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## **CME Group**

# Trading Geopolitics with Oil and Gold

#### **Tariq Dennison**

TEP, Wealth Manager GFM Asset Management

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# Trading Geopolitical Commodities Strategies using micro oil and gold futures

#### by Tariq Dennison

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Image credit: MS Office Stock Photo

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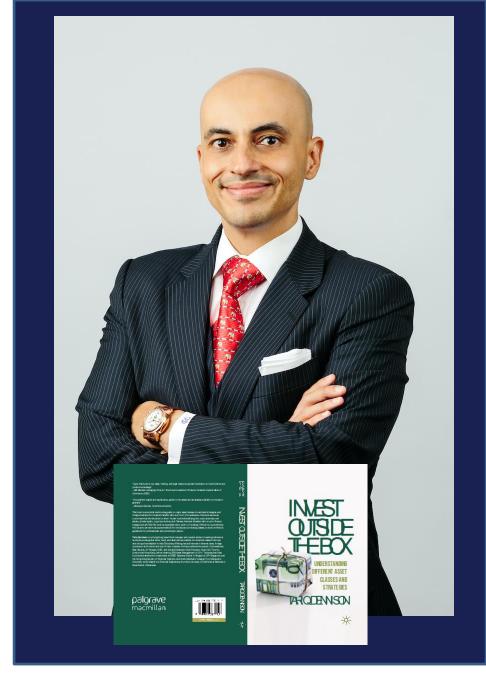
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#### **About Tariq Dennison TEP**

- Independent Advisor Managing Accounts on the IBKR platform
  - US Advisor: GFM Asset Management LLC
  - HK Advisor: GFM Group Limited
- In the market since 1998
  - Commerzbank (NY, London, Frankfurt)
  - Bear Stearns (NY)
  - J.P. Morgan (NY)
  - Canadian Imperial Bank of Commerce
  - Societe Generale (HK)
- Masters in Financial Engineering
  - University of California at Berkeley
- Lecturer at ESSEC Singapore
  - Fixed Income
  - Alternative Assets
- Focus on US-Asia corridor
- Author "Invest Outside the Box"





#### "Geopolitical" Commodities

- Supply depends on a few countries
- Demanding countries
   have tensions with those
   supply countries
- Commodity is important enough to fight wars over

#### Examples

- Gold & Silver, for centuries
- Oil since 1901
  - 10 Jan 1901 = Spindletop in Texas
- Spices, 1453-1947
  - 1453 = Fall of Constantinople
  - 1947 = Indian Independence
- Sugar, 1493-1806
  - 1493 = Columbus brings sugar cane
  - 1806 = Britain blockades Napoleon, Europe switches to sugar beets
- Expect more metals with the rise of EVs...



#### Oil

- Ongoing uses
- Past & future
- Supply & demand
- WTI vs Brent
- Oil futures curves & strategies
- Oil options

#### Gold

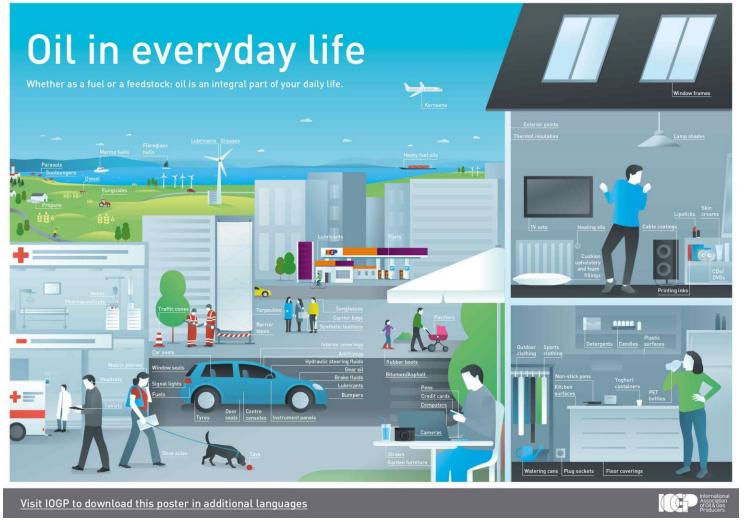
- Valuable but useless
- History & effectiveness as a store of value
- Supply & demand
- Gold futures &. strategies





