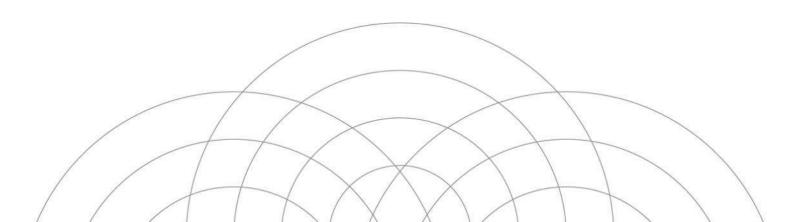
South Sandwich Community Design

Creative Approaches to Moderate Density

First Public Presentation
Sandwich Town Hall
June 17, 2019



Project Introduction: South Sandwich Community Design



Town of Sandwich

Planning & Development Department

Ralph Vitacco

Director of Planning & Economic Development

Leanne Drake

Assistant Town Planner

- Development in Sandwich has been limited due to the lack of infrastructure;
- Town acceptance of the Water Infrastructure Investment Fund (WIIF) has the potential to unlock opportunities;
- The Route 130 Corridor has long been identified for possible development;
- Tonight represents a fresh approach in achieving our goal;
- Put forward appropriate zoning to support smart growth and economic development



Project Introduction: Community Resiliency by Design



Cape Cod Commission

Heather Harper
Chief of Staff

Sarah Korjeff
Historic Preservation Specialist/Planner

Chloe SchaeferCommunity Design Planner

Michele White
Special Projects Coordinator



SANDWICH

DEMOGRAPHIC AND ECONOMIC FORECAST

1.7% population growth

Population is projected to grow to a total of 20,761 over the forecast period (2015-2025).

5.2% increase in employment

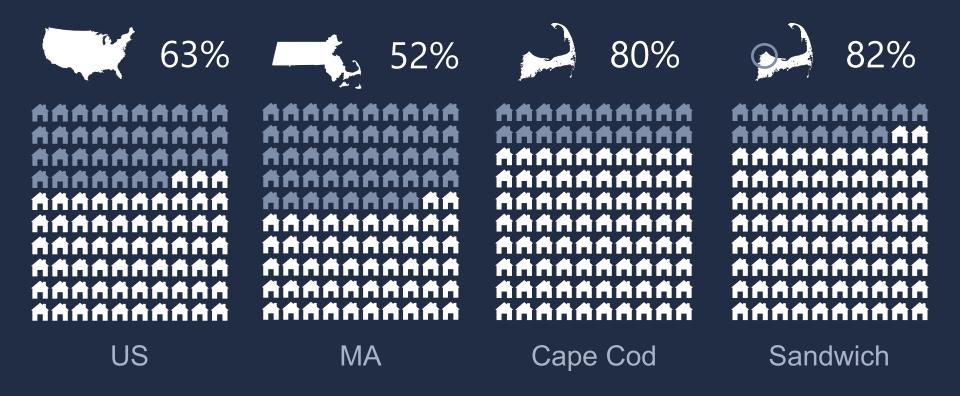
National, regional and local economic factors combine with projected population increases for this forecasted growth to a total of 9,936.

3.05% increase in households

Growth is faster than population since household size is projected to decrease.

U.S. Census Bureau and Bureau of Economic Analysis; Moody's Analytics; EPR

SINGLE FAMILY HOMES



RENTER-OCCUPIED UNITS



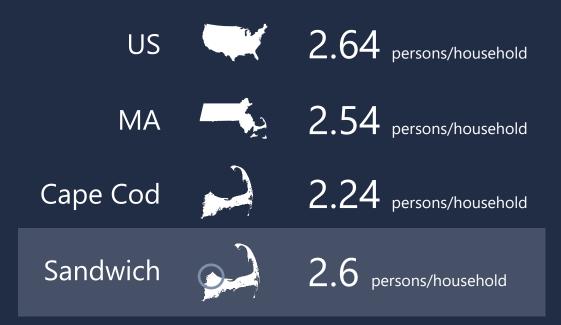
Household Size







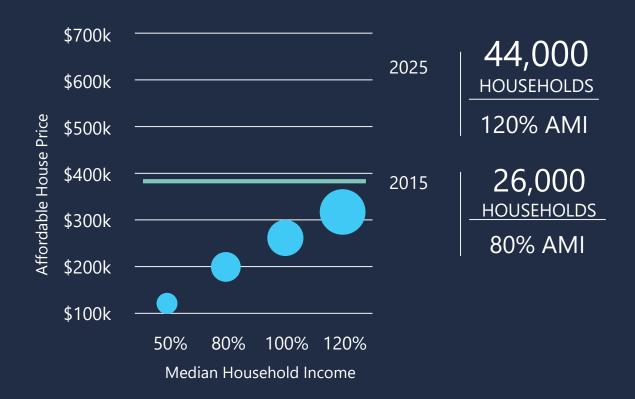
Household size is projected to further decrease within the region over the next 10 years (Crane, EPR)



BARNSTABLE COUNTY HOUSING STRESS

—— Median home value

Home wages can support



SANDWICH HOUSING STRESS

Median home value

Home wages can support



2015 Median House Price **\$325,000**

100% MHI Affordable Home Price **\$312,539**

SANDWICH HOUSING STRESS

- •••• Median home value
- Home wages can support



2025 Median HousePrice \$533,644

100% Affordable Home Price \$301,127

Outline

- Introduction to Union Studio
- Why are we here?
- Demystifying Density and the Missing Middle
 - Visual Preferences
- Next Steps and Discussion





Union Studio was founded in 2001 with one overriding goal: to use our skills as architects and urban designers to make a **civic contribution** to communities of all types.





