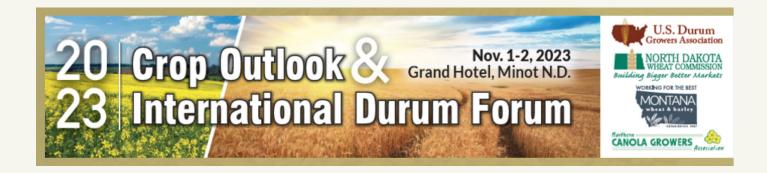


Geopolitics and the Upper Great Plains



Jacob Shapiro 1-2 November 2023 Minot, North Dakota, U.S.A.



Don't trust conventional opinions.



Private and confidential. // Cognitive Investments LLC is a registered investment advisor.



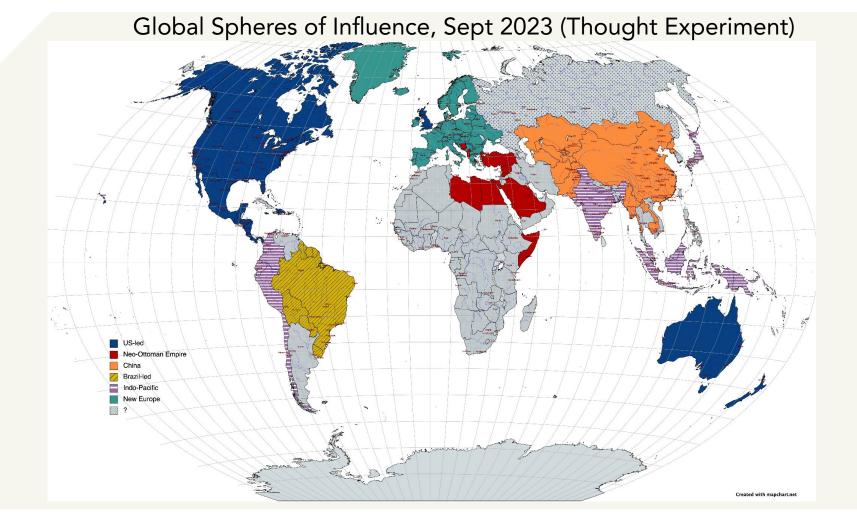
Never trust conventional opinions.



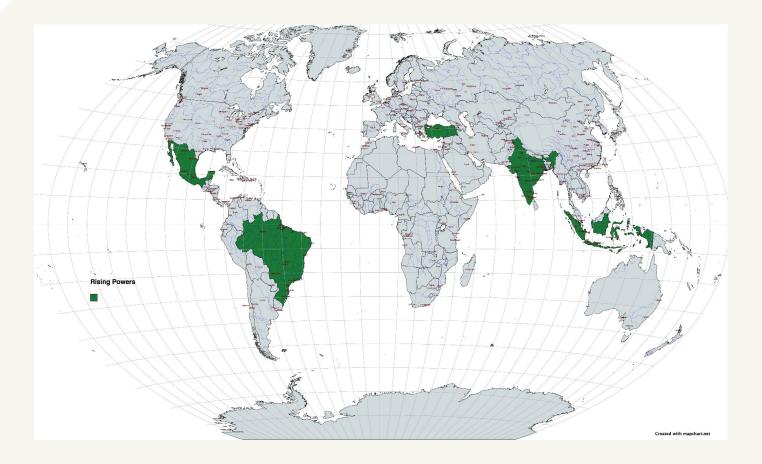


THE WORLD MAKES SENSE (I PROMISE)







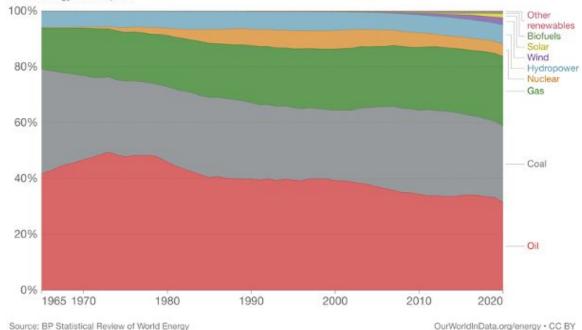




Energy consumption by source, World



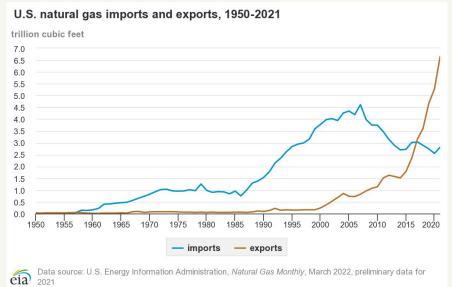
Primary energy consumption is measured in terawatt-hours (TWh). Here an inefficiency factor (the 'substitution' method) has been applied for fossil fuels, meaning the shares by each energy source give a better approximation of final energy consumption.

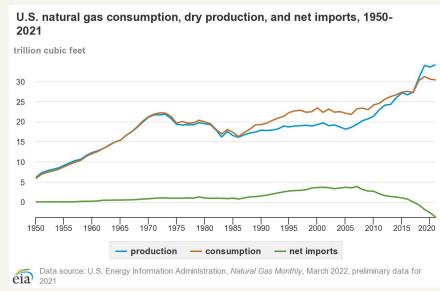


Note: 'Other renewables' includes geothermal, biomass and waste energy.

