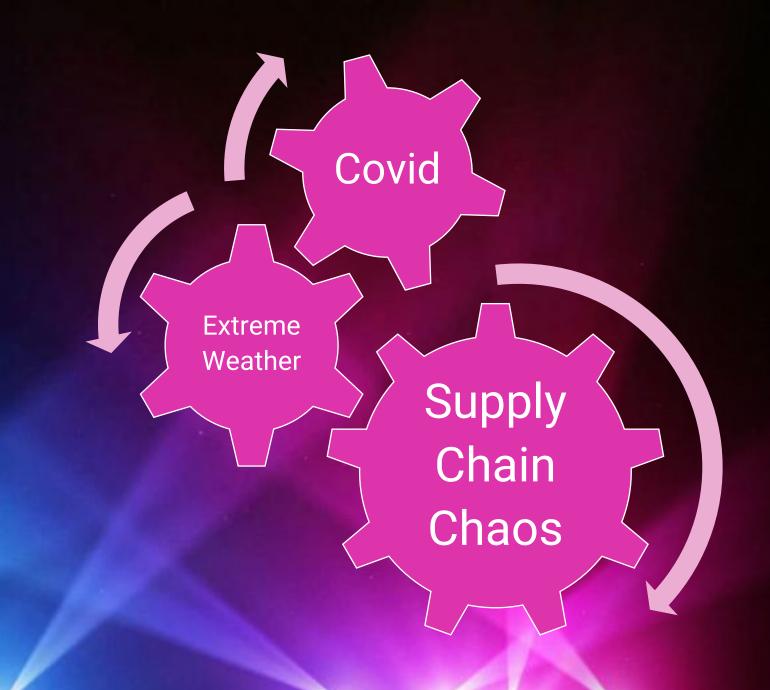
## Post-Pandemic Recovery



DR. SHERRY COOPER SEPTEMBER 27, 2021

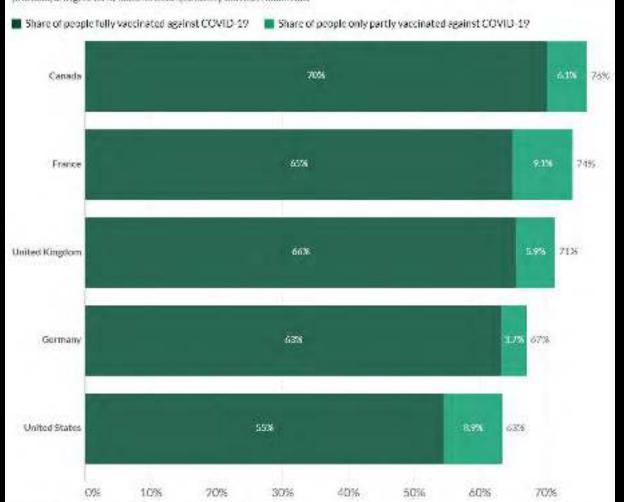




#### Share of people vaccinated against COVID-19, Sep 25, 2021



Alternative definitions of a full vaccination, e.g. basing been infected with SARS-CoV-2 and having 1 dose of a 2-dose protocol, are ignored to maximize comparability between countries.



Sharms: Official data collated by Dur World in Data. This ripta is only available for reuntries which report the bytakelogy of desist asministered by first and except these in absolute members.

OC 59

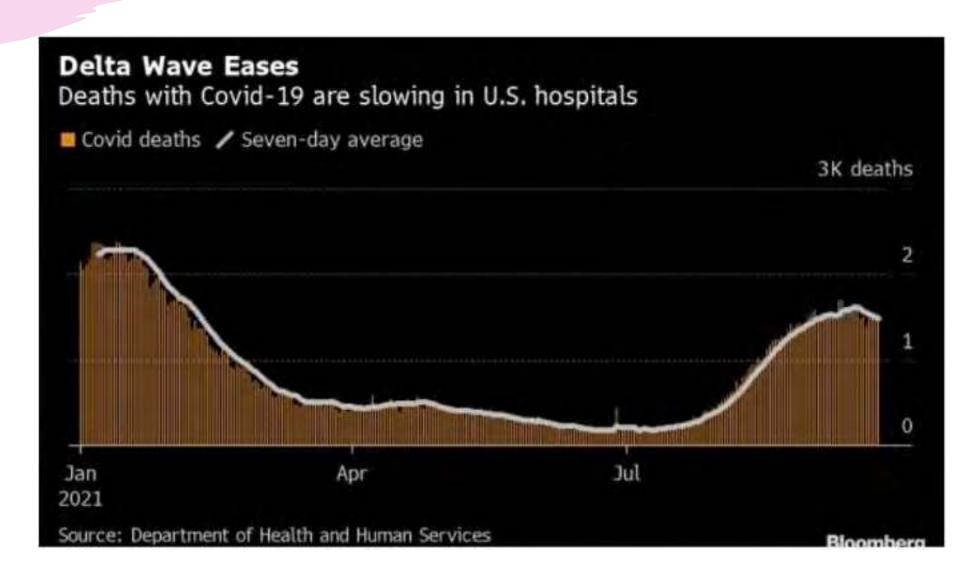
## PANDEMIC UNCERTAINTY



Delta variant has moved overall herd immunity out of reach for most countries

Very important that children are immunized

### Some Good News On Covid



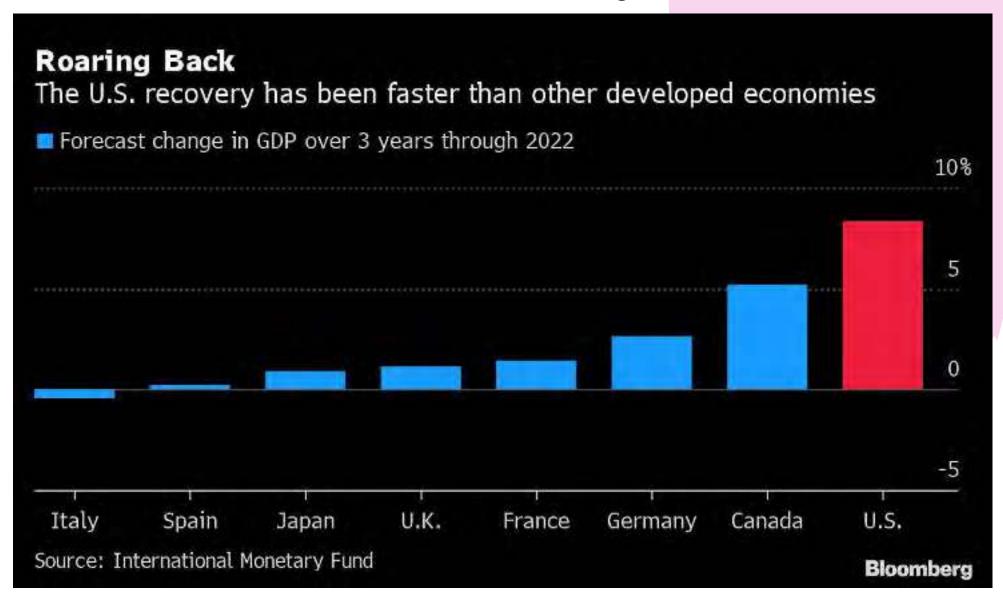


Supply constraints mean that policy stimulus is now partly fueling price gains rather than real spending and production.