To devote our skills as architects and community designers to the creation and repair of neighborhoods and communities of all types.





Which includes the belief that renovating historic structures with care and a **new life** is crucial to maintaining our **architectural and cultural heritage**.





And that the **design** of new public places, neighborhoods and buildings must **resonate with the communities they serve** and **enhance our civic life**.











Our passion for community design stems from our belief that many **time-tested principles** for creating healthy places **have been largely forgotten** over the past 50 years





And that through careful application of the principles of healthy neighborhood design, we can provide a **framework for revitalizing our streets and neighborhoods**.



Some principles of healthy communities

- Walkable and pedestrian friendly
- Mix of housing types that meets the broad needs of the community
- Public & private outdoor spaces and amenities
- Contextual architectural design and materials
- Equitable connection and access to community resources and amenities



Integrated mix of uses and types are the building blocks of complete communities





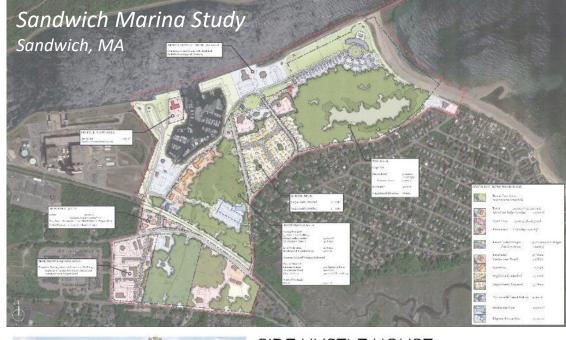








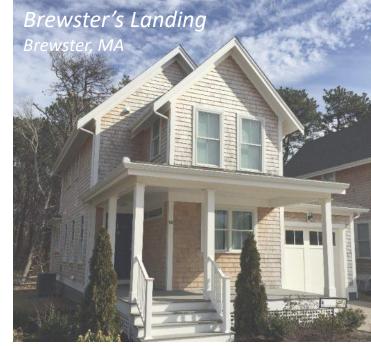


















Why are we here?









To begin community conversations around strategies and techniques for meeting the increasing demand for housing on cape cod...



Why are we here?





And to get input from all of you on ways to do this that will enhance and support the character of your communities (not detract from them)



Process/Schedule

Similar Effort in Falmouth, Orleans, Eastham, and Hyannis

May 2018 – March 2019

Review Existing Background Studies

April - May

First Public Presentation

June 17th

Online Visual Preference Survey

June - July

www.capecodcommission.org/survey

Second Public Presentation

Early September

Framework for Form-Based Regulation

Nearing Completion

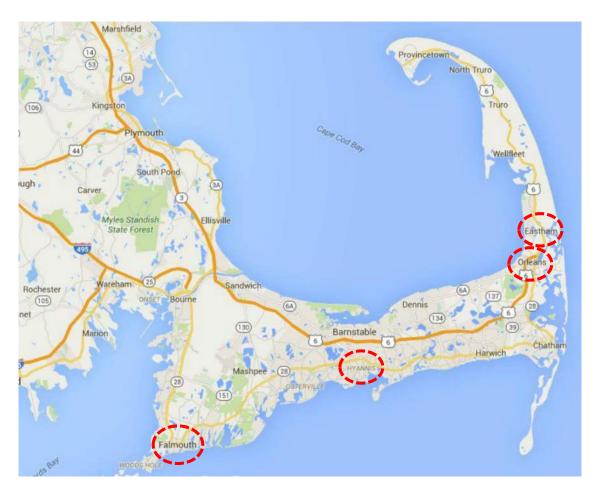
Builder's Roundtable at OneCape

July 30th, 2019

Additional Communities?

TBD

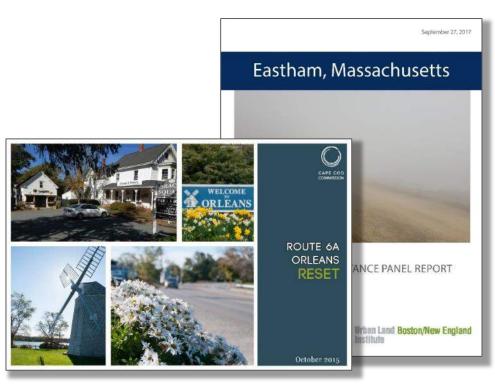


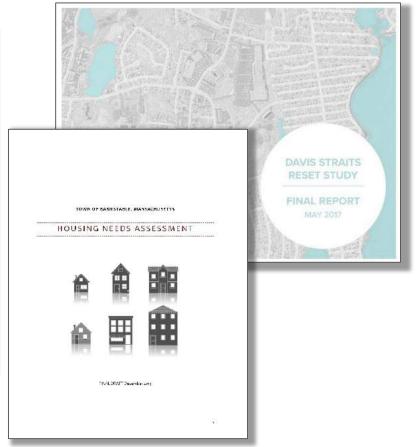


So far we've worked with 4 communities that have a cross section of conditions found elsewhere on Cape Cod.

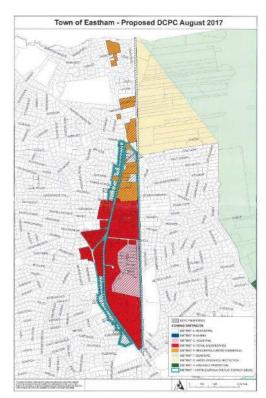


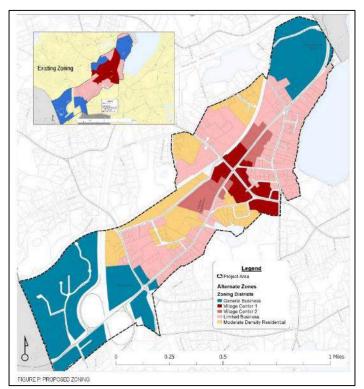
Each community has recently completed studies that identify areas where new housing types would be appropriate and have either adopted recent zoning changes in support of mixed-use communities or are considering doing so.