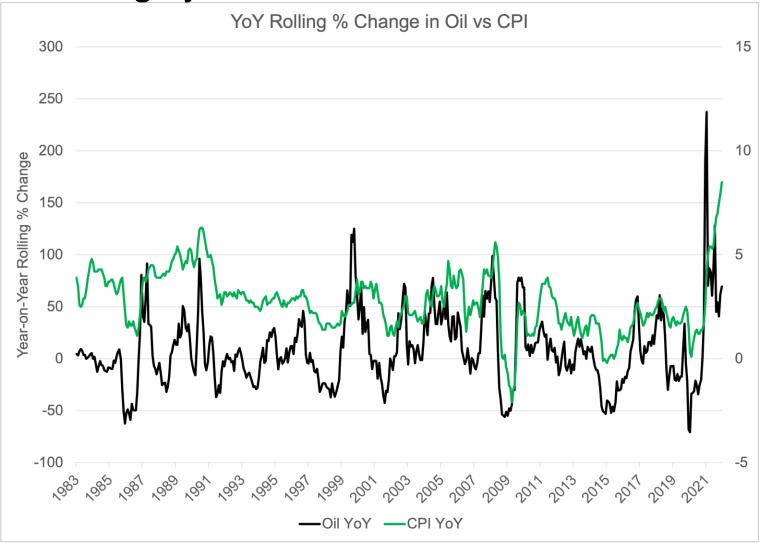


#### Try going a day, even a few minutes, without using oil



Source: https://www.iogp.org/oil-in-everyday-life/

Oil prices highly correlated with inflation



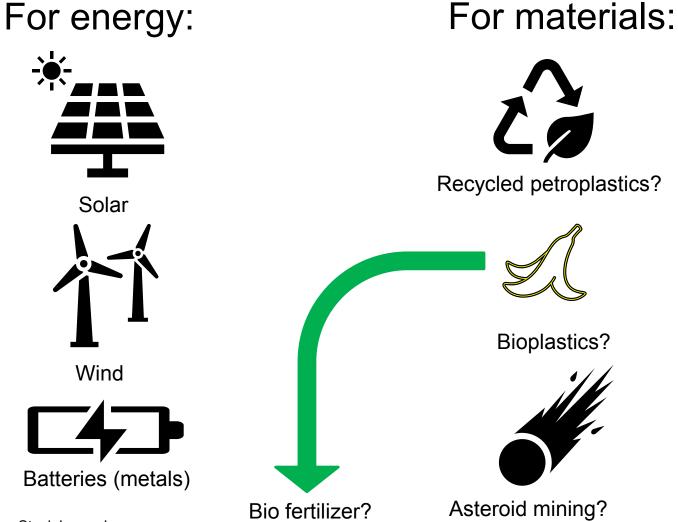
Source: Koyfin, Author's calculations

#### What we did before oil

Source: MS Office Stock Image Icons

## For materials: For energy: Wood (worked by hand) Wood burning Horse power Leather Whale oil Fertilizer **Ivory**

#### What we might do "after oil"



Source: MS Office Stock Image Icons

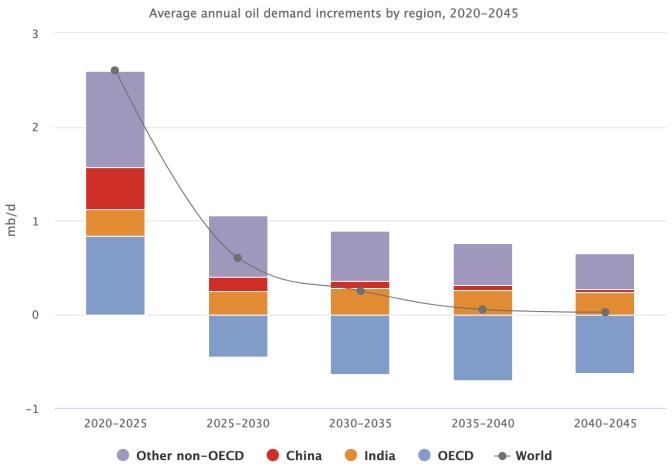
#### While OECD oil demand is expected to decline...

Figure 3.6 OECD oil demand by sector, 2019-2045 60 50 40 mb/d 30 20 10 Other sectors Petrochemicals Aviation

Source: https://woo.opec.org/chapter.php?chapterNr=207&chartID=953

## China, India & other non-OECD expected to continue driving total oil demand up through 2045...

Figure 3.3



Source: https://woo.opec.org/chapter.php?chapterNr=207&chartID=953

# Today's top importers & exporters members vs

#### Crude oil – imports

#### Crude oil – exports

Crude oil - imports is the total amount of crude oil imported, in barrels per day (bbl/day).

Crude oil - exports is the total amount of crude oil exported, in barrels per day (bbl/day).

216 Results	Clear Filters	216 Results	Clear Filter
Filter Categories All	<u> </u>	Filter Categories	~

**DOWNLOAD DATA** 

Rank	Country		bbl/day
1	United States	*	7,969,000
2	China		6,710,000
3	India		4,057,000
4	Japan	*	3,208,000
5	Korea, South	*	3,057,000
6	Germany	*	1,836,000
7	Italy	*	1,341,000
8	Spain	*	1,325,000

Rank	Country		bbl/day
1	Saudi Arabia	*	7,341,000
2	Russia		4,921,000
3	Iraq	*	3,092,000
4	Canada	*	2,818,000
5	United Arab Emirates	*	2,552,000
6	Nigeria	*	2,096,000
7	Angola	*	1,782,000
8	Venezuela	*	1,656,000

13

Source: https://www.cia.gov/the-world-factbook/countries/ https://www.eia.gov/tools/faqs/faq.php?id=709&t=6

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#### What is WTI?

