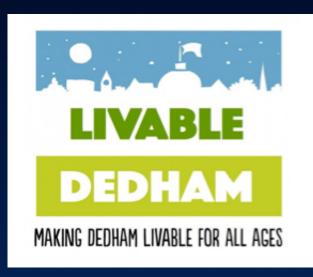
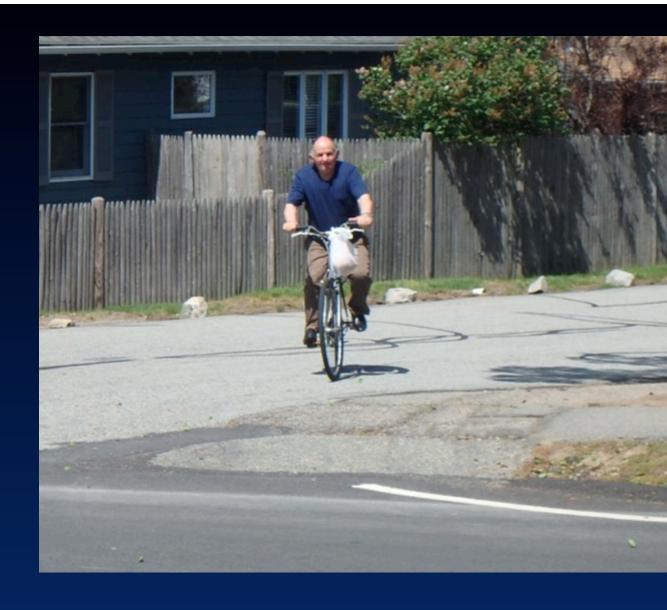
# Active Transportation for Economic, Environmental, & Public Health



Mark Fenton
Tufts University
Dedham MA
Mar. 2019



Depot Street (spring 2017 walk audit).

- Background
- Healthy design essentials
- Ideas for Dedham
- Proposal: Active **Transportation Working Group**





**April 2018 Facilitator training** & walk audit

Livable Dedham



May 2017 Paul Park walk audit













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## Healthy design yields a Triple Bottom Line:



**Prosperity** 



**People** 



**Economy** 

**Healthy** 

People



**Planet** 

### Four "healthy" elements



### Land Use









Safety & Access





Site Design

### i. Land use.

Live, work, shop, play, learn, pray.



Schools





Compact neighborhoods & shared open space.



Housing above retail below.



## ii. Network for all modes:







- Presence of sidewalks, bike lanes, pathways.
- Fewer cul-de-sacs.
- Trails to destinations.
- Access to affordable transit (MBTA, bus)



## Bicycle network tools:





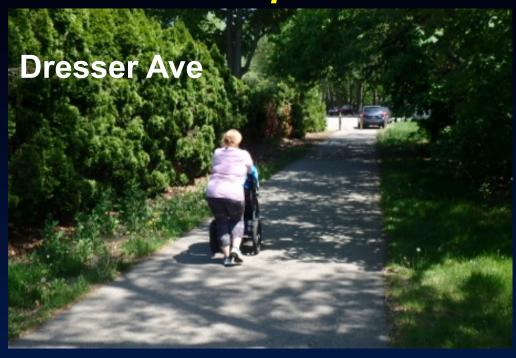




### **Buffered bike lane**



### Trails for transportation . . .

















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## iii. Site design:



Which setting is more appealing for travel on foot and by bike?

### Site design:



- Buildings near the sidewalk, not set back; parking on street or behind.
- Trees, benches, lighting, awnings, "human" scale.
- Details: bike parking, open space, plants, art, materials.



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Much modern zoning is entirely car oriented; very unwalkable & leading to predictable high turnover & empty box stores >









Retrofitting suburban design (Winter Park FL)

**REGAL CINEMAS 20** 

Leasing Information 941.552.2705 truffles grill

Pier 1 imports

heesecake Factory

P.F. CHANG'S

ULTA



### Requires zoning updates





## iv. Safety & access.



- Engineering can markedly improve safety.
- Increasing pedestrian & bike trips decreases overall accident & fatality rates.