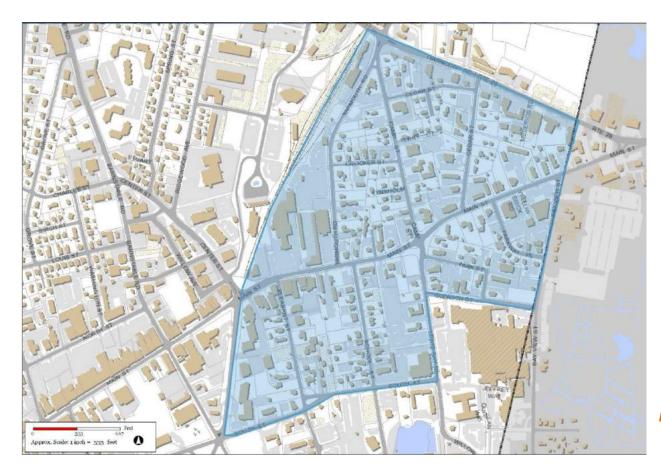
Eastham:
Route 6 / Brackett Rd Area

Orleans:Village Center

Falmouth: Davis Straits Area

The initial study areas focused on "main street" areas for each community – the "transitional" areas at the edge of single family districts...





Hyannis:East End

... whereas in Hyannis the focus was on "context appropriate infill" in a historic residential district adjacent to "main street".



First Public Presentations

Eastham/Orleans 6/19 Falmouth 6/20

One Cape Summit

Harwich 8/17

Cape Housing Institute

(Housing Assistance Corp. & Community Development Partners)

Harwich 10/31

Eastham 10/31

Yarmouth 11/1

Mashpee 11/1

Second Public Presentations

Falmouth 10/23 Orleans/Eastham 11/8

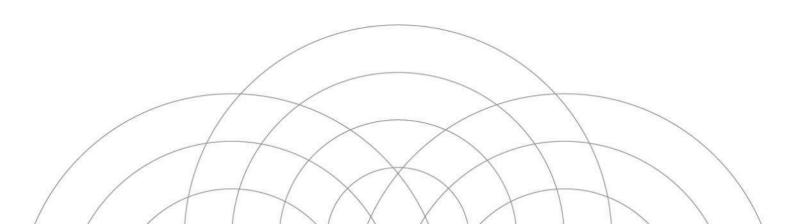
Additional Communities - Hyannis

First Presentation 12/18 Second Presentation 2/19





The Housing Challenge.... on Cape Cod



REGIONAL HOUSING MARKET ANALYSIS AND 10-YEAR FORECAST OF HOUSING SUPPLY AND DEMAND

BARNSTABLE COUNTY, MASSACHUSETTS

JUNE 30TH 2017





Submitted to
Barnstable County
and the
Cape Cod Commission



Prepared by





Burlington Vermont

Housing Market Analysis
released earlier this year by
the Cape Cod Commission
highlights a number of
challenges as it relates to
housing supply and demand
in the next 10 years (and
beyond).

% of Median Household Income	50%	80%	100%	120%	>120%
Income (County Average)	\$36,125	\$57,799	\$72,249	\$86,699	
Affordable Price (County Average)	\$125,043	\$212,438	\$271,473	\$330,618	
Estimated Unit Demand	17,379	12,908	8,477	7,858	32,753
Estimated Unit Supply	3,041	5,322	10,557	12,521	47,934
Affordability Gap in Units (demand minus supply)	14,338	7,586	-2,080	-4,663	
Cumulative Demand	17,379	30,287	38,764	46,622	79,375
Cumulative Supply	3,041	8,363	18,920	31,441	79,375
Cumulative Gap	14,338	21,924	19,844	15,181	
Barnstable County-Estimated Affordable Gap for Re	nter Units, 20	15			
% of Median Household Income	50%	80%	100%	120%	>120%
Income (County Average)	\$16,530	\$26,447	\$33,059	\$39,671	
Affordable Rent (County Average)	\$413	\$661	\$826	\$992	
Estimated Unit Demand	5,232	3,540	1,978	1,646	9,009
Estimated Unit Supply	2,363	1,969	1,807	2,407	12,858
Affordability Gap in Units (demand minus supply)	2,869	1,572	171	-761	
Cumulative Demand	5,232	8,772	10,750	12,396	21,405
Cumulative Supply	2.363	4.332	6,139	8.546	21,405
Cumulative Gap	2,869	4,441	4,611	3,850	



Employment growth is expected to add roughly 6,200 additional residents by 2025.





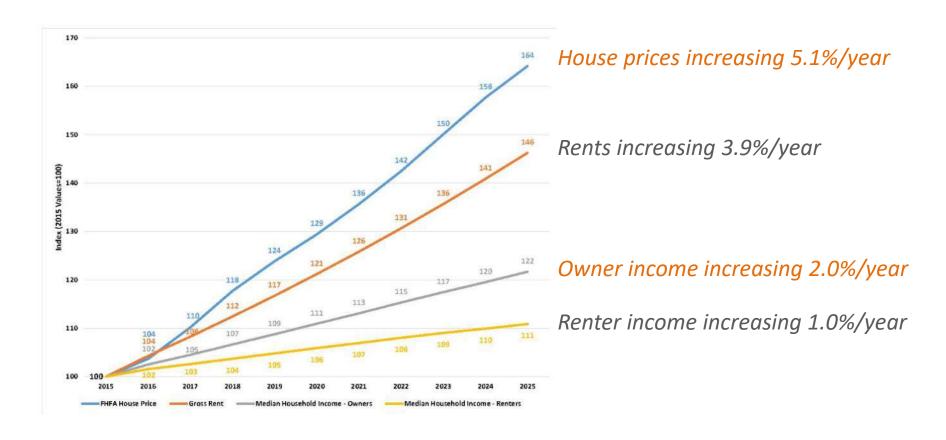
Employment and County Population 2005 to 2025 224,000 222,000 220,000 218,000 216,000 212,000 210,000 2005 2007 2009 2011 2013 2015 2017 2019 2021 2023 2025 — Total Employment — County Population