OurWorldInData.org/energy • CC BY



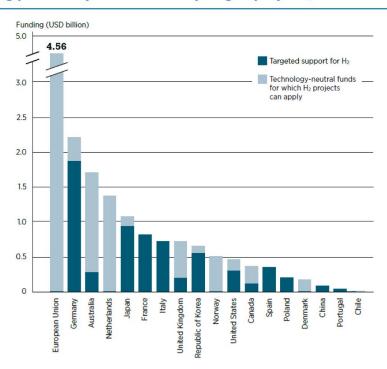






Average annual funding potentially available for hydrogen projects, 2021-2030

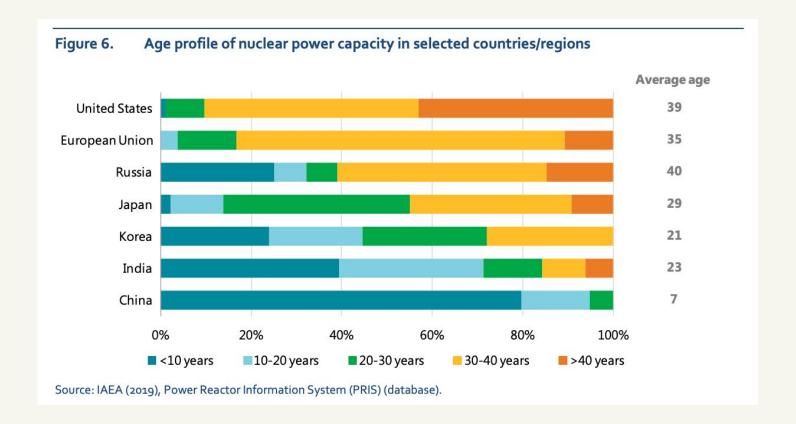




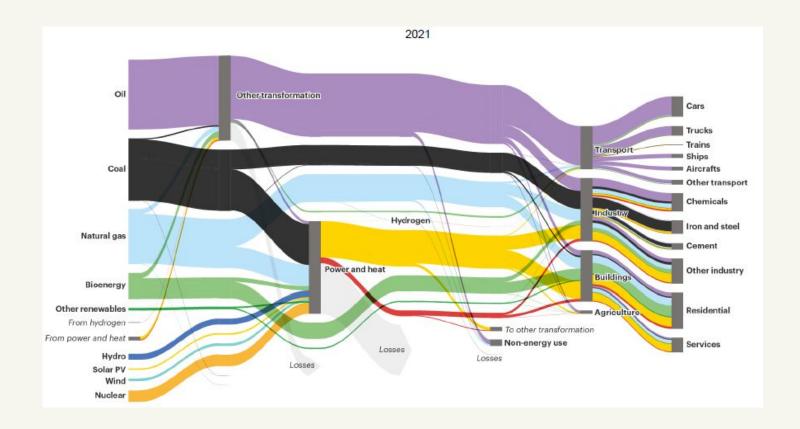
As of August 2021

12

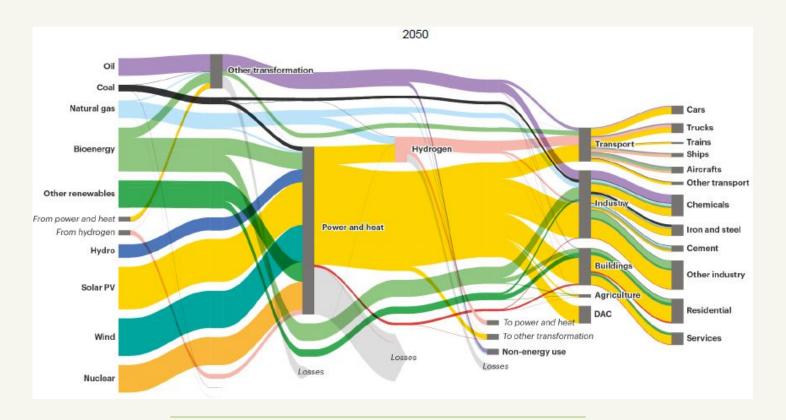






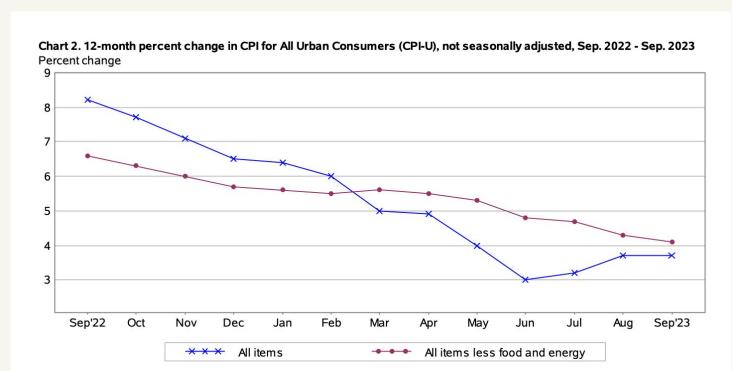






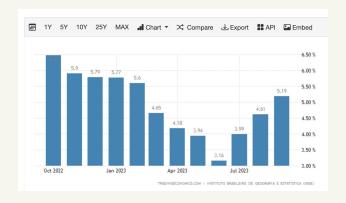


U.S. CPI





Brazil inflation



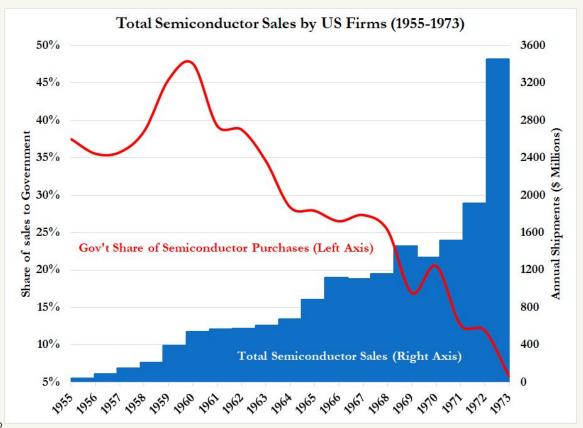
Nigeria inflation



Philippines inflation





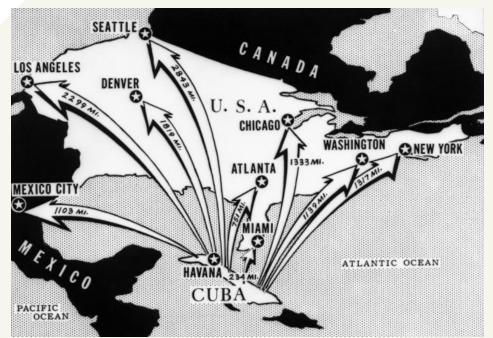


Source:

https://employamerica.medium.co m/a-brief-history-of-semiconducto rs-how-the-us-cut-costs-and-lost-t he-leading-edge-c21b96707cd2