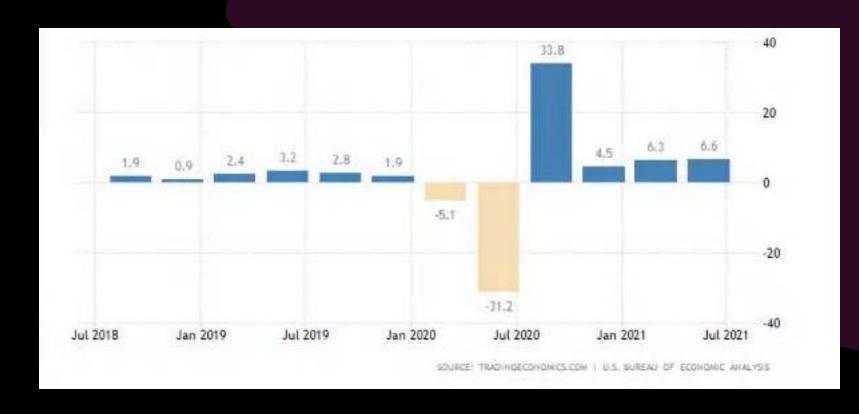




## US Leads the Recovery



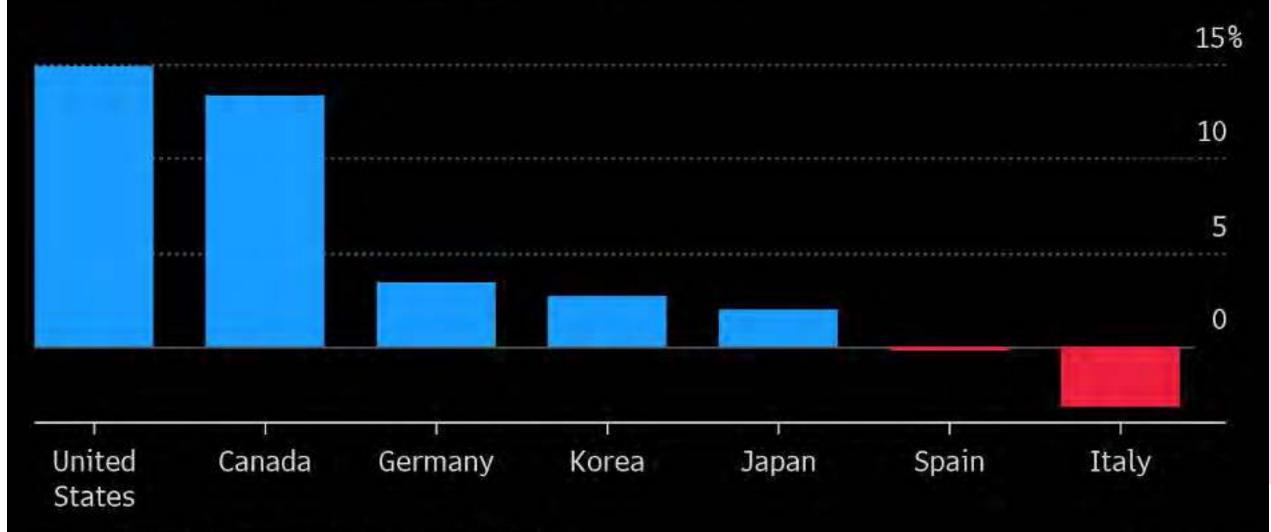
## US Growth 6.6% in Q2—Likely 5.0% Growth in Q3



GDP Growth	2021 %	2022 %
US	5.8	3.5
Canada	5.0	4.5

**Spending Power** 

Change in net disposable household income, 2020-21 vs 2018-19



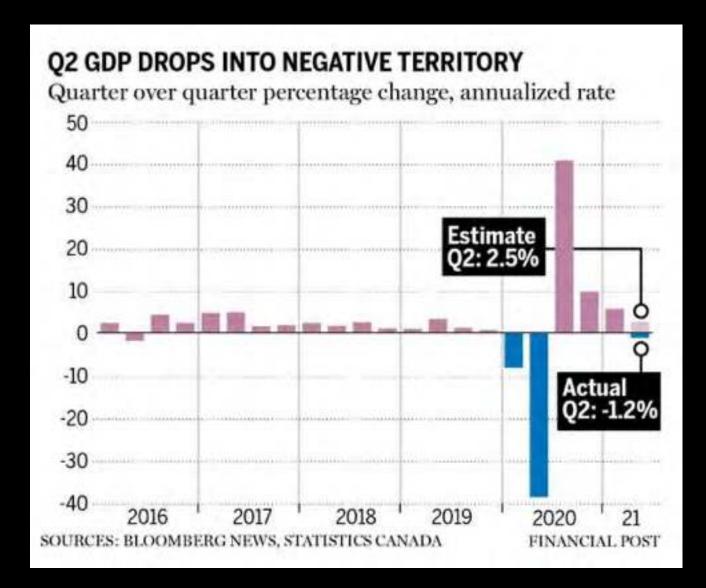
Source: OECD Economic Outlook, May 2021

**Bloomberg** 

Canadian Economy Dipped -1.1% in Q2 On Weaker Home Sales and **Exports** 



## Canadian Growth Likely Rebounds in Second Half

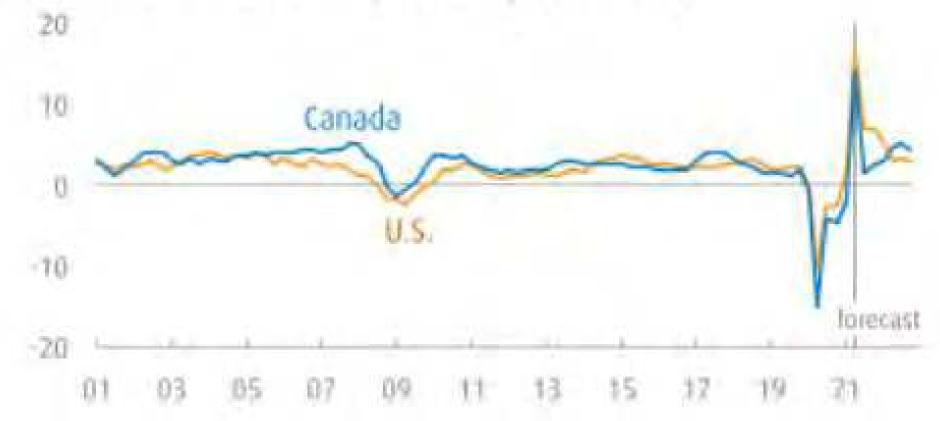


Global GDP Growth	2021 (%)	2022 (%)
US	5.8	3.5
Canada	5.0	4.5
UK	6.5	5.0
Euro Area	5.0	4.5
China	8.5	6.0
Global	5.9	5.0