Year	Cape	Cape	Cape	Cape
2016	85,703	81,904	34,023	12,646
2020	86,176	83,094	34,217	12,807
2025	87,517	85,325	34,841	13,137

NET POPULATION GROWTH								
Year	Upper Cape	Mid Cape	Lower Cape	Outer Cape				
2020	256	1,181	84	151				
2025	1,598	3,412	708	481				



But limited supply of housing is driving costs up at rates greater rate than household incomes. Providing limited market rate housing choices for large segments of the working population of Cape Cod





Existing housing stock AND new construction have been (and continue to be) largely focused on delivering stand-alone single-family homes





- 82% of homes on Cape Cod are single family (Compared to 60% nationally)
- Less than 20% rental
- Median home size on the Cape has increased faster than the region and the nation!

Leaving the Cape very out of balance when it comes providing housing options to meet diverse community needs



The report concludes with a number of recommendations for closing the gap between housing supply and demand, several of which may be addressed with what we are here to talk about today:

- Adopt housing targets balanced between all 15 municipalities
- Increase the diversity of senior housing
- Increase the diversity of multifamily housing
- Accommodate life stages through better urban design







... but what about South Sandwich?

Related Studies: Local Comprehensive Plan (2009)

Local Comprehensive Plan

Town of Sandwich, MA

LOCAL COMPREHENSIVE PLAN CONTRIBUTORS

The Sandwich Local Comprehensive Plan

Reflections & Directions

Funding Sources

The LCP Update project was made possible through a state grant from the Massachusetts Office of Transportation & Tourism received by the Cape Cod Canal Region Chamber of Commerce in cooperation with the Sandwich Chamber of Commerce, a grant from Banistable County acting through the Cape Cod Economic Development Councit, and the Town of Sandwich.

Sandwich Local Planning Committee

Robert Jensen, Chair Taylor White, Vice Chair Aleta Barton Kate Bavelock Tim Cooney Susan R. James Linell Grundman John G. Kennan Doug Lapp Trish Lubold Kevin O'Haire Marie Oliva Frank Pannorfi Glenn Paré David Sullivan Barbara Shaner Raioh Vitacco

Sandwich Board of Selectmen

Sharon Gey, Grants Administrator, STG Consultants

Linell Grundman, Chair Frank Pannorfi John G, Kennan Randal Hunt Dana P, Barrette Tom Keyes, Past Chairman

Sandwich Planning Board

Amy Lipkind, Chair Taylor White, Vice-Chair Joseph Vaudo Daniel Marsters Ralph Vitacco Richard Claylor

May 2009

Sandwich shall direct new commercial, industrial and mixed-use development to its Growth Centers: the Route 6A/Tupper Road/Town Marina Area; the South Sandwich Village Center; the Historic Village/Route 6A Area; and the Sandwich Industrial Park and Zoning District along Route 130.

- Higher density, higher quality, and vertical mix of uses are desired in the SSVC: retail, restaurant, professional offices and services, institutional and public uses, and residential (varied types and income levels)
- New housing (from market rate to basic work force) should be the predominate upper floor use for new mixed-use development as well as moderate density residential uses (i.e. townhouses, garden apartments and congregate housing) in the fringe areas of the SSVC



Related Studies: Housing Production Plan (2010)

TOWN OF SANDWICH HOUSING PRODUCTION PLAN





Prepared with technical assistance from Gregory M. Smith, Director of the Town of Sandwich's Planning and Development Office, and Paula Schnepp, Executive Director of the Sandwich Housing Authority

February 2010

Predominant type is expensive single-family detached homes, with limited rental housing and/or multifamily housing available.

Underlying goals to provide adequate and affordable housing for all Sandwich residents:

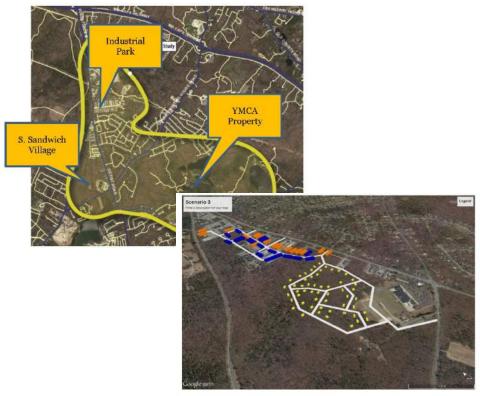
- To provide a wide range of housing alternatives to meet diverse housing needs
- To ensure that new housing creation is harmonious with the existing community
- To encourage the integration of smart growth principles in the development of housing



Related Studies: Cape Cod Commission RESET and DLTA Studies (2015)



