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The U.S. government and many other countries have imposed economic sanctions on certain Russian individuals and Russian corporate and banking entities. Kopernik continues to monitor such sanctions and are taking necessary actions to ensure compliance with applicable sanctions, laws, and regulations.

Countries worldwide have experienced outbreaks of infectious illnesses and may be subject to other public health threats, infectious illnesses, diseases or similar issues in the future. Any spread of an infectious illnesses, public health threat or similar issue could reduce consumer demand or economic output, result in market closures, travel restrictions or quarantines, and generally have a significant impact on the economies of the affected country and other countries with which it does business, which in turn could adversely affect investments in that country and other affected countries.

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Alissa Corcoran, CFA
Deputy CIO, Director of Research & Analyst

Alissa Corcoran is Deputy CIO, Director of Research and an analyst covering health care at Kopernik. She has been in the investment industry since 2012 and joined Kopernik as an analyst in 2013. She became Director of Research in 2019. Earlier in her career, she held positions at Vinik Asset Management, a genetics lab, and various non-profit organizations.

Alissa has a Bachelor of Science in biochemistry from Bates College and earned her MBA from the University of Southern California's Marshall School of Business. She has received the Chartered Financial Analyst designation.



**Todd Tosti, CFA** *Analyst* 

Todd Tosti is an analyst covering industrials for Kopernik. He has been in the investment industry since 2009 and joined Kopernik in 2016. Earlier in his career, he worked at BlackRock Advisors in London.

Todd has a bachelor of science in economics from Boston College and an MBA from Columbia Business School. He has received the Chartered Financial Analyst designation.



**David Iben, CFA**Chief Investment Officer and Lead Portfolio Manager

David Iben is the Chief Investment Officer of Kopernik Global Investors and is the sole Portfolio Manager of the Kopernik Global All-Cap strategy, Lead Portfolio Manager of the Kopernik Global Unconstrained strategy, Co-Portfolio Manager of the Kopernik Global Long-Term Opportunities strategy and Co-Portfolio Manager of the Kopernik International strategies. He is the Managing Member, Founder and Chairman of the Board of Governors of Kopernik Global Investors.

Dave earned his bachelor's degree from University of California, Davis, and his MBA from the University of Southern California Marshall School of Business. He has received the Chartered Financial Analyst designation and is a member of CFA Institute and CFA Society of Tampa Bay.



## OUR MESSAGE TODAY

- We condemn the violence in Ukraine
- We cannot prevent war. We focus on that which is within our circle of influence
- We will discuss our views on:
  - Investing in emerging markets
  - Defining and managing investment risk
  - The importance of independent thought, especially during emotional times
  - The moral issues of global investing
  - Our investments in Russia

source: www.cnbc.com



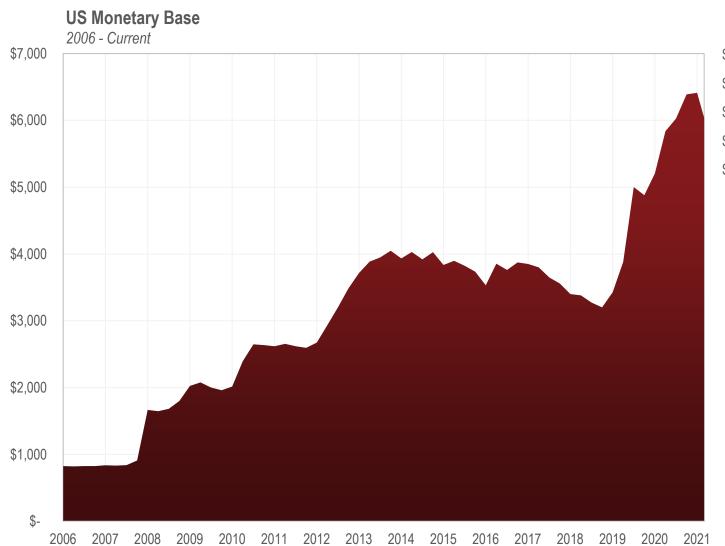




source: www.mrss.com



# THE EROSION OF PURCHASING POWER





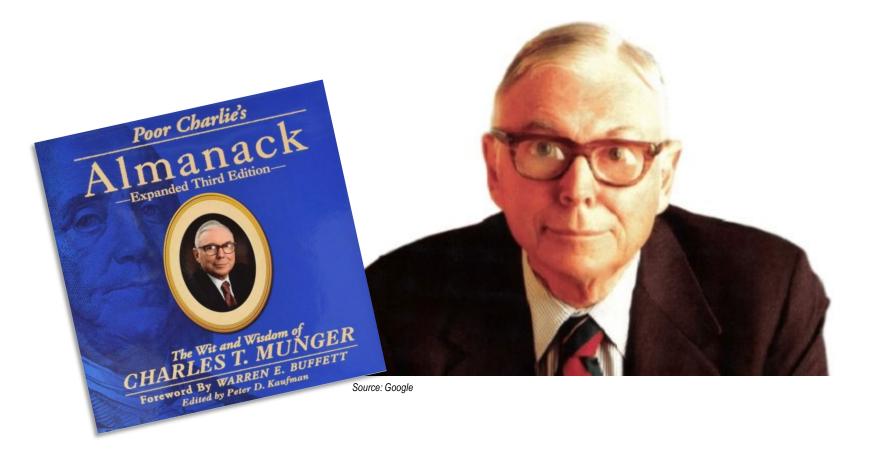


Mission: To manage the <u>highest quality investment portfolios</u>. We view this as the likely <u>long-term product of a superior philosophy, quality people, and a value enhancing process and culture.</u>