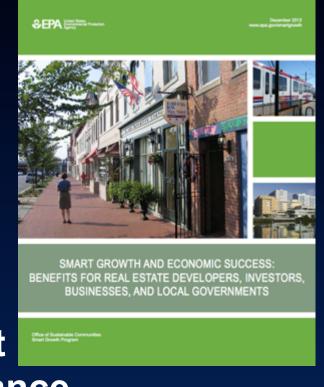


(Jacobsen P, Injury Prevention, 2003; 9:205-209.)

## Economic pull of "healthy" designs:



1. Market demand



2. Market performance





4. Quantifiable health benefits!

# Images on your web site . . .









## Not on your web site . . .









## Dedham desires walk, bike, and transit access.

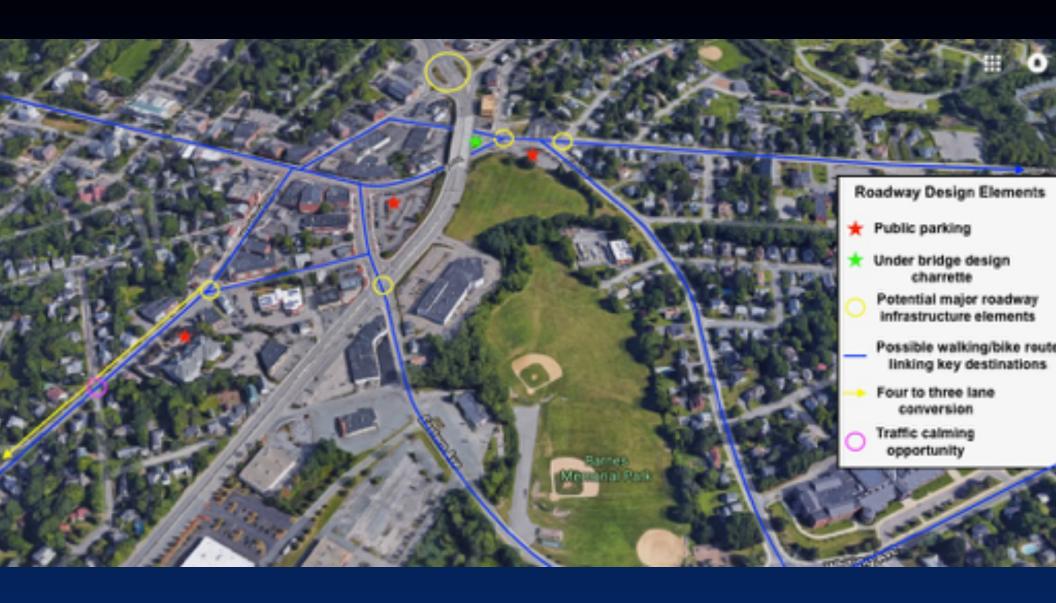


Dedham and Westwood Bicycle and Pedestrian Network Plan

April 2014





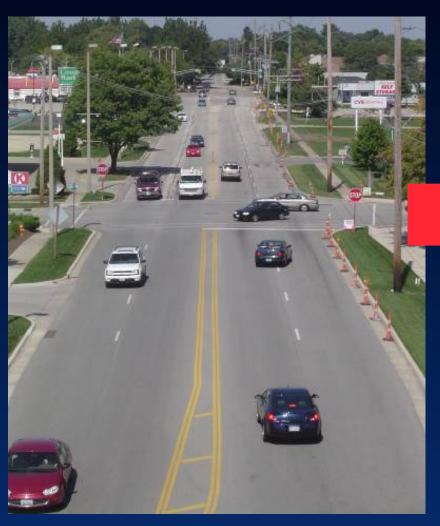


Map in the recommendation memo from the Dedham Square walk audit (April 2018).

