JANUARY 2023 ISSUE NO. 2

VIEWS

A NEWSLETTER BY VIZUALYTIKS

A SNAPSHOT OF 2022

Events that shaped 2022

WHAT TO EXPECT IN 2023

Trends that could shape the future

vizualytiks

TABLE OF CHARTS

SNAPSHOT OF 2022

01

A review of the top trending google search terms, events and people in 2022

FTX
FINANCE

FTX, the world's 3rd largest cryptocurrency exchange (at the time) filed for bankruptcy in November 2022 due to a liquidity crunch in excess of $8billion. Its Founder, "SBF" has been arrested on fraud charges

HOUSE OF THE DRAGON
TV SERIES

An estimated $20million per episode was rumored to be the production cost of House of Dragon TV show

GAS PRICES & INFLATION
PERSONAL FINANCES

QATAR FIFA WC 2022
SPORTS

The Qatar WC is the most expensive WC ever costing over $200billion

RISHI SUNAK & LIZ TRUSS
POLITICS

After a disastrous mini budget presentation, Liz Truss became the shortest serving PM in British history with Rishi Sunak (her successor) becoming the first PM of Indian heritage

UKRAINE
NEWS

In February, Russia invaded Ukraine resulting in a global outcry and sanctions

NOVAK DJOKOVIC
AUSTRALIAN OPEN

Novak Djokovic was deported from Australia due to non-vaccination against COVID-19 hence could not participate in the Australian Open

POWERBALL NUMBERS
FINANCE

In early November, America's weeks-long Powerball fever broke when a single ticket in California won an eye-popping $2.04 billion jackpot

WORDLE
GAMES

Wordle was the most searched word on Google in 2022

RECESSION
ECONOMY

Recession ranked among top-5 "definitions" in 2022

US MIDTERM ELECTION RESULTS
POLITICS

SOURCE: Google Trends

GDP GROWTH IN 2023

02

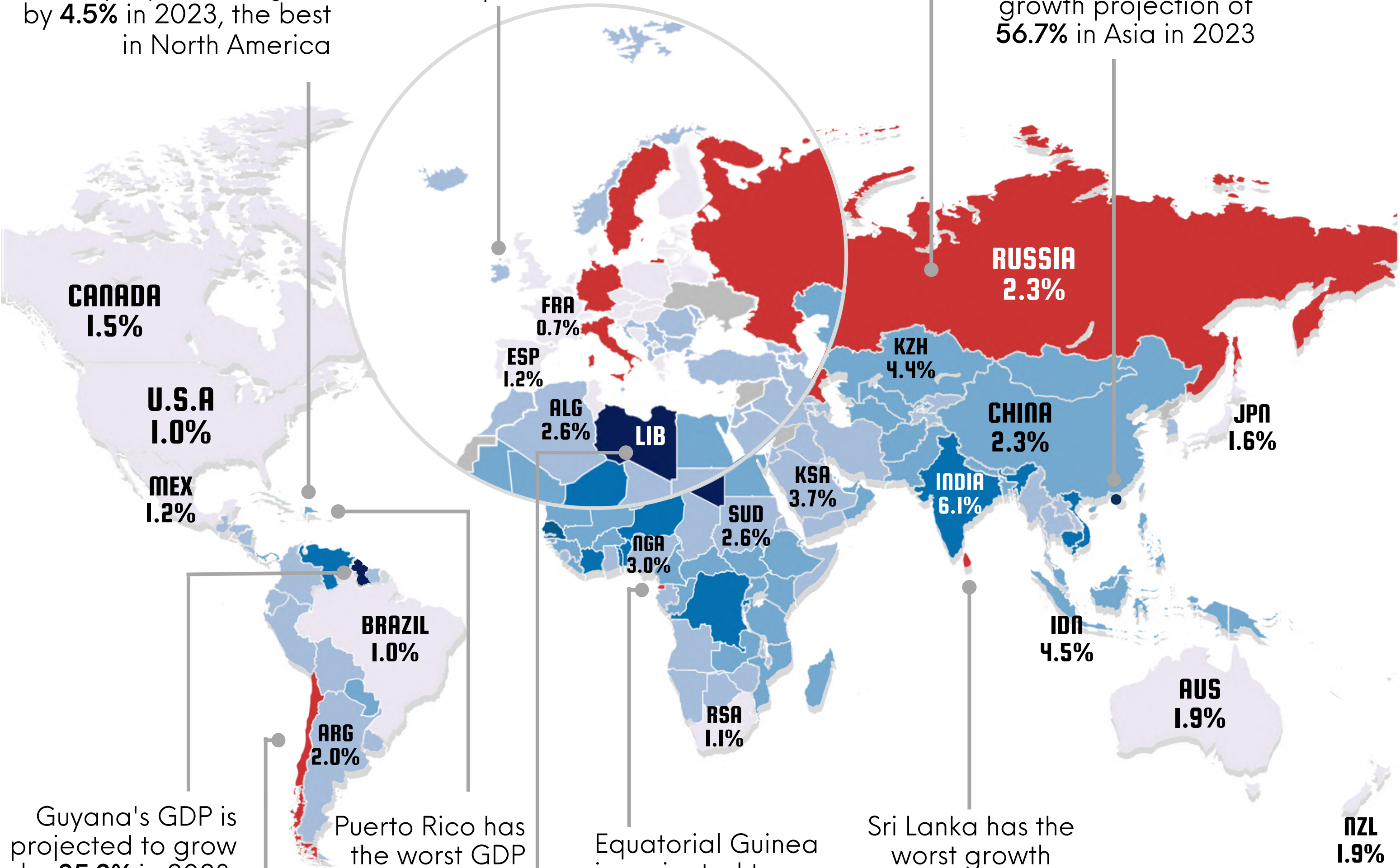
As at IMF's most recent 2023 World Economic Outlook (done in October 2022), there were no GDP growth forecasts for Cuba, Afghanistan, Lebanon, Syria and Ukraine

Dominican Republic's GDP is projected to grow by **4.5%** in 2023, the best in North America

Ireland has the best growth projection of **4.0%** in Europe in 2023

Russia's projected GDP decline of **-2.3%** is the worst in Europe in 2023

Macao has the best growth projection of **56.7%** in Asia in 2023



Guyana's GDP is projected to grow by **25.2%** in 2023, the highest in South America

Puerto Rico has the worst GDP growth of **0.4%** in North America in 2023

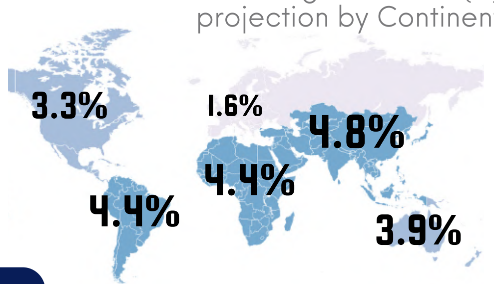
Equatorial Guinea is projected to have the worst economic decline of **-3.1%** in 2023