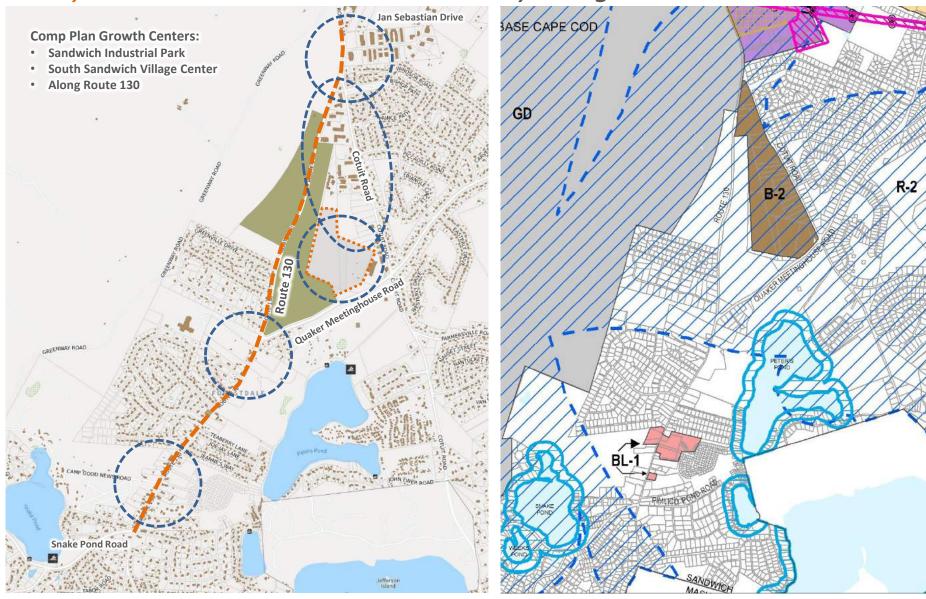
Overall goal was to provide development scenarios for the South Sandwich Village area.



Found the status quo (existing auto-oriented commercial pattern) is the least cost effective approach for the town whereas a mixed-use village area as called for in the LCP is the best case.

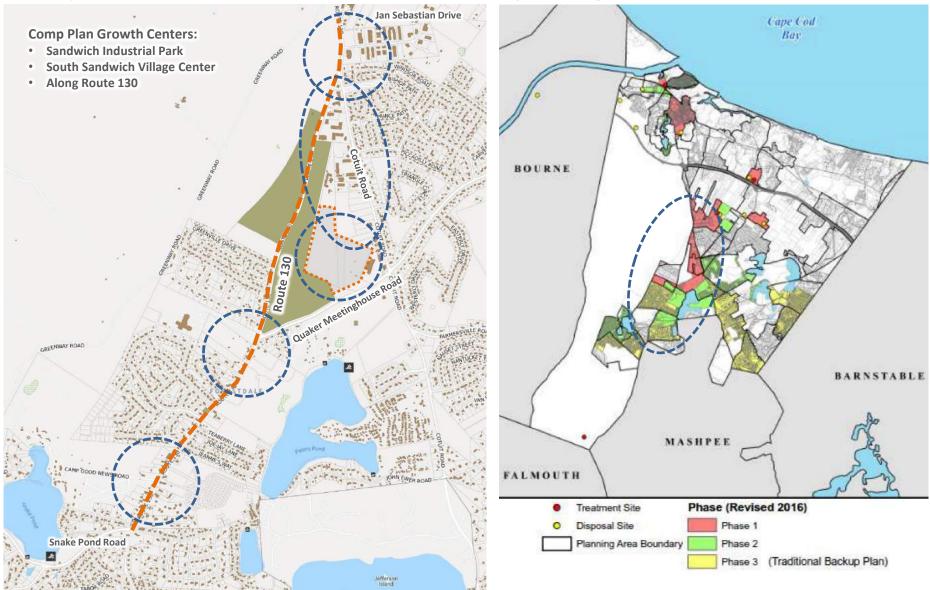


Study Area: South Sandwich Community Design





Study Area: South Sandwich Community Design





So what is all of this beginning to suggest?

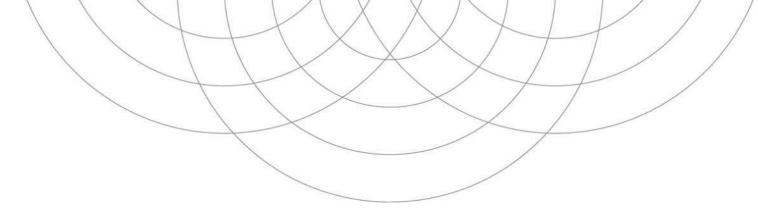


So what is all of this beginning to suggest?



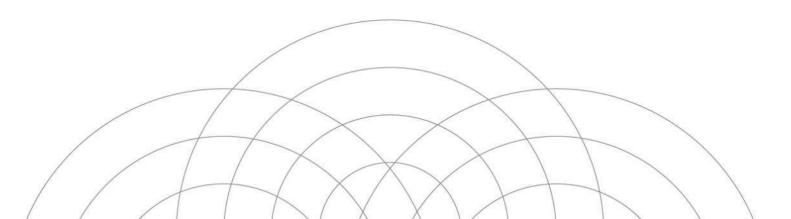
DENSITY!!!





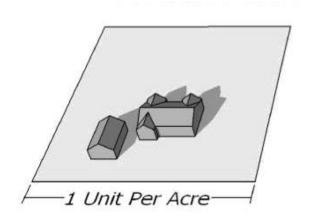
Is all density the same?

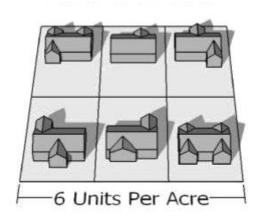
Can we find options for density that feel "right" for the South Sandwich Community?

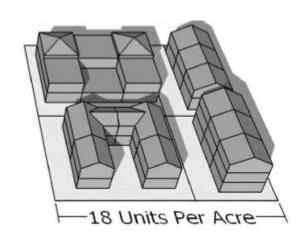


What is density?

