Hybrid Working and the Long-Term Outlook for Home Construction

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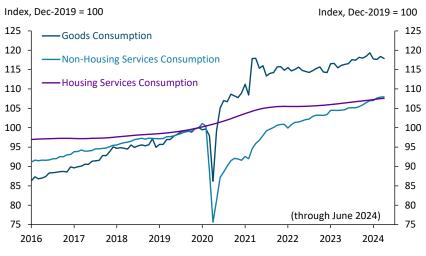
^{*}The views herein are strictly mine and do not necessarily represent those of the Federal Reserve Bank of Kansas City or the Federal Reserve System.

Overview Supply Constraints Pre-Pandemic Home Construction Hybrid Working and Location Question

Overview

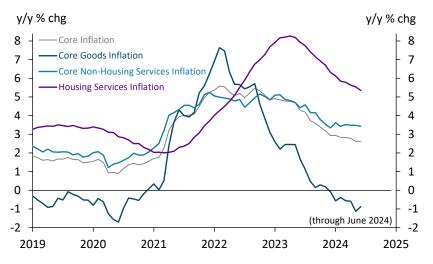
 An unprecedented surge in demand for goods consumption backed up the supply chain during the pandemic, driving up inflation.

- More recently, supply constraints and inflation have shifted to other sectors.
- Over the long term, supply constraints have been greatest for housing.
- Single-family home construction remained weak throughout the 2010s.
- Long commutes discourage living in outer suburbs, where land is plentiful.
- Less frequent commuting makes workers willing to live farther from their employer, allowing suburbs to expand outward.
- The shift in location preferences and associated boost in home construction will most affect the largest metropolitan areas
- The need for highways and other infrastructure will slow the move outward.



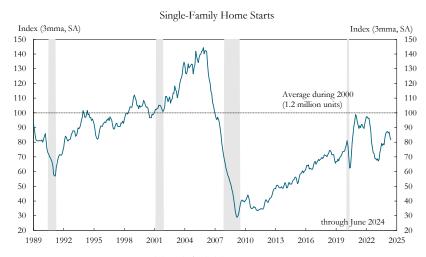
Source: Census Bureau (Haver Analytics)

The changing composition of inflation partly reflects different supply considerations.



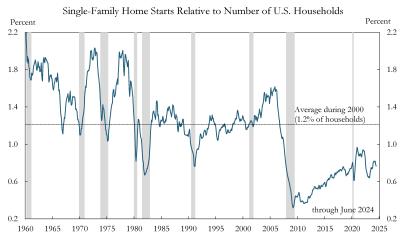
Source: Bureau of Economic Analysis (Haver Analytics)

Prior to the pandemic, home construction hadn't fully recovered from its bubble and crash during the 2000s.



Sources: Census Bureau, NBER, Haver Analytics, author's calculations

Home construction per household during the 2010s was the lowest since at least the 1950s ...

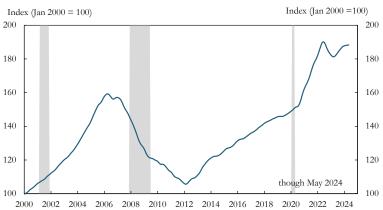


Sources: Census Bureau, NBER, Haver Analytics, author's calculations

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\dots despite soaring inflation-adjusted home prices \dots

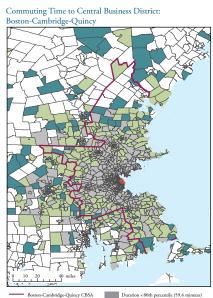
Inflation-Adjusted Price of Single-Family Homes



Sources: Standard & Poor's, BEA, NBER, Haver Analytics, author's calculations

and plentiful undeveloped land at metropolitan peripheries.

Commuting Time to Central Business District: Washington-Arlington-Alexandria Washington-Arlington-Alexandria CBSA Duration < 80th percentile (56.3 minutes) Central business district (CBD) Duration ≥80th, <95th percentile (87.5 minutes) Insufficient data Duration ≥95th percentile (99th = 128.3 minutes)



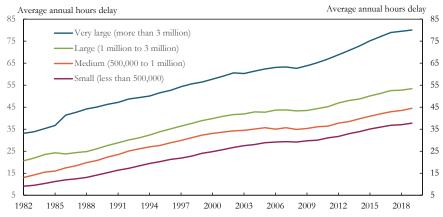
Central business district (CBD)

Insufficient data

Duration ≥80th, <95th percentile (90.0 minutes

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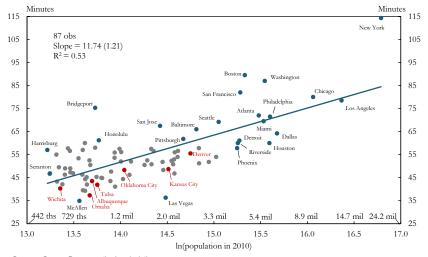
Increasingly long and congested commutes partly account for the shortfall in home construction.