Sri Lanka has the worst growth projection of **-3.0%** in Asia in 2023

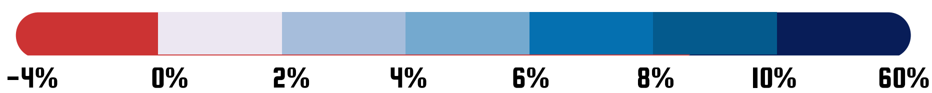
Chile's projected GDP decline of **-1%** is the worst in South America in 2023

Libya is projected to have the best economic growth of **17.9%** in Africa in 2023

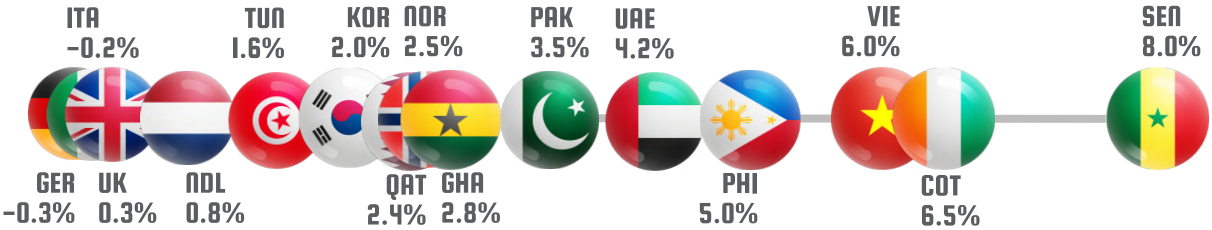
2023 GDP growth rate (%) projection by Continent



GDP GROWTH FORECASTS (%)



GDP growth (%) forecasts of some other countries



All percentages represent 2023 GDP growth forecasts per country

SOURCE: IMF

INFLATIONARY TRENDS IN 2023

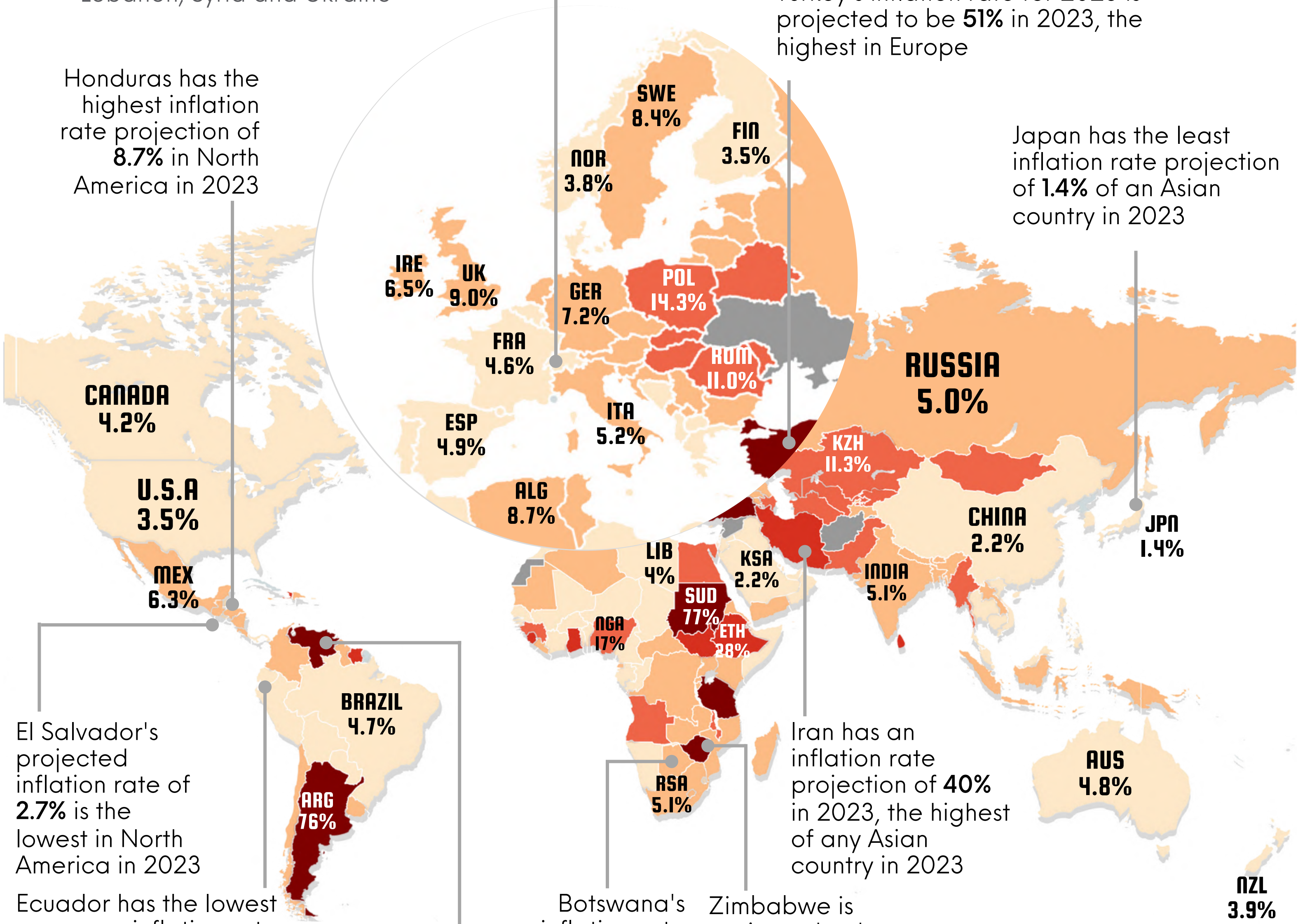
As at IMF's most recent 2023 World Economic Outlook (done in October 2022), there were no inflation forecasts for Cuba, Afghanistan, Lebanon, Syria and Ukraine

Switzlerland's inflation rate is projected to be **2.4%** in 2023, the lowest in Europe

Turkey's inflation rate for 2023 is projected to be **51%** in 2023, the highest in Europe

Honduras has the highest inflation rate projection of **8.7%** in North America in 2023

Japan has the least inflation rate projection of **1.4%** of an Asian country in 2023



El Salvador's projected inflation rate of **2.7%** is the lowest in North America in 2023

Iran has an inflation rate projection of **40%** in 2023, the highest of any Asian country in 2023

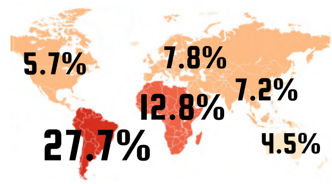
Ecuador has the lowest inflation rate projection of **2.4%** in South America in 2023