## **Consumers Spending**

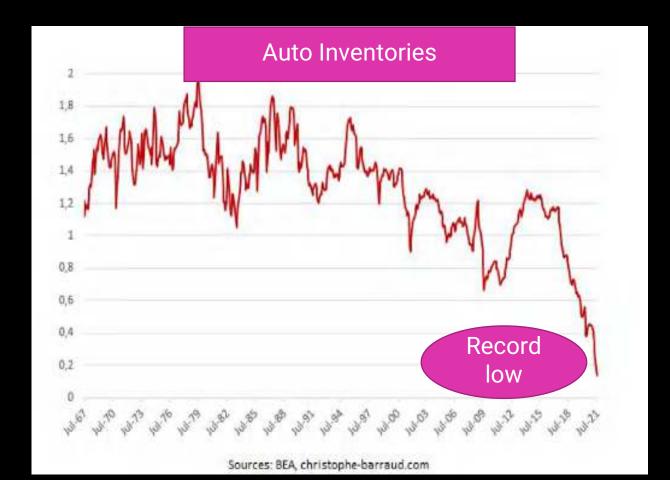


### **Real Personal Consumption Expenditures**



## Automobile Sector Hit Hard by Shortage of Chips

- New and Used Car Prices Rising
- Car Sales Are Down



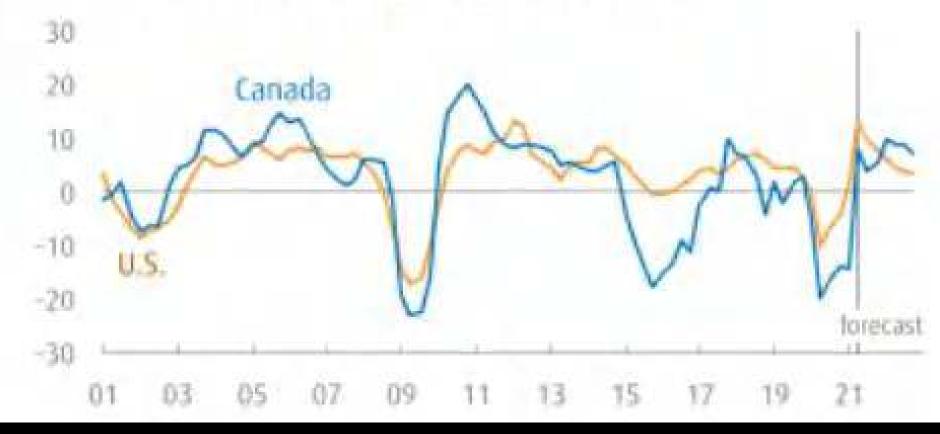




## **Business Investment On Upswing**

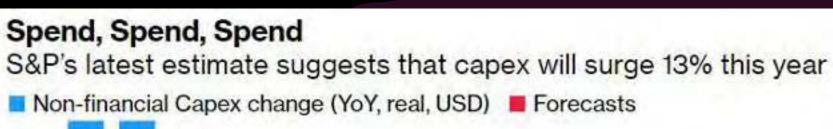
(y/y % chng)

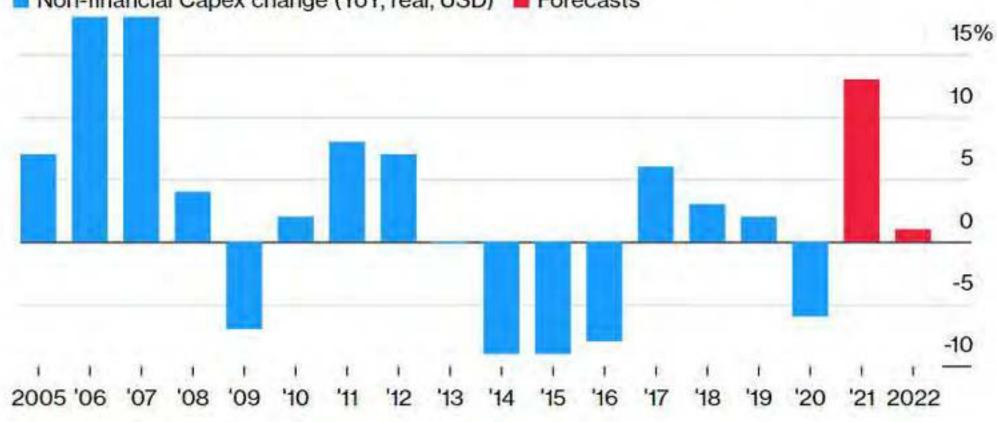
#### Real Non-Residential Business Investment



## Global Capex Will Surge 13% This Year and Next

Capex in sectors that benefited from lockdown and remote work have been supercharged by the pandemic





Source: S&P Global Market Intelligence, S&P Global Ratings

Note: Universe is Global Capex 2000

#### Supply Side

Disruptions force business to invest in new plant & equipment Calls for cleaner energy-electric vehicles, batteries
and alternative energy

Chip shortage triggered a wave of investment.

**Demand Side** 

Pent up consumer demand strong

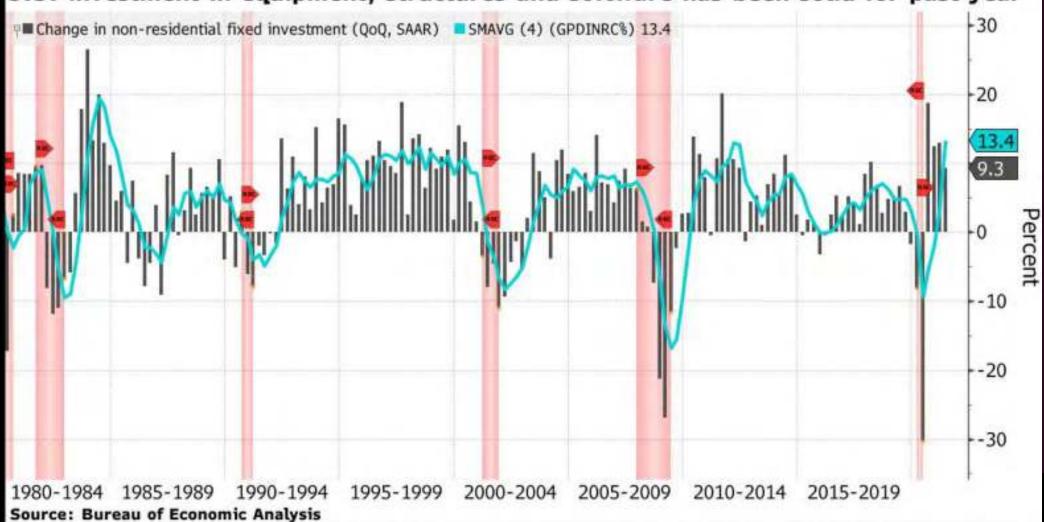
Interest rates remain low

Climate change forces companies to retool

Governments spends on clean technogies

Economic Upgrade

U.S. investment in equipment, structures and software has been solid for past year



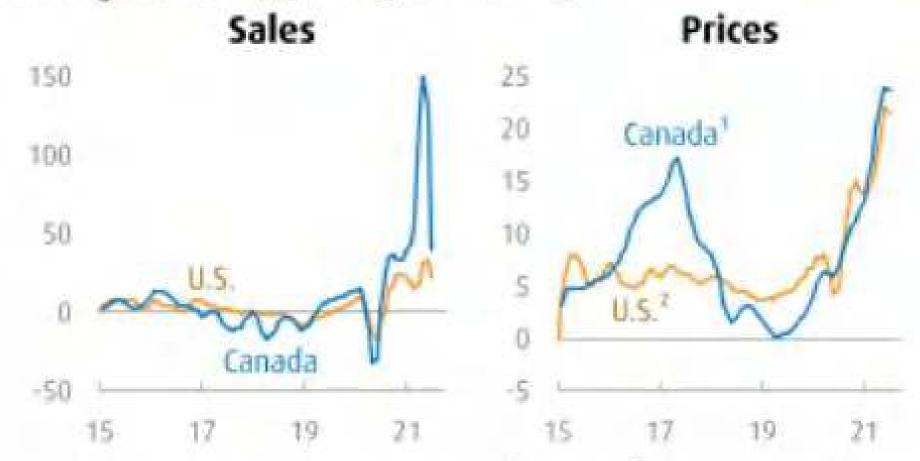
#### **Capex Boost**

	Global	APAC (excluding Japan)	Japan	Latin America	North America	Europe
Total	13.3%	8.9%	8.8%	27%	14.6%	16.6%
Consumer	11.6	-4.8	5.2	44.6	24.8	9.2
Energy	5.5	[-1.3	17.8	13.9	1-2.3	17.8
Health care	13.6	12.9	27.5	4	18.7	3.1
Industrials	13.6	9.3	16.2	41	12.4	17.9
IT	22.3	19.1	23.7	v	27.5	18.6
Materials	17.8	15.9	■14	36.7	12.3	23.6
Communications	12.9	8.3	11.3	8.8	16.9	10.4
Utilities	16.2	20.1	<b>]</b> -3	28.1	9.9	25.1