= Cold War







Beyond Borders: Semiconductors are a Uniquely Global Industry

Typical semiconductor production process spans multiple countries: 4+ Countries, 4+ States, 3+ trips around the world, 25,000 miles travelled, 100 days TPT, 12 days in transit



Source: UN Comtrade and Taiwan Customs Administration, Ministry of Finance; Year of 2014

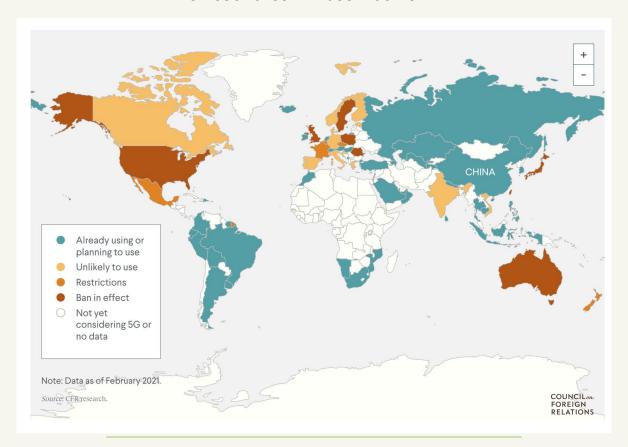
Semiconductor goods defined by HS Codes: 8541 (Diodes, Transistors, and Similar Semiconductors); 8542 (Electronic Integrated Circuits)

Fabrication materials goods defined by HS Codes: 280429 (Rare gases other than Argon); 280430 (Nitrogen); 280461 (Silicon (>99.99% pure)); 280469 (Silicon (<99.99% pure)); 28047 (Phosphorus); 851680 (Resist); 903141 (Photomasks)

Assembly, test, packaging goods defined by HS Codes: 3506 (Glues and Adhesives); 854710 (Ceramic Packaging)



Which countries will use Huawei?





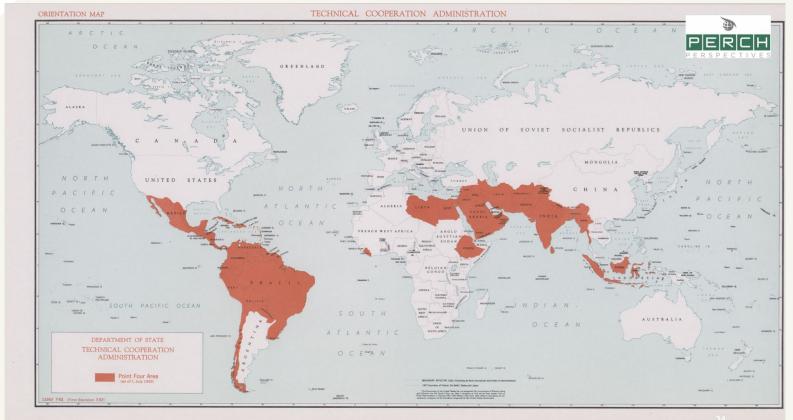




Source: United States
Department of
Agriculture and the
Bureau of Education,
published in 1918.
Via the Human Ecology
Collection, University of
Wisconsin Digital
Collections.

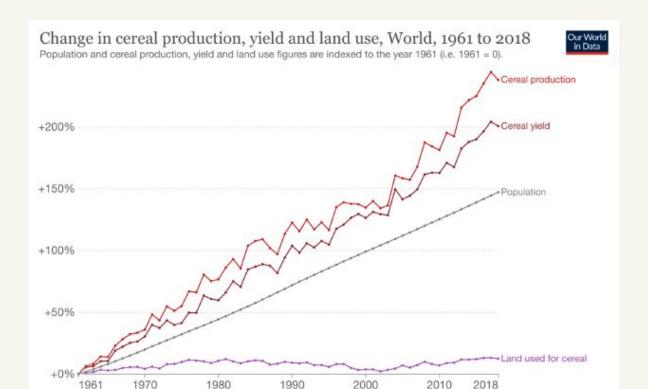






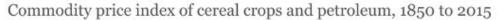
DECLASSIFIED Authority E.O. 13526 NND 76630





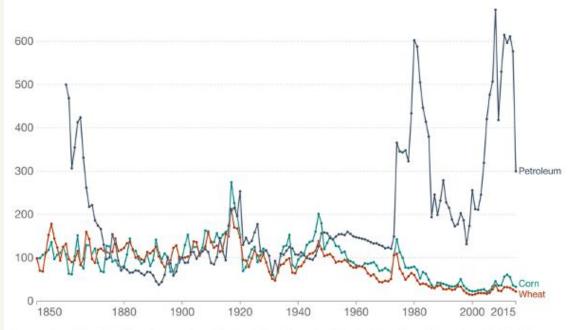
Source: Our World in Data based on World Bank, Food and Agriculture Organization of the United Nations Our/WorldInData.org/crop-yields • CC BY







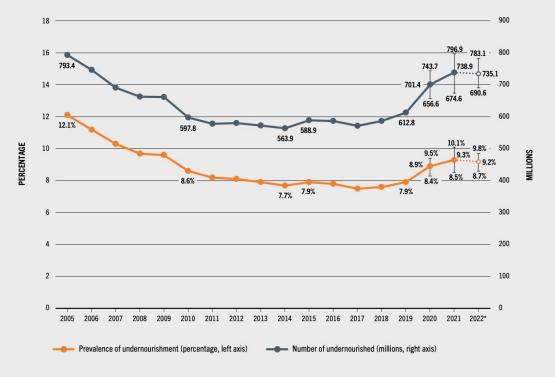
Global commodity price index of cereal crops and petroleum, measured relative to real prices in 1900 (where 1900 = 100).



