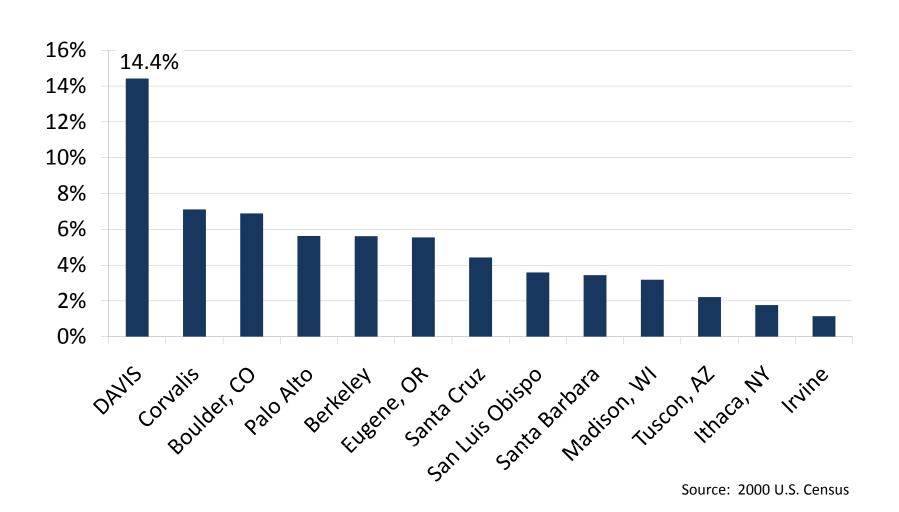
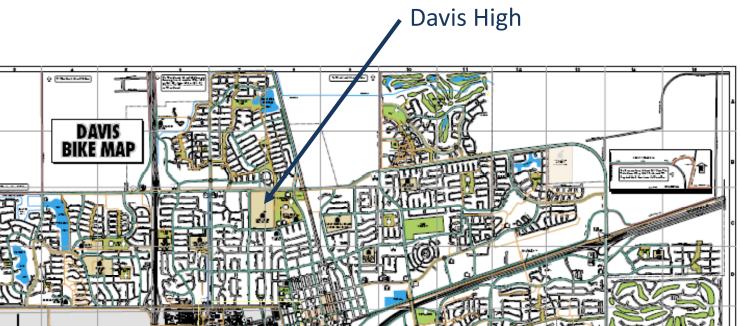
Factors Associated with Bicycling to High School in Davis, CA

Susan Handy
Catherine Emond



Percent Bicycling to Work





On-street bike lanes
Off-street bike paths

BOLAN BOLAN BOLAN CONDOINS SOUTH BOLAN BOLAN BOLAN BOLAN BOLAN

1 Mile



What factors explain whether a Davis High student bicycles or not?

vs. 1970s...





Davis High School Bike Survey

Schools:

- Davis High (1634 students)
- DaVinci High (300 students)

In-class survey:

- 4th period on April 15, 2009, except for P.E.
- Distributed and collected by students in the Environmental Club
- 1363 completed surveys, roughly 75% response rate



Conceptual Model

Individual Factors:

age, driver's license, gender, mode preferences, attitudes, biking comfort, practical issues

Social Environment Factors:

peers, parents, community

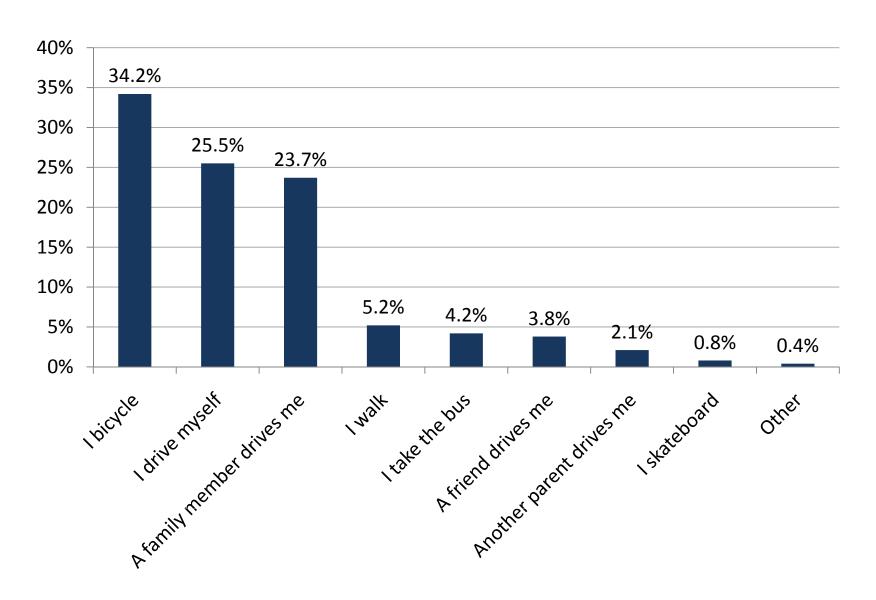
Physical Environment Factors:

