# Cities, Schools, and Highways Social Science History Research at Amherst College

Andy Anderson, Ph.D.

Academic Technology Services
Twitter@GeoObservatory



### Collaborators:

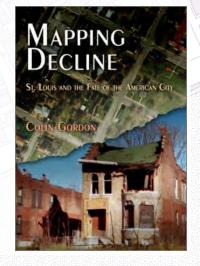
Hilary Moss (History and Black Studies)
Yinan Zhang '12 (World Bank)
Josie Fisher '12 (Harvard Medical School)



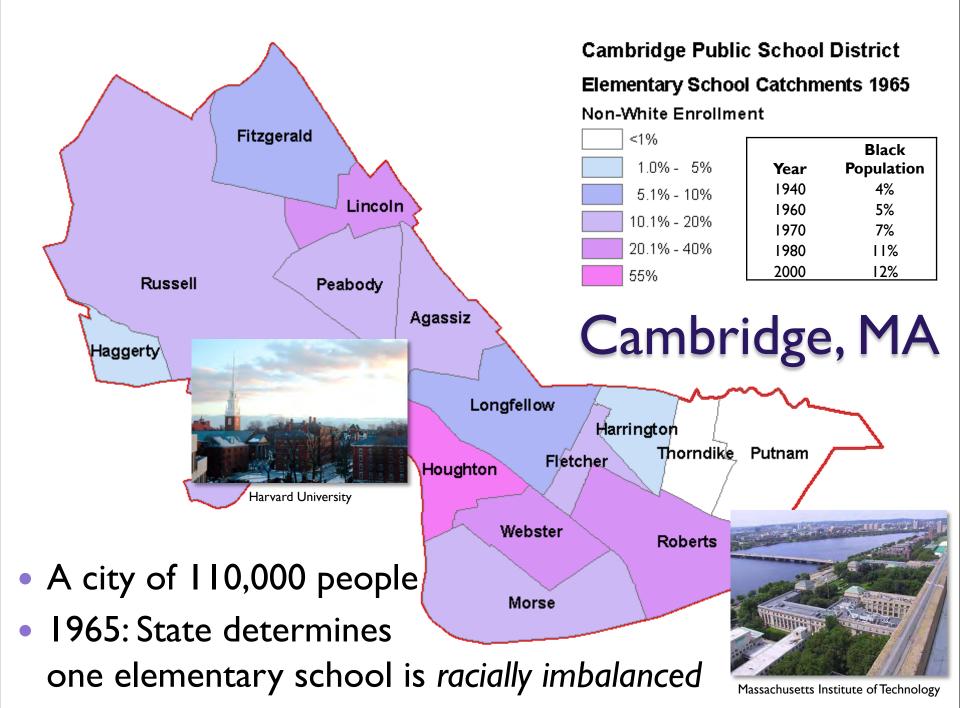
# Course: Cities, Schools, and Space

- Urban history and educational studies:
  - School districting
  - Local and federal housing policies
  - Urban renewal
  - Highway construction
  - Universities and Cold War research
- Exposing students to a range of research methodologies, including:
  - Archival analysis
  - Oral interviews
  - Geographic information systems (GIS)









# Elementary School Construction in Cambridge, 1960-1979



- Josie Fisher '12, Yinan Zhang '12, Andy Anderson, and Hilary Moss
- Presentation at the Social Science History Association Annual Meeting, Boston, 2011



 What was the role of space, race, and class in school assignment decisions? Learning Number Concepts in Grade I