Source: Jacks, D.S. (2019), "From Boom to Bust: A Typology of Real Commodity Prices in the Long Run." Cliometrica 13(2), 202-220. OurWorldInData.org/food-prices/ • CC BY



FIGURE 1 GLOBAL HUNGER REMAINED VIRTUALLY UNCHANGED FROM 2021 TO 2022 BUT IS STILL FAR ABOVE PRE-COVID-19-PANDEMIC LEVELS



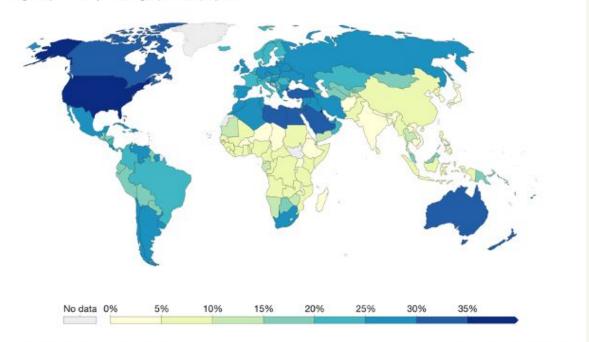
NOTES: * Projections based on nowcasts for 2022 are illustrated by dotted lines. Bars show lower and upper bounds of the estimated range. SOURCE: FAO. 2023. FAOSTAT: Suite of Food Security Indicators. In: FAO. [Cited 12 July 2023]. www.fao.org/faostat/en/#data/FS







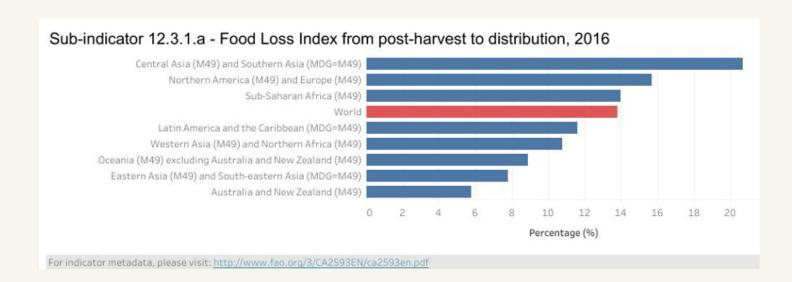
Obesity is defined as having a body-mass index (BMI) equal to, or greater than, 30. BMI is a person's weight (in kilograms) divided by their height (in meters) squared.



Source: WHO, Global Health Observatory

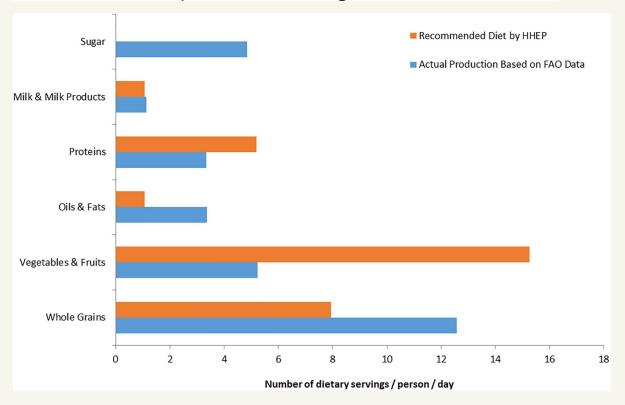
OurWorldInData.org/obesity • CC BY







Does current food production meet global nutritional needs?





GEOPOLITICS TODAY



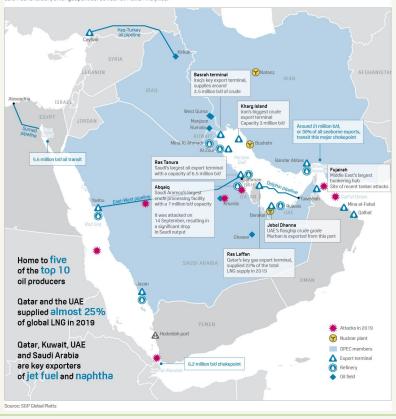




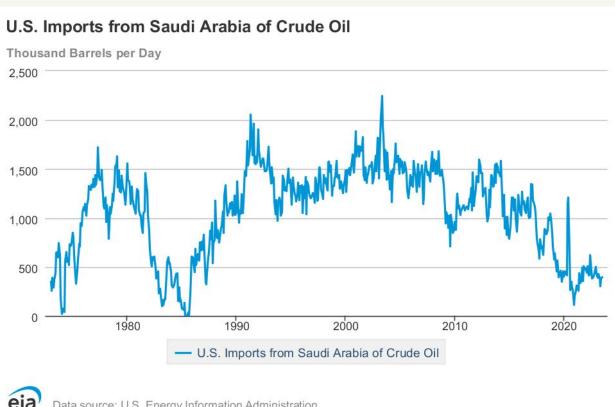


IRAN CRISIS PUTS FOCUS ON MIDDLE EAST ENERGY SECURITY

Oil continues to price in a risk of Iran retaliating for the killing of General Qassem Soleimani. S&P Global Platts Analytics estimates the risks of a broader US-Iran conflict below 50/50, but there is growing concern over the security of energy infrastructure in the Gulf and Strait of Hormuz. "Despite anxiety throughout the region over a possibly imminent retaliation, Iran is likely to respond indirectly at a time of its choosing," said Paul Sheldon, chief geopolitical advisor at Platts Analytics.