Botswana's inflation rate projection of **1.5%** is the least of any African country in 2023

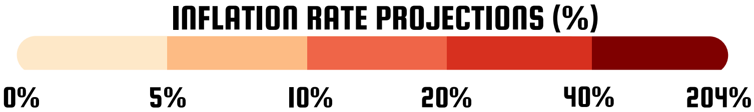
Zimbabwe is projected to have the worst inflation rate projection of **204%** in the World in 2023

Venezuela's inflation rate projection of **195%** is the highest in South America in 2023

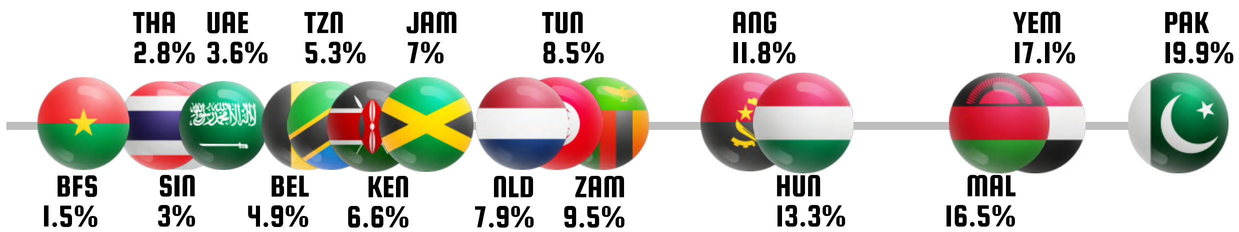
Average 2023 inflation rate (%) projections by Continent



INFLATION RATE PROJECTIONS (%)



Inflation rate projections of some other countries

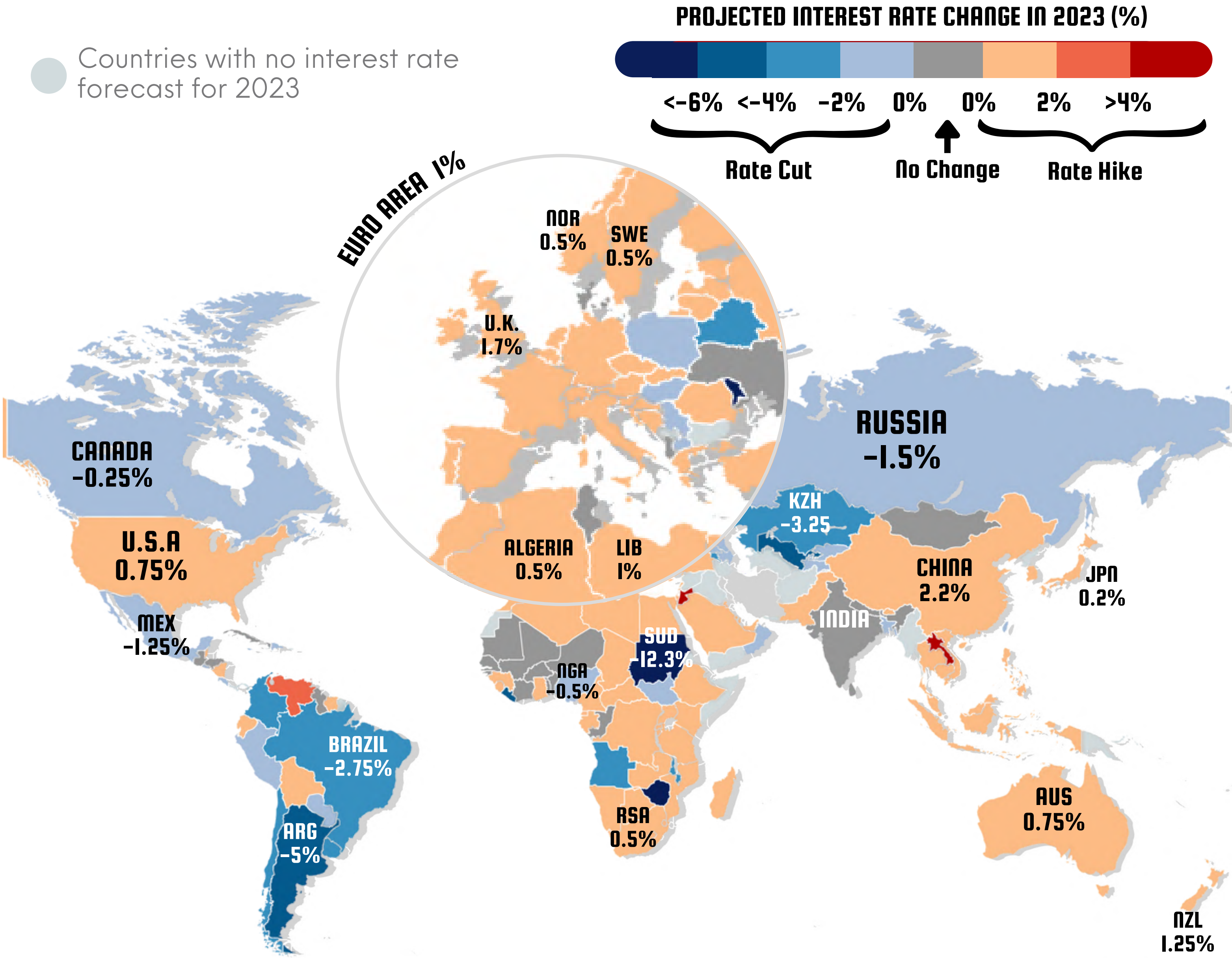


All percentages represent 2023 inflation rate projections per country

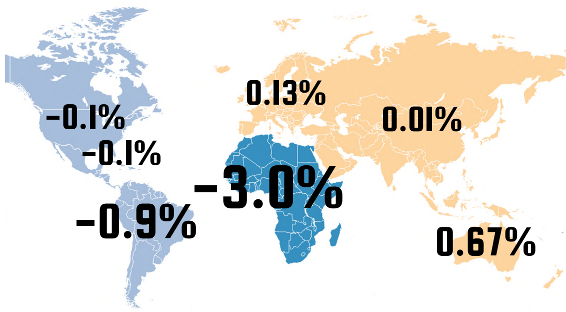
SOURCE: IMF

INTEREST RATES: HIKES & CUTS IN 2023

G4



Average projected interest rate change (%) in 2023 by Continent



In an effort to tame rising inflation in 2022, Central Banks raised interest rates which resulted in higher borrowing costs and higher housing prices

Out of the 163 countries with interest rate projections, 42 are expected to reduce interest rates, 90 are projected to increase interest rates while 31 wouldn't adjust rates

