



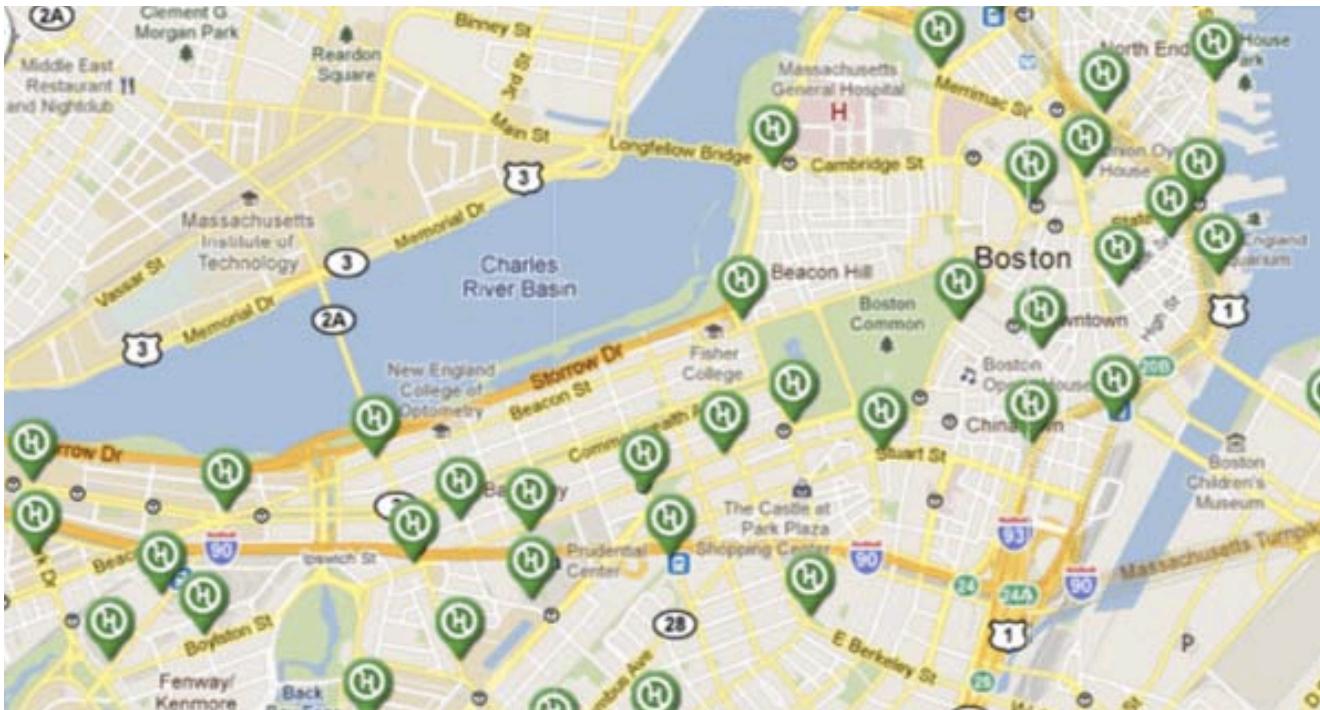
b

helmet hub



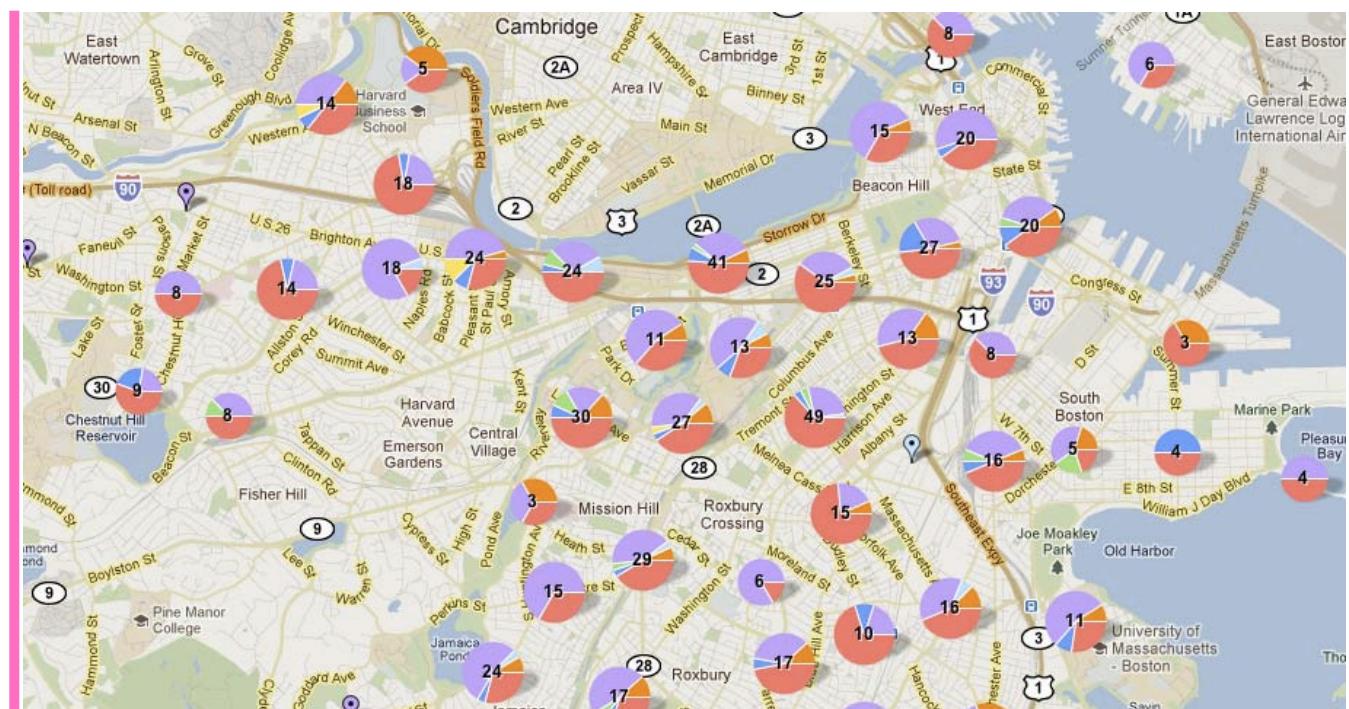
inspiration

72% Boston bike riders wear helmets