- WTI = "West Texas Intermediate"
- WTI is a "light, sweet" crude oil standard
  - Light = Low in density and viscosity, smooth flow at room temp
  - Sweet = Low sulfur content, 0.5% by weight
  - Oil sands produce "heavy, sour" crude, valued at a discount to WTI
- WTI is also a North American standard
  - Physical delivery priced to Cushing, Oklahoma
  - Often compared to "Brent Crude", delivered at Sullom Voe, an island between Scotland and Norway

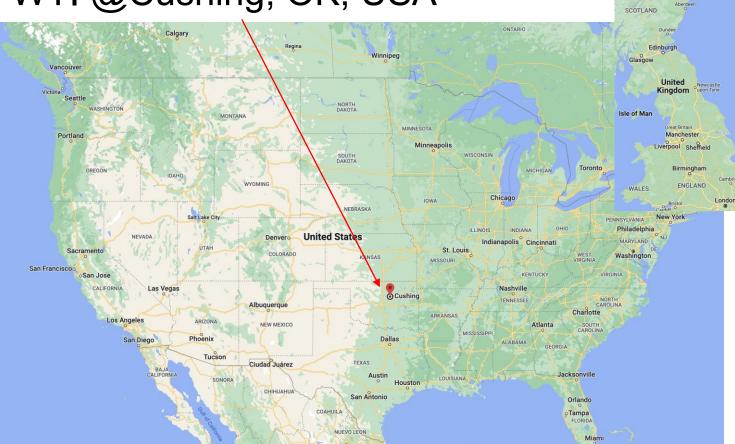


#### Brent @Sullum Voe

O Sullom Voe Oil Terminal

The Hagueo Netherlands

WTI @Cushing, OK, USA



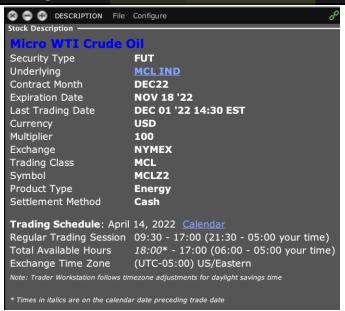
Source: https://www.businessinsider.com/cushing-oklahoma-is-the-center-of-the-oil-universe-2016-3?r=US&IR=T

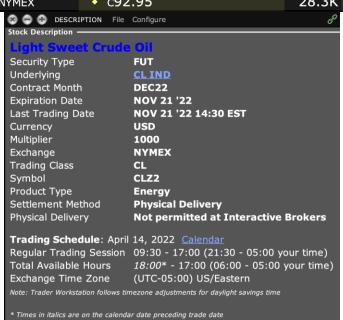
## Now to TWS...



#### MCL vs CL on IBKR TWS

	LAST	CHANGE	FUT OI	VLM		LAST	CHANGE	FUT OI	VLM
MCL May'22 @NYMEX	• 102.74	-1.51 -1.45%	14.9K	41.7K	CL May'22 @NYMEX	• 102.75	-1.50 -1.44%	87.8K	66.9K
MCL Jun'22 @NYMEX	<b>•</b> 102.27	-1.52 -1.46%	3.63K	5.26K	CL Jun'22 @NYMEX	• 102.28	-1.51 -1.45%	291K	35.4K
MCL Jul'22 @NYMEX	• 101.49	-1.40 -1.36%	391	133	CL Jul'22 @NYMEX	• 101.39	-1.50 -1.46%	145K	13.2K
MCL Aug01'22 @NYMEX	<b>•</b> 100.84	-0.92 -0.90%	165	16	CL Aug'22 @NYMEX	• 100.19	-1.57 -1.54%	79.4K	6.38K
MCL Sep01'22 @NYMEX	<ul><li>98.85</li></ul>	-1.67 -1.66%	60	7	CL Sep'22 @NYMEX	• 98.96	-1.56 -1.55%	97.6K	6.11K
MCL Oct01'22 @NYMEX	• c99.32		15		CL Oct'22 @NYMEX	• 97.79	-1.53 -1.54%	64.7K	2.88K
MCL Nov01'22 @NYMEX	• c98.17		17		CL Nov'22 @NYMEX	• 96.69	-1.48 -1.51%	57.5K	2.50K
MCL Dec01'22 @NYMEX	<ul><li>96.28</li></ul>	-0.78 -0.80%	247	1	CL Dec'22 @NYMEX	<ul><li>95.57</li></ul>	-1.49 -1.54%	235K	10.2K
MCL Jan01'23 @NYMEX	• c95.98		25		CL Jan'23 @NYMEX	• 94.73	-1.25 -1.30%	42.7K	1.13K
MCL Feb01'23 @NYMEX	• c94.92		7		CL Feb'23 @NYMEX	<ul><li>93.35</li></ul>	-1.57 -1.65%	37.0K	586
MCL Mar01'23 @NYMEX	<ul><li>92.66</li></ul>	-1.25 -1.33%	21	1	CL Mar'23 @NYMEX	• 92.43	-1.48 -1.58%	49.1K	843
MCL Apr01'23 @NYMEX	• 91.80	-1.15 -1.24%	3	1	CL Apr'23 @NYMEX	• c92.95		28.3K	520





#### "Big" Oil Futures

- 1,000 barrels/contract
- Physically deliverable

 Deliverable any time in delivery month, so financial traders get out the month before contract expiry