SOURCE: TradingEconomics

COMMODITY PRICE FORECASTS

05

All numbers refer to the price of the commodity per year

Commodity	2022 average closing price	2023 forecast price	2024 forecast price
COAL ($/MT)	320	240	212.3
BRENT CRUDE OIL ($/BBL)	100	92	80
NATURAL GAS ($/MMBTU)	40	32	28
GOLD ($/TOZ)	1,775	1,700	1,650
SILVER ($/TOZ)	21.3	21	21
NICKEL ($/MT)	25,000	21,000	20,708
COPPER ($/MT)	8,700	7,300	7,361
ALUMINIUM ($/MT)	2,700	2,400	2,434
PLATINUM ($/TOZ)	940	1,000	1,050
IRON ORE ($/DMT)	120	100	98
LEAD ($/MT)	2,100	1,900	1,917
COCOA ($/KG)	2.35	2.30	2.34
WHEAT ($/MT)	430	410	405
BEEF ($/KG)	5.9	5.8	5.82
COTTON ($/KG)	2.95	2.90	2.86
TOBACCO ($/MT)	4,200	4,100	4,116

HOW TO READ THIS:

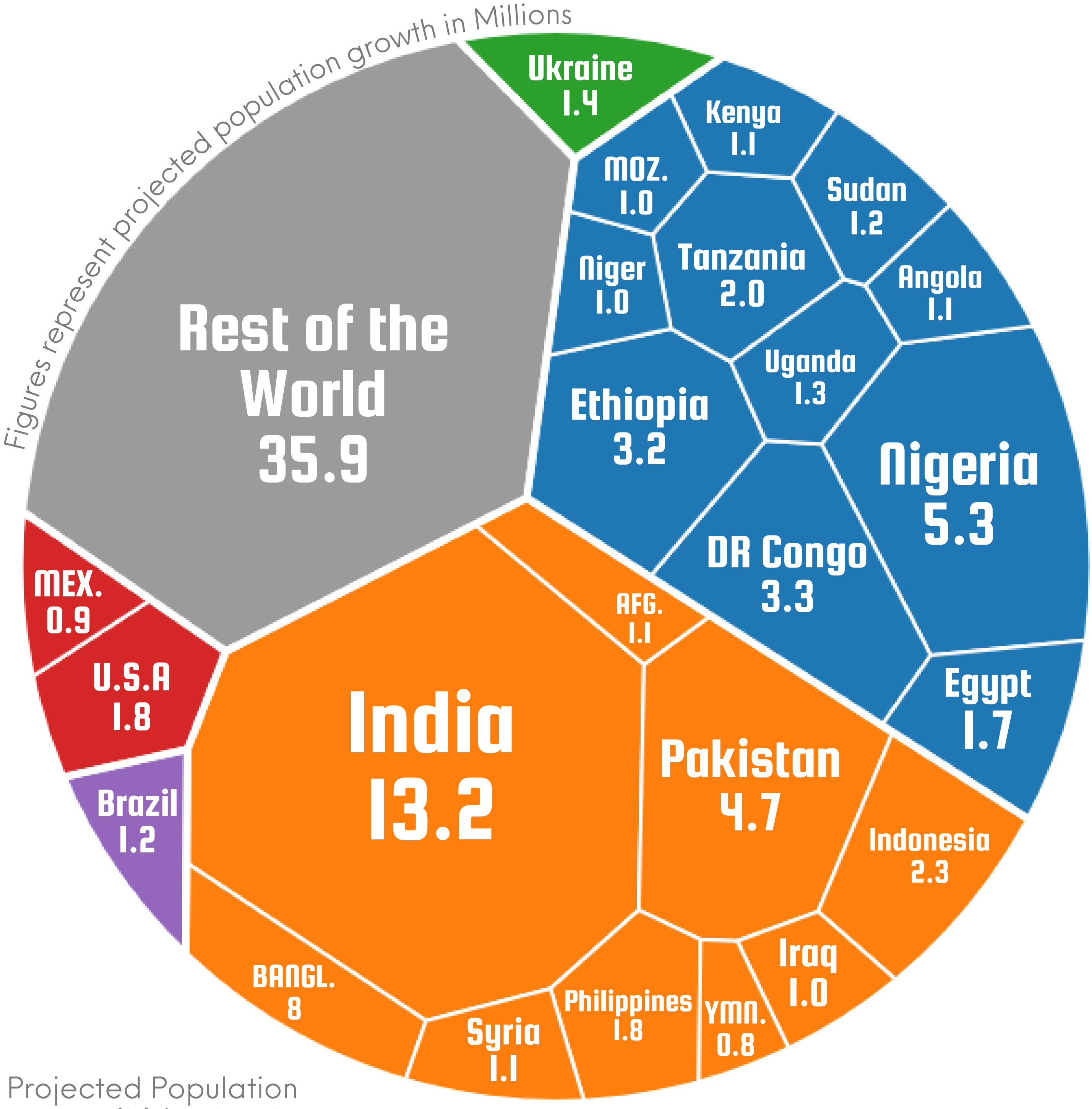
2022 average closing price
2023 forecast price
2024 forecast price

Color and size of circle indicate if the price within is an INCREASE or DECREASE from previous year

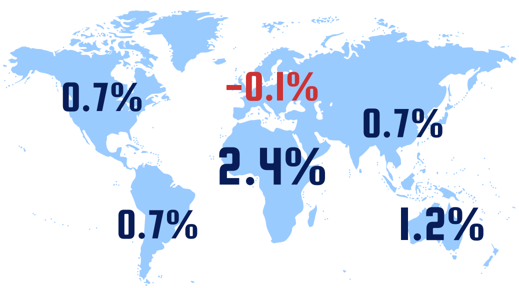
SOURCE: WorldBank

POPULATION GROWTH IN 2023

Based on median projections by the UN, the world's population is expected to grow by **73.5m (0.92%)** in 2023



