# American Subcontractors Association SUBExcel 2022

March 11, 2022

# The Economic Outlook: Adapting to a New Economic & Business Landscape

Bernard Baumohl Chief Global Economist The Economic Outlook Group, LLC 475 Wall Street, Princeton, NJ 08540 (609) 529-1300



www.EconomicOutlookGroup.com

## **ASSUMPTION 1: Russia - Ukraine War: What is the end game?**

#### Scenario 1. Probability: 35%

Russia (under Putin) miscalculates mission difficulty; Russian economy crippled. Agrees to a cease fire but keeps troops in place. Demands Ukraine adopt a policy of international neutrality and accepts Crimea as part of Russia. War duration: 1Q 2022

#### Scenario 2. Probability: 30%

Russia (under Putin) achieves its mission and takes over Ukraine. Installs puppet regime. Massive damage, deaths and injuries. War duration: 2Q 2022

Scenario 4. <u>Probability: 20%</u> Putin doesn't stop with Ukraine. He tests Section 5 of the NATO treaty by seeking to take over the Baltic states (Estonia, Latvia, Lithuania). His calculation: The US would never risk nuclear war just to protect these NATO countries.

#### Scenario 3. Probability: 15%

Russia' s Putin is forced out of office. New leader emerges to end the war. Russian soldiers retreat. Ukraine maintains its independence. Memorandum of understanding on future relationship between Ukraine and Russia. War duration : 2Q 2022



# **ASSUMPTION 2: Path of the Covid-19 virus**

• <u>GOOD NEWS</u> - Impact of Covid-19 is less and less with each wave. - Most Americans are inoculated and crave return to normal life.

Vaccination projections of US <u>"consumer population"</u> (12 years & older)

- By end of Q1 2022, 75% expected to be *fully vaccinated*.
- By end of Q1 2022, 47% will have also received *boosters*.





• <u>BUT MUST REMAIN VIGILANT</u> – We're not in a "post-Covid" era yet!

- --- Too many countries have failed to adequately vaccinate their population.
- --- More variants highly likely in 2022 and 2023.
- --- Threat of new lethal Covid virus is still real.

#### % of population NOT VACCINATED! (as of February 13, 2022)

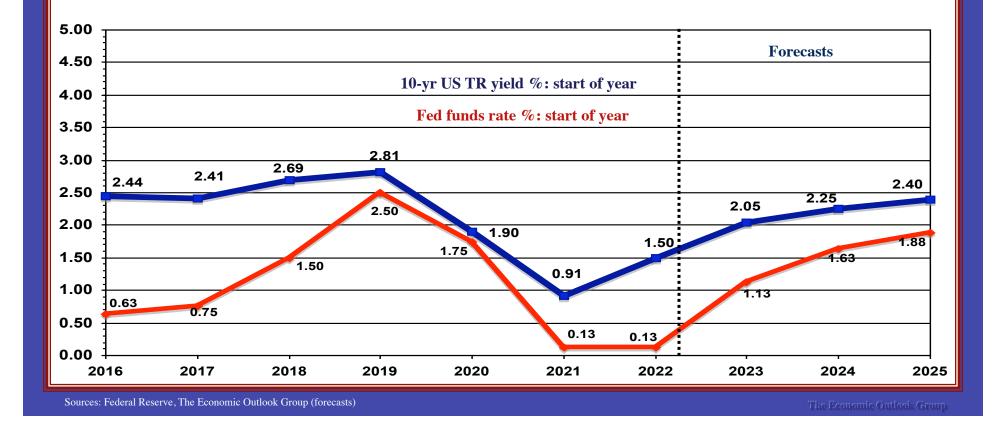
Haiti	99%
114101	2270
Madagasca	r 97%
Tanzania	<b>97</b> %
Nigeria	93%
Sudan	92%
Ethiopia	92%
Kenya	88%
Syria	88%
Algeria	84%
Ghana	78%
S. Africa	66%
Egypt	62%
Russia	47%

World	40%

Source: Ourworldindata.org (University of Oxford)

Sources: Ourworldindata.org (University of Oxford), CDC vaccinations as of February 19, 2022

**ASSUMPTION 3:** Federal Reserve to proceed very cautiously - lift rates 25 bps in March + three more in 2022. 10-yr. Treasury yield initially drops (rush to safe haven), then slope higher 2H of this year and 2023.



# No US recovery is possible without the consumer.

Despite a nervous 1st quarter, Americans are determined to go out and enjoy a normal life style this year.

#### **CONCERNS:**

--- Consumer sentiment in Jan. lowest in a decade.

Reasons: Surging inflation, rising interest rates, geopolitical conflicts.

