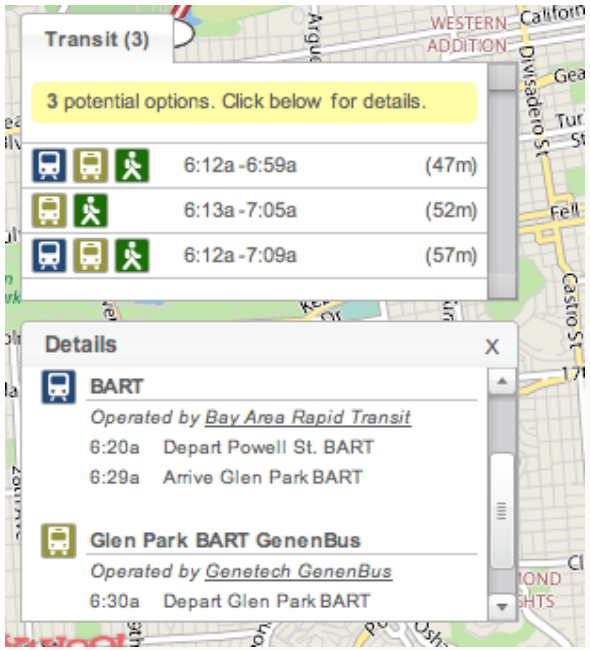
Show all relevant options; 7 carpool, 3 transit

Inter-service Transfers

Genentech – South San Francisco



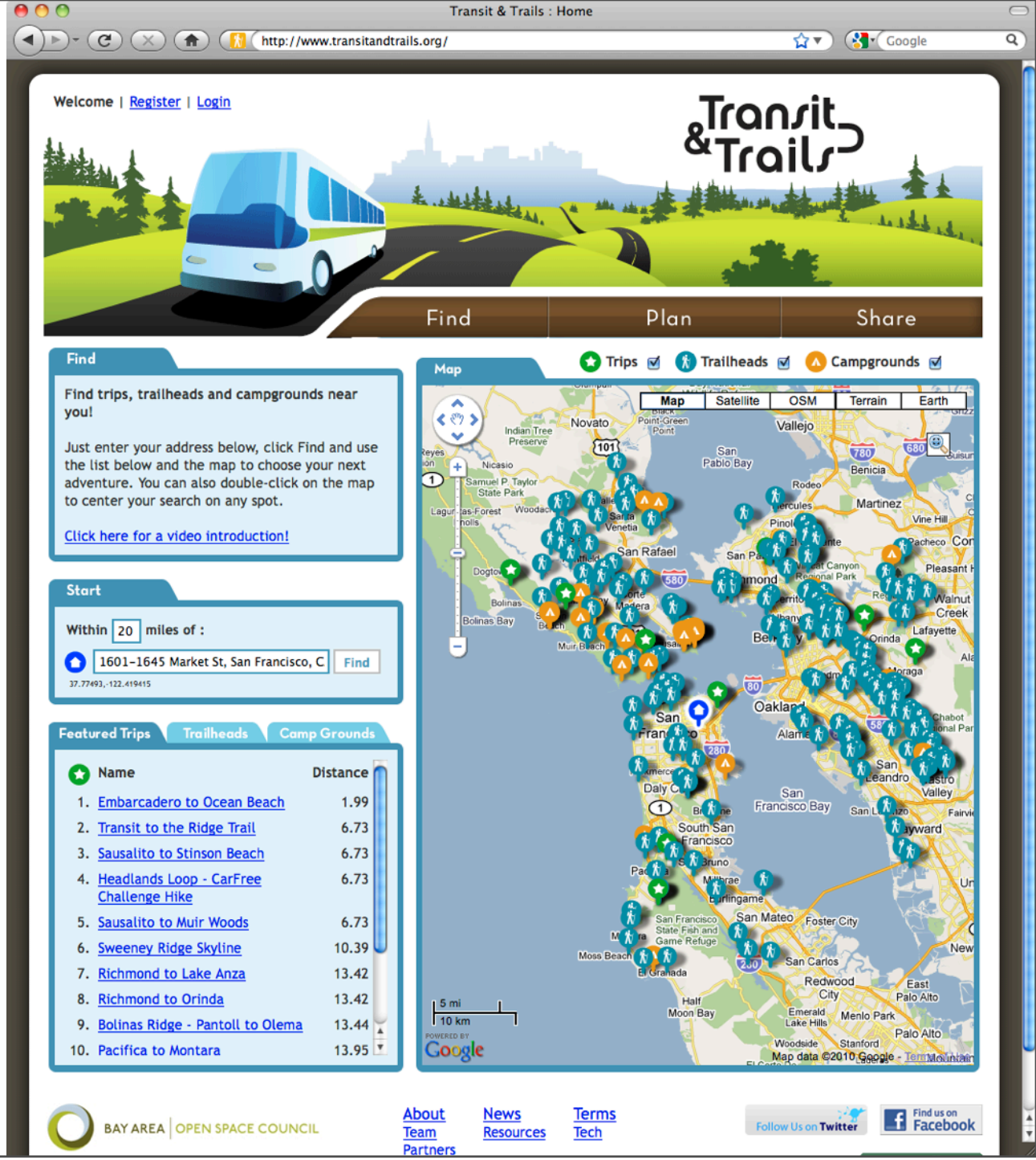




Transfer from BART to private employer shuttle

transitandtrails.org

Connects hiking trail and campground data with transit (with links to Google Transit).



Questions?

Aaron Antrim
Trillium Solutions, Inc.

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aaron@trilliumtransit.com
Twitter: @aaronantrim
Blog: www.trilliumtransit.com/blog

TrilliumSolutions