#### Micro Crude Oil Futures

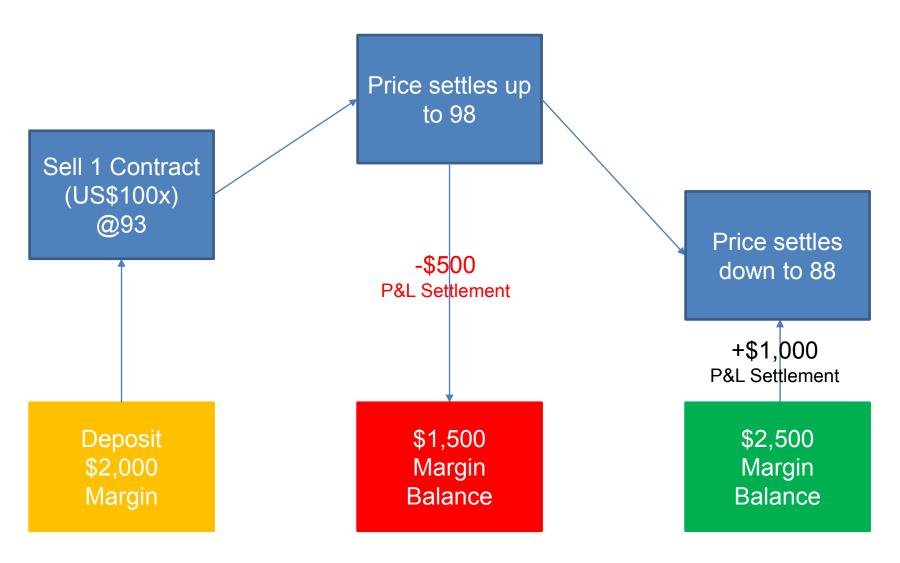
- 100 barrels/contract
- Financially settled, based on prices of the big contract
- Settlement price automatically calculated "4 business days prior to the 25th calendar day of the month prior to the contract month"



#### Sample Micro WTI Trade



#### **How This Cash-Settled Futures Trade Works**

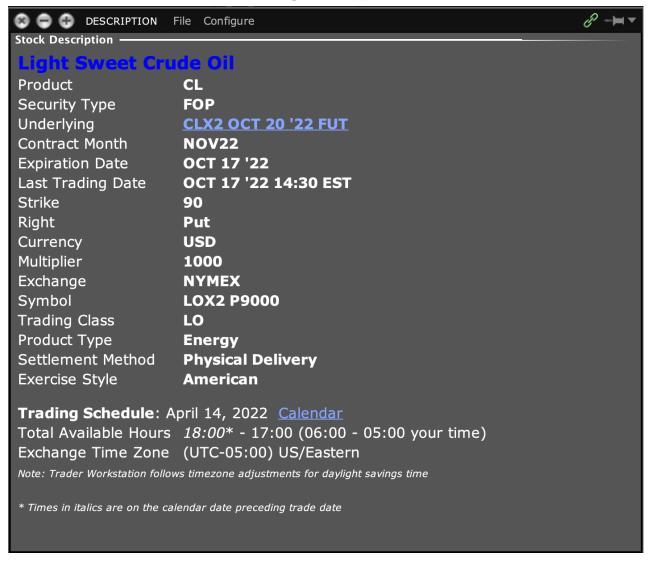




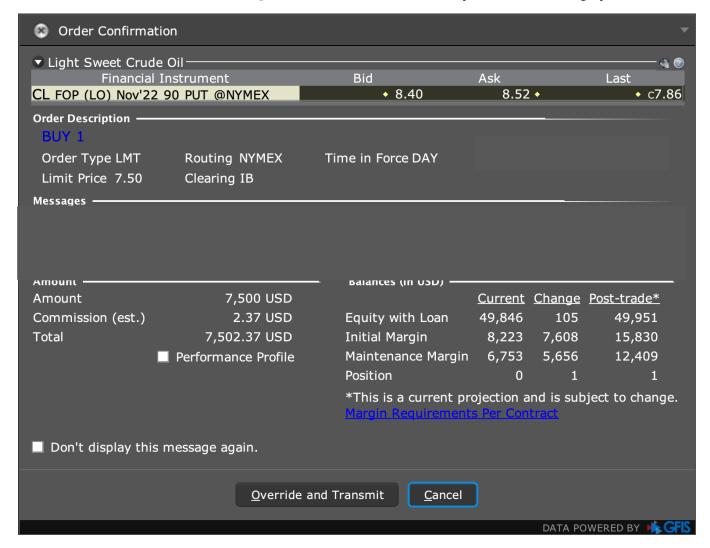
#### What about crude oil options?