32% Hubway users wear helmets



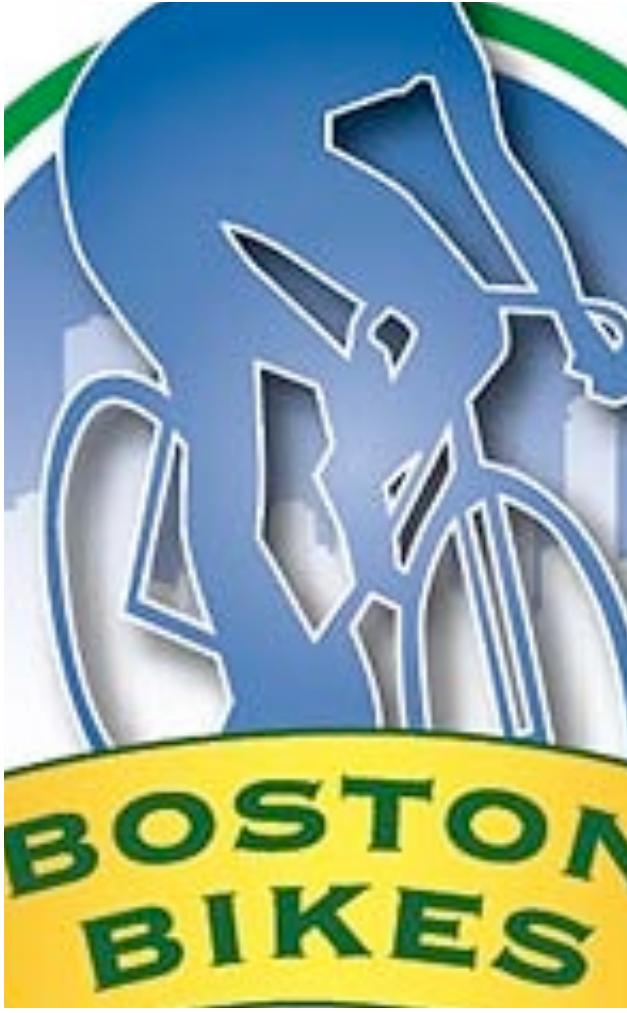
dozens of
Hubway
stations already
exist in Boston