Data source: U.S. Energy Information Administration



SETTLING SCORES





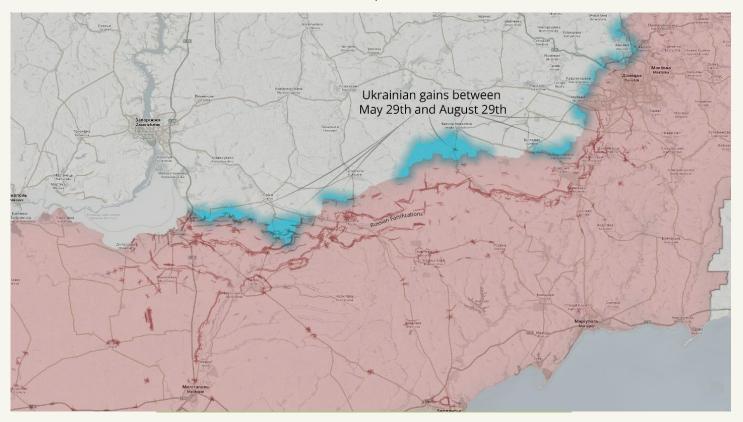








Ukrainian gains between May 29th-August 29th. Source: Nathan Ruser, based on data from DeepState, an established Ukrainian OSINT source



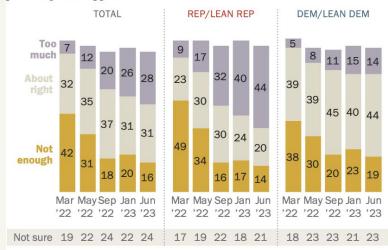






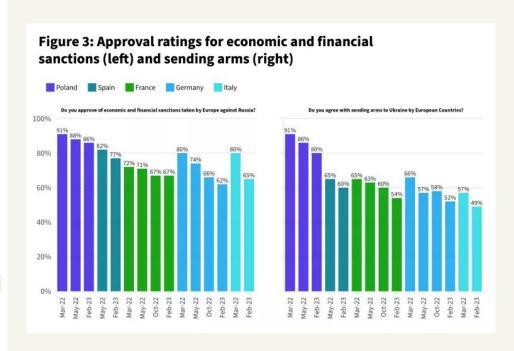
Since Russia's invasion, Republicans have grown increasingly skeptical of U.S. aid level to Ukraine

% who say, when it comes to Russia's invasion of Ukraine, the U.S. is providing ____ support to Ukraine



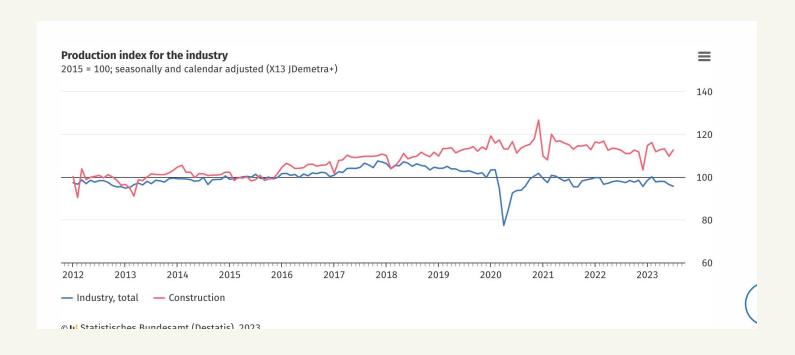
Note: No answer responses not shown. Source: Survey of U.S. adults conducted June 5-11, 2023.

PEW RESEARCH CENTER



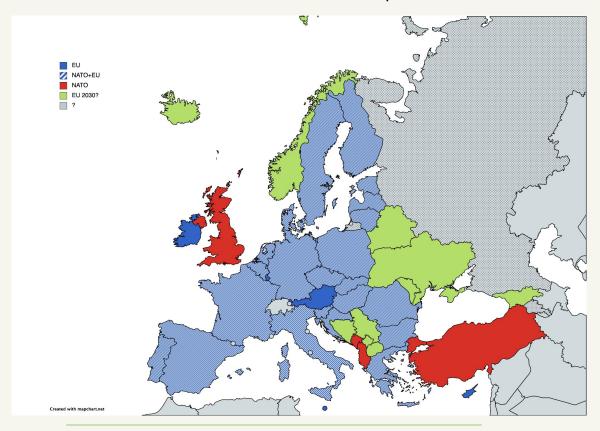


German Industrial Production 2012-2023





The Future of Europe





China's Perspective

Section 2 The Maturation of China



Source: Earthstar Geographics, U.S. National Park Service

-

© 2016 Geopolitical Futures



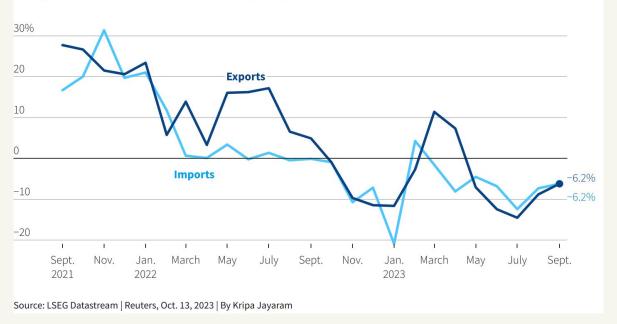




Not out of the woods yet

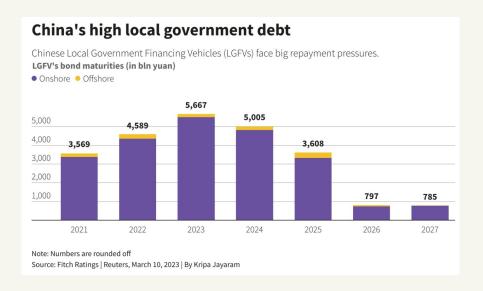
The contraction in China's exports and imports slowed down in September as both shrank by 6.2% from a year earlier.

Change in dollar-denominated exports and imports (Y/Y)



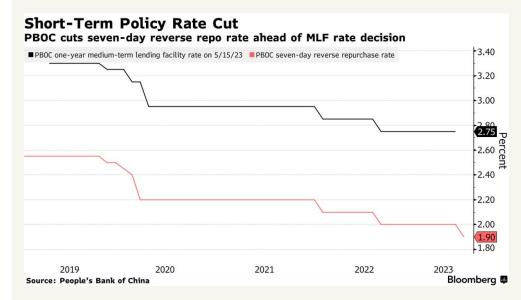
Private and confidential. // Cognitive Investments LLC is a registered investment advisor.