Peabody and Agassiz: Many Harvard-associated families

Academically Talented, Grade 6, Peabody School

# AT Classes & School Facilities

School	AT Students (1967)	Condition of School Facilities (1967)	Year Opened or Expanded
Agassiz	58%	School freshly painted; rooms light and cheerful. Very pleasant school atmosphere.	1915
Peabody	45%	New, very beautiful building, Library, science room, boys' and girls' gymnasiums, showers, locker rooms, cafeteria, audiovisual room. Auditorium. Heath and dental suites.	1960
Haggerty	24%	Assembly hall, but no gym. Very well kept.	1914
Russell	13%	Assembly hall and gymnasium combined. Home economics and woodworking facilities.	1897, 1924
Longfellow	12%	Light, cheerful classrooms. Assembly Hall converts into gymnasium. Library being set up. Newly installed science room.	1931
Fitzgerald	10%	Attractive building with all facilities such as gymnasiums, cafeteria, home economics and woodworking facilities.	1957
Thorndike	10%	Combination assembly hall and gym. Home economics and woodworking facilities. Though building is fairly old, atmosphere of school is cheerful	1911
Morse	9%	New and very beautiful school. Bright rooms. Ceramic murals. Gymnasiums for boys and girls, cafeteria, excellent facilities for woodworking, sewing and cooking classes. Auditorium; health and dental suites.	1955
Harrington	7%	New, very attractive, and with all facilities, such as gymnasiums, auditorium, and science room.	1959
Fletcher	5%	Assembly hall. No gym, library, or science room. No home economics or woodworking facilities.	1903
Webster	5%	Assembly hall; no gym, library, or science room.	1852, 1885, 1909, 1929
Putnam	4%	Over 100 years old. Lacks all special facilities.	1887
Roberts	4%	Combination of assembly hall and gym.	1929
Houghton	4%	Assembly hall. No gym (physical education held in large room).	1904, 1923

### Archival Find: Block-level Census Data

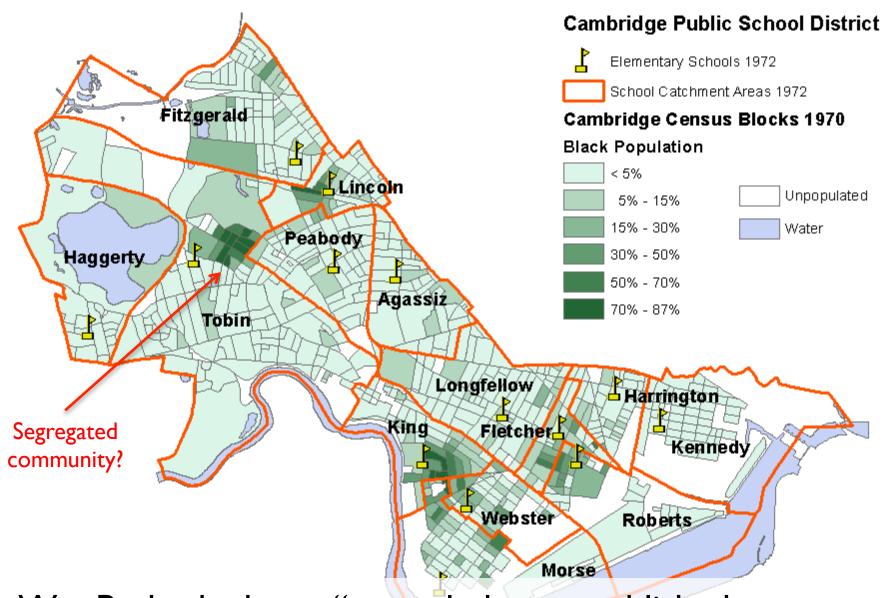
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### City Block Characteristics

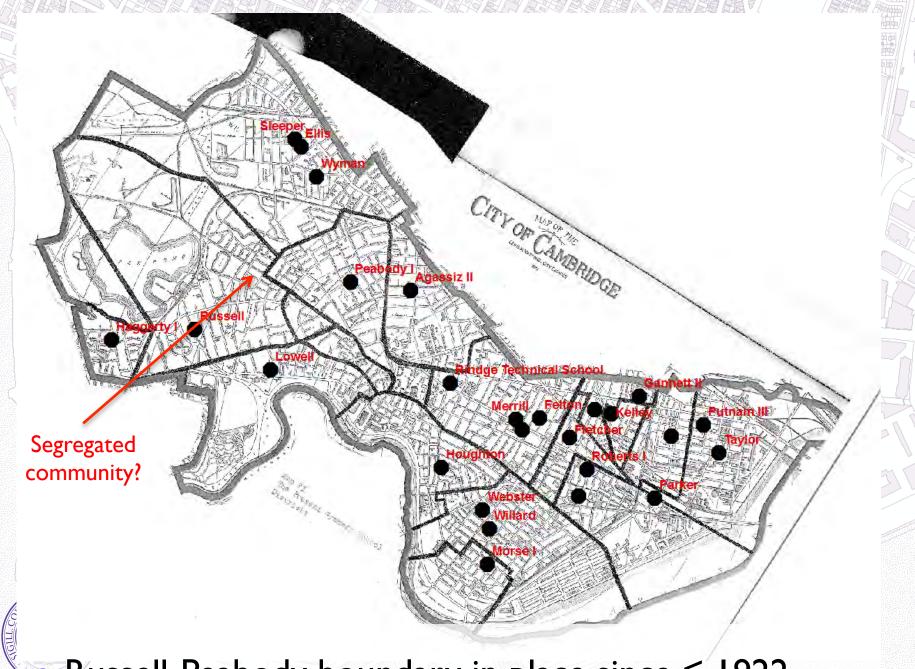
### Table 2.—CHARACTERISTICS OF HOUSING UNITS, BY BLOCKS: 1960—Con.