Projected Population growth (%) by Continent



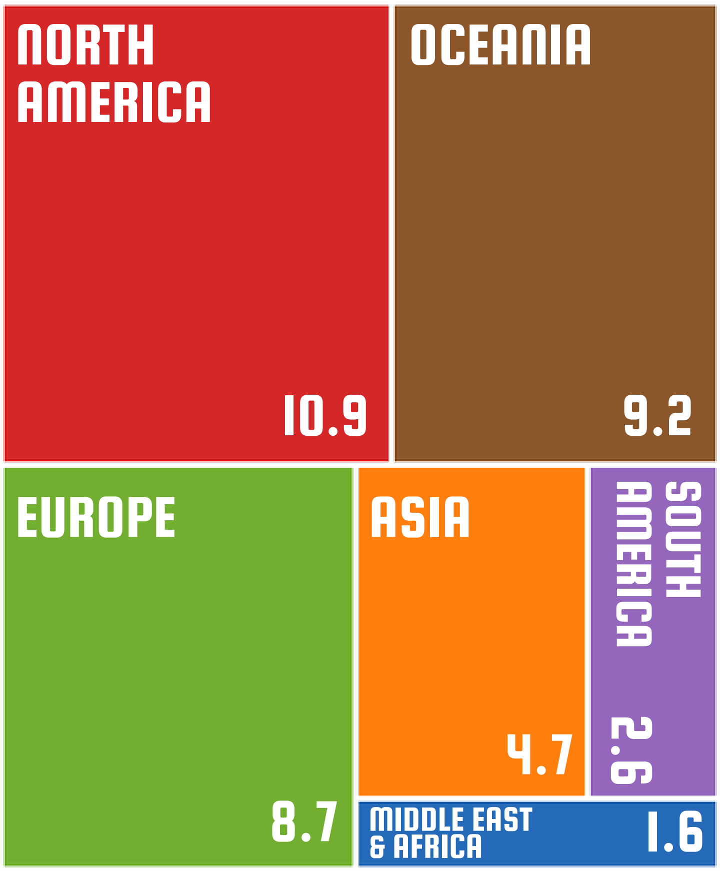
The countries listed above account for **~75%** of the world's projected population growth in 2023

SOURCE: UN

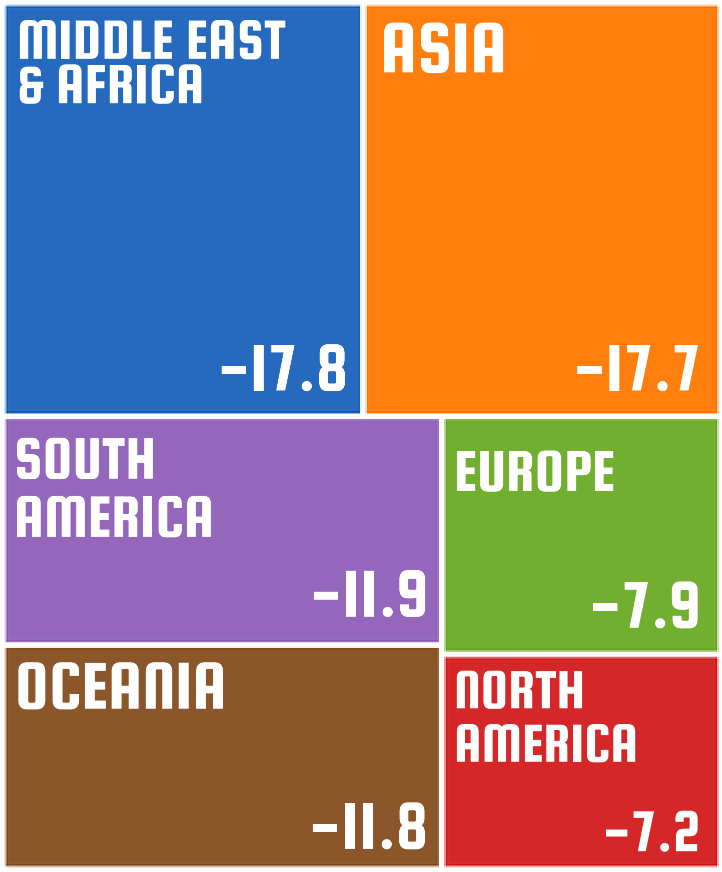
CLIMATE CHANGE: AN UNEVEN IMPACT

2050 PROJECTIONS

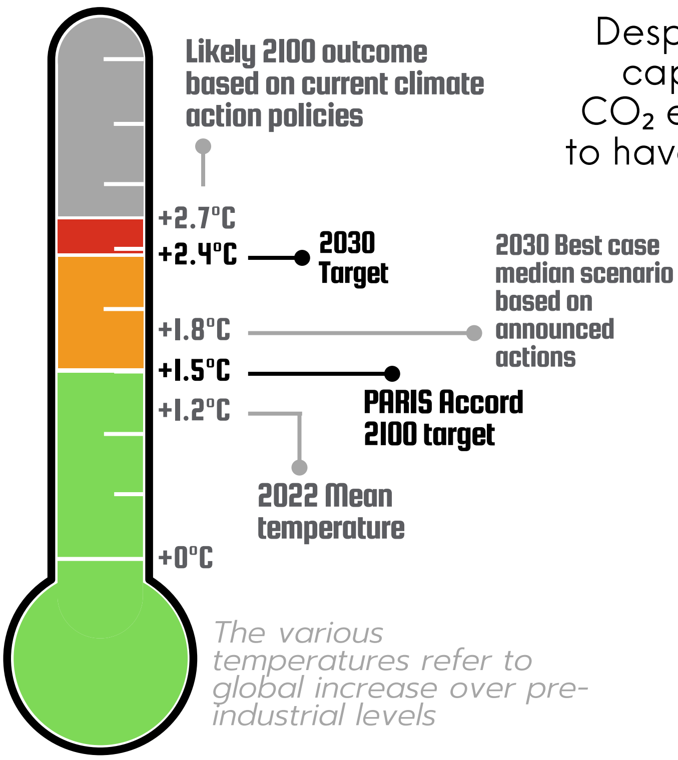
CO_2 EMISSIONS PER CAPITA (TONNES)



ECONOMIC LOSS FROM CLIMATE CHANGE (% CHANGE IN GDP)



Economic loss estimates are an average of the 2 economic loss projections if global temperatures rise by 2.0°C or 2.6°C



The various temperatures refer to global increase over pre-industrial levels

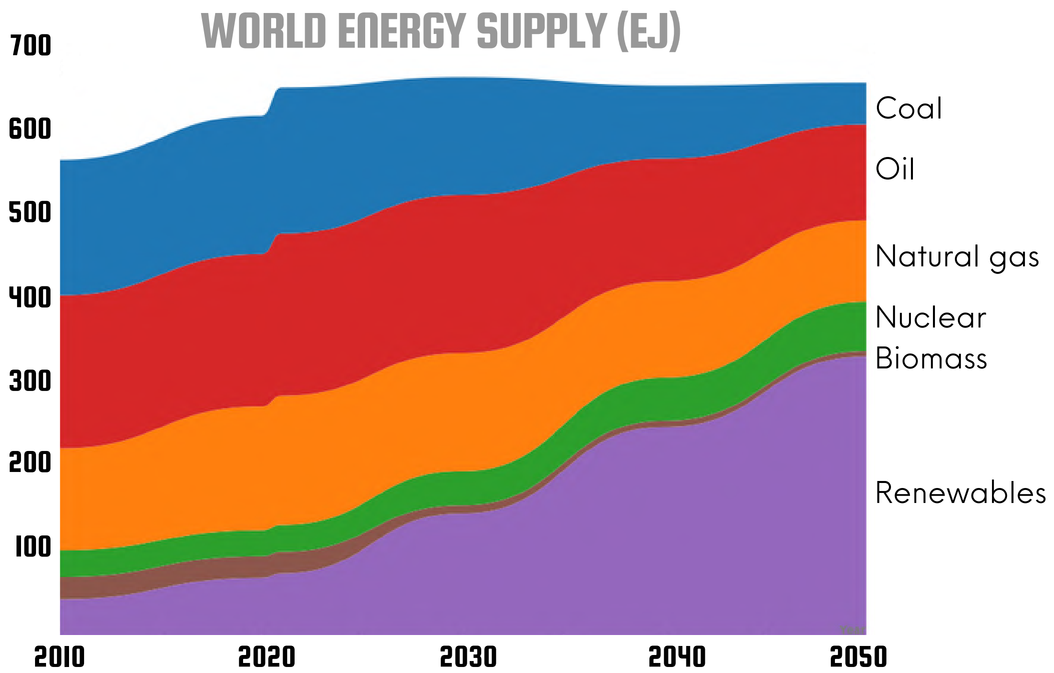
Despite the Middle East & Africa's CO_2 emissions per capita expected to be only **15%** of North America's CO_2 emissions per capita in 2050, they are projected to have significantly worse economic loss from climate change (in terms of % loss in GDP)