- <u>Philosophy</u>: Doing a solid job of appraising businesses enables us to <u>take advantage of market inefficiencies</u>, which in turn, allows us to realize superior investment returns over the long term.
- <u>People</u>: We employ people who possess a <u>high level of integrity</u> and have faith and conviction in our philosophy. They have the passion, aptitude, a positive attitude, curiosity, conceptual understanding, and team orientation required to contribute to our process and fit into our culture.
- <u>Process</u>: We consistently apply bottom-up, fundamental research in a creative, yet diligent, manner that adheres to our "<u>value as a prerequisite</u>" approach. Risk management is taken very seriously using an approach that is absolute (vs. relative), viewed on a portfolio basis (vs. a single security basis) and focuses on <u>minimizing the risk of permanent loss of purchasing power (vs. career risk)</u>.
- <u>Culture</u>: We have a culture that <u>puts client needs ahead of short-term pressures and perceptions</u>, and the desire to minimize our workflow and business risk. We intend to remain small and focused. We are committed to investment in our people and to effective teamwork.

"The safest way to get what you want is to deserve what you want. Deliver to the world what you would buy if you were on the other end."

-Charlie Munger



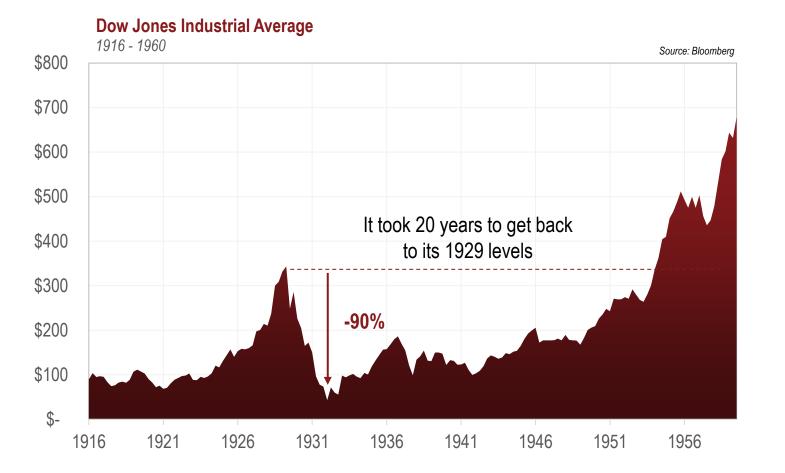
# What Does it Mean to Be an Equity Investor?

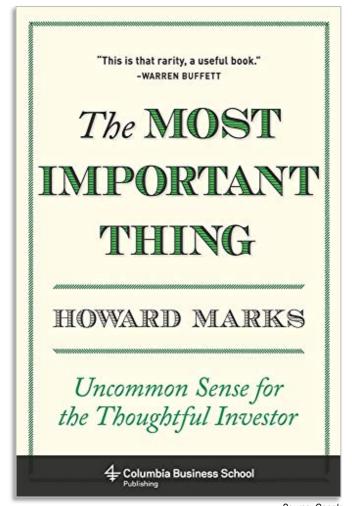


Source: Alamy.com

# WHAT IS RISK? PERMANENT LOSS OF PURCHASING POWER. PRICE MATTERS

"The greatest risk doesn't come from low quality or high volatility. It comes from paying prices that are too high" – Howard Marks





# RETURNS (%) DURING PERIODS OF HEIGHTENED MARKET RISK

| Date                           | Percent<br>Drop | Years until previous high recovered |
|--------------------------------|-----------------|-------------------------------------|
| 1972 – Nifty Fifty             | -45%            | 3 (flat for 10 years)               |
| 1987 – Black Monday            | -35%            | 2                                   |
| 2000 - NASDAQ Tech Bubble      | -72%            | 15                                  |
| 2007 - Global Financial Crisis | -53%            | 4                                   |
| 2020 – Covid-19                | -35%            | <1 (7 months)                       |