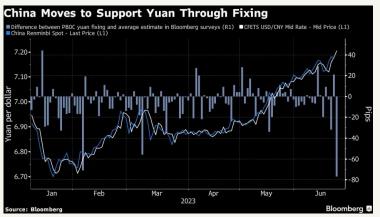




The total debt of China's LGFVs has swelled to a record 66 trillion yuan (\$9.5 trillion), equivalent to half of the country's economy, from 57 trillion yuan last year, according to an International Monetary Fund (IMF) report last month. (Source: Reuters) U.S. = \$3.244 trillion = 14%





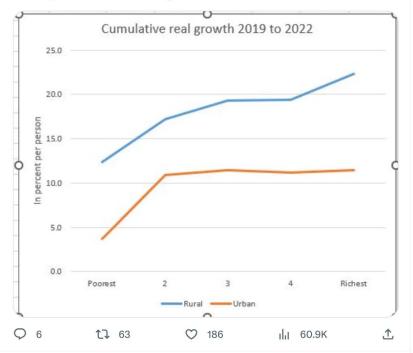




the Branko Milanovic reposted

Branko Milanovic @Branko Milan · Aug 26

According to the newly-released Chinese data, overall real incomes in 2022 are 14% higher than in 2019 (before covid). The increase has been much stronger in rural than in urban areas. It is noticeable that the bottom urban quintile has almost not grown at all.







CNN Poll, July 2022-2023: "Do you think that Joe Biden legitimately won enough votes to win the presidency, or not?"

Inden

96 percent of Democrats say, "Yes." 71 percent of Republicans say, "No."

	Total	Demo- crat	endnt Other	Repub lican	Lib- eral	Mode- rate	serva tive
	=====	=====	=====	=====		=====	=====
Biden legitimately won the presidency (Net)	61%	96%	60%	27%	92%	71%	29%
Biden did not legitimately win presidency (Net)	38%	42	39%	71%		29%	69%
Not legitimate, Solid evidence	19%	1	16%	41%	2%	13%	38%
Not legitimate, Suspicion only	19%	2	23%	30%	5%	15%	31%
Not legitimate, No opinion	*	*	*	*	0%	*	1%
No opinion	1%	*	1%	2%	1%	1%	2%
Sampling Error (+/-)	3.7	6.4	6.3	6.5	7.7	5.5	6.5















BIGGEST EXPORT TRADING PARTNER China Canada China Canada Canada Brazil Canada Mexico Canada Mexico **Emirates** Canada Mexico Canada Mexico Australia

4 minute read · March 27, 2023 6:41 PM CDT · Last Updated 21 days ago

Exclusive: US plans ultimatum in Mexico energy dispute, raising threat of tariffs

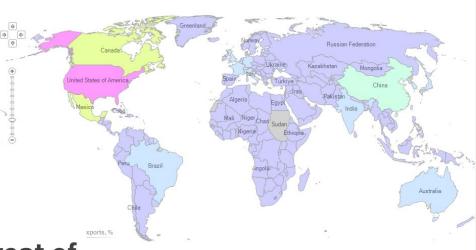
By Jarrett Renshaw and David Lawder

US looking at 'all options' over corn dispute with Mexico, says official

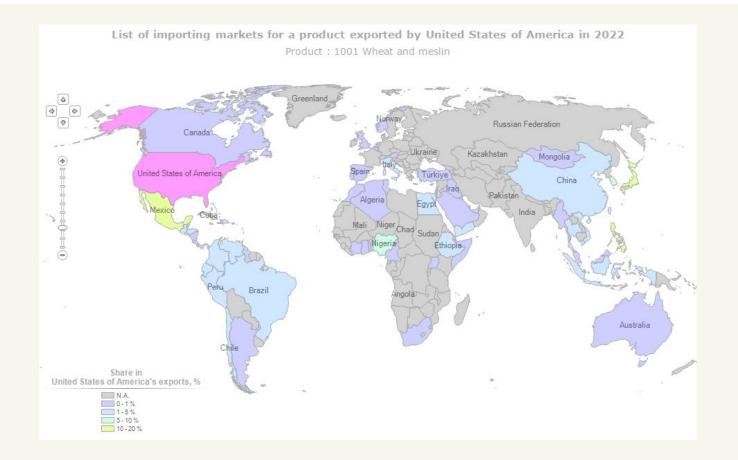
By Andrea Shalal

List of importing markets for a product exported by United States of America in 2021

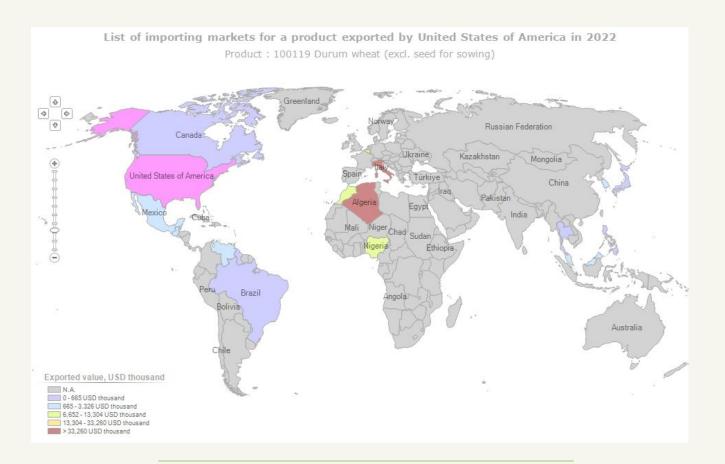
Product : TOTAL All products







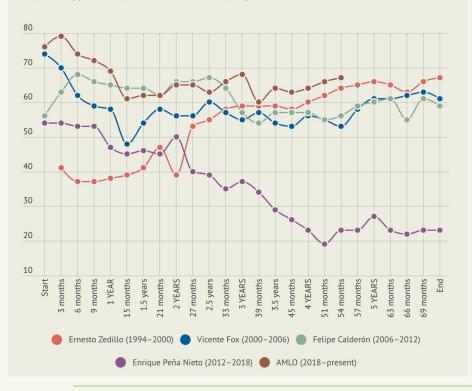






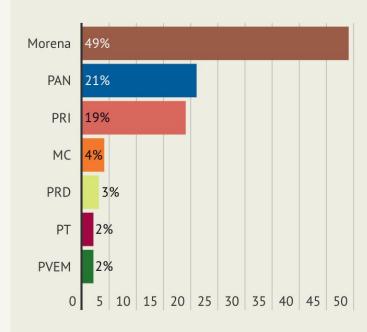
Where does AMLO stand with respect to other presidents?