At the last United Nations Climate Change Conference "COP27", in Nov 2022, an agreement was reached to provide a “loss and damage” fund for vulnerable countries hit hard by climate disasters. This is driven by the fact that adapting to the climate crisis could cost developing countries US$565 bn by 2050.

SOURCES: Swiss Re | Statista | Global Carbon Budget 2022 | Climate Action Tracker | UNEP

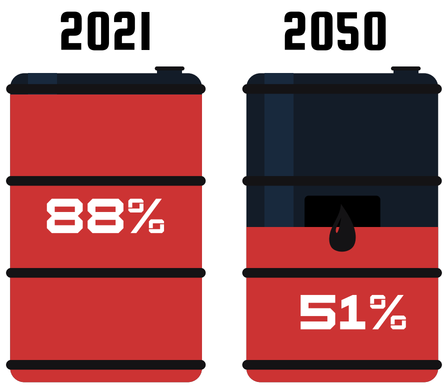
GLOBAL ENERGY TRANSITION

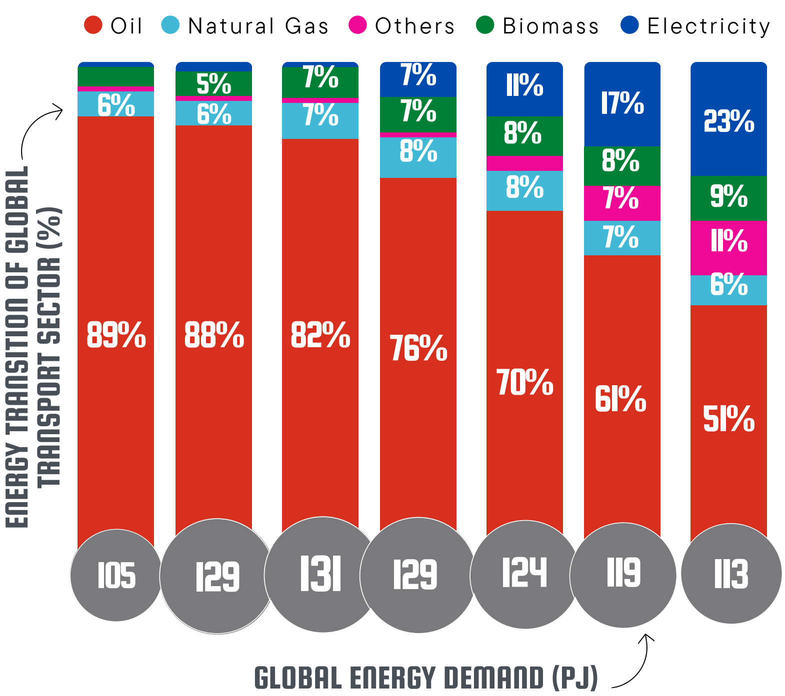
08

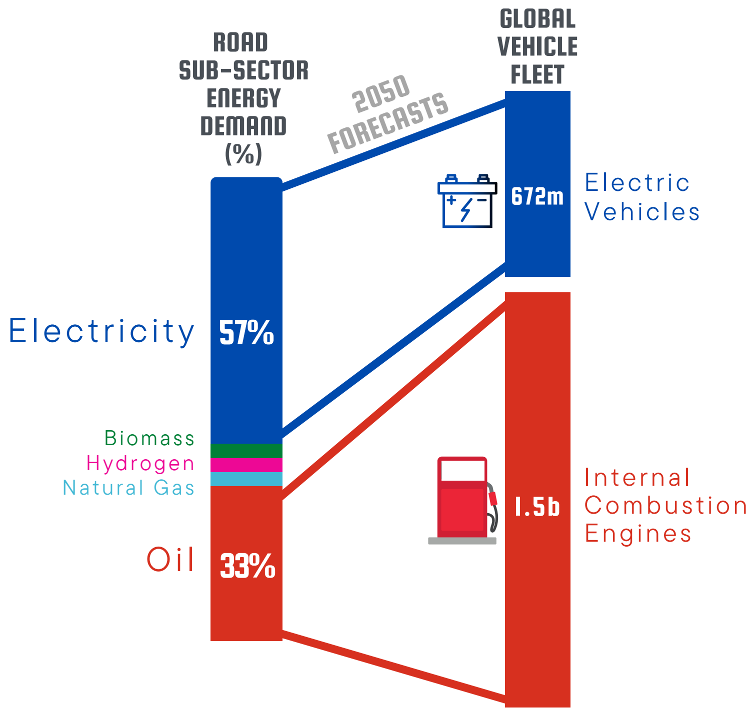


Based on announced pledges by various countries, the share of renewables to global energy supply is projected to increase from **12%** in 2021 to **22%** in 2030 and **50%** in 2050

The global oil demand by the transport sector is expected to reduce from **88%** (53Mbpd) in 2021 to roughly **51%** (29Mbpd) in 2050







The road sub-sector is a sub-sector of the transport sector which includes others such as aviation, maritime and rail