## VALUATIONS ACROSS REGIONS as of 3/31/2022

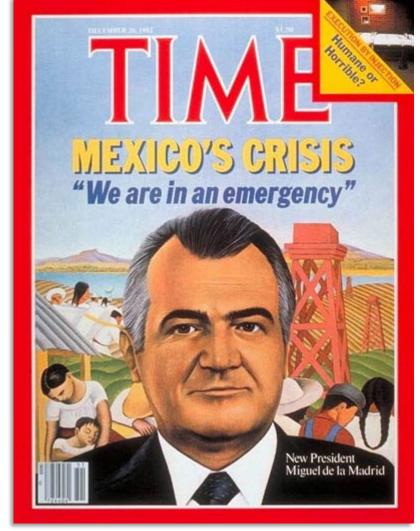


|  | Price to<br>Earnings | Price to<br>Tangible Book | Price to<br>Cash Flow | Dividend<br>Yield |
|--|----------------------|---------------------------|-----------------------|-------------------|
| United States (SPDR S&P500 ETF)        | 23.27                | 5.37                      | 16.56                 | 1.75%             |
| Emerging Markets (iShares MSCI EM ETF) | 13.26                | 2.62                      | 8.29                  | 2.81%             |
| Russia (VanEck Vectors Russia ETF)     | 3.35                 | 1.86                      | 1.72                  | 11.18%            |

On Friday, March 4, 2022, VanEck Vectors Russia ETF trading was halted.

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Source: Time Magazine



# COMPELLING DISCOUNTS: EM VS. U.S.

As of 4/4/2022

| Energy  | Enterprise<br>Value/Barrel |
|---------|----------------------------|
| Gazprom | \$0.91                     |
| Exxon   | \$21.65                    |

| Railroads     | Price to Book<br>(P/B) |
|---------------|------------------------|
| Guangshen     | 0.27                   |
| Union Pacific | 12.04                  |

| Utilities                        | Price to Book<br>(P/B) |
|----------------------------------|------------------------|
| RusHydro                         | 0.45                   |
| Dow Jones Utilities Index (UTIL) | 2.05                   |



| Technology | Market Cap/Search<br>User |
|------------|---------------------------|
| Yandex     | \$54                      |
| Baidu      | \$68                      |
| Google     | \$452                     |

| Agriculture     | EV/Acre  |
|-----------------|----------|
| First Resources | \$4,605  |
| Golden Agri     | \$3,290  |
| Iowa Farmland   | \$15,909 |



| Telecom | EV/<br>Subscriber | Price to<br>Earnings |
|---------|-------------------|----------------------|
| KT      | 0.39              | 6.00                 |
| Verizon | 2.75              | 9.70                 |