The firm <u>also charts</u> the approval ratings of AMLO along with those of his four predecessors over time. Below are approval levels at the conclusion of each quarter.

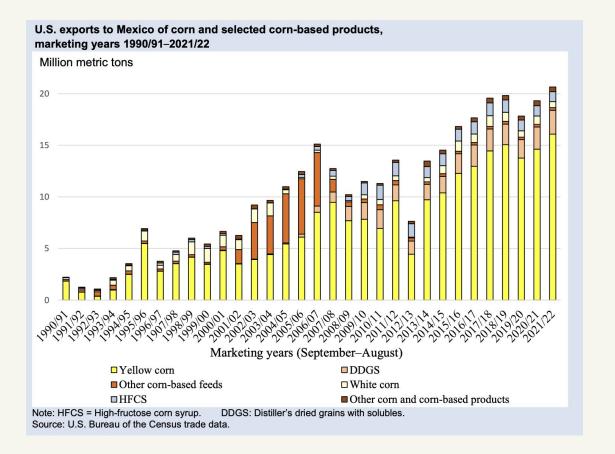




Party Support: "If the election for the president of the republic were held today, for which party would you vote?"

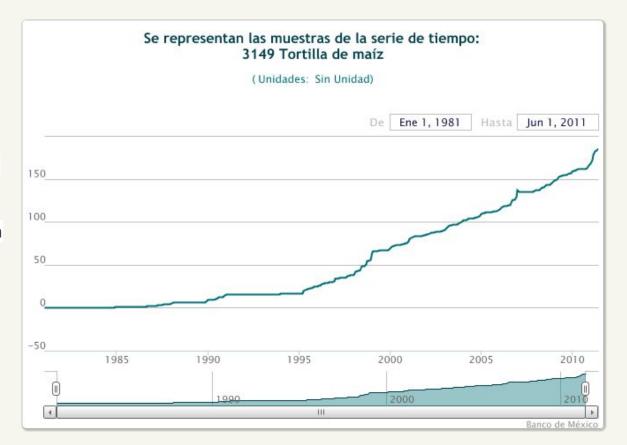






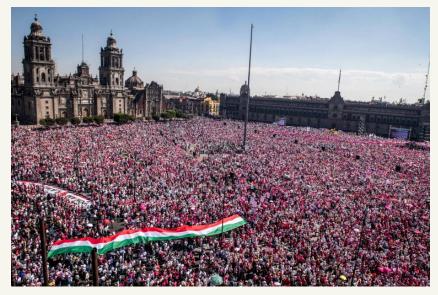


"What it is about is consolidating sovereignty and food security in a central input in the culture of Mexicans."











SO WHAT?



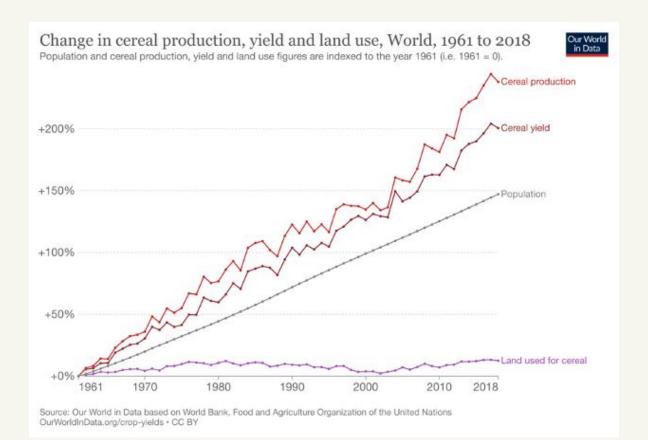
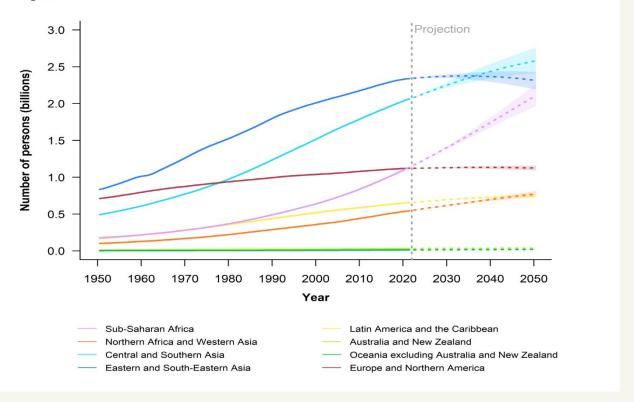




Figure I.2

Population estimates, 1950-2022, and projections with 95 per cent prediction intervals, 2022-2050, by region



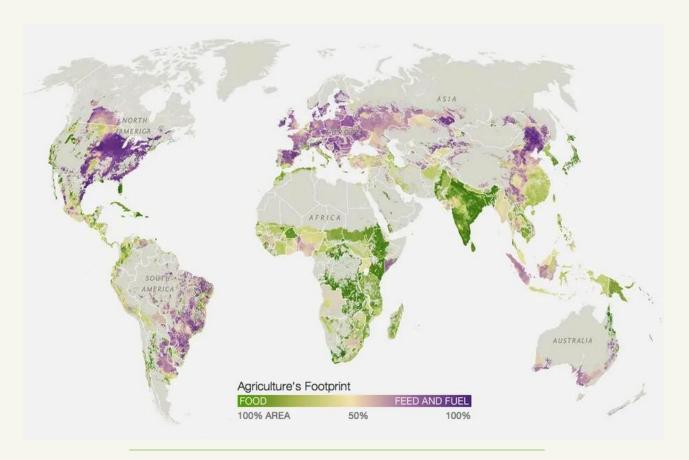


Food Self-Sufficiency



Source: https://ars.els-cdn.com/content/image/1-s2.0-S0306919 216305851-gr2_lrg.jpg