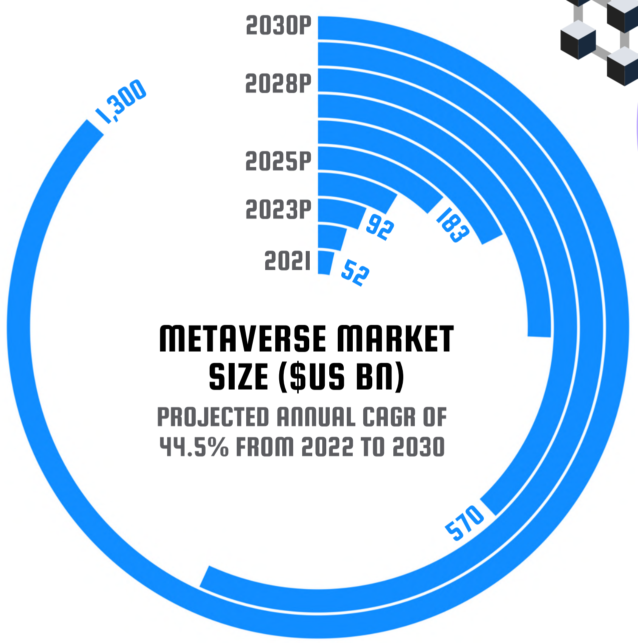
SOURCES: DNV | IEA | Electrek | EIA

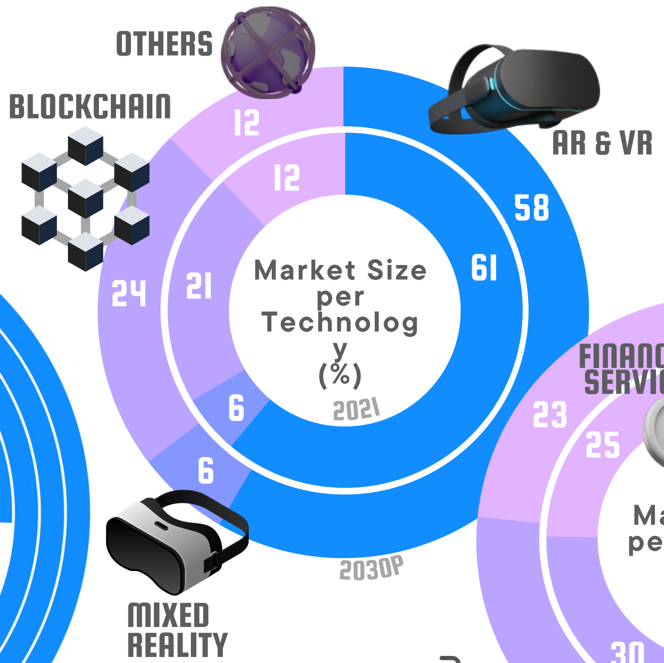
THE METAVERSE: THE FUTURE OR FICTION?

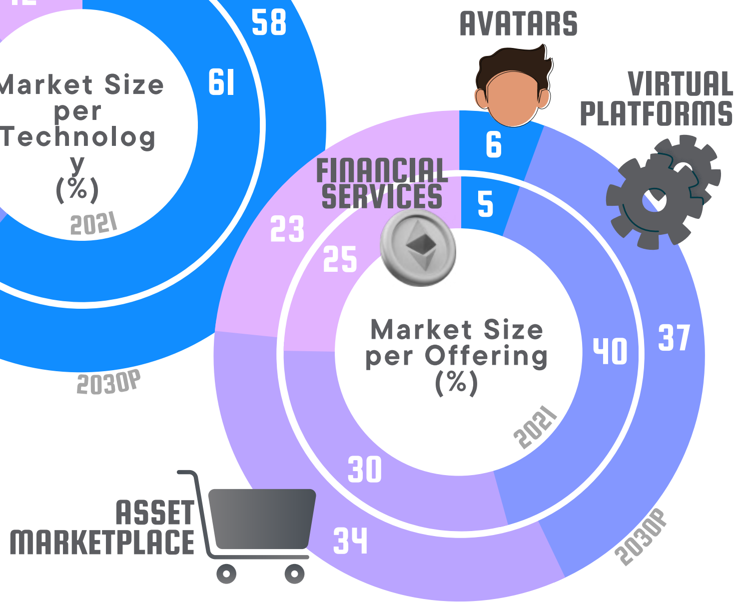
09

- **1982**: "Tron" is released, one of the first movies with Virtual Reality
- **1983**: Birth of the Internet
- **1991**: Virtual Group brings VR to the public
- **1997**: "Six Degrees", the first social networking site launches
- **1998**: "B-Money", first cryptocurrency system is introduced
- **2003**: "Second Life", the first platform allowing users to "live" in a virtual world is released
- **2006**: Roblox 3D Online game is released
- **2007**: Google introduces streetview
- **2009**: Blockchain is established with Bitcoin
- **2012**:
  - Launch of NFTs
  - Peloton releases internet-connected exercise equipments
- **2014**: First Oculus VR headset for customers
- **2015**: Ethereum is created
- **2016**: Snapchat bring AR to cellphones
- **2018**: "Ready Player One", a film imagining a full-fledged virtual world is released
- **2019**: Google Maps releases AR function
- **2021**:
  - Facebook rebrands to Meta
  - Google announces "Project Starline" allowing users to see 3D objects without lenses
  - Unity launches Metacast (RT3D) technology
- **2022**:
  - Microsoft buys Activision Blizzard for $70b
  - Samsung launches cryptowallet on Android

2030 estimates of the metaverse's market size range from US$1.3tn to $8tn. We have utilized the more conservative estimate