# RISKS OF INVESTING IN EMS

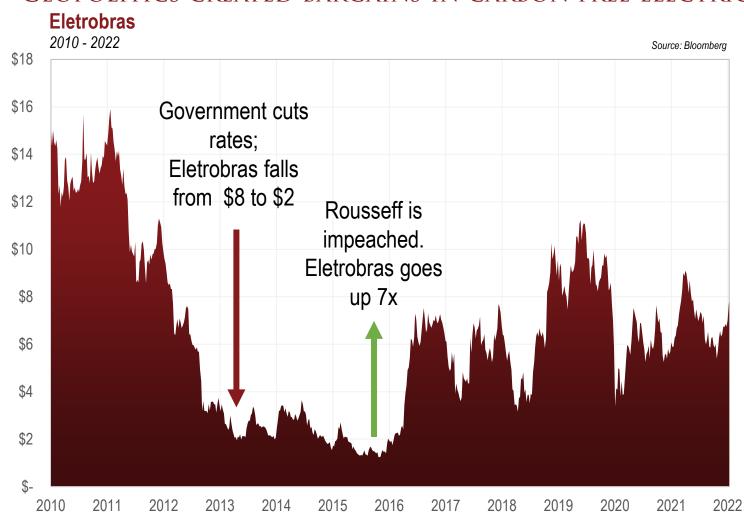
Rule of Law, and property rights

Varying forms of Government corruption

Poor infrastructure, including power, water, roads

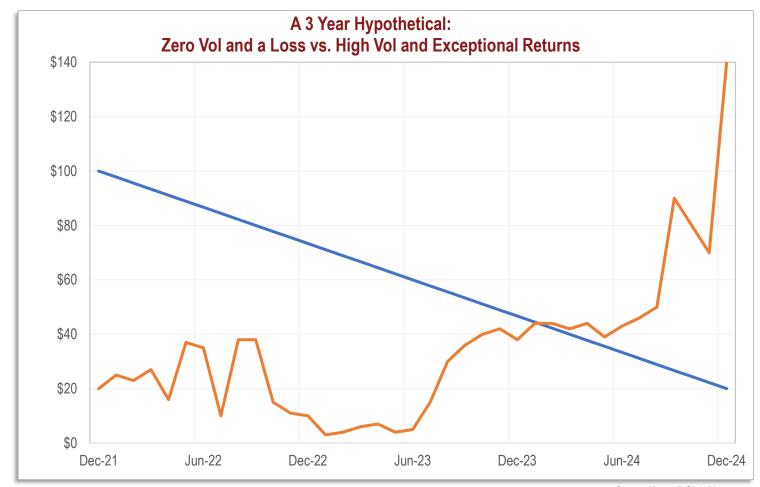
Education of labor force, etc

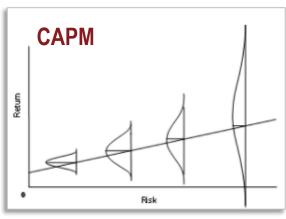
### GEOPOLITICS CREATED BARGAINS IN CARBON-FREE ELECTRICITY





# "THERE'S NO SUCH THING AS A GAMBLING VOLATILITY PROBLEM. JUST A LOSING PROBLEM."



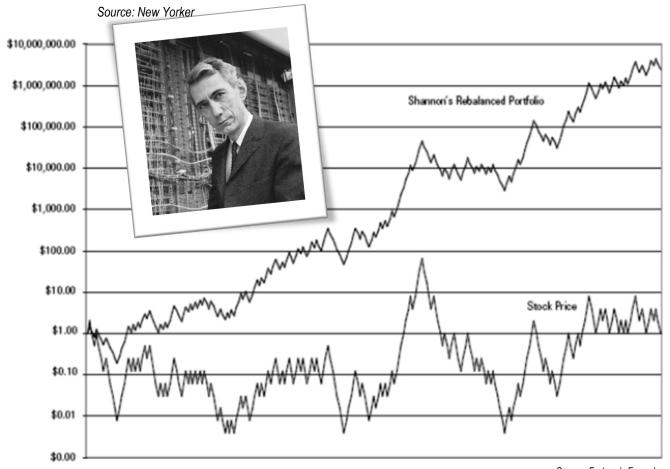


Source: Barrons.com

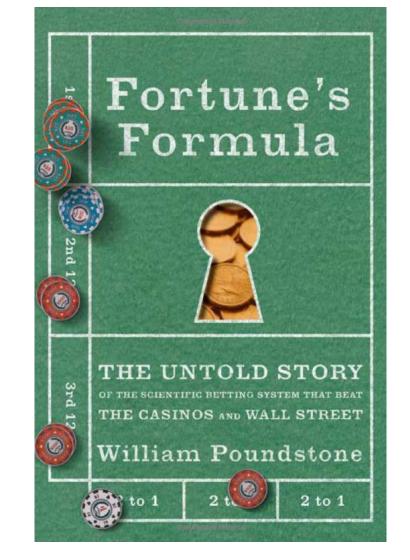