<b>◎ ● ◎</b> CL :	Dec'22 @NYMEX▼	PUT/CALLs (Side	by Side) ▼						95	. <mark>36</mark> -1.70 (-1.75	%) ?	© & -⊨▼
SEP / OCT LO 1000 154 DAYS	OCT / NOV LO 1000 186 DAYS	NOV / DEC LO 1000 216 DAYS	DEC / JAN'2 LO 1000 245 DAYS		RE ▼	TABBEI	OVIEW ▼ PL	UT/CALL ▼	All STRIKES▼ N	NYMEX▼ TRADI	NG CLASS	5 <b>▼</b> 1000
		CALLS				STRIKE			PUTS			IV: 43.1%
OPTN VOLU		BID x ASK		MPLDAS				LUME BID SI	BID x ASK		MPLDA	
402	15	• 14.69 x 14.91 •	0.650	43%	21	90	150	14	• 8.36 x 8.49		42.8%	46
18		• 14.42 x 14.64 •	0.643	42.8%	21	90.5	13	68	• 8.56 x 8.74		42.9%	74
14	16	• 14.16 x 14.38 •	0.637	43%	22	91	31	37	• 8.80 x 8.97		43.3%	52
233	16	• 13.90 x 14.12 •	0.630	42.8%	23	91.5	33	37	• 9.04 x 9.21		42.9%	52
22	17	• 13.65 x 13.88 •	0.623	43%	24	92	20	36	• 9.28 x 9.46		42.9%	52
78	26	• 13.40 x 13.62 •	0.617	42.8%	26	92.5	6	62	• 9.52 x 9.70		42.9%	47
102		• 13.15 x 13.37 •	0.610	43%	26	93	51	62	• 9.77 x 9.96		43.3%	68
207	35	• 12.91 x 13.13 •	0.603	42.8%	26	93.5	2	31	• 10.03 x 10.21		42.8%	46
237	35	• 12.67 x 12.89 •	0.596	42.9%	26	94	30	30	• 10.28 x 10.48		42.7%	66
14	27	• 12.45 x 12.67 •	0.590	42.7%	33	94.5	90	61	• 10.55 x 10.74		42.8%	46
35	6	• 12.23 x 12.41 •	0.583	42.7%	6	95	16	7	• 10.84 x 11.01		42.7%	52
70	27	• 12.00 x 12.22 •	0.576	42.8%	61	95.5	1	39	• 11.09 x 11.28		42.8%	35
70	27	• 11.78 x 12.00 •	0.569	43%	61	96	70	39	• 11.37 x 11.56		42.8%	45
35	18	• 11.57 x 11.78 •	0.563	42.8%	33	96.5	13	39	• 11.65 x 11.85		42.9%	64
5	1 18	• 11.36 x 11.57 •	0.556	43.4%	33	97	20	28	• 11.93 x 12.13		42.9%	45
34	57	• 11.14 x 11.36 •	0.550	43%	34	97.5	28	58	• 12.21 x 12.42		42.9%	64
1	19	• 10.95 x 11.16 •	0.543	42.8%	34	98	1	28	• 12.51 x 12.72		42.9%	45
31	19	• 10.75 x 10.96 •	0.537	43%	34	98.5		58	• 12.80 x 13.01		42.9%	45
25		• 10.55 x 10.76 •	0.530	42.9%	34	99		27	• 13.11 x 13.32		42.9%	45 45
25	19	• 10.36 x 10.56 •	0.524	43.4%	45 16	99.5		27	• 13.41 x 13.62		42.9%	45
1.45K	7	• 10.18 x 10.35 •	0.517	43%	16	100	2	7	• 13.74 x 13.92		43%	22
9	20	• 10.00 x 10.20 •	0.511	43%	35	100.5		27	• 14.03 x 14.24		43.1%	45 45
51	20	• 9.82 x 10.02 •	0.505	43.3%	65 35	101		18	• 14.35 x 14.56		43.1%	45
67	20	• 9.63 x 9.83 •	0.498	43.3%	35	101.5		17	• 14.67 x 14.88		43.1%	45
	20	• 9.47 x 9.67 •	0.492	43.2%	71	102		17	• 14.99 x 15.20	-0.509	43.2%	45 🕏
OFF Strate	egy Builder											

#### Description of the Oct 90 put on the Nov CL Futures



#### Sample Micro WTI Option Trade (Put Buy)





#### What is gold, and why buy it?

- Element 79, relatively chemically & industrially inert
- Costs to store it, without yield
- Compared with land / real estate, gold is:
  - Fungible: one ounce interchangeable with another
  - Portable: high value / transport cost ratio
  - Divisible: usable in coins and value accounting
- Limited and expensive supply makes it attractive as a relatively stable store of relative value, but only has value if buyers think it does!



#### Gold supply by sector, visualized

#### Total above-ground stocks (end-2019)

Total above-ground stocks (end-2019): 197,576 tonnes

1. Jewellery: 92,947 tonnes, 47.0%

2. Private investment: 42,619 tonnes, 21.6%

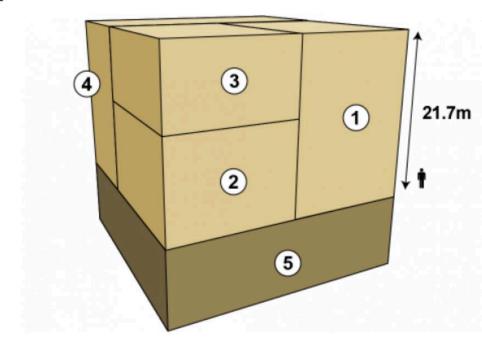
3. Official Holdings: 33,919 tonnes, 17.2%

