Welcome to the University of Auckland Business School (UABS)



BUSINESS SCHOOL





New Zealand is Safe

- No New Case
- 7-day avg = 1

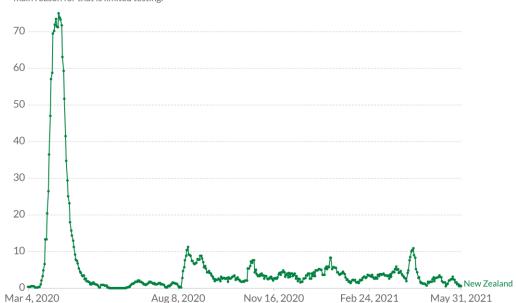
Our World in Data

CC BY

Daily new confirmed COVID-19 cases

Source: Johns Hopkins University CSSE COVID-19 Data

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

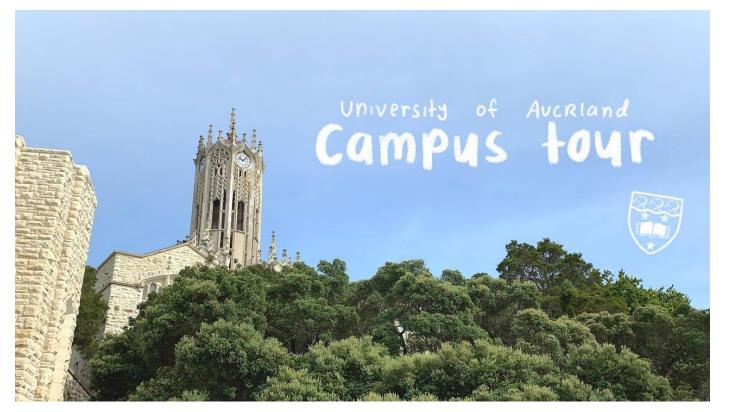


Weekly confirmed COVID-19 deaths

Weekly confirmed deaths refer to the cumulative number of confirmed deaths over the previous week.



Source: Johns Hopkins University CSSE COVID-19 Data



"Today, the University of Auckland is the largest university in New Zealand, hosting over 40,000 students on five Auckland campuses."

UoA was opened on 23 May 1883



Clock Tower

• Designed by R.A. Lippincott, a Chicago-trained architect





Self-Introduction

- Edward Yiu 姚松炎
- PhD (HKU), FRICS, MHKIS
 - 2019 now: Associate Professor, University of Auckland Business School
 - 2016 2017 elected member of Hong Kong Legislative Council;
 - 2013 2016 Associate Professor, Urban Studies Program, Chinese University of Hong Kong
 - 2013 2016 Associate Director, Institute of Future Cities
- Research Interest: Urban Study, Housing Policy, Real Estate Economics and Finance





Housing Markets of New Zealand -

Is it Different or Similar to Other Countries?

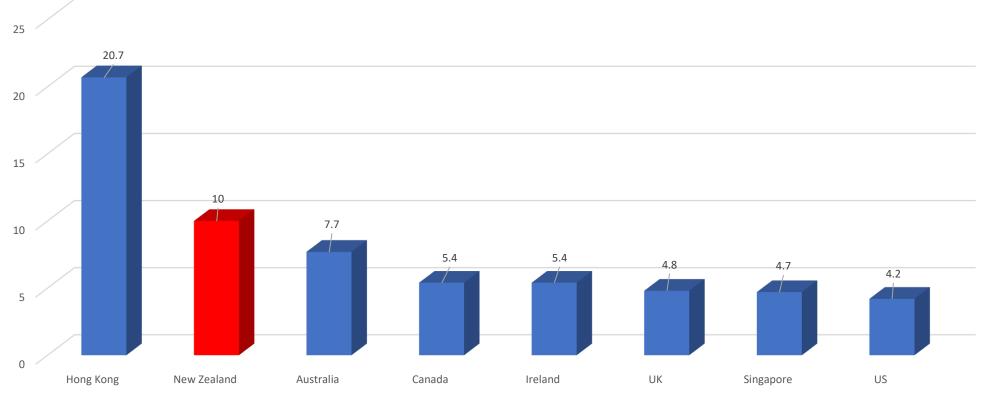
Dr. Edward Yiu

Associate Professor, University of Auckland

June 2, 2021

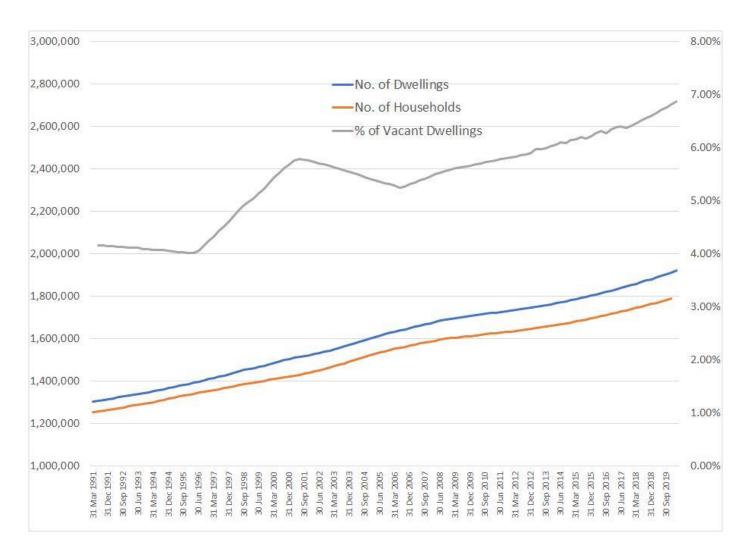
An Online Presentation to the CUHK Urban Studies Programme students