# VOLATILITY IS OPPORTUNITY, NOT RISK

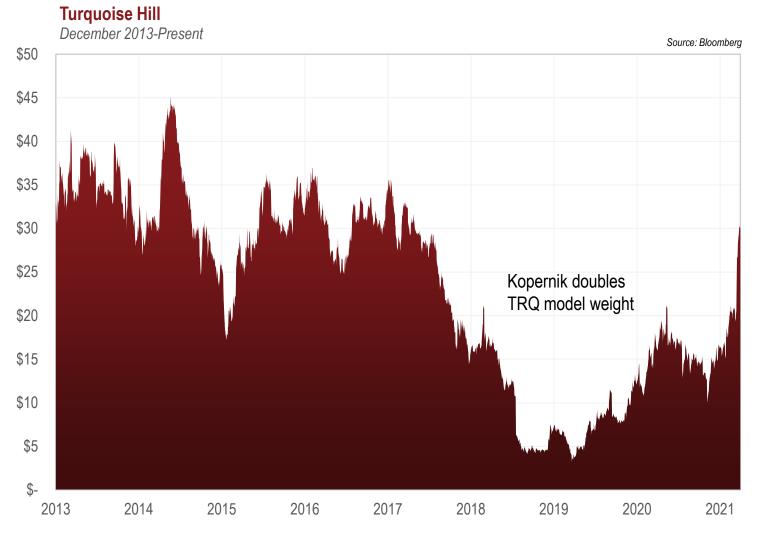
Source: Google



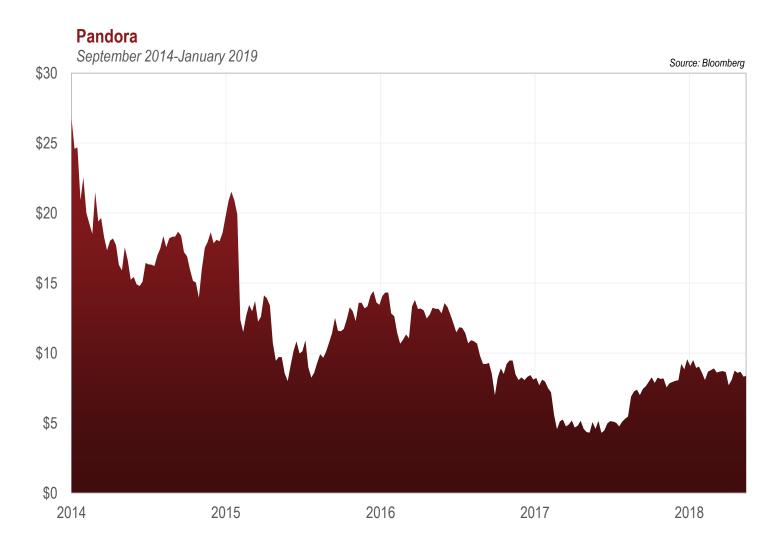
Source: Fortune's Formula



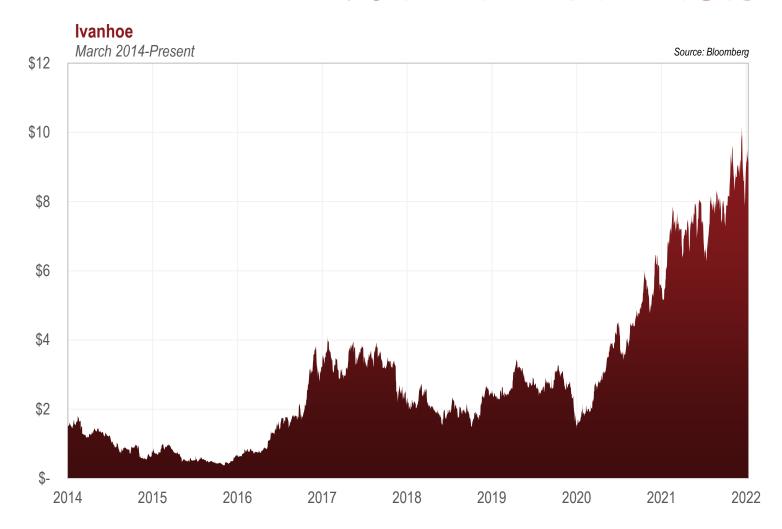
# TURQUOISE HILL SHARE PRICE IS FLAT, KOPERNIK HAS POSITIVE RETURNS



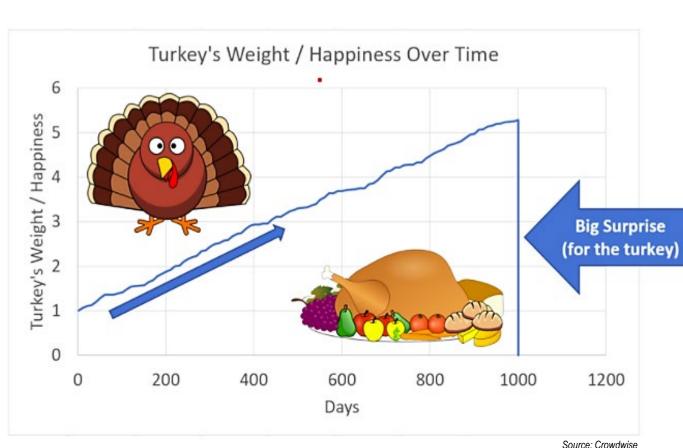
# PANDORA STOCK FELL DURING KOPERNIK HOLDING PERIOD, YET WE MADE MONEY



# IVANHOE IS UP SIGNIFICANTLY. VOLATILITY ENHANCED RETURNS.



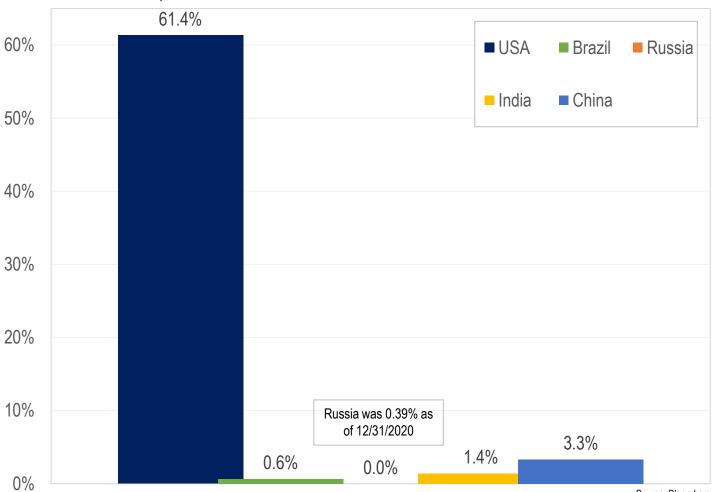
# HOW CAN INVESTORS QUANTIFY RISK?