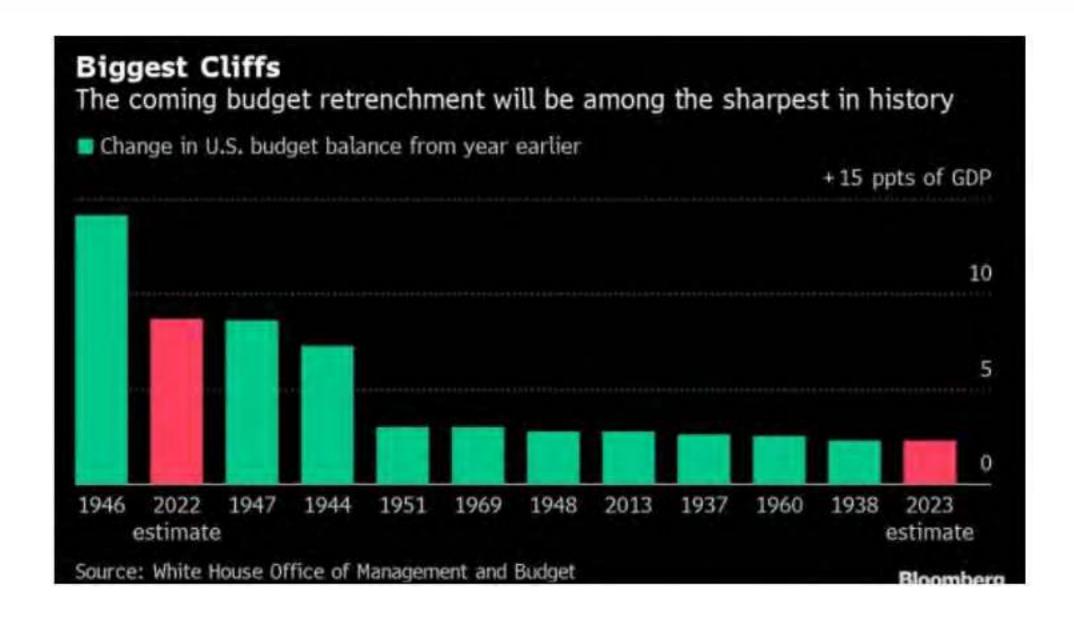
Source: S&P Global Market Intelligence, S&P Global Ratings Note: Universe is Global Capex 2000

## Little Slowing in House Prices

Existing Homes (y/y % chng : 3-mnth m.a.)