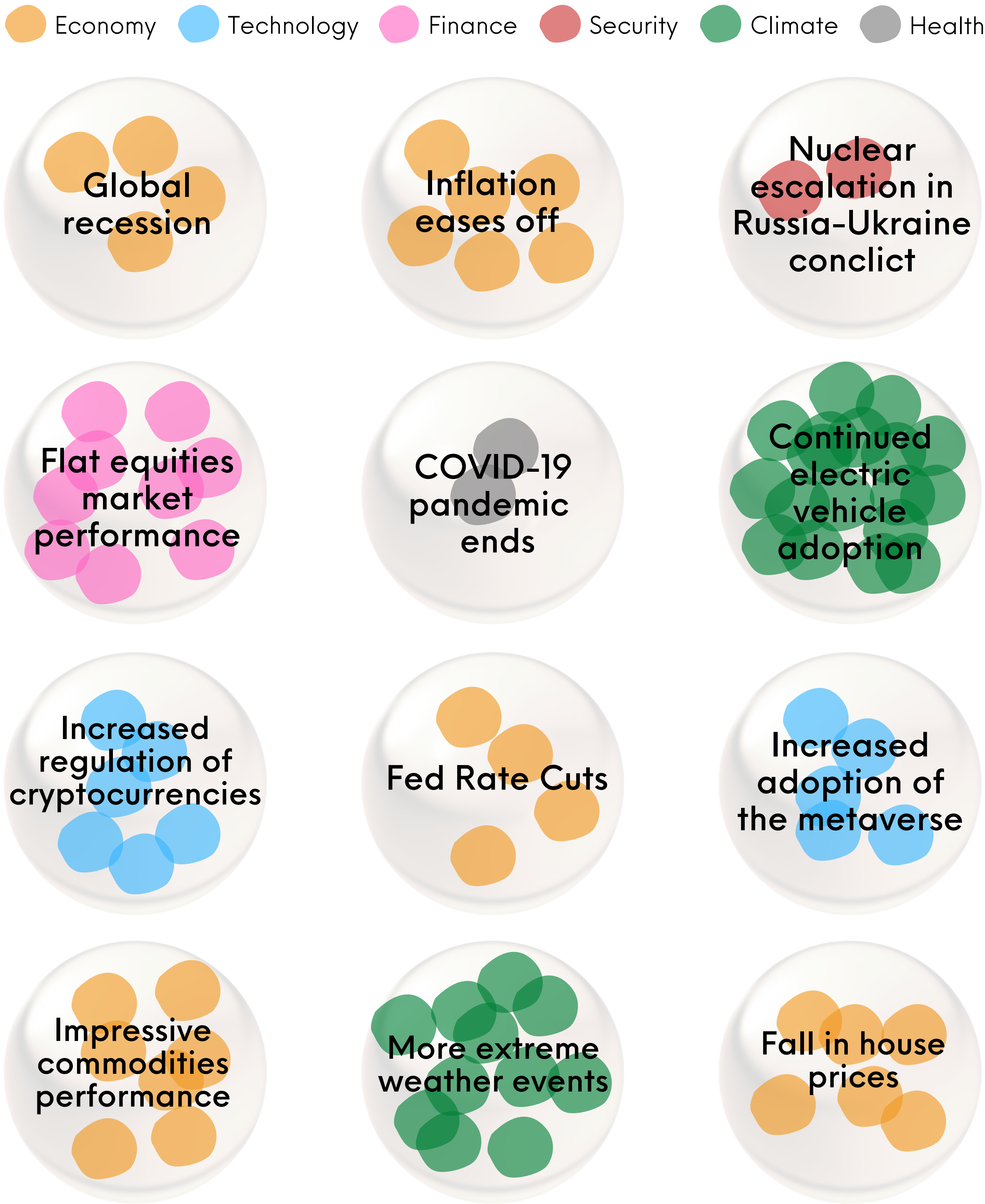






SOURCES: Precedence Research | McKinsey | PWC | Deloitte

2023 CRYSTAL BALL



The more the number of balls in each crystal ball, the more the number of expert predictions/ consensus forecasts in favour of the outcomes in each crystal ball

SOURCES: IMF | WorldBank | The Economist | Bloomberg | IPSOS | Reuters | Yahoo Finance | JPMorgan | PWC | UNEP | WEF | WHO | McKinsey | Deloitte | DNV | UNEP | Statista | TradingEconomics | ClimateActionTracker

UPCOMING ELECTIONS IN 2023

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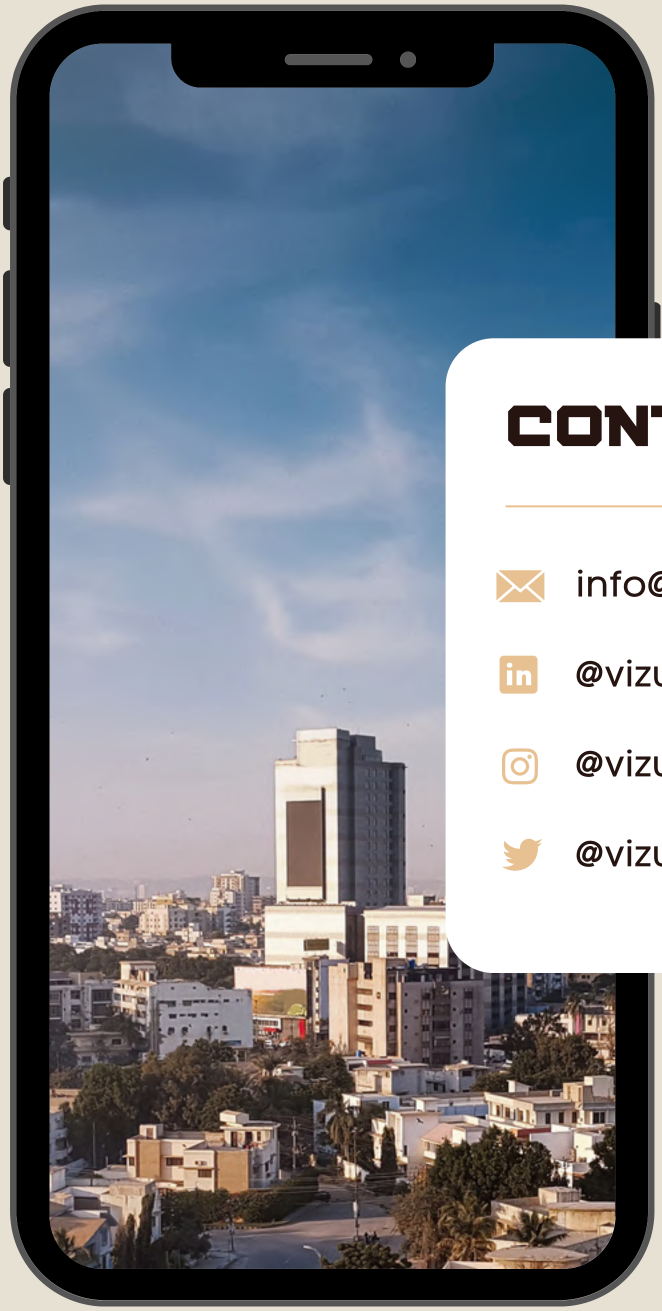
Month	Date	Type	Country
JAN	13	Presidential	Czech Rep.
JAN	TBA	Presidential	Trinidad
FEB	05	Presidential	Cyprus
FEB	12	Presidential (Run-off)	Cyprus
FEB	25	General	Nigeria
MAR	TBA	Presidential	Comoros
APR	30	General	Paraguay
APR	TBA	Legislative	Benin
APR	TBA	Presidential	Peru
MAY	07	General	Thailand
MAY	TBA	Presidential	Micronesia
MAY	TBA	Presidential	Latvia
JUN	18	General	Turkey
JUN	24	Presidential	S/Leone
JUN	25	General	Guatemala
JUL	TBA	General	Sudan
JUL	TBA	General	Zimbabwe
AUG	TBA	General	Burma
AUG	TBA	General	Myanmar
OCT	10	Presidential	Liberia
OCT	TBA	Presidential	Argentina
NOV	TBA	Legislative	Mali
NOV	TBA	General	Pakistan
NOV	TBA	Legislative	Belarus
DEC	20	Presidential	D.R.C.

Europe · Oceania · Africa · S/America · N/America

Only General, Presidential and Legislative elections were considered in this image

SOURCES: MHerrera | National Democratic Institute

ABOUT US: Vizualytiks is a data analysis and visualization company with the sole purpose of making complex data reader friendly



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