distance, safe route, direct route, parking

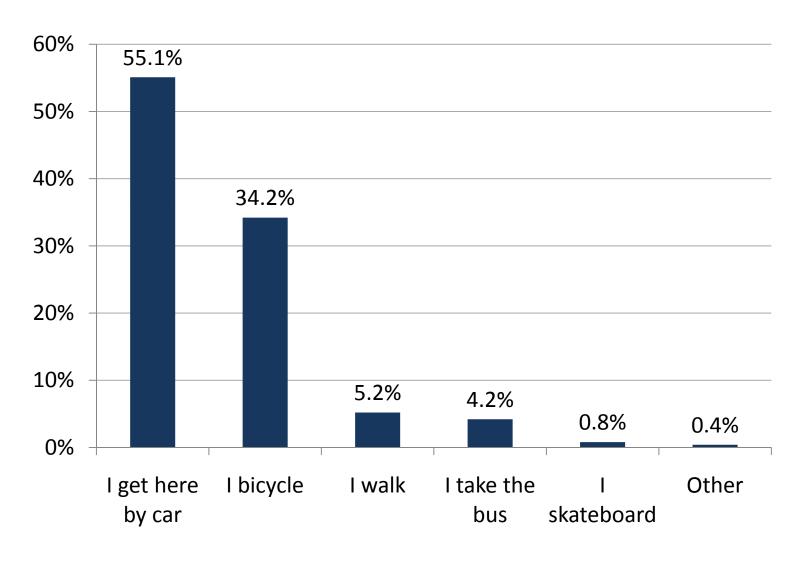




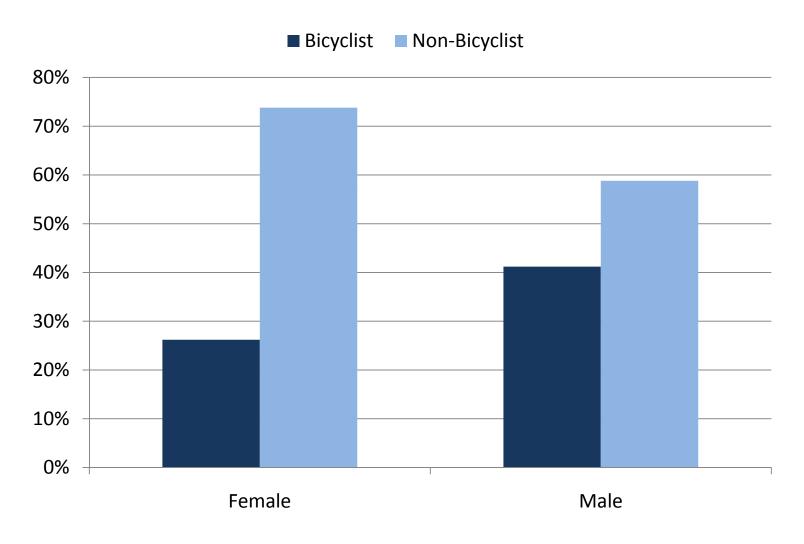
Usual mode of travel to school



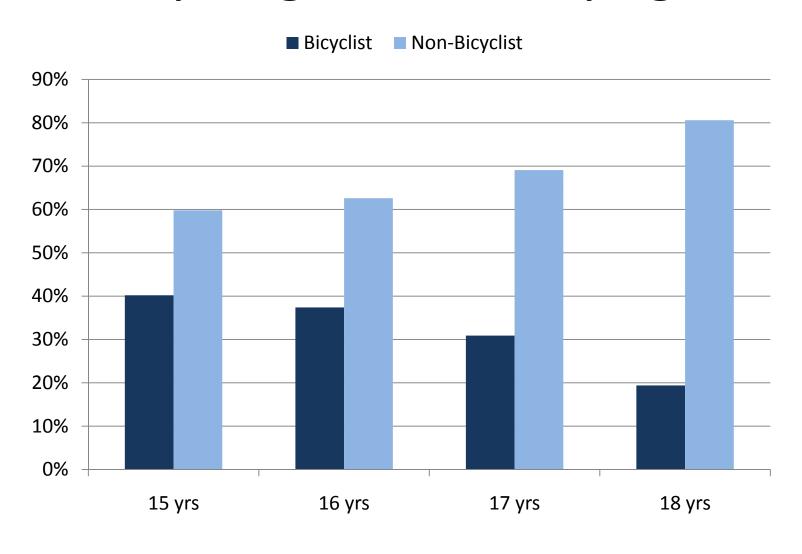
Usual mode of travel to school



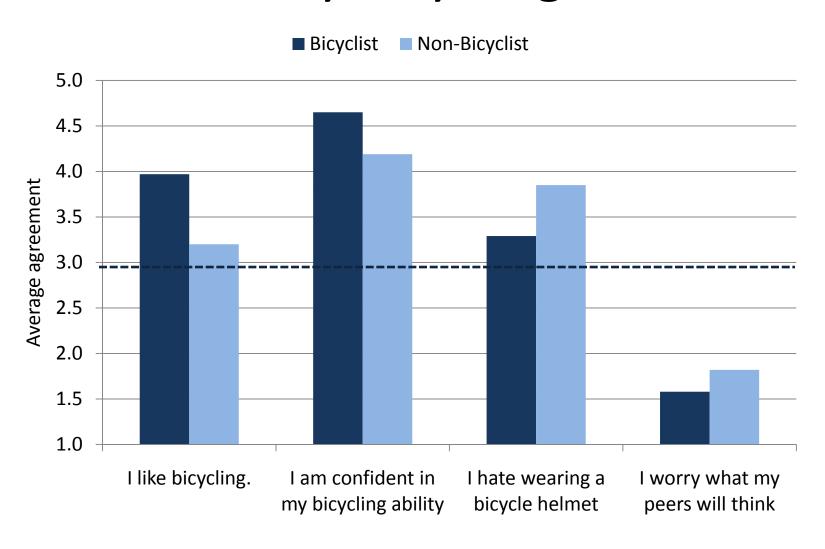
Bicycling to School by Gender



Bicycling to school by age



Attitudes by Bicycling to School



Model for Bicyclist or Not

Variable Name		OR
Demographics		
Female	-	0.42
Have drivers license	-	0.33
Parent has at least Bachelor Degree	+	1.68
Individual factors		
Like being physically active	+	1.22
Like to bicycle	+	1.26
Bicycling ability confidence	+	1.25
Need a car to do things I like	-	0.79
Often go off-campus for lunch	-	0.76
Social-environment factors		_
Parents encourage bicycling	+	2.13