When discussing housing, this is typically described in terms of how many residential units are included per acre of land.









But density can take many forms...



















Duplex

Pleasant Street, Sandwich

2 units on 0.12 acres = 16.5 du/ac

Typical Single Family Home

Cape Cod

1 unit on 0.25 - 0.5 acre = 2 - 4 du/ac













Duplex

Pleasant Street, Sandwich

2 units on 0.12 acres = 16.5 du/ac

Manor House

Main Street, Sandwich

5 units on 0.27 acres = 18 du/ac













Manor House

Pleasant Street, Sandwich

3 units on 0.29 acres = **10** du/ac

Manor House

Main Street, Sandwich

5 units on 0.27 acres = 18 du/ac













Walk Up

South Street, Hyannis

11 units on 0.49 acres = **22** du/ac

Stacked Flats

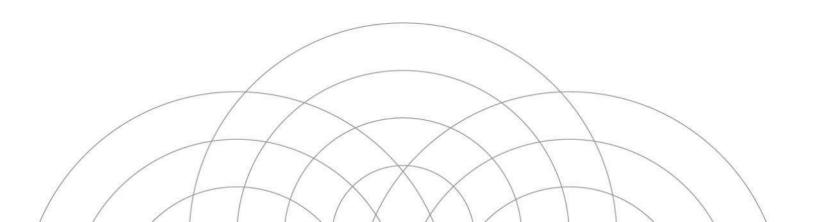
Glenwood Ave & Chancery Lane, Falmouth

8 units on 0.4 acres = 20 du/ac

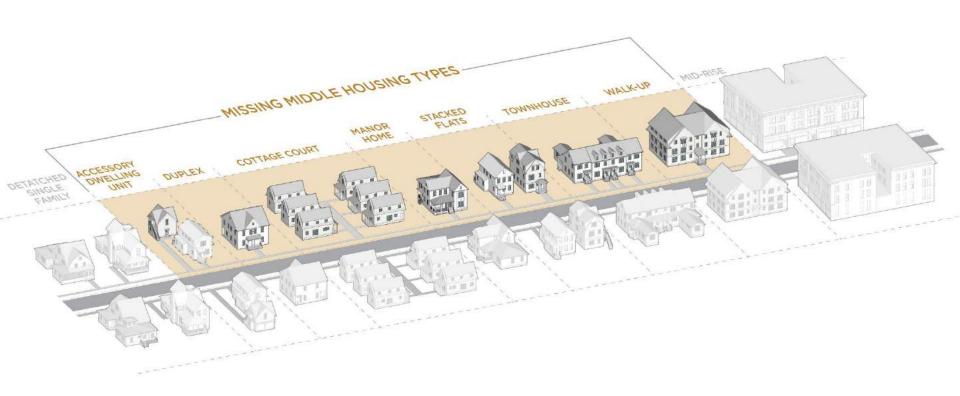




What are some creative approaches to moderate/transitional density?



There are a whole range of building types that have been largely underutilized that scale between single family and the commercial core: what some have called the "Missing Middle".





These housing types were common in pre-1940's walkable neighborhoods



















These types provided denser housing options in forms that were able to integrate into the primarily single family residential areas.





Why is the "missing middle" missing?



- Most zoning ordinances were written post-WWII and focused on the single family house and apartment complex as the two dominant housing types.
- As a result, financing is still largely structured based on those two forms.
- In addition, local residents tend to resist "new" types of development, even if those types are rooted in historical patterns.

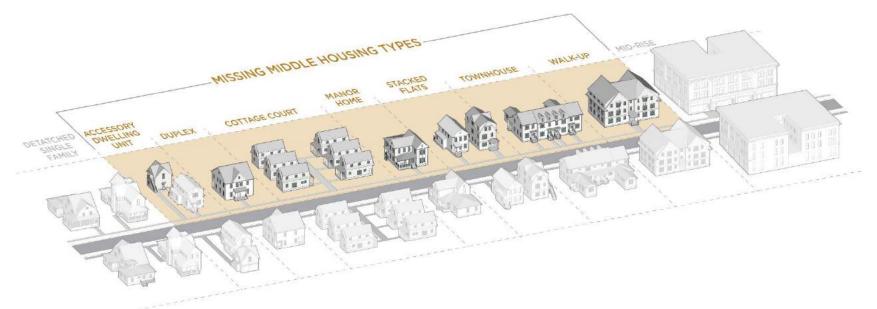


So why is there a renewed interest now?

- Empty nesters and young professionals looking for options in historic cores/mixed-use areas
- Looking for new models to help provide more affordable housing

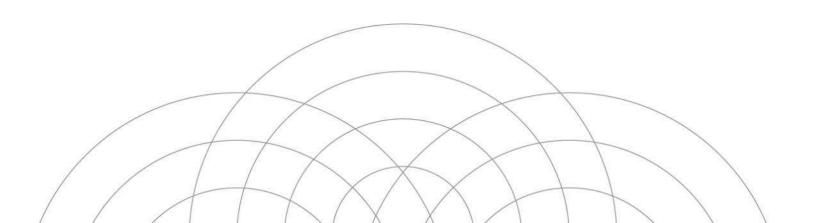
- Industry looking for new ways to develop in smaller increments
- Demographic shift to "right-sized" units and communal living