4. Other: 28,090 tonnes, 14.2%

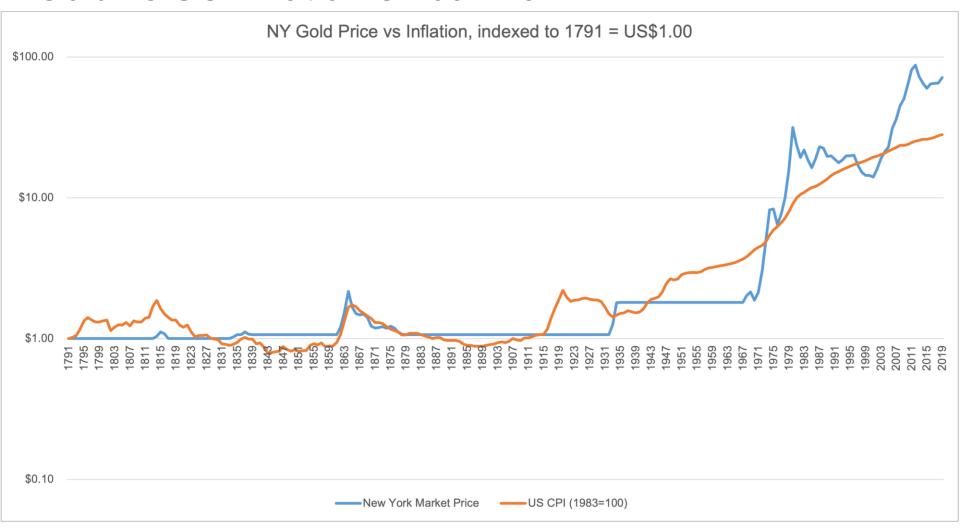
5. Below ground reserves: 54,000 tonnes

Source: Metals Focus; GFMS, Thomson Reuters, US

Geological Survey, World Gold Council



#### Gold vs US Inflation Since 1791

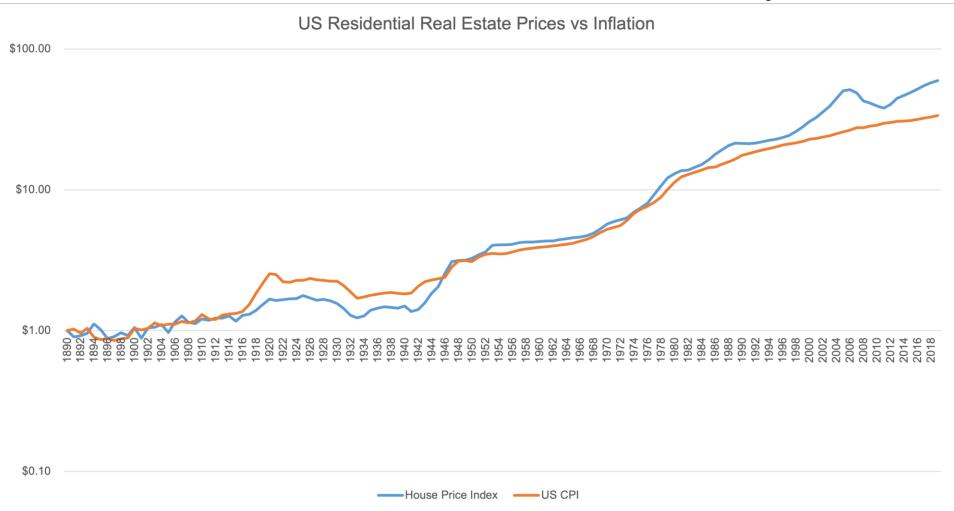


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Source: https://www.measuringworth.com/datasets/gold/result.php



#### Real estate has tracked inflation more closely

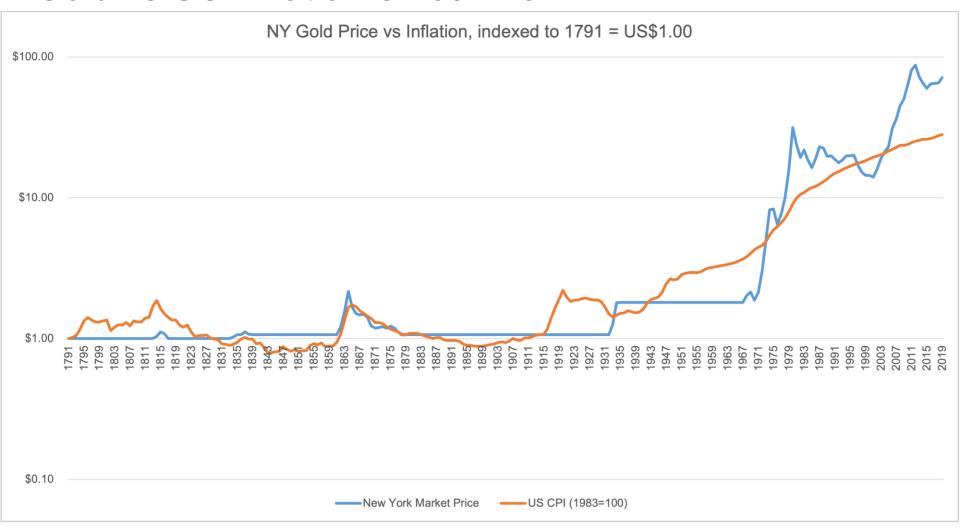


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Source: http://www.econ.yale.edu/~shiller/data.htm