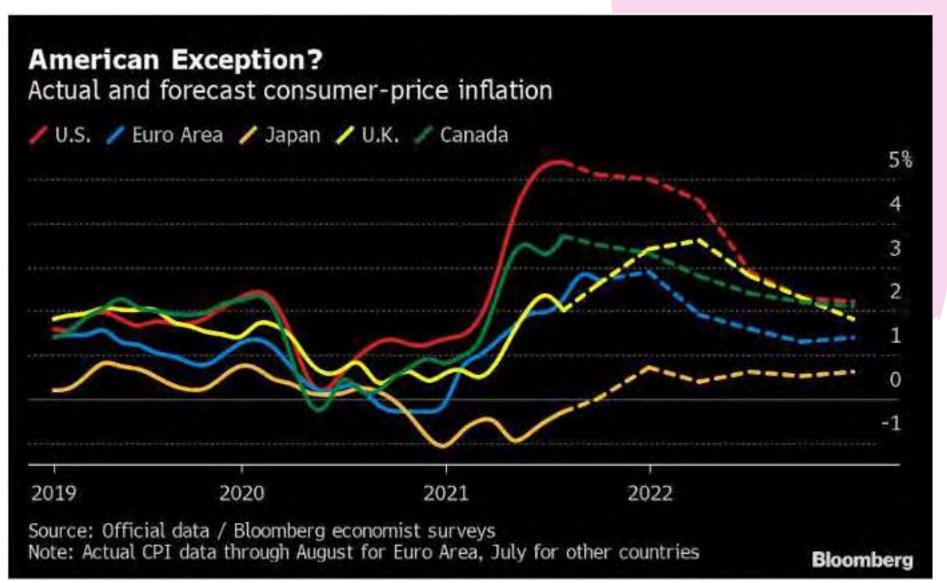


#### Fiscal Policy Retrenchment Will Be A Drag On Growth in 2022 And 2023

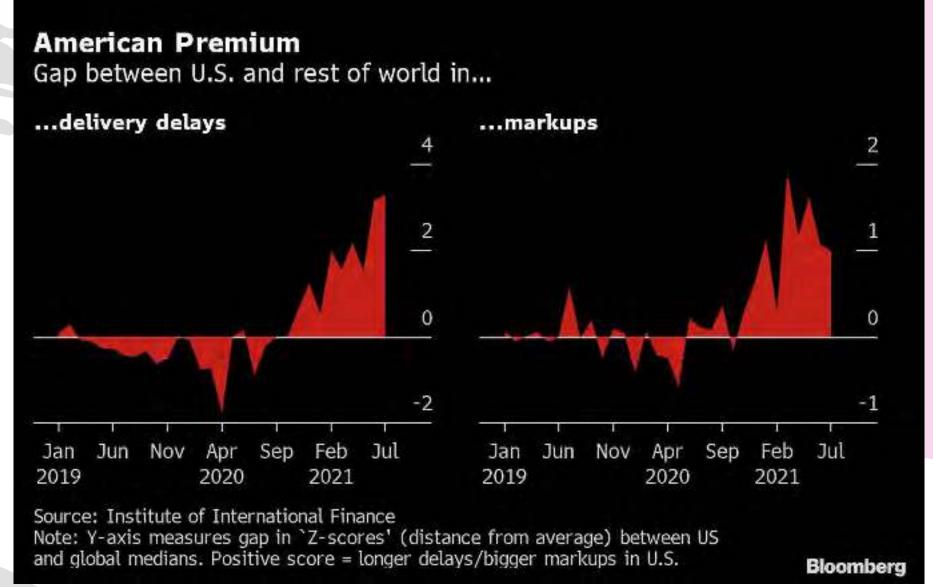




# COVID INFLATION IS EVERYWHERE—BUT US HAS THE HIGHEST INFLATION RATE IN THE G7

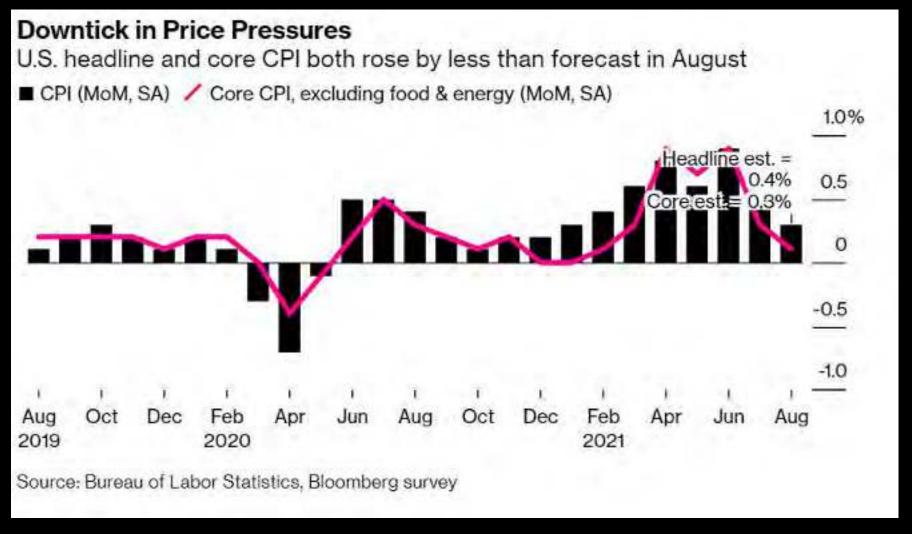


Longer Delays and Bigger Mark-Ups In The US As Consumer Demand Strengthened





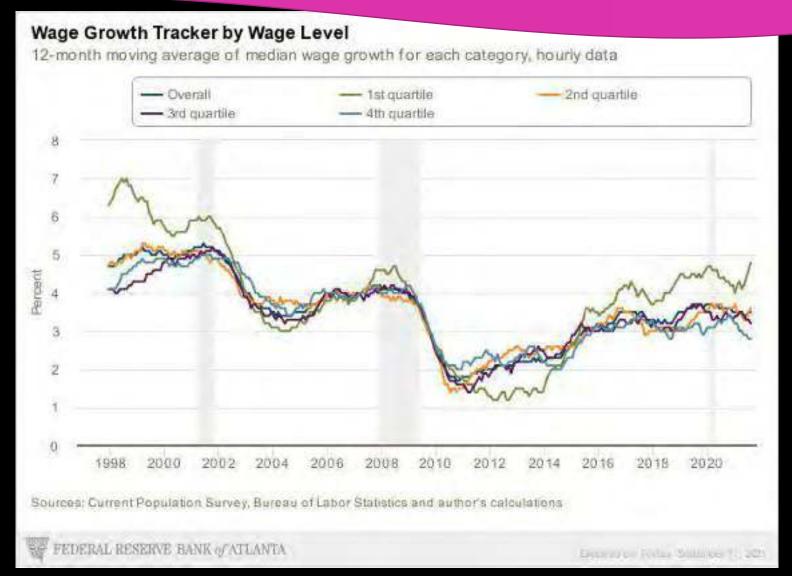
## US August CPI Growth Cooled, Smallest Gain in Seven Months



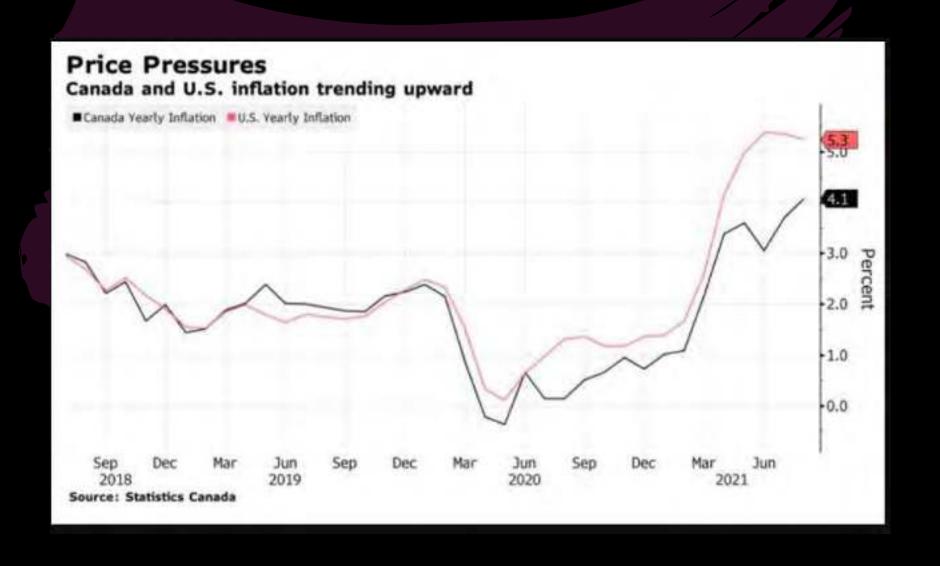
# Embedded Inflation Triggered By Rising Expectations Flowing Into Higher Wages



## Low-Wage Earners Hit Hardest Are Now Seeing Strongest Wage Gains



Canadian CPI Inflation Slowed A Bit in August, But Y/Y
Pace Rose to 4.1%

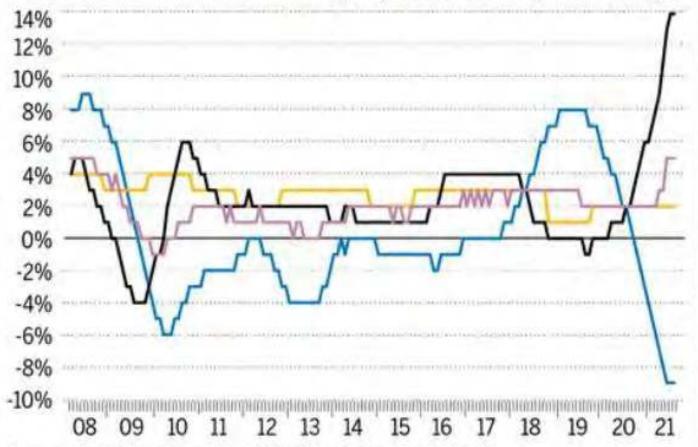




#### **COST OF LIVING**

Month over month per cent change in selected housing categories

- Homeowners' replacement cost Mortgage interest cost
- Owned accomodation Property taxes, other special charges