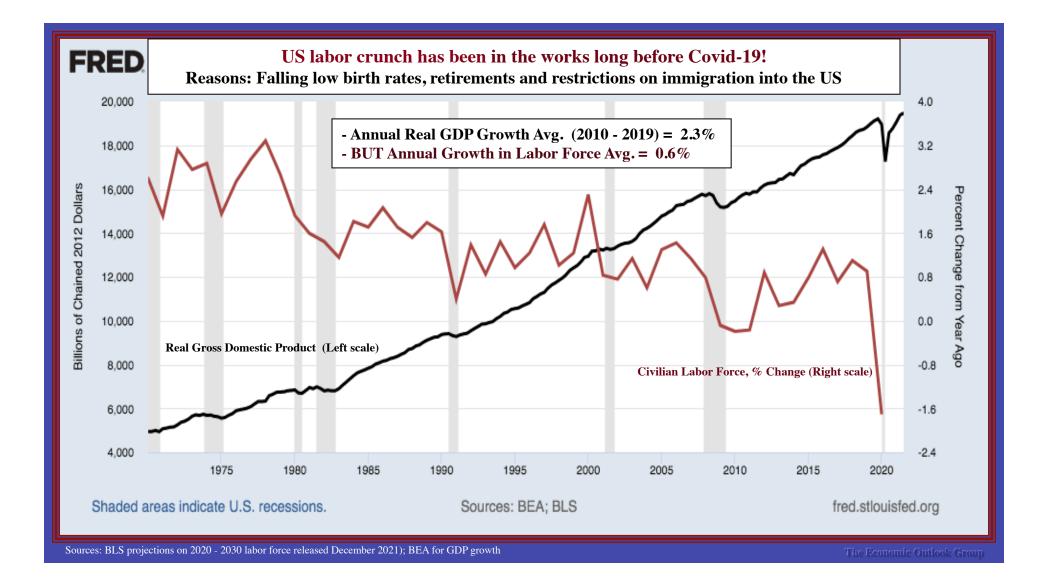
- --- Inflation (CPI Jan., YOY) leaped to 7.5% --- fastest in 40 years --- and still climbing!
- --- Wages not keeping pace with inflation. Average "real" weekly pay over the past 12 months fell 3.1%
- --- Result: Americans are digging into savings. Savings rate drops to 6.4% % in Jan. 2022 vs. 10.5% six months earlier!

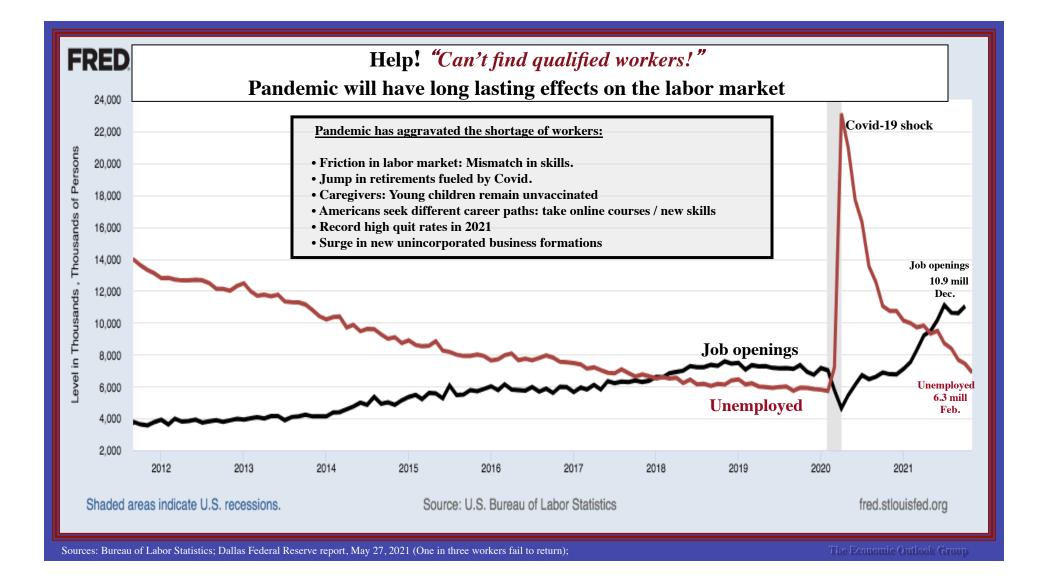
### **POSITIVE DEVELOPMENTS:**

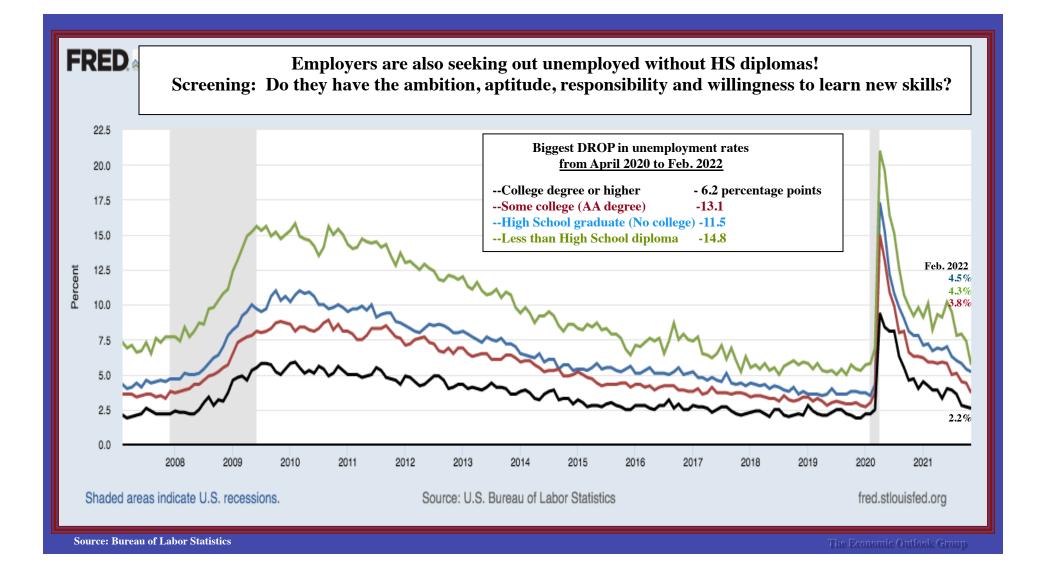
- With increased vaccinations, more Americans will travel, eat out, head to malls. Biggest risk? Avg. retail gas above \$4.75 gal.!
- Job market remains exceptionally strong! Positions to fill (10.9 million) far exceeds those <u>unemployed</u> (6.3 million). One caution: February payrolls surged by 678,000. BUT survey took place **BEFORE** Russia's Feb. 24th invasion of Ukraine.
- Inflation to peak by summer 2022.