NZ – the 2nd most unaffordable housing market in the world in 2019

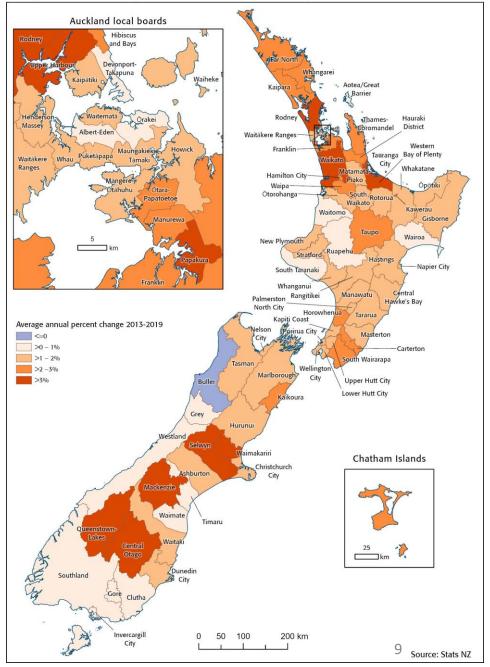


Demographia (2021) median house price to household income ratio in 2020

Common Solution: Increase Supply -Building More Dwellings to Accommodate More Households



Estimated resident population change, by territorial authority and Auckland local board areas, 30 June 2013 -30 June 2019



Densification of the Auckland Region



- Land lot subdivision and
- Building higher-rise townhouses and apartments
- Convert from singleownership to multipleownership
 - Three types of land lease

Three Types of Land Lease

• Freehold, Cross-lease and Unit Titles







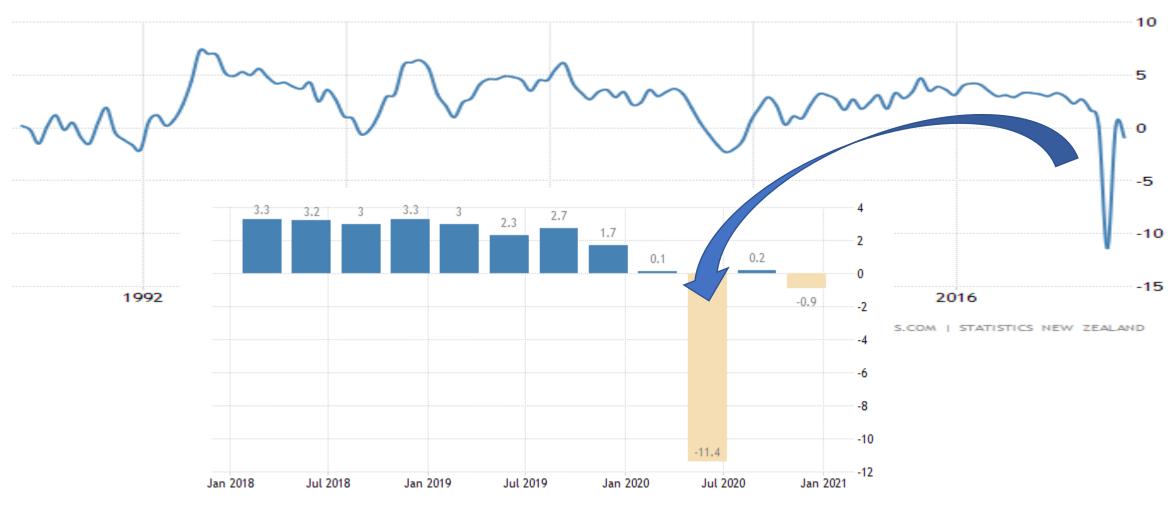
Freehold Land	Cross Lease Land	Unit Titles Land
Detached house	Semi-detached houses	Townhouses or Apartments
houses built on freehold land and cross-leased land are typical stand-alone houses of similar designs and facilities.		Houses built on unit titles land are townhouses or apartments

Governance of the Three Types of Land Lease

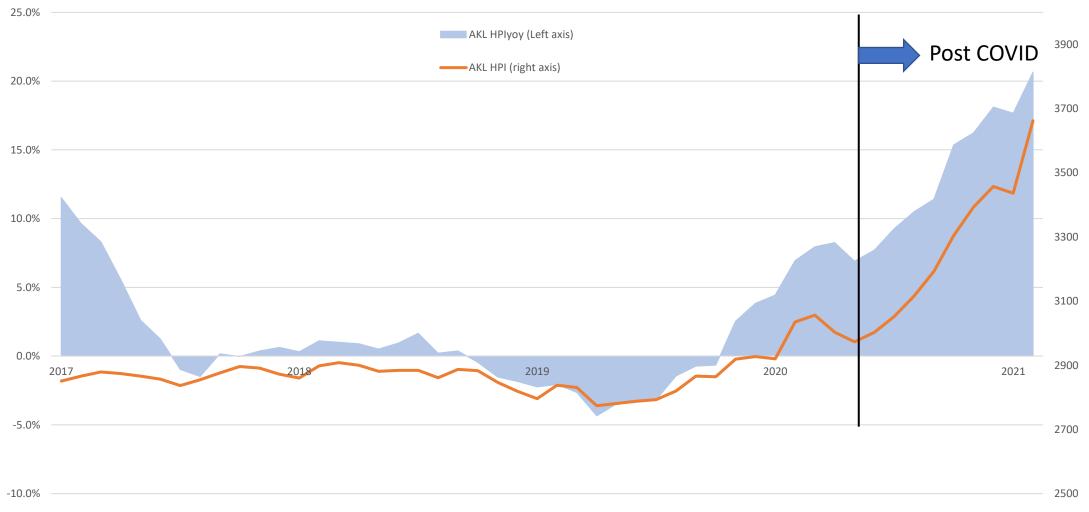
SUBDIVIDE TO:	FREEHOLD	CROSS-LEASE	UNIT TITLE
Land and Structure	Single-owned land and	Co-owned land and 999-year	Co-owned land and structures
Ownership	structures	leasehold structures	
Building Type	Detached / Semi-detached	Detached / Semi-detached	Apartments / Townhouses
	houses	houses	
Single or Multiple Owners	Single-owned	Multiple-owned	Multiple-owned
Explicit Costs	Subdivision fee	N.A.	Subdivision fee and Management
			fee
Internal Governing	N.A.	Covenants in common law	Unit Title Act (i.e., regulatory-
	(Externalised)	(i.e., voluntary-based self-	based governance, a stipulated
		governance, unanimous	proportion of owners' consent
		consent required)	required)
Limitations / Uncertainties	Subject to topographical	Require unanimous (100%)	Require paying a management fee
	constraints in land	consent of owners for any	and liable to the decisions made
	subdivision	works in common parts	by the body corporate