Can rely on parents chauffeuring them	-	0.84
Live in strong bicycle community	-	0.62
Fear of bicycle theft	+	1.26
Physical-environment factors		
Live too far from school to bicycle	-	0.54
Valid N		1214
Adjusted McFadden Pseudo R-squared		0.397

Policy Implications

- Site schools within bicycling distance
- Increase bicycling confidence
- Make bicycling fun
- Reconsider school lunch policies
- Get parents to encourage bicycling!
- Figure out what it'll take to get girls bicycling!

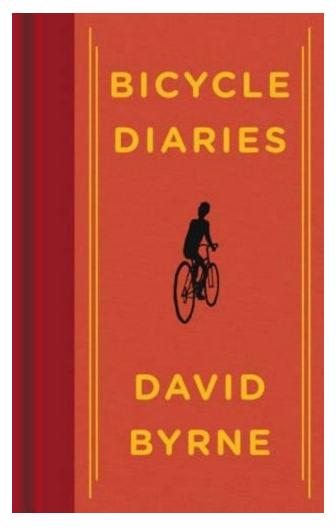






The 4 E's

Engineering	
Education	
Encouragement	WHEELING WALKS ISNT - II - TIME - YOU - STARTED - WALKING?
Enforcement	







"I've been riding a bicycle as my principal means of transportation in New York since the early 1980s."



Thanks!