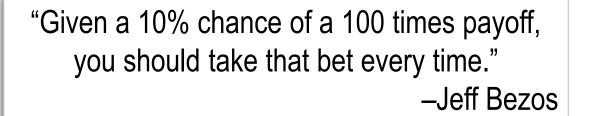
"Consider a turkey that is fed every day. Every single feeding will firm up the bird's belief that it is the general rule of life to be fed every day by friendly members of the human race. On the afternoon of the Wednesday before Thanksgiving, something <u>unexpected</u> will happen to the turkey"

- Nassim Taleb, Black Swan

# **2022 USA/BRIC Allocations Within The MSCI ACWI Benchmark** as of March 31, 2022



| Kopernik Global All-Cap Strategy Guideline Maximums (at purchase) |     |
|---|-----|
| Issuer  | 5%  |
| Industry  | 25% |
| Sector  | 30% |
| Country   | 35% |
| Emerging markets  | 50% |









Source: Google





# VALUATIONS BECOME ATTRACTIVE WHEN GEOPOLITICS LOOK DICEY

"Establishing and maintaining an unconventional investment profile requires acceptance of uncomfortably idiosyncratic portfolios which frequently appear downright imprudent in the eyes of conventional wisdom"

-David Swenson

# GOVERNMENT SOURCES OF FUNDS

- Income tax
- Sales Tax
- Import Duties
- Wealth transfers
- Appropriation of assets
- Eminent domain
- Concessions
- Royalties
- Asset Sales
- Permitting
- Licensing
- Other Regulatory

"Nothing is certain in life except death and taxes."



By permission of Chip Bok and Creators Syndicate, Inc.



- Social services
- Infrastructure
- Defense
- Education
- Healthcare
- Scientific research
- Subsidies
- Cronyism
- Largesse
- Theft