## Routine accommodation (e.g. road diets)

5 or 4 reduced to 3

 Reduces collisions & severity; better for all four modes.





Urbana, IL; before & after.



### Tactical urbanism & Lighter, Quicker, Cheaper















Vocational school designed & built bike racks.

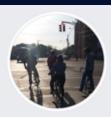
## Proposal: BOS to appoint ATWG...

- Alternative Transportation Working Group.
- Consider: Active Transportation WG...
- Designate advisory role to BOS, Planning Board,
   ZBA; require input on permits, development, etc.
- Support: Transportation Advisory, Conservation Commission, School, Master Plan Implementation, Building, By-law Review, other committees . . .





#### IMPROVED TRANSPORTATION FOR ALL



Brockton Ad-Hoc Bicycle Pedestrian Advisory Committee @BrocktonBPAC



Canton Walk Bike & Hike Committee Charter and Rules of Governance

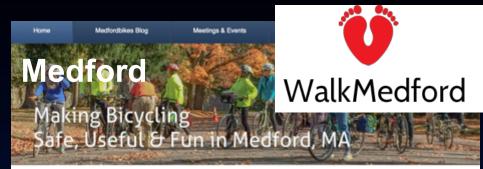
#### Canton

Article 1: Name

The name of the committee shall be the Canton Walk Bike & Hike Committee (CWBHC).

#### Article 2: Charter

The committee is organized to help improve bicycling and pedestrian conditions in the Town of Canton, as delineated in the Canton Master Plan: "... a pedestrian-oriented center will link open space with adequate parking and a diversity of uses...There will be safer street crossings... and traffic will have been reduced... Canton will be accessible by many transportation modes, and will be convenient and safe for walking and biking with paths connecting the reservoir, Blue Hills, Ponkapoag Pond, and Blue Hills Regional Vocational Technical High School. The town will be pedestrian-friendly with clean, curbed sidewalks in every neighborhood ..."



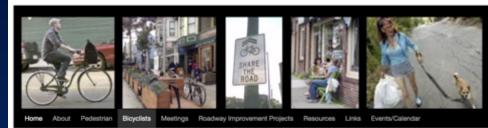






### Melrose Pedestrian & Bicycle Advisory Committee

Promoting walking and bicycling in th city of Melrose, MA



#### Home

### **Melrose**

Join us at a monthly meeting!

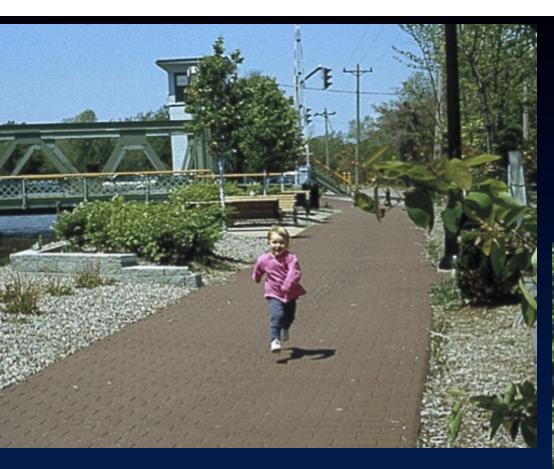
- · When: Wednesday, April 3, 2019 at 7:00 PM
- Where: Melrose City Hall, Cassidy Conference Room formerly Mayor's Conference Room (enter from lower rear door)
- Like on <u>Facebook</u> and Follow on <u>Twitter</u>
- Join our email discussion list (10-20 emails per week with daily digest

ke wootness combinatists? In a new table epedbike@gmail.com to join).

Melrose Pedestrian & Bicycl Advisory Committee



Contact Information:



Olshansky et.al., "A Potential Decline in Life Expectancy . . ." New Eng. J. of Med., March 17, 2005

### **Questions?**