Cheung, K.S., Wong, S.K., Wu, H. & **Yiu, C.Y.** (2021 accepted) The Nature of Land Governance: Choices between Regulatory versus Voluntary Governance, *Urban Land Policy*, forthcoming

2020: the Deepest Recession of NZ



2020: One of the Biggest Rebounds of House Prices in NZ



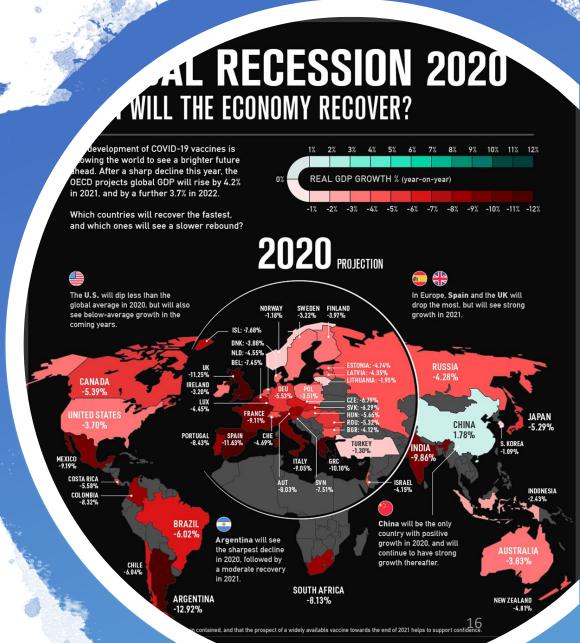
2020: A Recession, House Supply Increases, but House Price Rises! Why?

- Hypotheses:
 - Economic growth
 - No capital gain tax
 - Insufficient house supply
 - Migrants
 - Monetary policy (cut interest rate and relax mortgage restrictions)



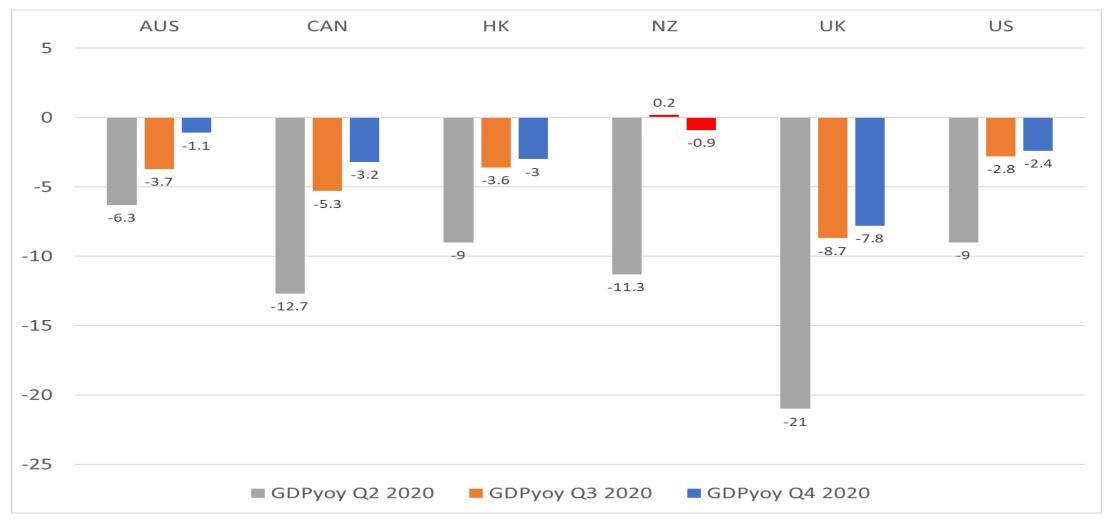
Why House Price Rise? A 6-economy Comparison

Hypothesis 1: Economic Growth?