**Reasons:** (1) Economic growth will moderate this year.

(2) Companies may find it more difficult to pass on higher costs. (Demand eases and fear of losing market share.)







# The process of creative destruction: Shortages of labor have led more firms to rely on innovative technology

### DIFFICULTY FINDING RESTAURANT WORKERS?

Place iPad-like devices at every table. Meals can be orders from one's seat. Menus can also be altered as needed.

# HOME CONSTRUCTION USING 3-D PRINTING TECHNOLOGY.

Takes about 7- 10 days to construct at a cost 30% to 50% cheaper than standard construction methods.

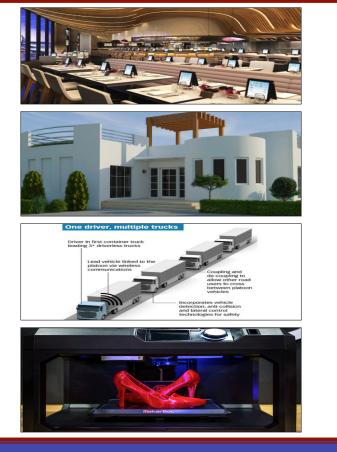
#### HOW CAN TRUCKING FIRMS SAVE ON FUEL, LABOR COSTS AND REDUCE EMISSIONS?

Wireless communications allows for "platooning," with one driver controlling multiple trucks or trailers

#### FEWER RETAIL WORKERS NEEDED.

Want some fancy shoes fast? Purchase the proprietary codes and your 3-D printer at home will manufacture a customized pair.

Sources (top-to-bottom): OTG; SQ4D; PSA Ministry of Transport; MakerBot,



# Top 20 states in nonresidential construction starts 2021 vs. 2020 (in dollars)

		Jan-Dec 2021	% Change vs Jan-Dec 2020
1	Texas	\$46,906,464,503	-9.9%
2	California	\$39,564,032,616	-1.1%
3	Florida	\$24,015,809,974	-0.5%
4	New York	\$21,474,699,600	9.4%
5	Arizona	\$16,184,859,031	98.4%
6	North Carolina	\$14,368,870,348	33.8%
7	Ohio	\$14,146,647,353	-5.0%
8	Pennsylvania	\$13,233,782,933	14.4%
9	Illinois	\$12,621,626,810	-18.0%
10	Massachusetts	\$11,939,559,111	23.3%
11	Georgia	\$10,922,906,086	-14.2%
12	Virginia	\$9.614.946.223	-10.1%
13	Minnesota	\$9,592,629,924	8.2%
14	Tennessee	\$9,169,030,095	10.7%
15	Louisiana	\$8,803,042,880	86.9%
16	Michigan	\$8,586,169,130	12.3%
17	Missouri	\$8,261,490,776	-13.1%
18	Indiana	\$8,129,056,778	-2.5%
19	Washington	\$7,626,931,359	-41.4%
20	Colorado	\$7,137,589,856	1.6%
Fig	ures are comprised of non-res t	ouilding & engineering (residential is	omitted).

# Who gained & lost construction jobs over last 22 months?

- 26 states still had construction employment below Feb. 2020.
- 23 states saw construction jobs exceed Feb. 2020 level.
- 1 state (Montana) matched Feb. 2020 level.

#### States that LOST most construction jobs

#### **Biggest .Iob losses:**

٠	NY	- 42,000	(-10.0%)
٠	ТХ	- 30,200	(-3.9%)

• CA -22,300 (-2.4%)

#### **Biggest percentage loss**

#### • LĂ -13% (-17,200) • WY -11% (-2,500)

WY -11% (-2,500)

### • NY -10% (-42,000)

#### States that ADDED most construction jobs

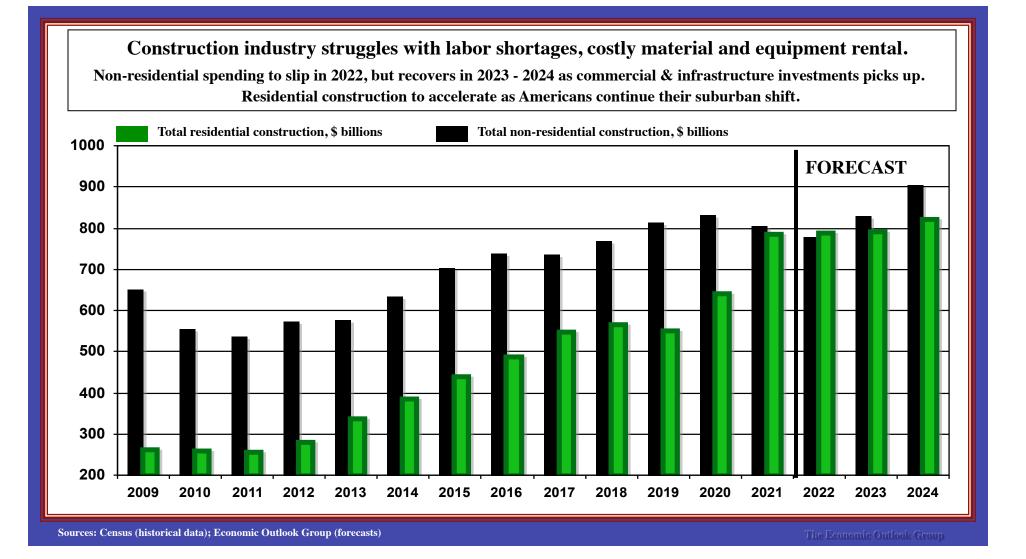
#### Biggest Job gains:

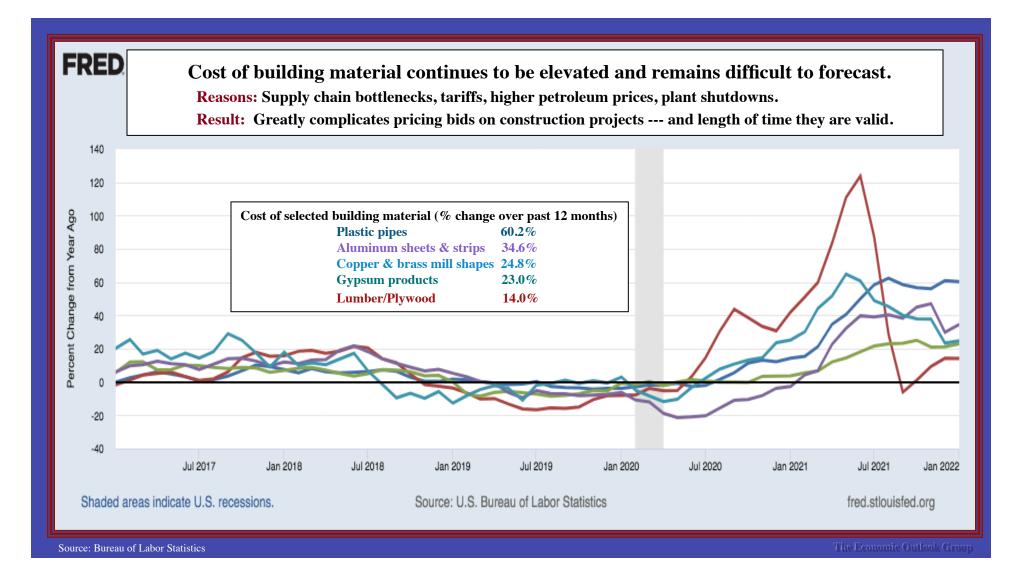
- UT +10,000 (+8.8%)
- WA +8,200 (+3.7%)
- NC +7,900 (+3.4%)

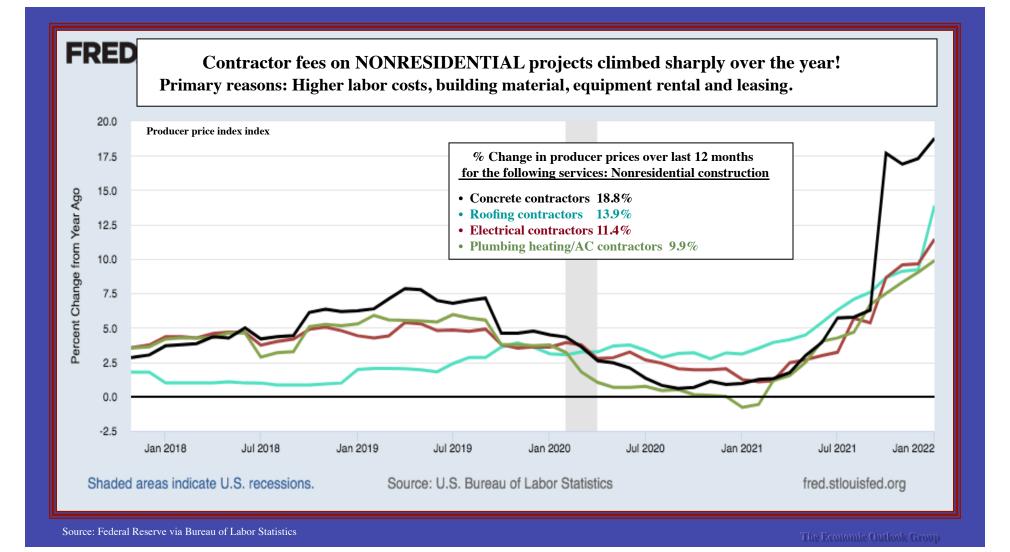
#### **Biggest percentage increase**

- SD +10% (2,500)
- UT +8.8% (10,000)
- ID +8.2% (4,500)

Sources: Census (historical data); Table - ConstructConnect;









## **CRE** sectors of weakness in 2022:

- Lodging Retail
- Office buildings

#### Sectors of strength:

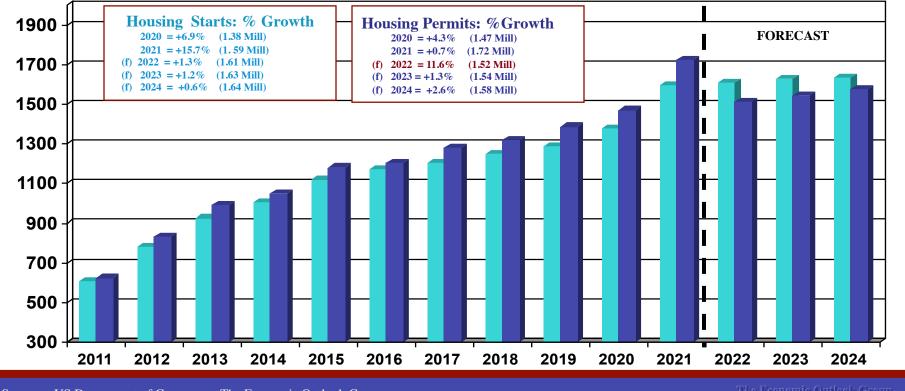
- Manufacturing
- Data centers
- Warehouses
- Health care centers