# EXTRACTION BUSINESSES ARE COMMON TARGETS FOR GOVERNMENTS

State Lawmakers Push to Scale Back Fossil Fuel
Subsidies
Source: New York Focus

Zambia says open to dialogue with miners over tax increases Source: Reuters

Kazakh president says Source: Reuters mining companies must pay higher taxes

Governments Want to Cash In on Miners' Ballooning Profits

Source: Wall Street Journal

# After decades-long fight, Nevada lawmakers raise mining tax

EU Set To Back Windfall Tax On Energy Firms

Peruvian miners face potential tax hikes

Source: Mining Technology

Israel to impose carbon tax, starting with fossil fuels

### DIVERSIFICATION MITIGATES RISK

### Centerra, Ivanhoe, and Impala

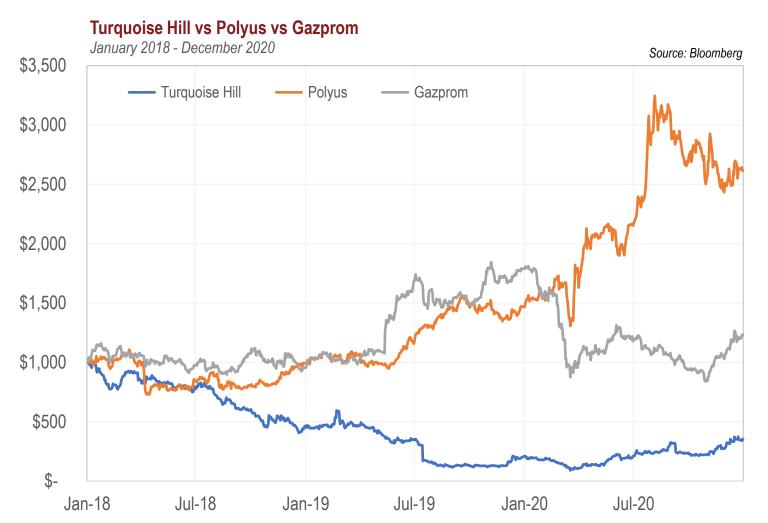


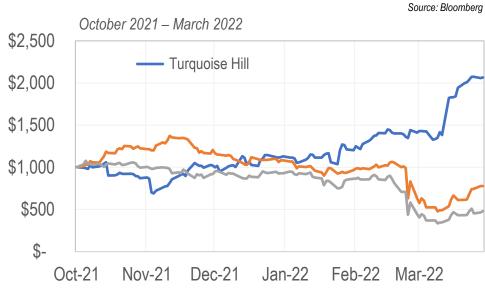




Source: Google

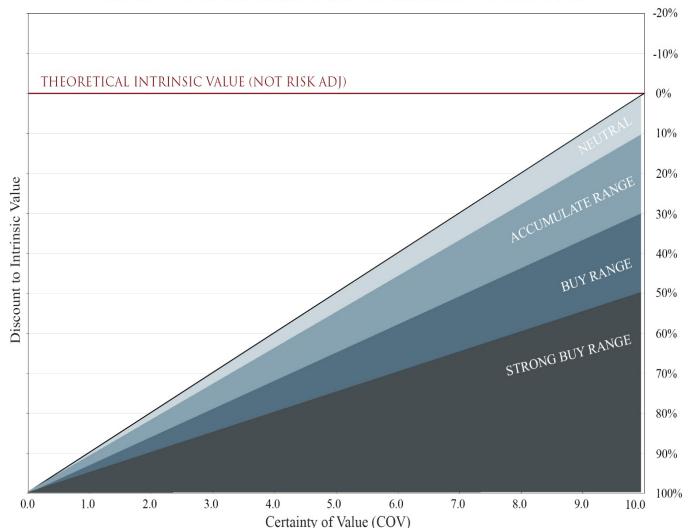
### DIVERSIFICATION MITIGATES RISK





### ADHERING TO A PROVEN INVESTMENT PROCESS





### RISK ADJUSTING

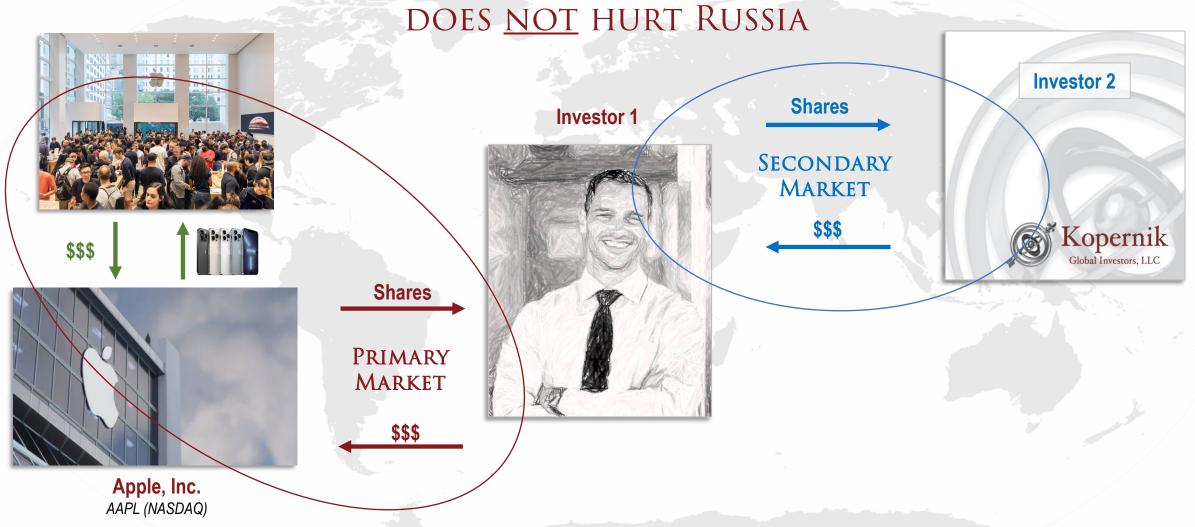
Certainty of Value (COV) is a risk adjustment tool Kopernik utilizes to quantify the margin of safety we demand to invest in a company's security.

- Identify key specific risk factors and assign a weight to each risk factor
- Assign a score to each risk factor (0 = extremely risky and 10 = riskless)
- Calculate the composite COV score, the product of each risk factor times the risk factor's weighting
- The final step is to calculate the Risk Adjusted Intrinsic Value (RAIV), derived as a product of Theoretical Value times COV

This is shown visually on a Discount to Intrinsic Value vs. COV Matrix (adjacent).



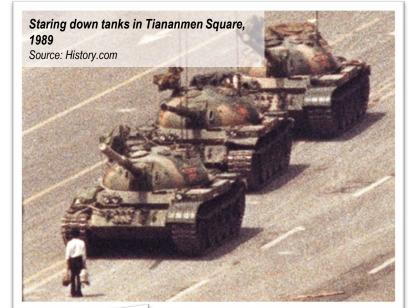
SELLING SHARES ON THE SECONDARY MARKET



# ORDINARY CITIZENS ARE DIFFERENT FROM THEIR GOVERNMENTS



Americans Protesting the Vietnam War Source: The New Yorker





French Protests Against the Algerian War, 1961 Source: Middle East Monitor



Source: The Local ES



Russians Protest the War in Ukraine, 2022

Source: The Atlantic



# RUSHYDRO PROVIDES CHEAP, CLEAN ELECTRICITY

RusHydro Source: Google

|                             | Source: Bloomberg |  |
|-----------------------------|-------------------|--|
| RusHydro<br>4/6/2022        |                   |  |
| Price/Book                  | 0.5               |  |
| Price/<br>Replacement Value | 0.1               |  |
| Dividend Yield              | 6.8%              |  |
| Price/Earnings              | 8.1               |  |



**APARTMENTS LSR** Group **Etalon Group** 

| As of 4/6/2022 | Price to Earnings | Price to<br>Book | Dividend<br>Yield |
|----------------|-------------------|------------------|-------------------|
| LSR            | 3.1               | 0.5              | 14.3%             |
| Etalon         | 1.0               | 0.1              | 13.1%             |