All of which the Missing Middle can help address

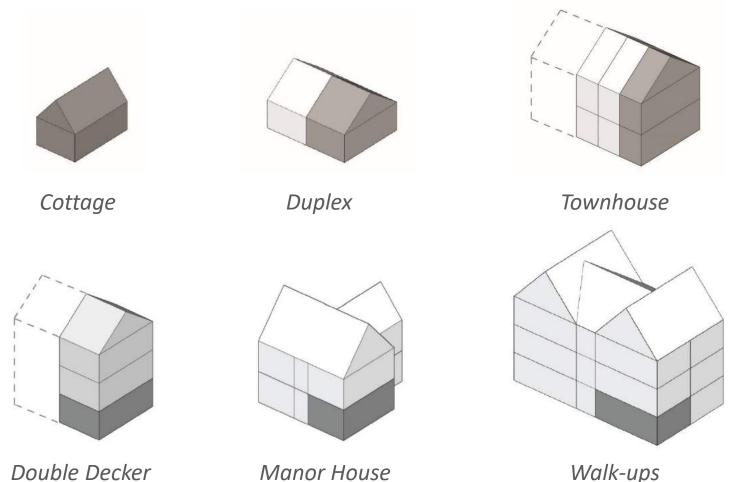




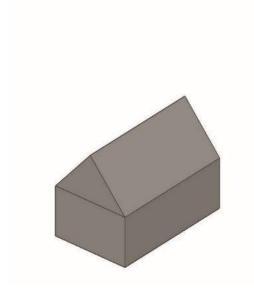
Missing Middle Building Types

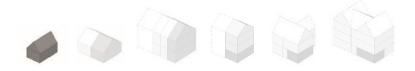


What do we mean by "building types"? Basically a means of categorizing units of a similar scale, arrangement, and disposition.











- Typically 1 − 2 Stories
- May be attached, but typically detached
- Density achieved by arranging cottages in clusters, or "cottage courts"
- 8 15 dwelling units per acre



Chases Ocean Grove

Old Wharf Road, Dennisport

55 units on 3.6 acres = 15 du/ac







Heritage Sands

Old Wharf Road, Dennisport

64 units (+ Community Building) on 8 acres = 8 du/ac











Canary Street, Sandwich



Summer Street, Sandwich



State Street, Sandwich





Ploughed Neck Road, Sandwich







Which image feels more appropriate here?



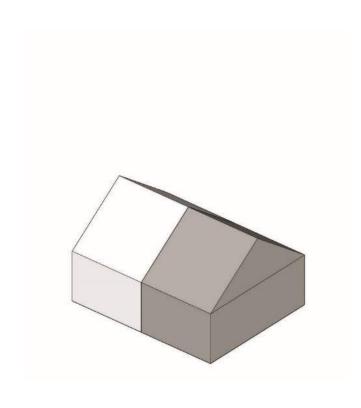




Which image feels more appropriate here?



Duplexes: Single family semi-detached units







- Typically 1-2 stories
- Two single family homes that share a common "party wall"
- 5-10 dwelling units per acre



Duplexes: Single family semi-detached units

148-150 Main Street

Main Street, Sandwich
Built in 1857

2 units on 0.6 acres (0.24 if both small lot size) = 3.5 du/ac (8 du/ac)





Duplexes: Single family semi-detached units

10 Pleasant Street

Pleasant Street, Sandwich
Built in 1849

2 units on 0.12 acres = 16.5 du/ac







Duplexes: Single family semi-detached units





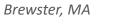


Bourne, MA











Sweetbriar, RI



West Falmouth, MA



Duplexes: Single family semi-detached units





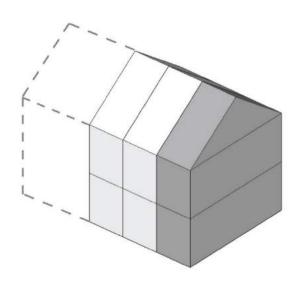


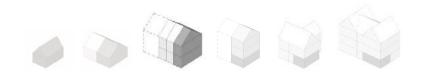
Duplexes: Single family semi-detached units















- Typically 1.5 2 stories
- Series of single family homes that share multiple common "party walls"
- Can be designed to look like individual units or as a single larger building
- 10 15 dwelling units per acre

2-4 State Street

State Street, Sandwich Built 1835, 1850

4 units on 0.34 acres = 12 du/ac





2-12 Church Street

Church Street, Sandwich Built ca. 1860

6 units on 0.45 acres = 13 du/ac











Providence, RI

Sandywoods Farm, RI

Falmouth, MA







Providence, RI







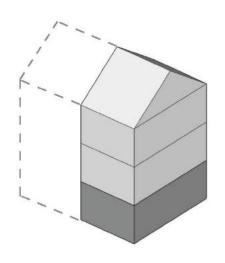


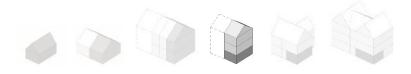




Which image feels more appropriate here?









- Typically 2 or 3 stories
- First floor flat with single story flat or two story townhouse above
- Can be designed with individual entries
- 10 − 15 dwelling units per acre

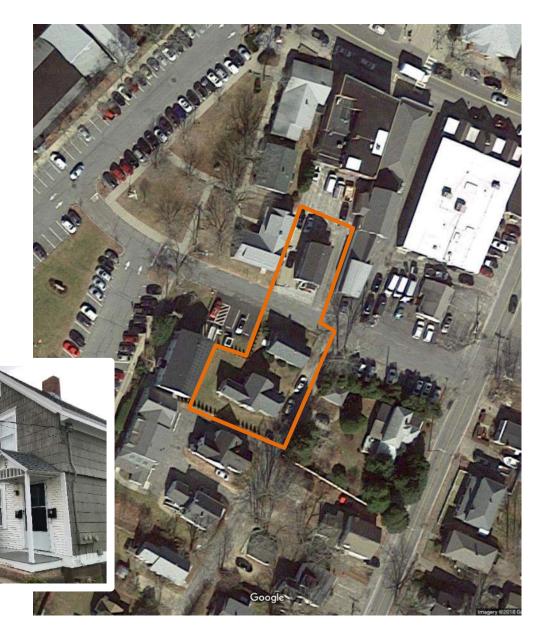


Stacked Flats

Glenwood Ave & Chancery Lane, Falmouth

8 units on 0.4 acres =
20 du/ac (15 du/ac if 6 units)