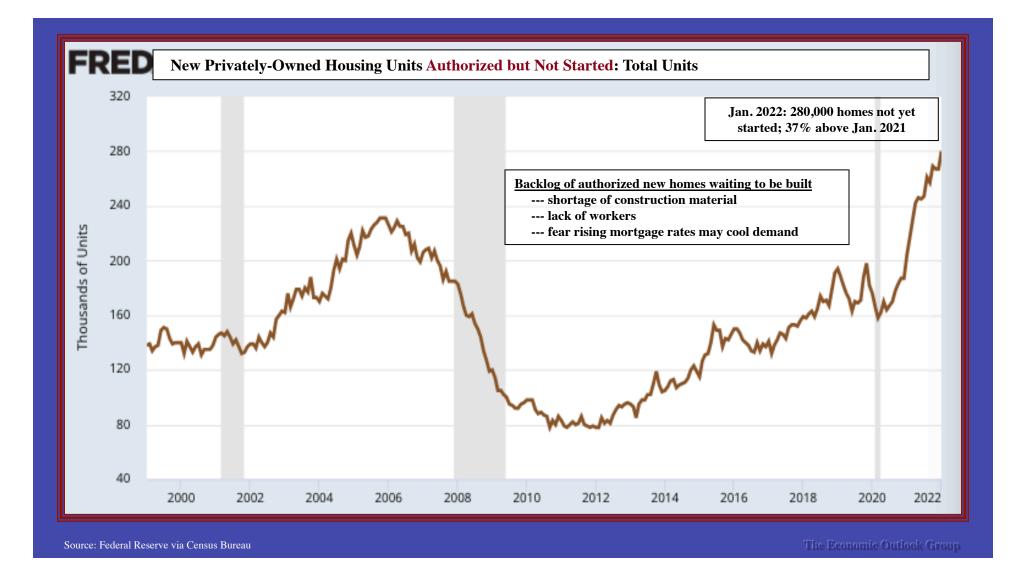
Forecast - Capital Outlays: (% annual change)	<u>2021</u>	<u>_2022</u>	<u>2023</u>	<u>2024</u>
Nonresidential construction spending	-3.1%	-3.0%	+6.7%	+9.2%
Office	-6.2%	-5.9%	+2.8%	+5.5%
Commercial (retail and warehouses)	+4.1%	+10.6%	+4.5%	+4.0%
Lodging	-32.0%	-6.5%	+1.2%	+3.2%
Manufacturing	+8.5%	+3.8%	+5.6%	+3.9%
Sewer & Water Supply	-3.1%	+7.5%	+8.3%	+6.9%

Housing starts in 2021 was strongest in 15 years. Growth to continue 2022- 2024 but at a slower pace. Builders grapple with scarcity of affordable land, higher building costs and shortage of labor.

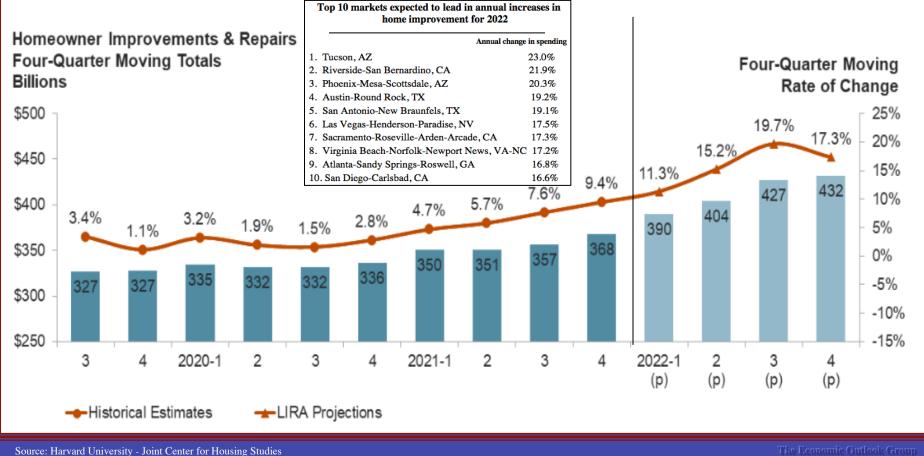
Total housing starts and permits: Annual total, in thousands



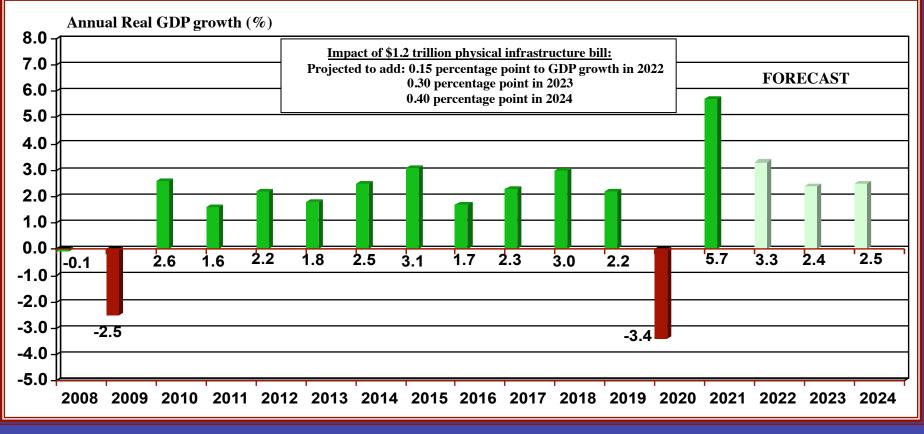
Sources: US Department of Commerce, The Economic Outlook Group