#### Gold vs US Inflation Since 1791

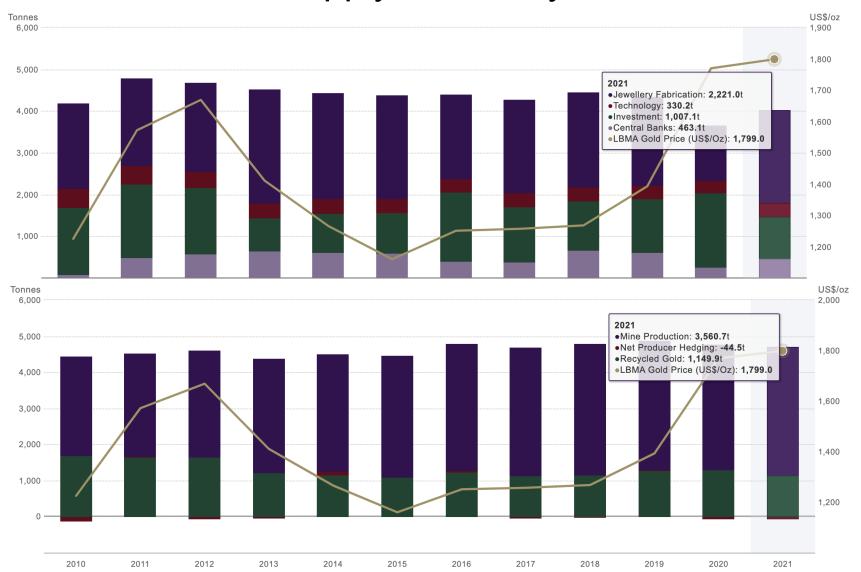


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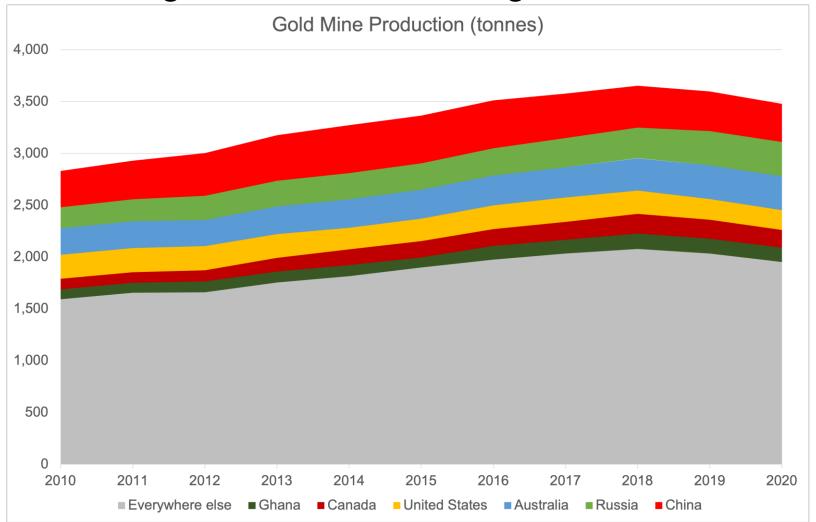
Source: https://www.measuringworth.com/datasets/gold/result.php



#### Mines are 75% of Supply, Jewellery ~50% of Demand



#### Where new gold has been coming from...

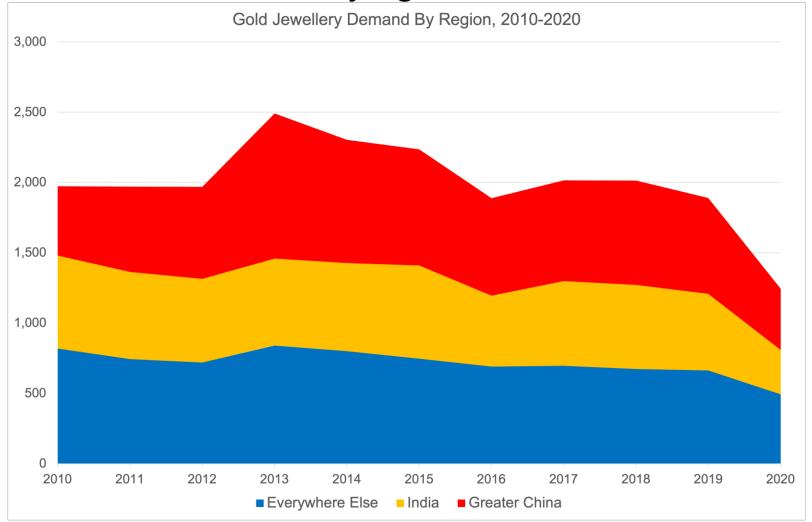


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Source: https://www.gold.org/goldhub/data/gold-production-by-country



#### ... and who has been buying it

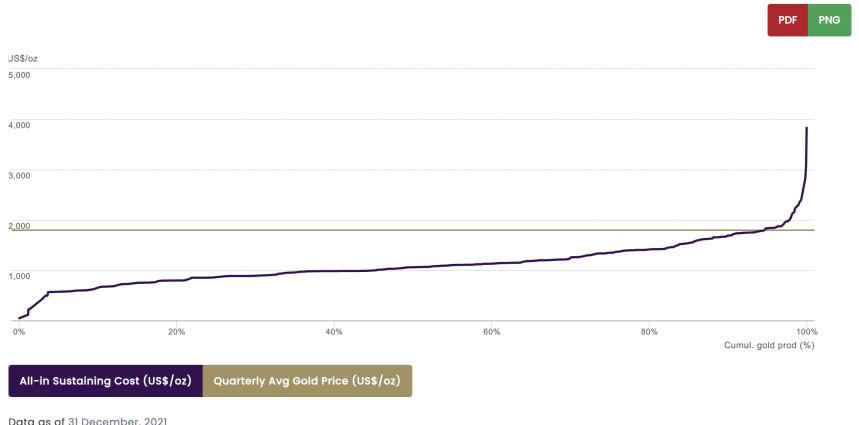


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Source: https://www.gold.org/goldhub/research/gold-demand-trends/gold-demand-trends-q3-2021



#### The all-important, All-In Supply Cost (AISC) Curve Q4'21 AISC curve



Data as of 31 December, 2021

Sources: Metals Focus Gold Mine Cost Service; Disclaimer

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Source: https://www.gold.org/goldhub/data/aisc-gold