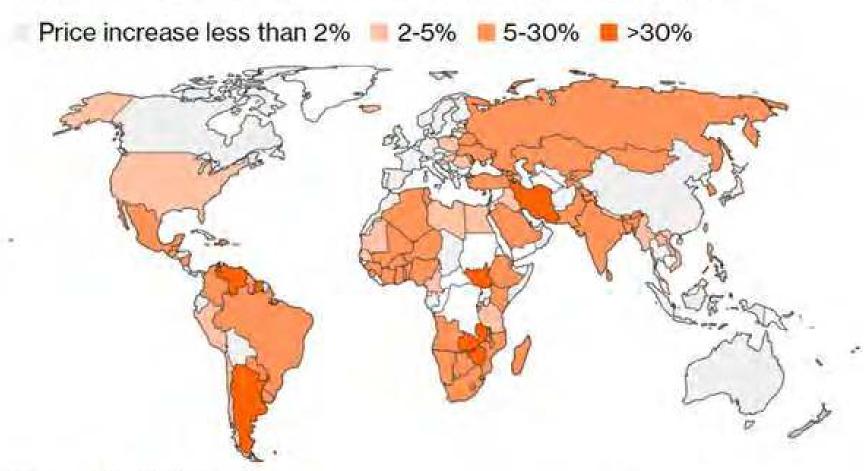


SOURCE: STATISTICS CANADA, FINANCIAL POST CALCULATIONS

GIGI SUHANIC / FINANCIAL POST

#### Inflation Hotspots

Surging food prices are especially affecting emerging markets

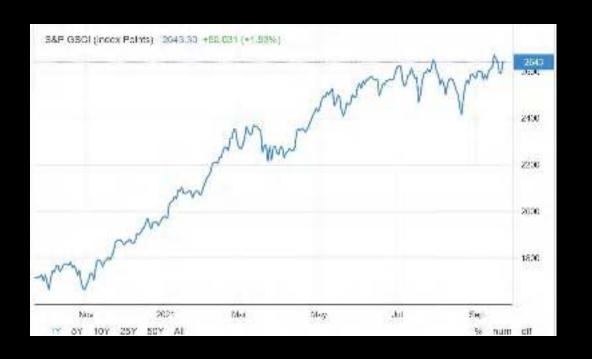


Source: World Bank

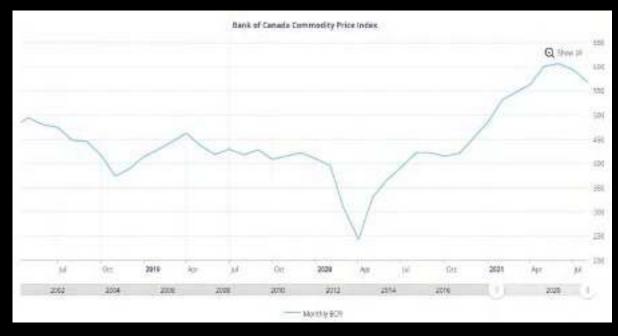
Note: Data is for the most recent month available in each distinct economy, as of July 29.

## Commodity Prices Add To Inflation Pressure

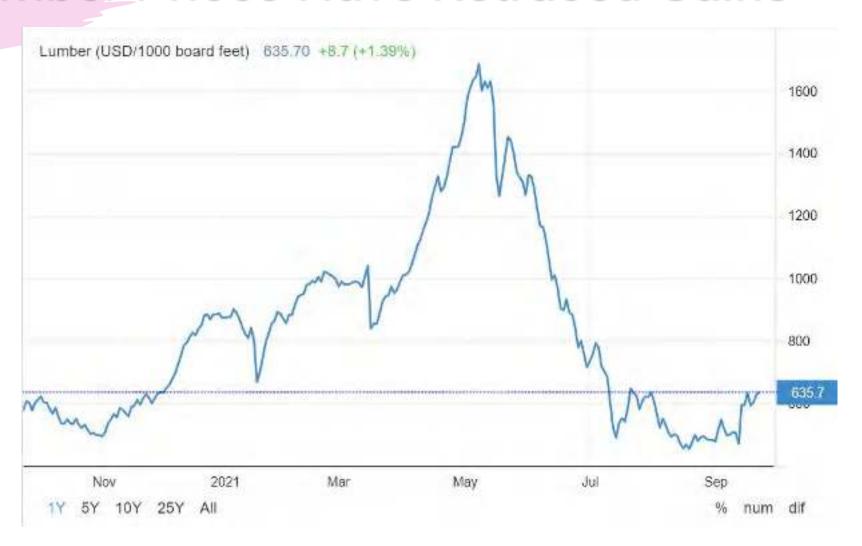
#### **S&P GSCI**



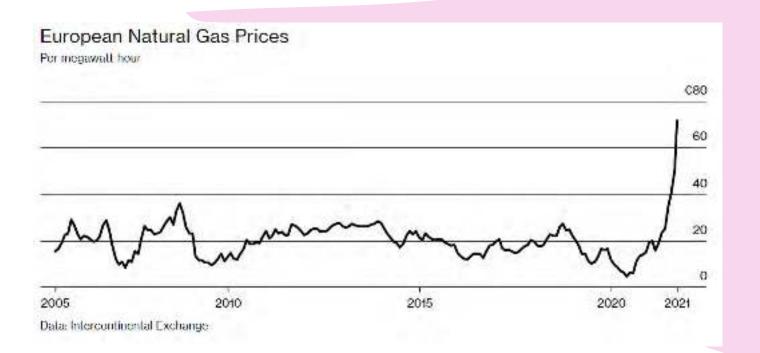
## **Bank of Canada Commodity Price Index**



### **Lumber Prices Have Retraced Gains**



## European Natural Gas Prices Surge More Than 500%



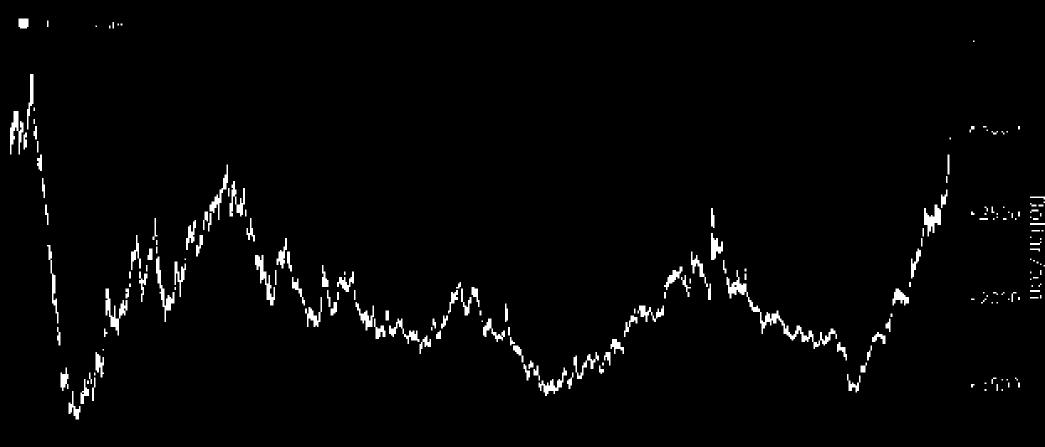
# **Europe's Energy Crisis Is Coming for the Rest of the World, Too**

- Reliance on natural gas to heat homes and power industry
- Inventories low
- Suppliers like Russia & Norway keep more gas at home
- Reduced output from wind and nuclear

Gasoline Stations Running Dry In UK, Motorists Panic, Government Has Issued 5,000 Short-Term Visas To Truck Drivers, Bringing In The Army

### Super Rally

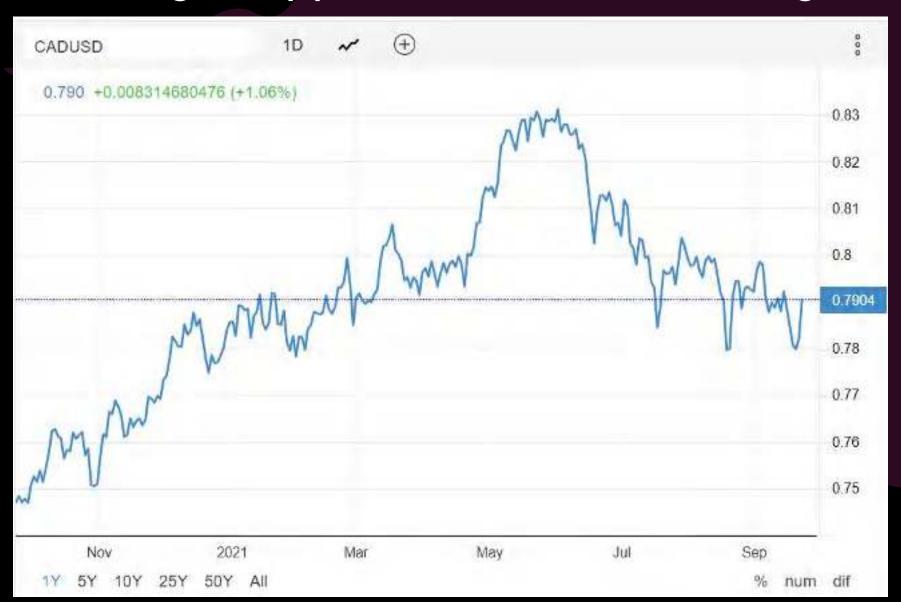
Aluminum heads towards \$3,000 as supply snarls fuel shortage