Sandwich, MA



Provincetown, MA



Provincetown, MA



Providence, RI



Providence, RI



Provincetown, MA

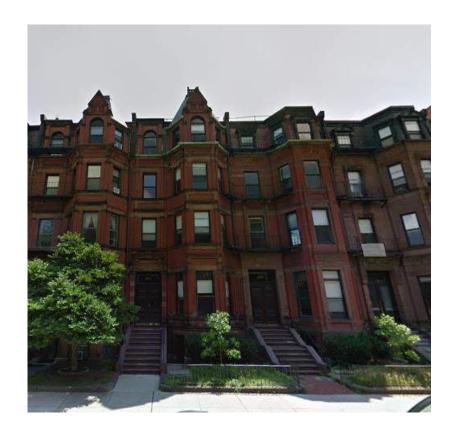






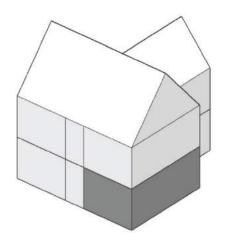
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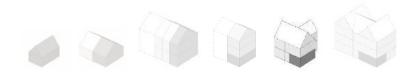














- Typically 2 3 stories
- Typically 4 6 units per building
- Designed to look like a single large home
- 10 20 dwelling units per acre



12 Pleasant Street

Pleasant Street, Sandwich
Built 1850

3 units on 0.29 acres = **10** du/ac







141 Main Street

Main Street, Sandwich Built 1857

5 units on 0.27 acres = 18 du/ac











Hyannis, MA Providence, RI







Bourne, MA

Tiverton, RI





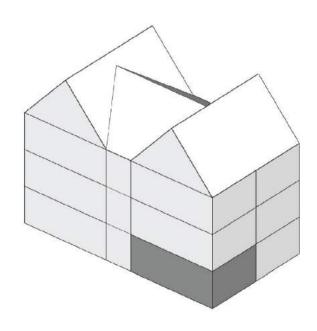


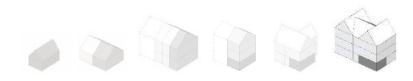
















- Typically 2-3 stories
- Typically 4 12 units per building
- Series of flats with shared circulation
- May be a stand-alone building or combined
- 15 25 dwelling units per acre

The 1883 Block

Jarves Street, Sandwich Built 1883





Harbor House

South Street, Hyannis

11 units on 0.49 acres =









Harwich Port, MA



Provincetown, MA



Bristol, RI Providence, RI













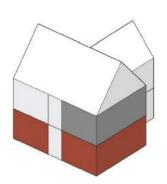


Mixed-Use: Variations that include commercial on first floor

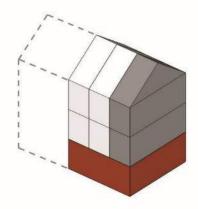




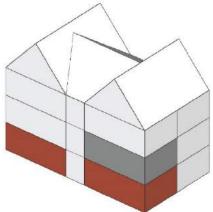




Manor House with Commercial



Townhouses with Commercial

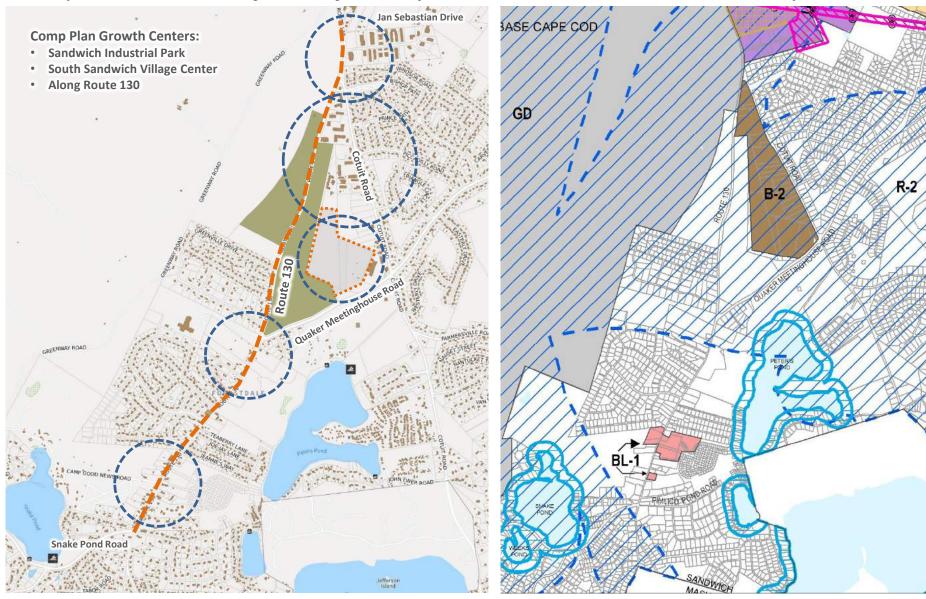


Walk-ups with Commercial

These forms can host a variety of uses.



Which brings us to the ultimate question: when thinking about how best to incorporate moderate forms of density in the South Sandwich Community...





... could any (or all) of these options fit in to your community?







Cottage



Townhouse







Manor House



Walk-ups



Next Steps

South Sandwich Community Design

Visual Preference Survey www.capecodcommission.org/survey

Second Public Presentation Early September

Form-based Code Framework

Developers' Roundtable At OneCape





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