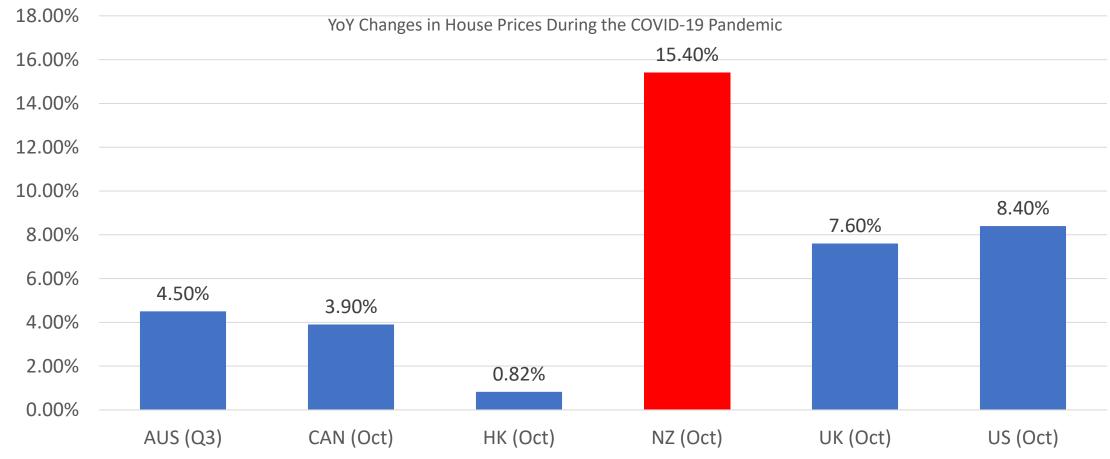
https://www.visualcapitalist.com/global-recession-2020-recovery/

COVID Causes a Global Recession



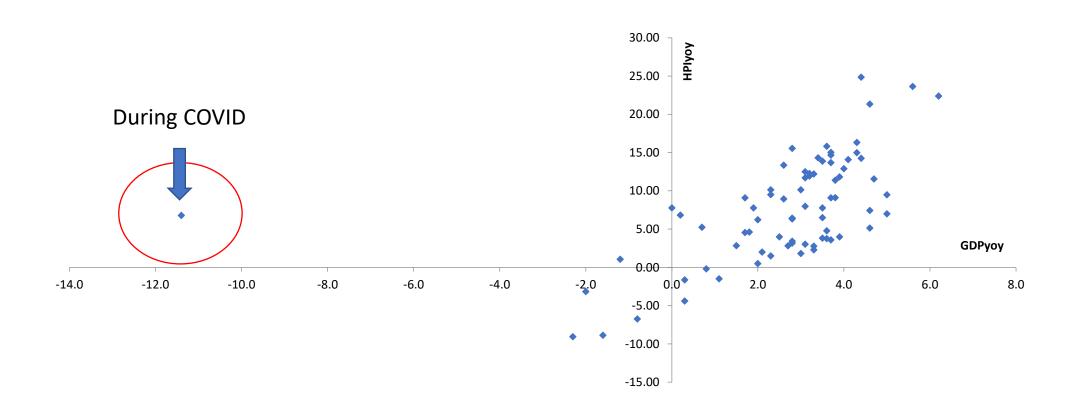
The latest 3 releases of Year-on-Year % Changes of GDP During the COVID-19 Pandemic of the six developed economies. Sources: Trading Economics.

House Price Rise in COVID is a Global Phenomenon



The latest release of Year-on-Year Growth Rates of the House Price Indices During the COVID-19 Pandemic of the six developed economies: Australia (AUS), Canada (CAN), New Zealand (NZ), United Kingdom (UK), United States (US) and Hong Kong (HK). Sources: AUS-ABS, CAN-TradingEconomics, HK-RVD, NZ-REINZ, UK-HM, US-FRED.

Evidence that the house price growth is NOT due to GDP growth in NZ during COVID



₄₁ Gains Tax Rates in Europe Capital Gains Tax Rates in European OECD Countries, 2020 LT 20% #14 CZ 15% #19 SK 0% #22 PL 19% #18 #10 23% #12 15% Tor Note: If the capital gains tax rate varies by type of asset sold, the tax rate applying to the sale of listed

Hypothesis 2: NO Capital Gain Tax?

Note: If the capital gains tax rate varies by type of asset sold, the tax rate applying to the sale of listec hares after an extended period of time is used.

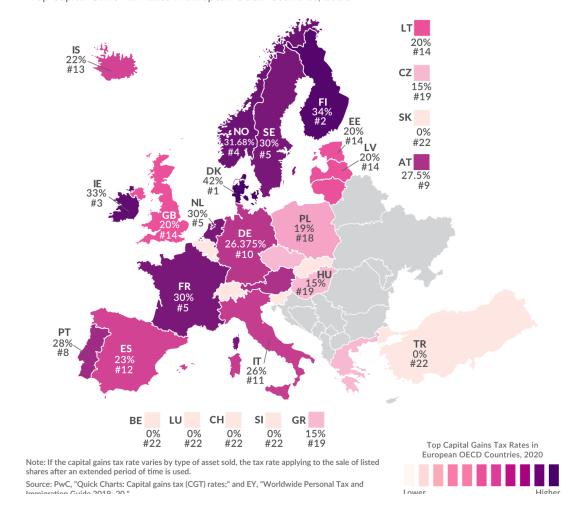
n: PwC, "Quick Charts: Capital gains tax (CGT) rates;" and EY, "Worldwide Personal Tax and in Guide 2019–20."

Capital Gain Tax

- NZ bright line test
- HK No Capital Gain Tax
- UK 20%

Capital Gains Tax Rates in Europe

Top Capital Gains Tax Rates in European OECD Countries, 2020



Bright line test currently applies to properties sold within five years of purchase that aren't family homes.