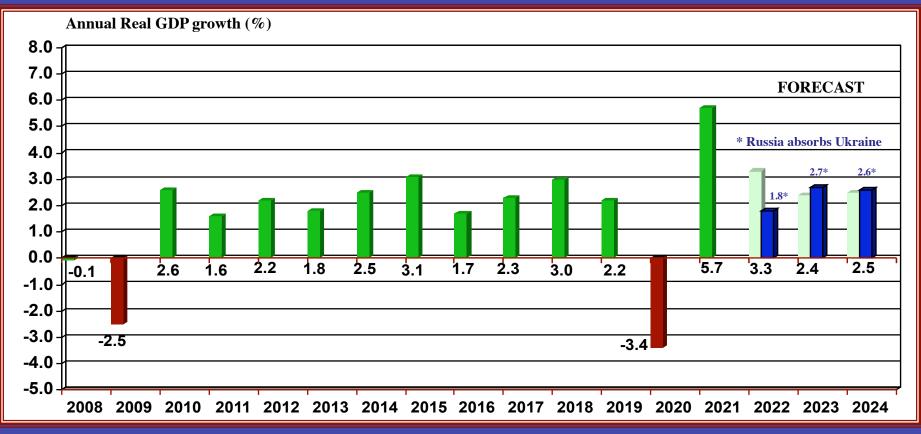


# Forecast: Real GDP growth: 2022 - 2024

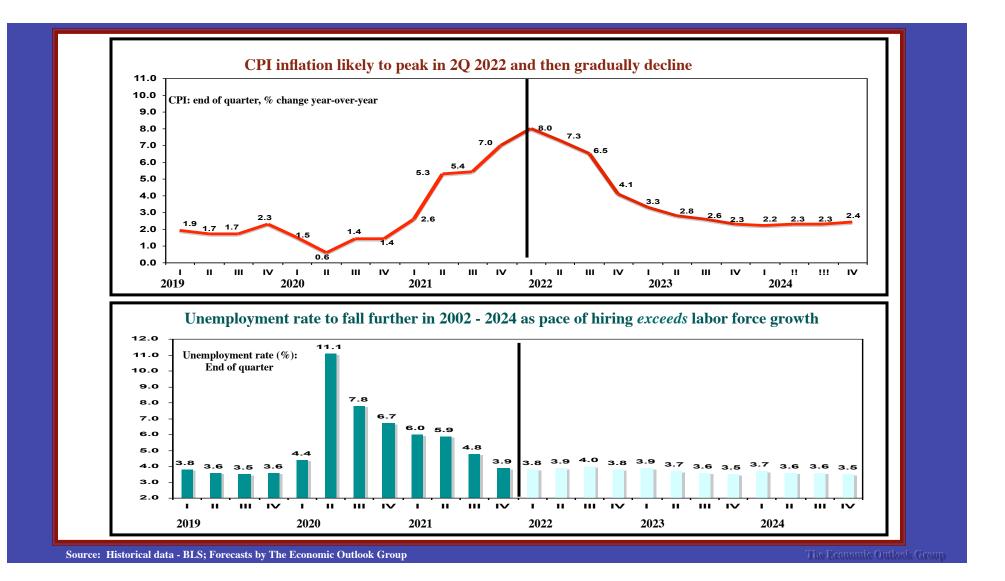


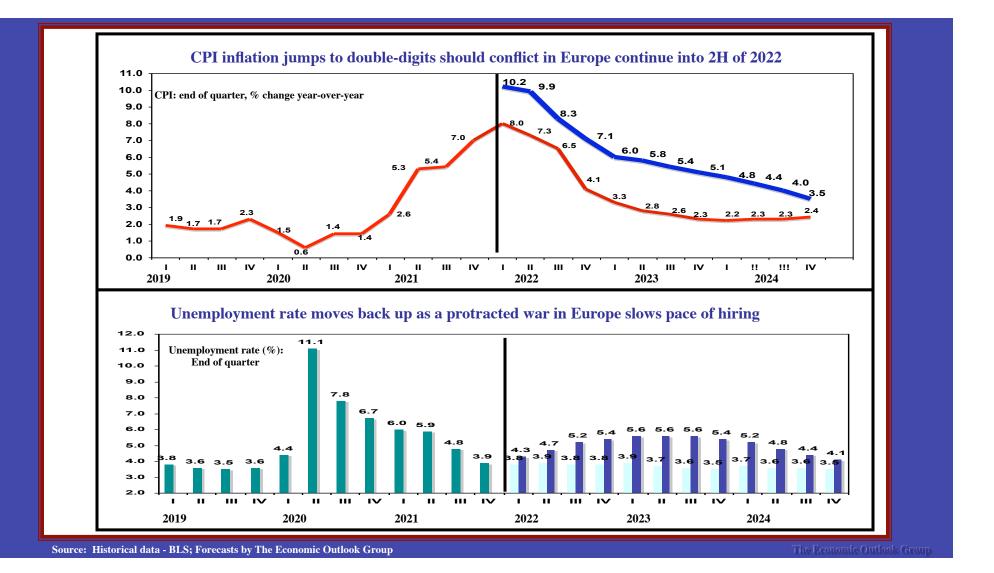
Sources: Bureau of Economic Analysis (historical); The Economic Outlook Group (GDP forecasts), Federal Reserve

# Scenario: Russian - Ukrainian War lasts into 2H 2022 Such a conflict would lead to stagflation. Odds of US recession in 2022: 45%