2005 2009 2010 2000 8012 2013 2014 2015 2016 2007 2028 2009 2020 202

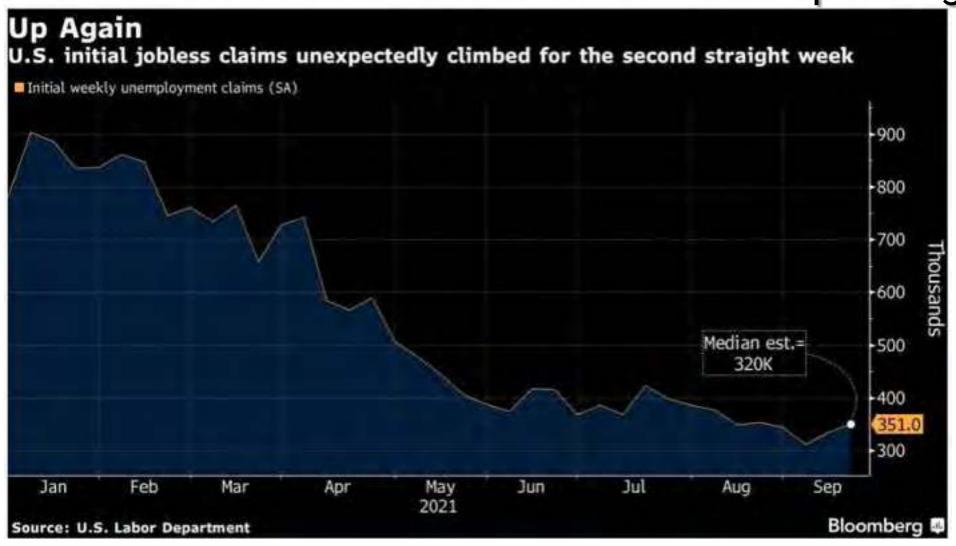
Source: London Metal Exchange

### Loonies' Wings Clipped As US Dollar Strengthens

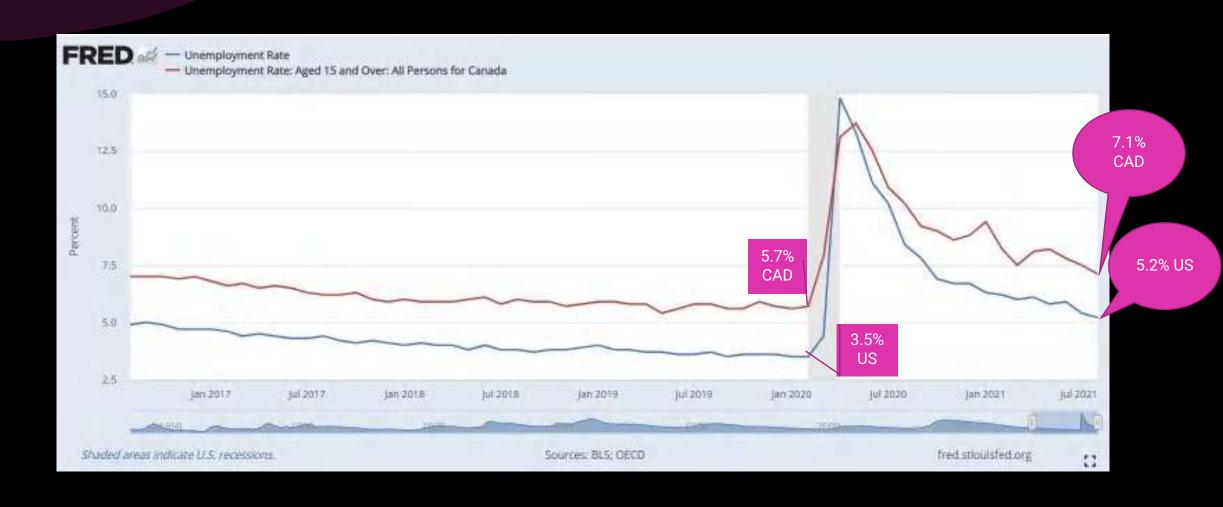




Initial Jobless Claims Trend Downward, But Q3 US Growth Will Slow Amid Pullback In Stimulus Spending



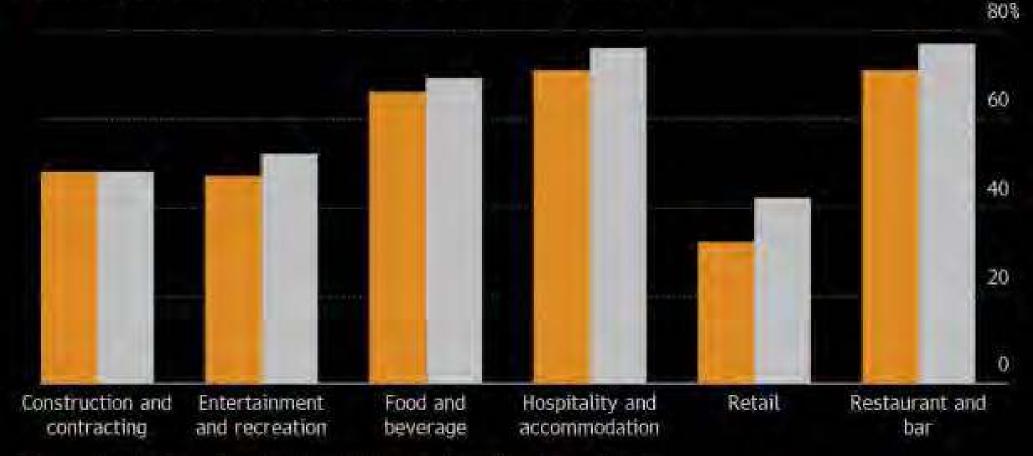
## **Unemployment Rates Coming Down**



#### **Turnover Worries**

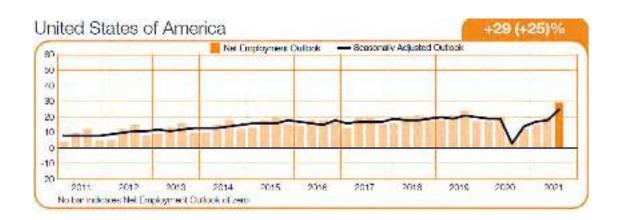
Looking ahead, businesses are very or somewhat concerned about retaining workers

Retaining top talent (%) Maintaining adequate staffing levels (%)

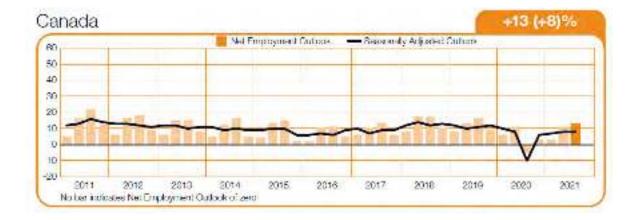


## "US Hiring Intensions in Q3 Are Strongest In The World," ManpowerGroup Employment Outlook Survey,

U.S. employers report their strongest hiring intentions in 21 years—net new hires up 25% in Q3