["Total population" contains no persons in group quarters unless preceded by asterisk: one asterisk (\*) denotes less than 10 percent; two asterisks (\*\*). 10 percent or more]

		All housing units by condition and plumbing								Occupied housing units								
Dist			Sound			Deteriorating					Ov	vner occupi	ed Renter occ			ied		
within por	otal opu- ition	Total	Total	With all plumb- ing facil- ities	Lack- ing some or all facil- ities	Total	With all plumb- ing facil- ities	some	king or all ities No flush toilet	Dilap- idated	Total	Average value (dollars)	Average number of rooms	Total	Average con- tract rent (dollars)	Aver- age num- ber of rooms	Occu- pied by non- white	or more per- sons per room
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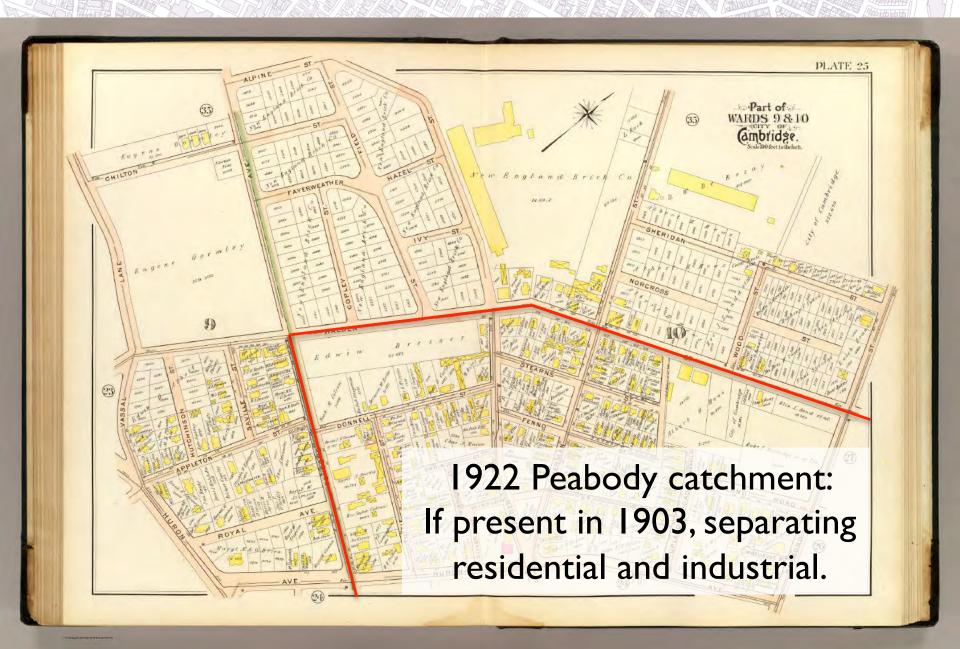


 Was Peabody drawn "to exclude an established community of blacks in the Concord Avenue area"?



Russell-Peabody boundary in place since ≤ 1922.

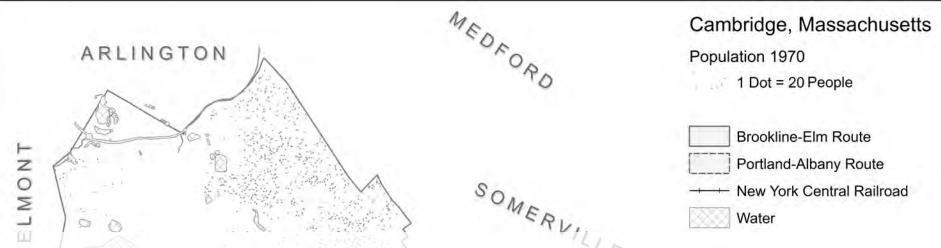
## 1903: Modest Homes for Brickmakers?