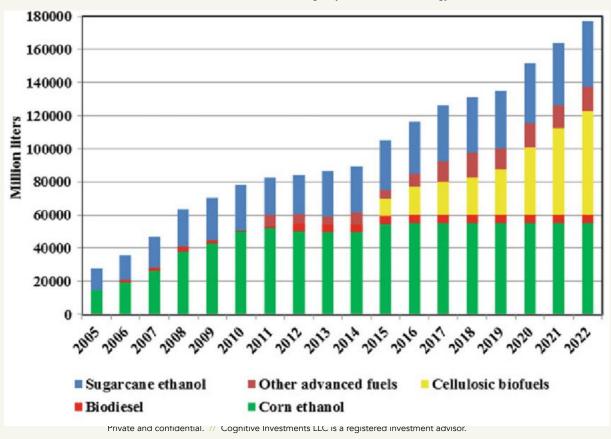




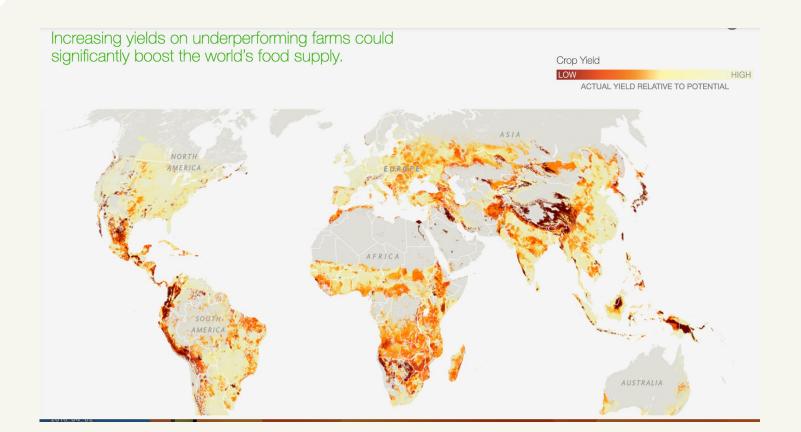


Global Biofuels Production 2005-2022

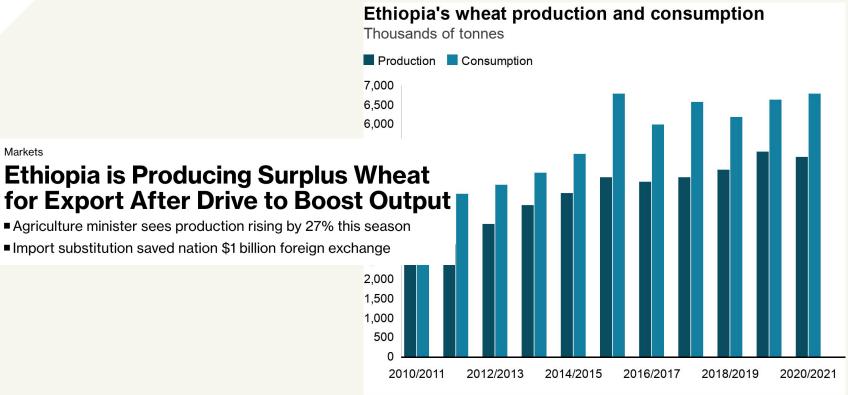
Source: OECD/FAO, United States Environmental Protection Agency, United States Energy Information Administration







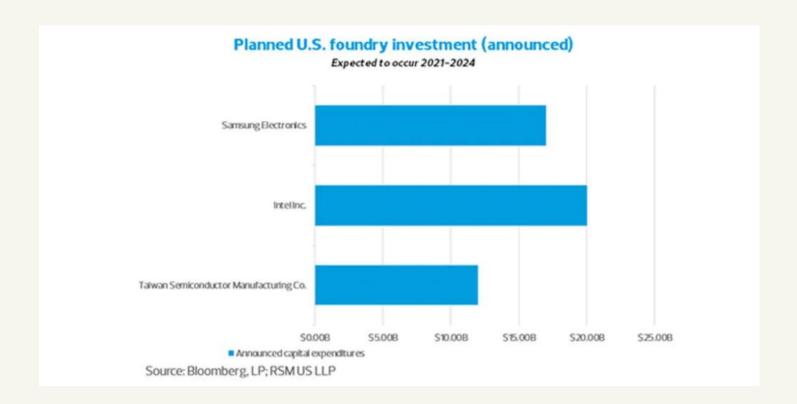




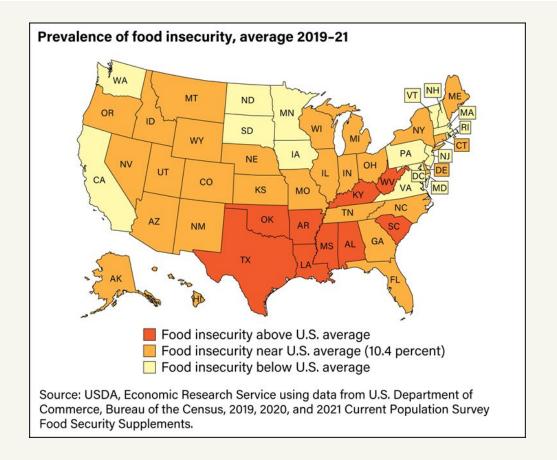
Source: United States Department of Agriculture













Wall Street,
West, from but
not including
William Street,
to Broadway.
Showing Trinity
Church in the
background,
1896.
Ewing Galloway.





Times Square 1911 Source: Getty





A&D

Sign up for Global Situation Report:



www.cognitive.investments