Bright-line Property Rule for Residential Property

Income tax payable if sold within 2-year

Income tax payable if sold within 5-year within 5-year

Income tax

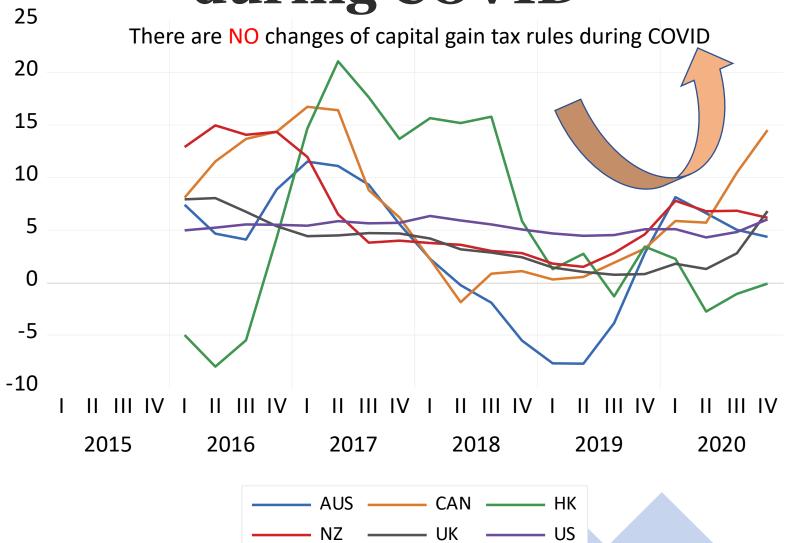
Signature for the payable if sold

Sign



https://www.ird.govt.nz/property/buying-and-selling-residential-property/the-brightline-property-rule

"Synchronised" House Price Rebounds during COVID



Hypothesis 3: Insufficient House Supply?

Year to June	Natural increase in population	Net internal migration	Net international migration	Total population growth	New dwellings required	New dwellings completed	Surplus/deficit o new dwellings
2019	12,800	-11,800	24,700	25,700	8892	10,080	1188
2020	12,800	-12,600	36,700	36,900	12,768	14,353	1585

https://www.interest.co.nz/property/108084/aucklands-housing-crisis-starting-ease-supply-starts-overtake-demand-and-accumulated

Year	Surplus
2019	1188
2020	1585

Numbers of Households and Private Dwellings Changes YoY – 1992 - 2020

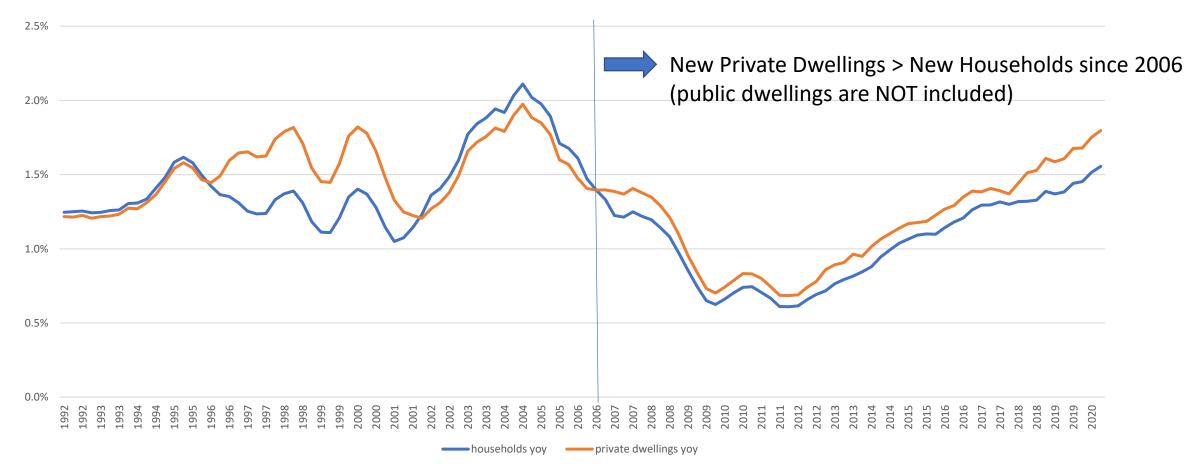


Figure 3 Number of Households yoy versus Number of Private Dwellings yoy, Jun 1992—Sep 2020. Source: Stats NZ (2020a)

Hypothesis 4: Migrants?

 Since Oct 2018, non-resident or noncitizen buyers are banned from buying houses by the Overseas Investment Amendment Act