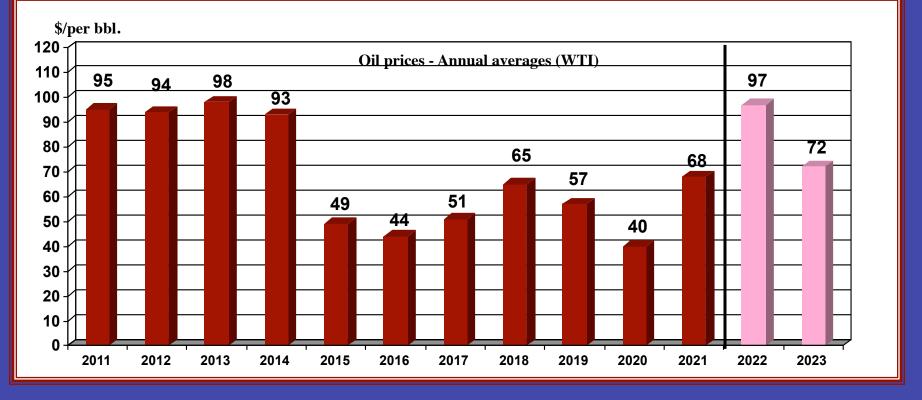
Sources: Bureau of Economic Analysis (historical); The Economic Outlook Group (GDP forecasts), Federal Reserve





# Oil prices in 1H 2022 will hold \$100+ bbl., and begin to slide 2H and 2023

2022: Geopolitical clashes, OPEC's failure to meet 400,000 bbl quota, nations rush to build up inventories for next winter. 2023: International tensions subside, lowers risk premium, more supplies from Iran, shale producers increase output.



Sources: US Energy Information Administration, The Economic Outlook Group

# Pandemic & geopolitics leads to a realignment in globalization

Fragilities in the global supply chain system now fully exposed.

- --- Business leaders are tiring of endless trade conflicts, geopolitical clashes and costly ocean cargo shipping.
- --- Shifting production & supply chains from China to other Asian countries may also be problematic; Many lack the skills and needed infrastructure (roads, rails and ports).
- --- "Just-in-time inventory management" that relies on Asia is now a flawed strategy.

## Top-to-bottom review of supply chains underway.

- --- Companies demand greater simplicity, dependability, better control of their supply chain networks
- --- Technology & gov't incentives are changing the economic calculus of onshoring and near-shoring
  - More investments in AI, robotics, 3D printing, cloud computing, IoT, Vr/Ar, drones
  - White House & Congress underwrite efforts to domicile essential industries for economic & national security reasons
    - ----- full range of semiconductor chips, battery technology, rare earth minerals, medical supplies
  - COMPETES Act (House bill) -- versus -- US Innovation & Competition Act (Senate bill)
    - \$52 billion in subsidies helps, but is not nearly enough
    - ---- Better balance needed between legacy and high-end chips
    - FABS operating costs must come down to be price competitive (taxes, regulatory compliance, labor costs)



**Changes in work environment:** 

- --> Permanence to remote work: Many US firms found it seamless and successful;
  - Reason: Technology! Also reduces health risks, reduces office space & rent.
  - Imagine if Covid-19 struck in 1980. No WiFi, laptops or cell phones at the time.
- --> Expect about 30% of employees to work remotely in a permanent basis.<sup>1</sup>
- --> Apartment buildings set aside a floor with shared work spaces, private offices and conference rooms.
  - Creates mental separation and avoids home distractions (and serves as a source of new revenue to the building)

Shifts in human behavior: We are headed toward a digital currency.

- --> Consumers dislike transacting with cash paper and coins.
- --> We are headed toward a digital currency and electronic payment systems. The Federal Reserve is testing a "Fedcoin."
  - It will fundamentally change the financial plumbing of the global economy.
- --> The pandemic has greatly accelerated eCommerce's penetration in total retail sales.

The Energy Revolution: Transition away from fossil fuels will take decades!

- --> While a record amount of capital flowing into renewables, dependence on fossil fuel will last for years and complicate efforts to reduce greenhouse gasses (GHG).
  - CO<sub>2</sub> level now the highest in 4 million years! <sup>2</sup>
  - Rising sea levels: Greenland's massive body of ice now losing 1 million tons of ice per minute! 3
- --> Experts foresee an increase in severe floods, droughts, wild fires, hurricanes and medical ailments.

1. Enterprise Technology Research Survey (October 22, 2020); 2. NOAA study (June 7, 2021); 3. Journal of Communications Earth & Environment (August 20, 2020)



The Next Exogenous Shock? Multiple hi-probability threats loom



- Cyber warfare: The threat has shifted from IP theft & ransomware ---> to intentional sabotage!
- Proliferation of a new virulent Covid-19 mutation; Will current vaccine's effectiveness hold up?
- US Russian conflict deepens: Putin eyes takeover of NATO members in the Baltic states.
- US China clash militarily in South China Sea and across Taiwan Strait.
- Iran is "within months" of producing enough fissile material for nuclear weapon. Israel won't sit by.
- To regain attention, N. Korea tests ICBM over Pacific Ocean; Boasts it can now reach US mainland. US response?



"High-probability" defined as having at least 1 in 3 chance of occurring based on our threat assessment model

# The New Reality: Adjusting to the changing economic & geopolitical landscape

A. Capital expenditures: Goal is to be price competitive and a reliable provider of goods and services

- 1. Boost investments to increase capacity, efficiency and productivity.
- 2. Just-in time-inventory strategy is now longer workable. Diversify supply chain sources.
- 3. Consider vertical integration. Acquire (or partly own) your suppliers to secure timely inventory.