45% of all bike
accidents
involve un-
helmeted riders



<http://www.batchgeo.com/map/3654372f90062f71097944c69473117d>

<http://thehubway.com/stations>



working with Boston Bikes to conveniently provide helmets to *all* their customers

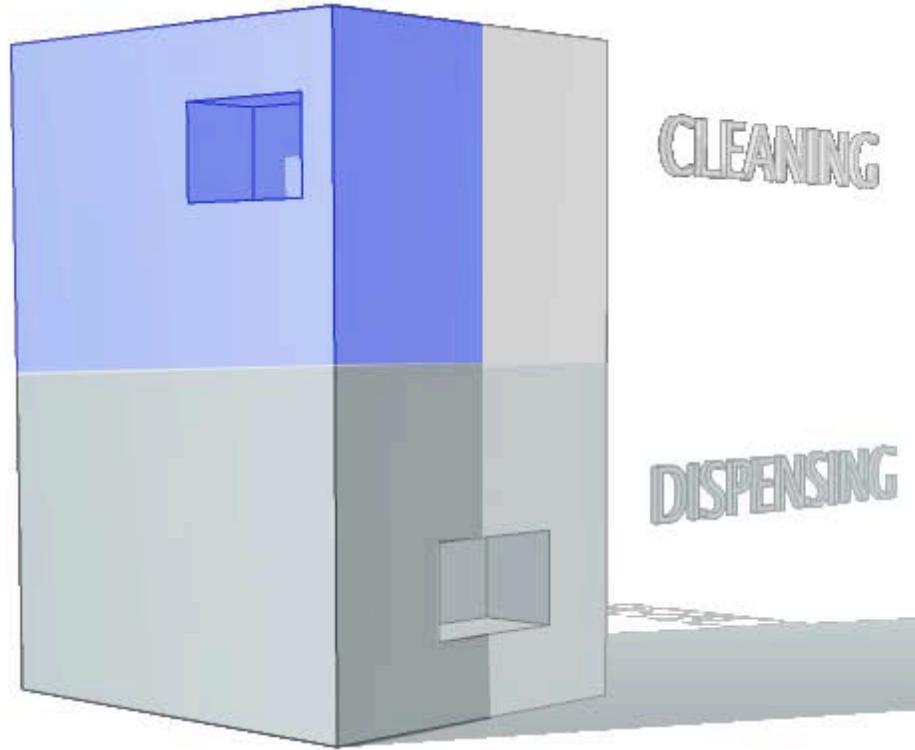
<http://cdn.buzznet.com/media/jjl/2007/07/beckham-bicycle/david-beckham-bicycle-helmet-l2.jpg>

<http://www.michaeldunphy.com/BostonBikes-logo.jpg>

<http://andersonshgs.com/wp-content/uploads/2011/05/family.jpg>

CRACK DETECTION

SANITIZING



features

vending, sanitation, crack detection, and return
solar powered





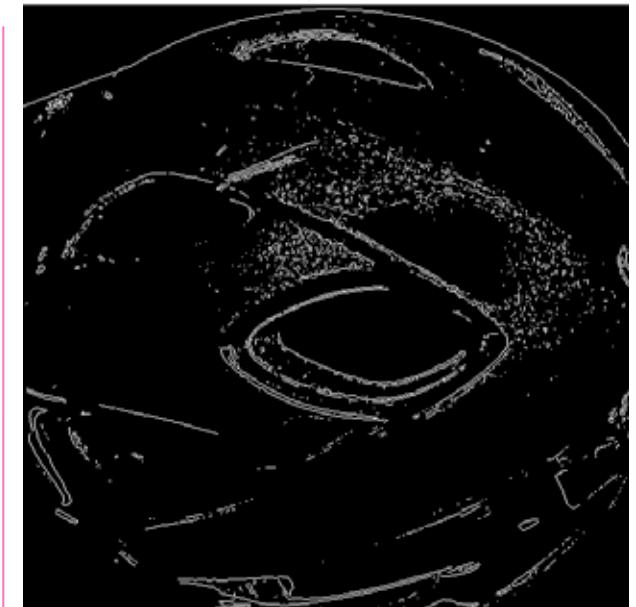
benchmark

Melbourne Bikeshare vending machine
no existing automated crack detection

data acquisition



bridge images



detection



output





further considerations include scanning microfractures in foam, safe dispensing mechanism, efficient stacking



market

300 global bikeshare programs
\$5.9 billion bike industry in U.S.



b

questions?