Sources: Schrank et al. (2021), author's calculations

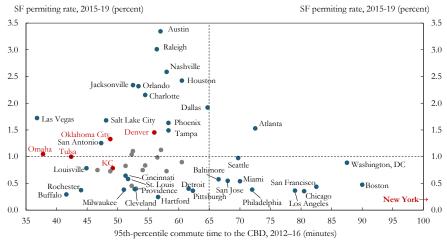
Pre-pandemic commutes in the largest metros were punitive.

95th Percentile Driving Time to Downtown Business District (2012-16)



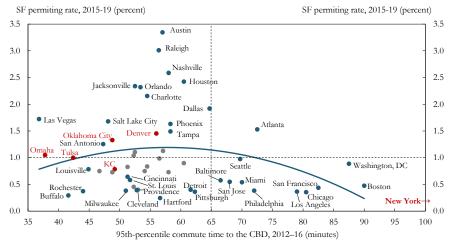
Sources: Census Bureau, author's calculations

Home construction was weaker where commutes were longer.



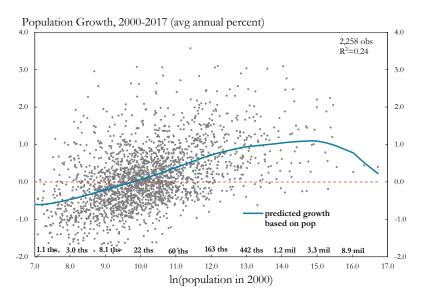
Sources: Census Bureau, author's calculations

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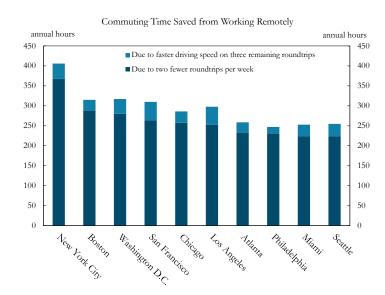


Sources: Census Bureau, author's calculations

Population growth drives home construction. Prior to the pandemic, medium-sized metros were growing fastest.

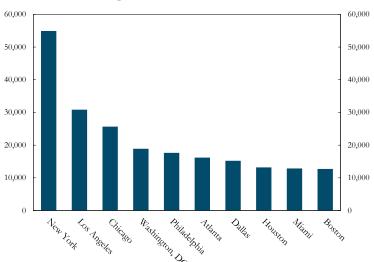


Working from home two days per week will save commuters in the largest metro areas hundreds of hours per year.



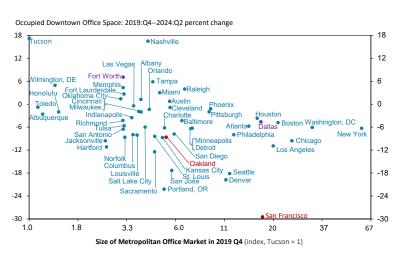
Hybrid working is likely to boost home construction most in the largest metropolitan areas.





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The post-pandemic decline in office occupancy has varied considerably across metropolitan downtowns, suggesting that many can again thrive.



sources: CBRE Econometric Advisors and Author's calculations

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Hybrid working versus full-time remote?

- ▶ Full-time remote breaks rather than loosens the tether to places of employment.
- Lots of reasons why full-time remote will prove a bad match for most workers and businesses

Downtown business districts?

- ▶ Downtown business districts can remain vibrant but only if people feel safe.
- ▶ Hybrid working may increase the attractiveness of locating employment there.
- ▶ Young adults may want to live nearby, especially if there are urban amenities such as pedestrian retail, cafes, restaurants, bars, and performance venues.

Timing?

- ► The business cycle and interest rates matter!
- ▶ Will take many years of experimenting to make hybrid working successful.
- Transitions to new patterns of living play out over decades.
- Cost? Single-family home construction is expensive!