Home Transfers by Non-Citizens or Non-Resident – 2017 Mar – 2020 Sep

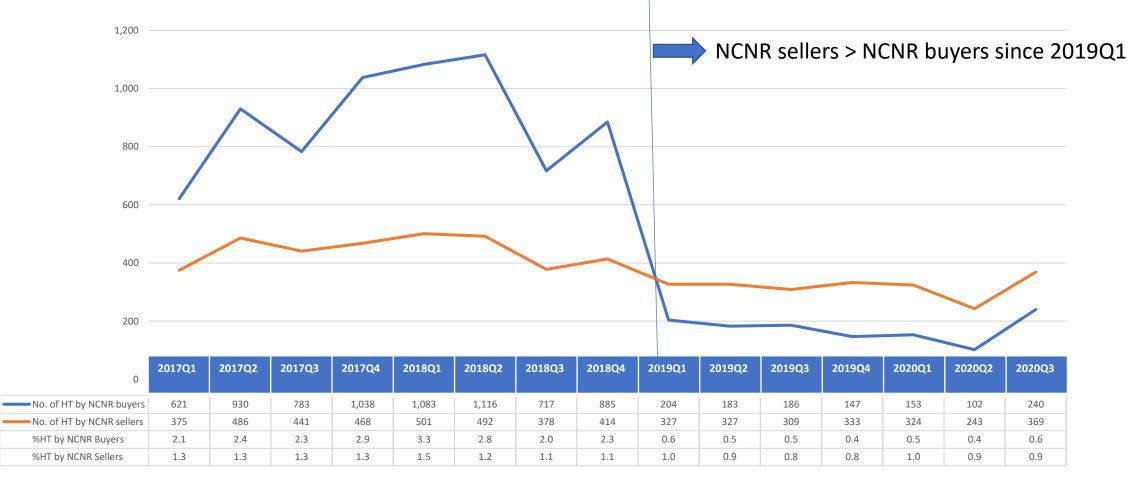
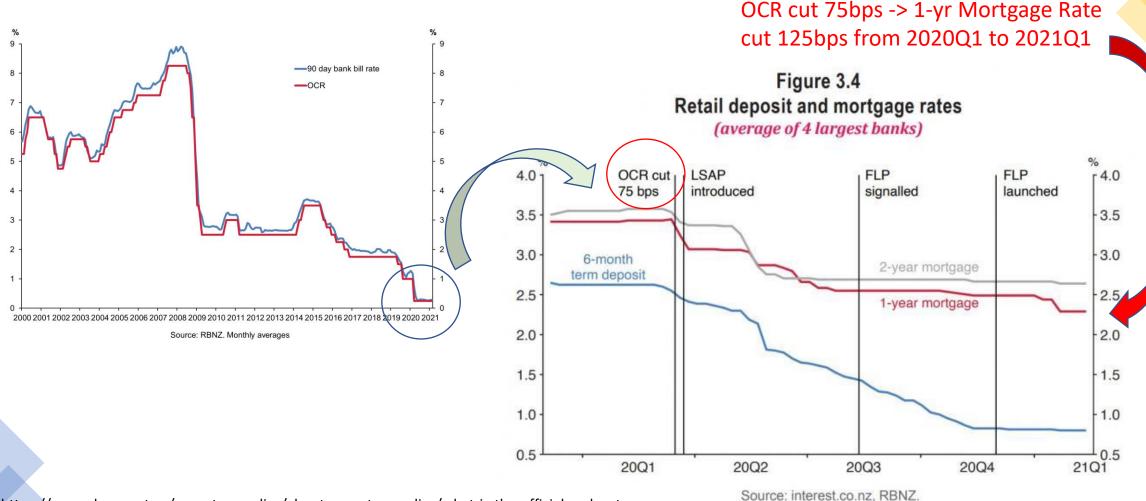


Figure 4 Home Transfers by Non-Citizen or Non-Resident (NCNR) Buyers and Sellers, Mar 2017—Sep 2020. Source: Stats NZ (2020c)

Hypothesis 5: Mortgage Policy?

https://www.bloomberg.com/news/articles/202 1-01-05/new-zealand-posts-fastest-house-pricegrowth-since-mid-2017

An Interest Rate Cut in 2020



https://www.rbnz.govt.nz/monetary-policy/about-monetary-policy/what-is-the-official-cash-rate

https://www.interest.co.nz/banking/109222/rbnz-governor-adrian-orr-tells-banks-lower-interest-rates-more-noting-if-offshore

Relaxation and Reinstate of Mortgage Loan Restrictions

Reserve Bank removes LVR restrictions for 12 months 30 April 2020

The Reserve Bank has today decided to remove mortgage loan-to-value ratio (LVR) restrictions for 12 months. The decision was made to ensure LVR restrictions didn't have an undue impact on borrowers or lenders as part of the mortgage deferral scheme implemented in response to the COVID-19 pandemic.

Owner-occupier loans – 20 /20 REINSTATE on 1 March 2021



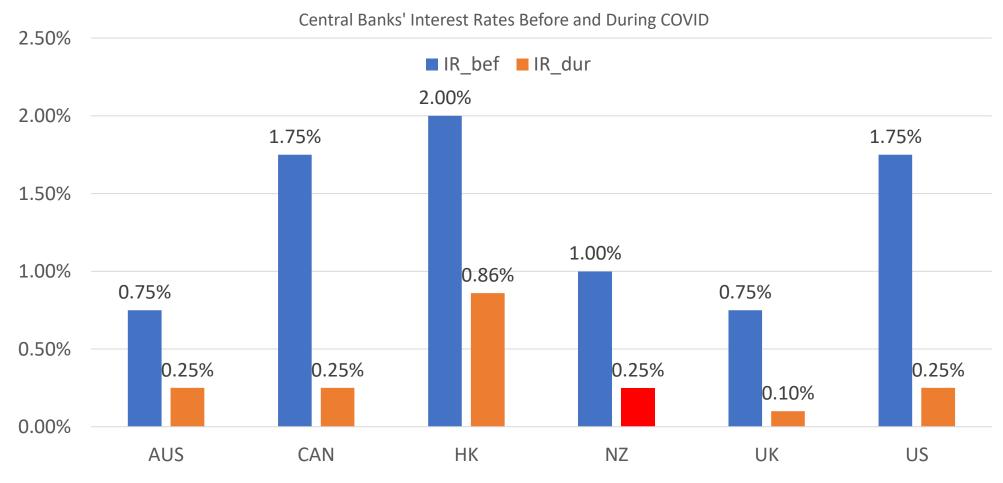
From 1 March, 2021 most owneroccupiers will need a 20% deposit to secure a property. Lenders can provide a maximum of 20% of new mortgage lending to owner-occupiers at LVRs greater than 80 percent (those with less than a 20% deposit). Investor loans – 30 / 5
REINSTATE on 1 May 2021



Most investors occupiers will need a 40% deposit to secure a property. Lenders can provide a maximum of 5% of new mortgage lending to investors at LVRs greater than 60 percent (those with less than a 40% deposit).