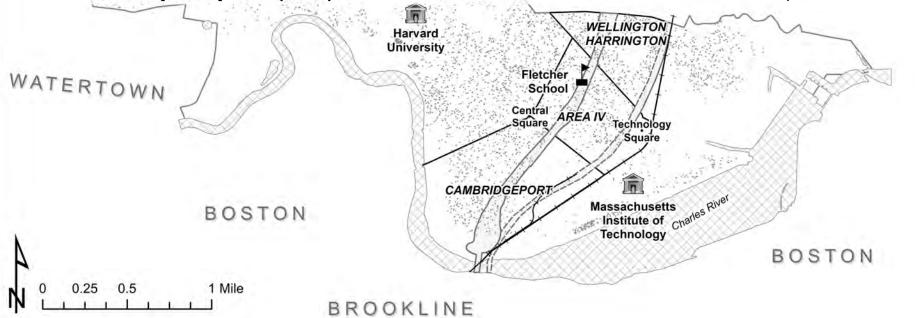
# Assessing the Impact of the Inner Belt: MIT, Highways, and Housing in Cambridge, Massachusetts

- Hilary Moss, Yinan Zhang '12, and Andy Anderson
- Journal of Urban History
   November 2014
   vol. 40 no. 6 1054-1078
- From the 1950s to the early 1970s, eastern Cambridge was threatened by a bisecting highway...what role did MIT play in its route?



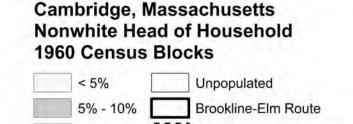


- Three final Inner Belt routes by the mid-1960s
- Brookline-Elm Route would displace > 1200 families,
   ~7000 people (5%), > 100 businesses, and ~3000 jobs