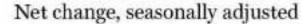
Canada's net new hires rank 24<sup>th</sup> in the world, up 8% in Q3, tied with Hungary, Switzerland and the UK

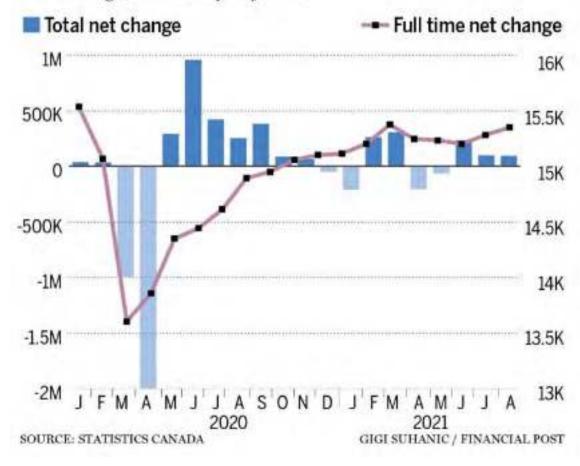


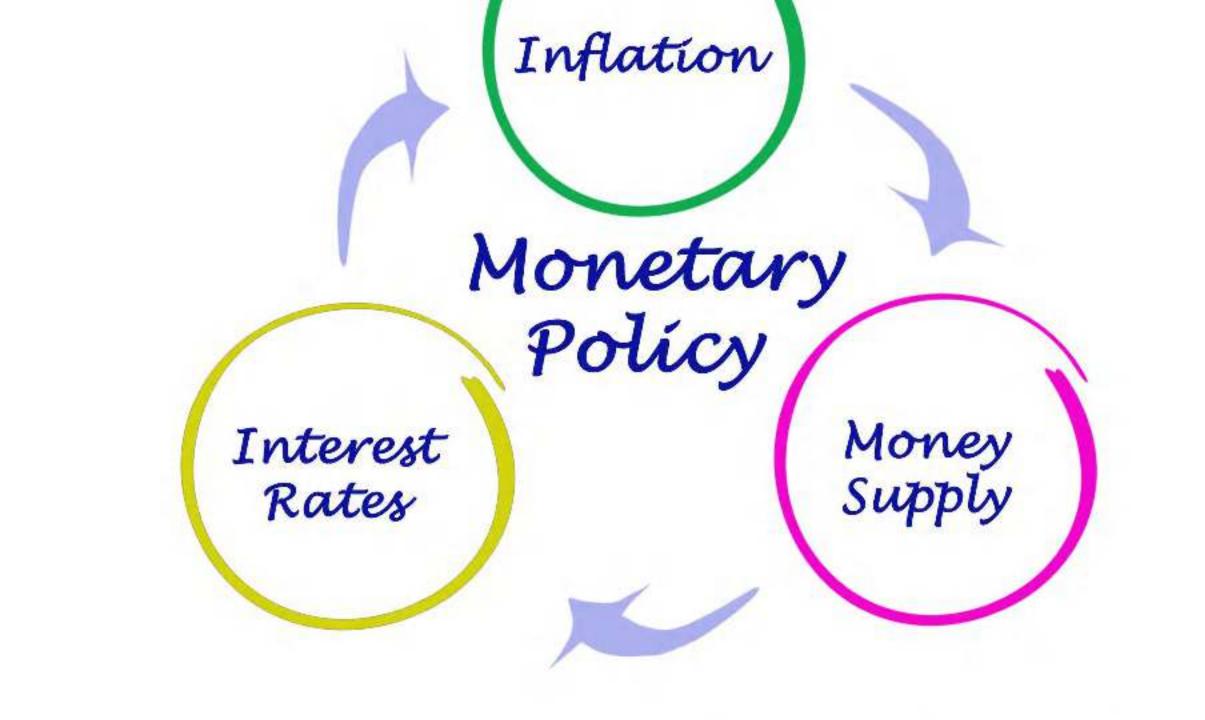




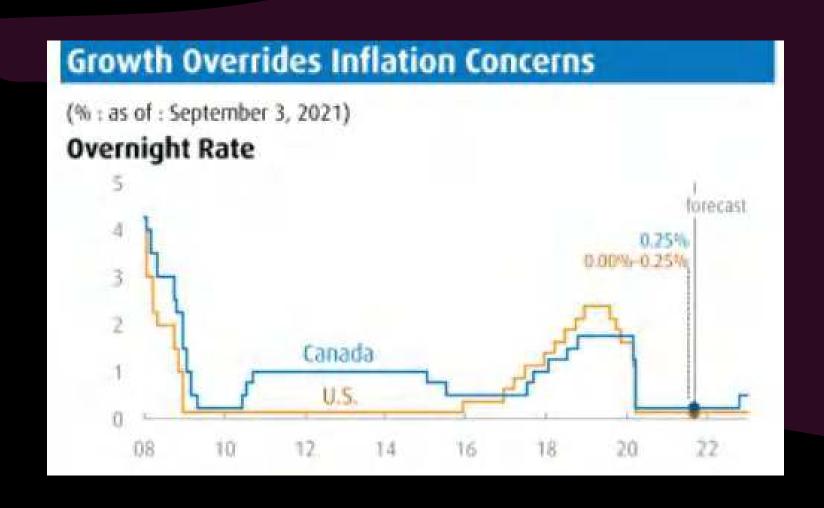
#### THIRD WAVE OF HIRING







## Overnight Rates in Both US and Canada At Their Effective Lower Bound





### Sept 22

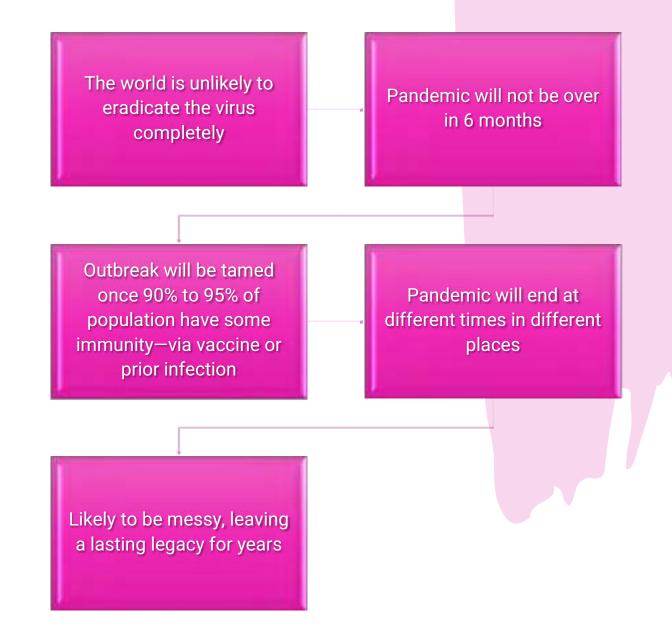
- Overnight Rates Steady
   Since March 2020
- Hints of Rate Hike in 2022 or 2023
- Tapering Bond-Buying
   As Soon As November



Sept 8

- Overnight Rates Steady
   Since March 2020
- Rate Hike in 2022-H2
- BoC Already Tapered
   Three Times, More to
   Come

## How Will Covid End?



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