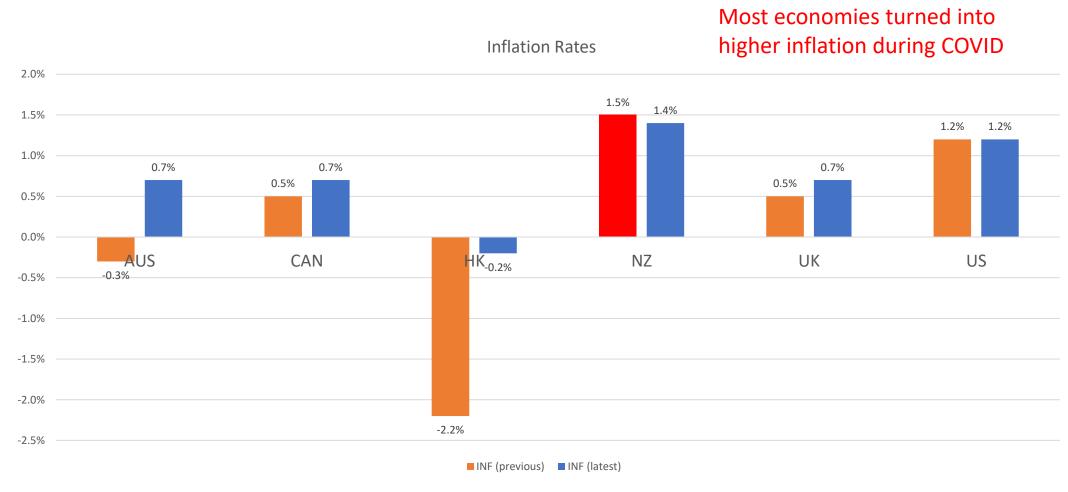
https://www.rbnz.govt.nz/education/at-a-glance-series/lvr-restrictions-at-a-glance

Central Banks' Interest Rates – Before and During COVID



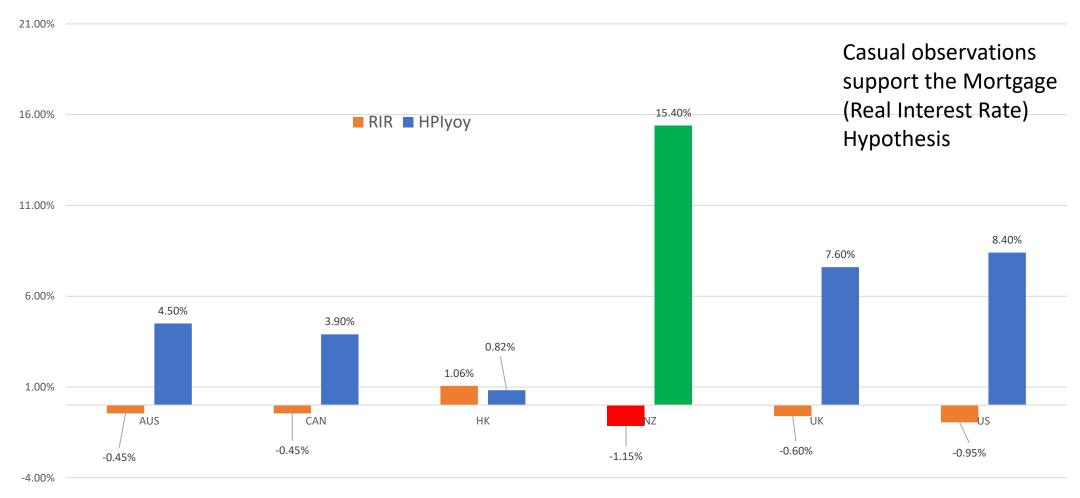
Changes in interest rates before (IR_bef) and during (IR_dur) the pandemic, source: Deloitte (2020)

Inflation Rates Before and During COVID



The latest and previous inflation rates (INF) of the 6 economies (because the data is released on different dates, the data is not from the same month). AUS - 2020Q3, CAN, HK, UK, US - 202010, NZ - 202009. Source: Trading Economics

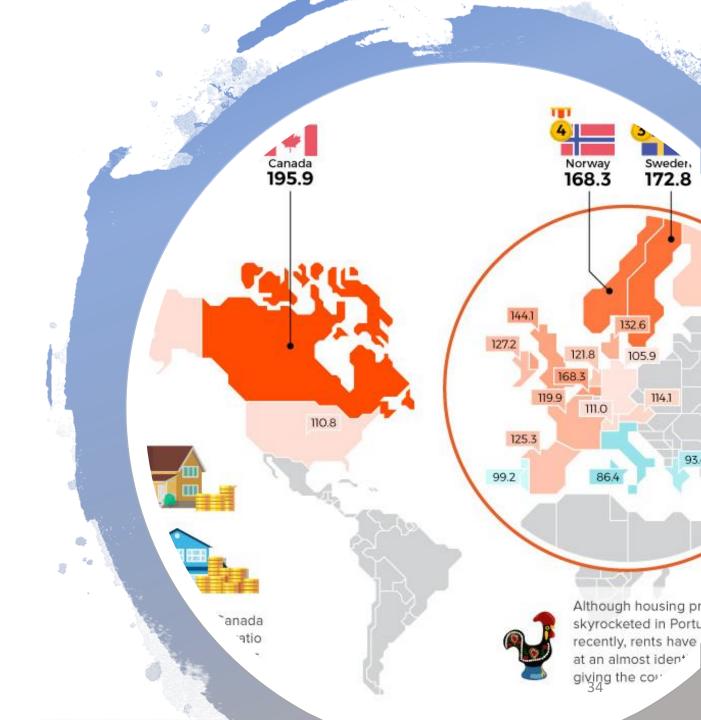
Real Interest Rates & House Price Changes in COVID



The real interest rates (RIR) of the 6 economies (because the data is released on different dates, the data is not from the same month).