**B.** Companies must undertake rigorous "stress tests" to identify their vulnerabilities. Conduct adverse <u>"what if</u>" scenarios (e.g systemic power failure, supply chain disruptions, loss of access to credit lines, cyberattacks, another lethal pandemic).

C. Prepare contingency plans for the next exogenous shock --- and be ready to implement them! Goal is to remain operational. Invest on being agile, flexible and adaptive. Clients value reliability and quality. Shareholders reward firms that demonstrate resilience!



# The Economic Outlook Group LLC

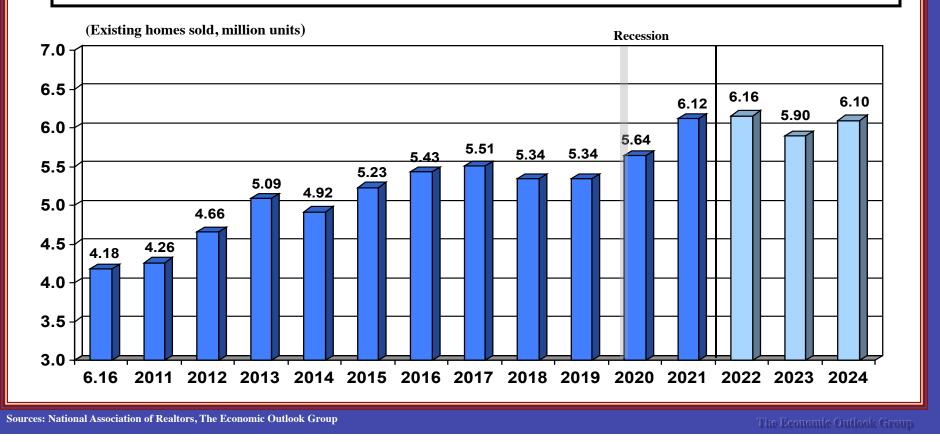
## **QUESTIONS OR COMMENTS?**

bbaum@EconomicOutlookGroup.com

Bernard Baumohl Chief Global Economist The Economic Outlook Group, LLC 475 Wall Street, Princeton, NJ 08540 (609) 529-1300 www.EconomicOutlookGroup.com

# US existing home sales in 2021 was best in 15 years! 2022 should top it.

Fear of rising mortgage rates and strong job market will accelerate home buying this year. Sales to slow 2023. High borrowing costs, scarce inventory & steeper home prices --> reduces affordability.



# Mall owners are revamping their business models





### Being resilient in the retail real estate sector

### 1. Buy out tenants:

Simon Property Group, Brookfield Asset Management, Authentic Brands now own some bankrupt tenants.

**2. Who else is moving into malls?** Service-oriented businesses. Amazon distribution centers, walk-in med clinics, fitness centers, food/restaurants, entertainment venues, even residential units.

# Decrepit infrastructure holds back economic growth

\$1.2 trillion infrastructure law is a decent start. But competition will be fierce over labor, building material and equipment

**EXAMPLES:** 

- Philadelphia still relies on underground pipes installed *before* the Civil War.
- 84,000 bridges considered functionally obsolete.
- 58,000 bridges deemed "structurally deficient," yet still carry 180 million cars a day!



• There are more than 685 water main breaks a day on average in the US; 250,000 a year.

• Leakages and spills waste an average of 5.8 billion gallons of water each day!

Sources: American Society of Civil Engineers, American Water Works Association, Center for Neighborhood Technology

## **Russia - Ukraine: Economic implications of full-scale invasion**

Crisis 2.0

#### **Inflation:**

- Oil (both Brent and WTI) to hover between \$110 to \$140 bbl
- US retail gasoline prices (national avg.): \$4.25 to \$6.25 gallon
- Europe nat. gas prices could climb to \$60 per million BTU (equiv. to \$300 bbl of oil) --- Europe relies on Russia for 35% of it natural gas needs, EU's largest single source.
- Global food inflation leaps higher: All shipments below are thru Black Sea. ---- Ukraine -- world's 3rd largest exporter of corn
  - and 4th largest exporter of wheat.
  - --- Russia world's largest exporter of wheat.

**Cyber Attacks:** Sporadic worldwide disruptions of supply chains, power generations, internet access, financial transactions, water distribution, gas pipelines.

Financial markets: Global capital rush into safe haven assets: US treasury yields fall; US dollar, Swiss franc and Japanese yen to appreciate sharply. Gold climbs; Cyber currencies to fall.

Recession	risks	in	2022:	
-----------	-------	----	-------	--

- US: 45%
- Europe: 70%
- Japan: 60%

**Outstanding bank loans made to Russia:** France \$24.2 billion \$9.6 billion Japan Austria \$17.4 billion Germany \$8.8 billion US \$16.0 billion

Sources: Projections made by the Economic Outlook Group; BIS for bank loans

War in Ukraine ESS FINANCIAL NATIO IENT WATER THE EARTH GLOBAL ALLIAN MERIGA UNION AUSTRALIA WU Var Transportation Emigrate Politics WORLD DCEAN WE EDUCATION POLITICS D COUNTRY-USA MAPDEMOCRACY ALLIANCE USA EARTH Munics LAND Concept ASIA Cuban Missile EU ICAL-GLOBALIZAT AREA TECHNOLOGYAUSTRALLA AFRICA COLOR Russia Globalization Earth UK RAINE ROPE EDUCATION GEOPOLITICS EACE CONCEPTUAL RUERLAND BOUNT FINANCE RAIN LAND AND A STATE AND A STA **\*\*** FINANCE ASIA PLANET FINANCE Invasion of Taiwan nuclear program