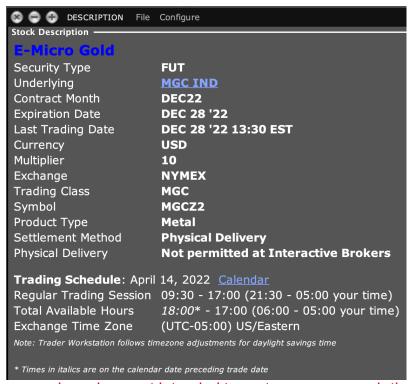
# Micro gold futures on IBKR TWS



#### Gold vs Micro Gold on IBKR TWS

	LAST	CHAI	NGE	FUT OI	VLM		LAST	CHAI	NGE	FUT OI	VLM
GC Apr27'22 @NYMEX	• 1973.80	-7.20	-0.36%	1.74K	66	MGC Apr27'22 @NYMEX	c <b>1981.00</b>			3.64K	
GC May26'22 @NYMEX	• 1976.10	-5.80	-0.29%	3.51K	233						
GC Jun28'22 @NYMEX	• 1979.30	-5.40	-0.27%	479K	68.1K	MGC Jun28'22 @NYMEX	1979.40	-5.30	-0.27%	21.6K	27.7K
GC Aug29'22 @NYMEX	• 1986.30	-5.20	-0.26%	48.3K	1.60K	MGC Aug29'22 @NYMEX	1986.20	-5.30	-0.27%	1.10K	155
GC Oct27'22 @NYMEX	• 1991.90	-6.20	-0.31%	12.8K	31	MGC Oct27'22 @NYMEX	1989.60	-8.50	-0.43%	755	27
GC Dec28'22 @NYMEX	• 2000.30	-5.40	-0.27%	28.9K	90	MGC Dec28'22 @NYMEX	2001.00	-4.70	-0.23%	2.63K	47
GC Feb24'23 @NYMEX	• 2010.20	-4.10	-0.20%	3.76K	2	MGC Feb24'23 @NYMEX	2006.10	-8.20	-0.41%	190	14

Stock Description —	Configure
Gold	
	FUT
Security Type	GC IND
Underlying Contract Month	DEC22
Expiration Date	DEC 28 '22
Last Trading Date	DEC 28 '22 13:30 EST
_	USD
Currency	100
Multiplier Exchange	NYMEX
	GC
Trading Class Symbol	GCZ2
Product Type	Metal
Settlement Method	Physical Delivery
Physical Delivery	
Priysical Delivery	Not permitted at Interactive Brokers
Trading Schedule: April	14, 2022 <u>Calendar</u>
Regular Trading Session	09:30 - 17:00 (21:30 - 05:00 your time)
	18:00* - 17:00 (06:00 - 05:00 your time)
	(UTC-05:00) US/Eastern
Note: Trader Workstation follows tin	nezone adjustments for daylight savings time
* Times in italics are on the calenda	r date preceding trade date



#### Sample Micro Gold Trade



Full-size gold also has options...



#### Trading gold via futures

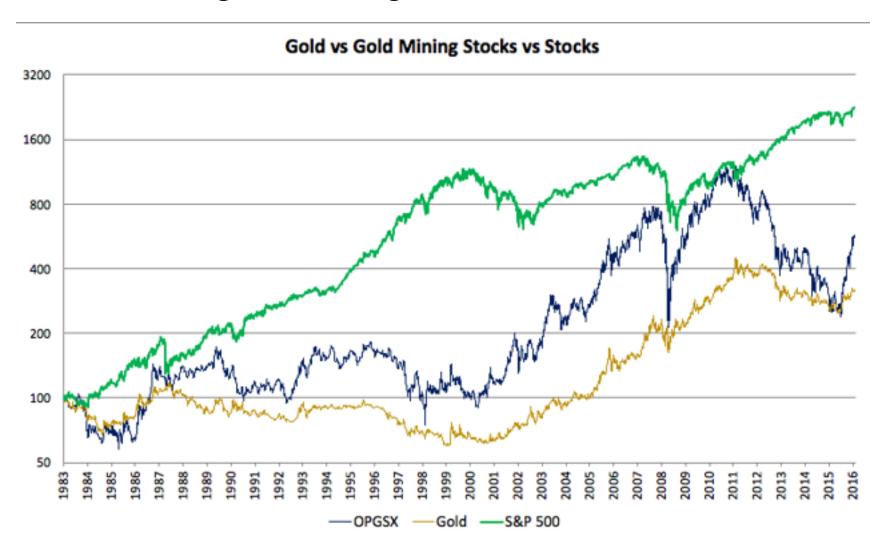
- Only need to fund margin
- Long leverage financing rate built in
- Short position as easy as long position
- What you see is what you pay
- Need to "roll" every contract expiry

#### ... vs an ETF

- Need to fund in full
- Margin loan to leverage long position
- Need to borrow shares to short
- Expense ratio charges gold reserves over time
- Can buy and hold "forever"



#### What about gold mining stocks?



Source: https://seekingalpha.com/article/4003777-why-gold-will-underperform-for-another-40-years-without-stagflation-despite-central-bank-etf



#### Oil vs Ether

- "Gas fees"
- Wide variety of uses & applications
- Supply has had more room to grow
- Demand based on usage

#### Gold vs Bitcoin

- "Scarcity as a Service"
- Only one element 79, only 21 million Bitcoin
- Supply curve related to the cost of "mining"
- Demand not related to usage
- More on Crypto in another presentation...



# Questions?

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