Source: Bloomberg

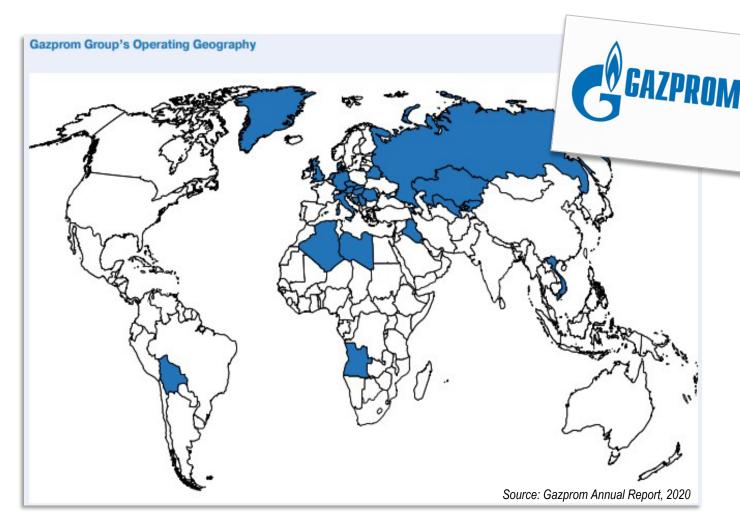
## SBERBANK PROVIDES BANKING SERVICES TO 100 MILLION PEOPLE



| <b>Sberbank</b><br>4/6/2022 |       |  |
|-----------------------------|-------|--|
| Price/Book 0.6              |       |  |
| Price/Earnings              | 2.6   |  |
| Dividend Yield              | 13.2% |  |

Source: Bloomberg





| <b>Gazprom</b> 4/4/2022                   |      |  |
|---|------|--|
| Price/Book                                | 0.4  |  |
| Enterprise Value/Barrel of Oil Equivalent | 0.9  |  |
| Price/Earnings                            | 3.0  |  |
| Dividend Yield                            | 5.2% |  |

Source: Bloomberg



# A SELECTION OF GLOBAL CONFLICTS OVER THE LAST 100 YEARS

Spanish Civil War

World War II

Vietnam War

Korean War

Gulf Wars 1 and 2

Global War on Terror

Rwandan Genocide

Yugoslav War

NATO Bombing of Serbia

Soviet Invasion of Afghanistan

U.S. Invasion of Afghanistan

Iran-Iraq War

South Sudanese Civil War

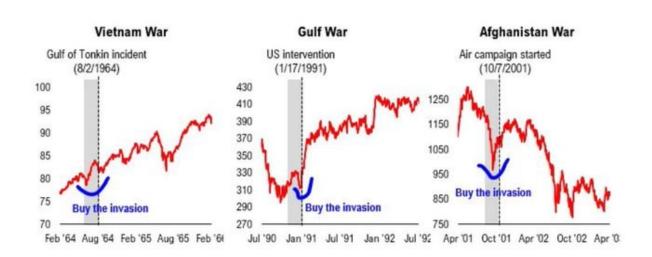
Lebanese Civil War

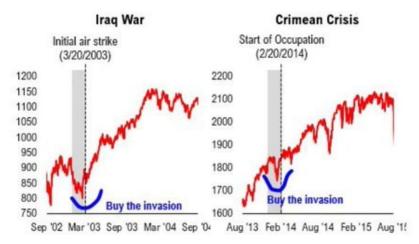
Israel-Palestine Conflict

Falklands War

Birth control, Ho Chi Minh, Richard Nixon back again
Moonshot, Woodstock, Watergate, punk rock
Begin, Reagan, Palestine, terror on the airline
Ayatollah's in Iran, Russians in Afghanistan
"Wheel of Fortune", Sally Ride, heavy metal suicide
Foreign debts, homeless vets, AIDS, crack, Bernie Goetz
Hypodermics on the shore, China's under martial law
Rock and roller, cola wars, I can't take it anymore
We didn't start the fire
It was always burning, since the world's been turning
We didn't start the fire
But when we are gone
It will still burn on, and on, an







| Russia<br>Source: Bloomberg | As of 4/6/2022 |
|-----------------------------|----------------|
| Price to Earnings           | 4x             |
| Price to Book               | 0.75x          |
| Dividend Yield              | 11%            |

"Be fearful when others are greedy, and greedy when others are fearful."

-Warren Buffett

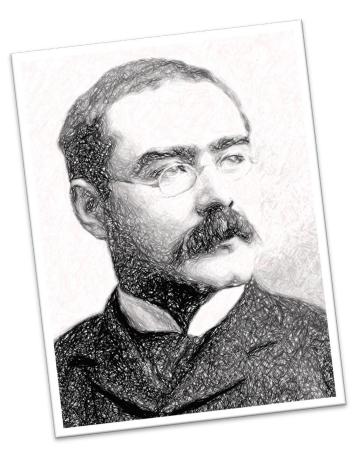
"People are always asking me where is the outlook good, but that's the wrong question. The right question is, where is the outlook most miserable?"

-John Templeton

Source: Bank of America



# Q&A



If you can keep your head when all about you
Are losing theirs and blaming it on you;
Yours is the Earth and everything that's in it
-Rudyard Kipling