Empirical Evidence of the RIR Hypothesis from the current COVID crisis

 https://www.visualcapitalist.com/mappe d-the-countries-with-the-highesthousing-bubble-risks/



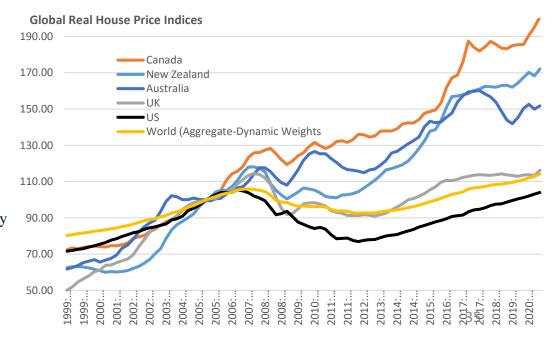
Interest Rates and Global House Prices Data

- Global House Prices: Mack, A., and E. Martínez-García. 2011. "A Cross-Country Quarterly
 Database of Real House Prices: A Methodological Note." Globalization and Monetary
 Policy Institute Working Paper No. 99, Federal Reserve Bank of Dallas.
 https://www.dallasfed.org/institute/houseprice#tab2
- Long Term Interest Rate: https://www.dallasfed.org/institute/dgei/ltrates.aspx

Long-Term Interest Rates



NOTES: Calculations are based on a representative sample of 37 countries. Aggregated using U.S. trade weights. Argentina, Costa Rica and Indonesia are excluded due to lack of data. Shaded bars indicate global recessions (Grossman, Mack and Martínez-García (2015): "A Contribution to the Chronology of Turning Points in Global Economic Activity (1980-2012)," Journal of Macroeconomics, Vol. 46, pp. 170-185). Last updated April 2021. SOURCES: Database of Global Economic Indicators; Haver Analytics.

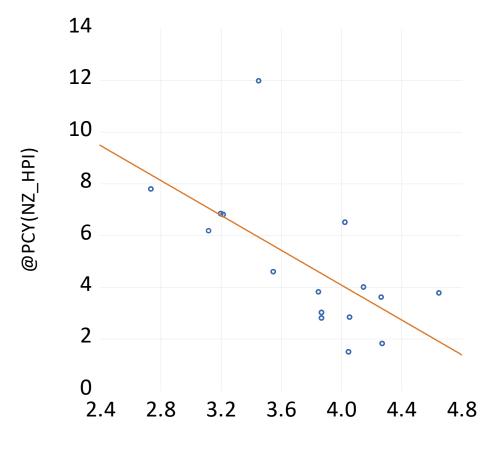


Prelim Panel Results - 6 Economies 2017 - 2020

Panel	Model 1	Model 2
Dep Var	HPI-YoY	HPI-QoQ
С	6.346 (8.04)***	0.017 (4.95)***
RIR	-2.514 (-2.83)***	-0.009 (-2.71)***
ΔGDP	0.454 (2.52)**	0.001 (2.39)**
ΔUNE	-0.023 (-1.24)	-0.015 (-0.58)
AR(1)	-	0.253 (2.44)**
Fixed Effect	Cross-economy	
No of Obs	6 economies x 16Q (2017Q1 – 2020Q4)	
Adj R-sq	0.24	0.16

Compare the Prelim Results of NZ and the 6E

NZ	NZ Model 1	6 Econ Model 1
Dep Var	HPI-YoY	HPI-YoY
С	20.04 (3.68)***	6.35 (8.04)***
RIR	-4.21 (-2.71)**	-2.51 (-2.83)***
ΔGDP	0.35 (0.66)	0.45 (2.52)**
ΔUNE	0.02 (0.19)	-0.02 (-1.24)
No of Obs	16 (2017Q1 – 2020Q3)	
Adj R-sq	0.30	0.24



NZ_IR_FLOAT-NZ_INF

Why Can't You Afford a Home?

- 'Why can't you afford to buy a home? It's not because of ... too little land, but too much bank lending.'
 - Steve Keen,
 - author of *Debunking Economics*
- "Unlimited credit and money flows into an inherently finite supply of property, which causes rising house prices – a housingfinance feedback cycle"
 - Josh Ryan-Collins,
 - author of Why can't you afford a home?

Josh
Ryan-Collins
Why can't
you afford
a home?

Conclusions

- House price rise is a global phenomenon, its cause is likely to be a shock common to many economies during COVID;
- It's unlikely to be caused by local issues, such as tax policy, house supply, etc;
- A cut to an unprecedented low interest rate and a lax monetary policy is common to the OECD economies during COVID;
- A cross-economies panel analysis confirms a negative association between real interest rates and house price rises;
- Real interest rate does not only affect the borrowing cost, but it is also a benchmark for the required rate of return.