 Fletcher school upgrade delayed by uncertainty

SOMERVILLE



10% - 20% Portland\_Albany\_Route
20% - 40% ----- New York Central Railroad

40% - 60%

> 60%



Cambridge

Fletcher School

Central Square

Technology Square

Massachusetts Institute of Technology



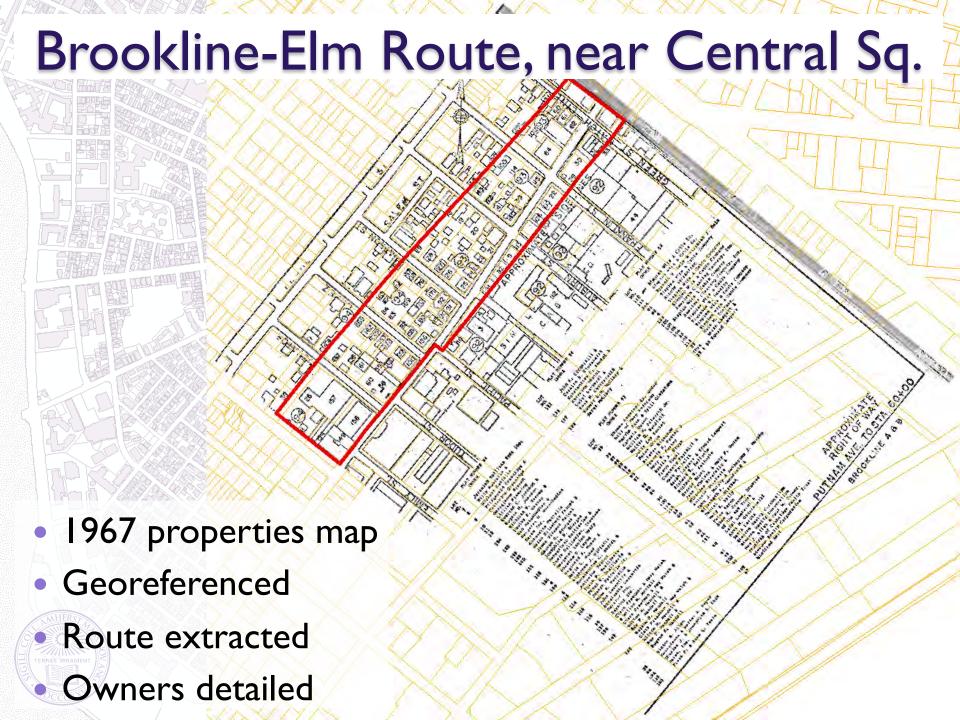
Fletcher School, 1926

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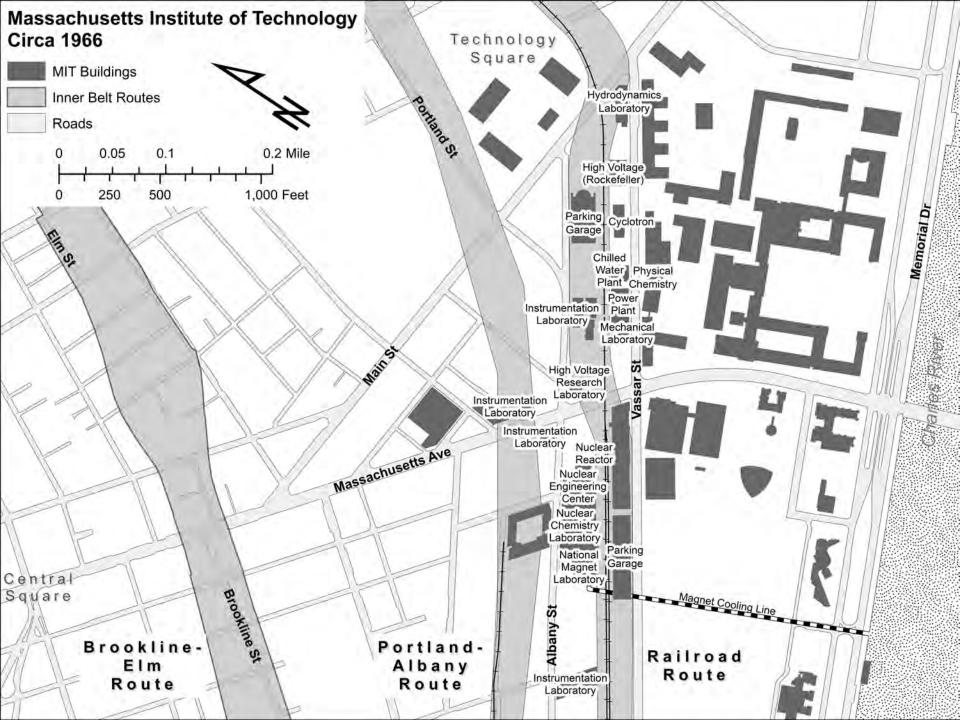
BOSTON

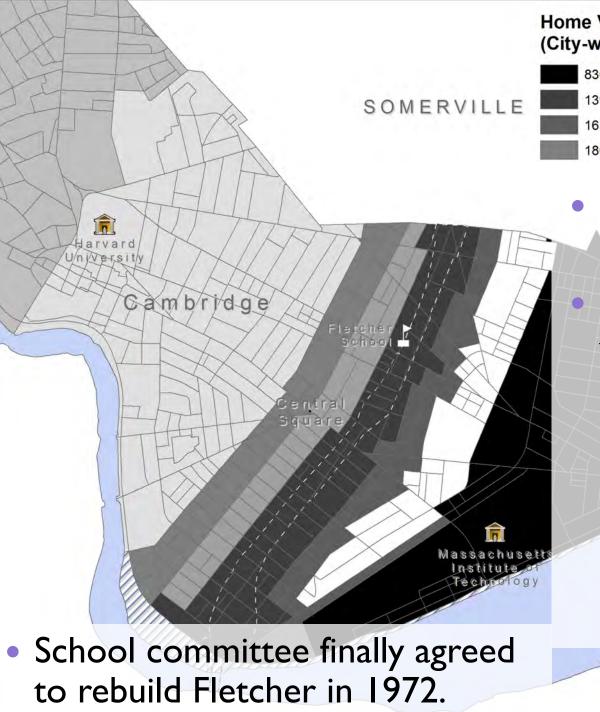
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Home Value Increase 1950 - 1970 (City-wide Average of 1800%)

830% 1930% Brookline-Elm Route
1390% 2010% Cambridge Census Blocks
1630% 2710% Unpopulated
1800% 2860%

- End result: no highway!Stopped in 1971
  - Even so, damage to the neighborhood:
    - local residents "didn't bother to paint their houses they figured they were just gonna be pushed out of them...they didn't fix the shingles or roofs."

0 0.125 0.25 0.5 Mile



- Cambridge GIS! Jeff Amero, et al.
- Cambridge Assessor
- Cambridge Historical Society
- MIT Archives
- National Historical GIS @ U. Minnesota
- Mellon Foundation
- Our students!



