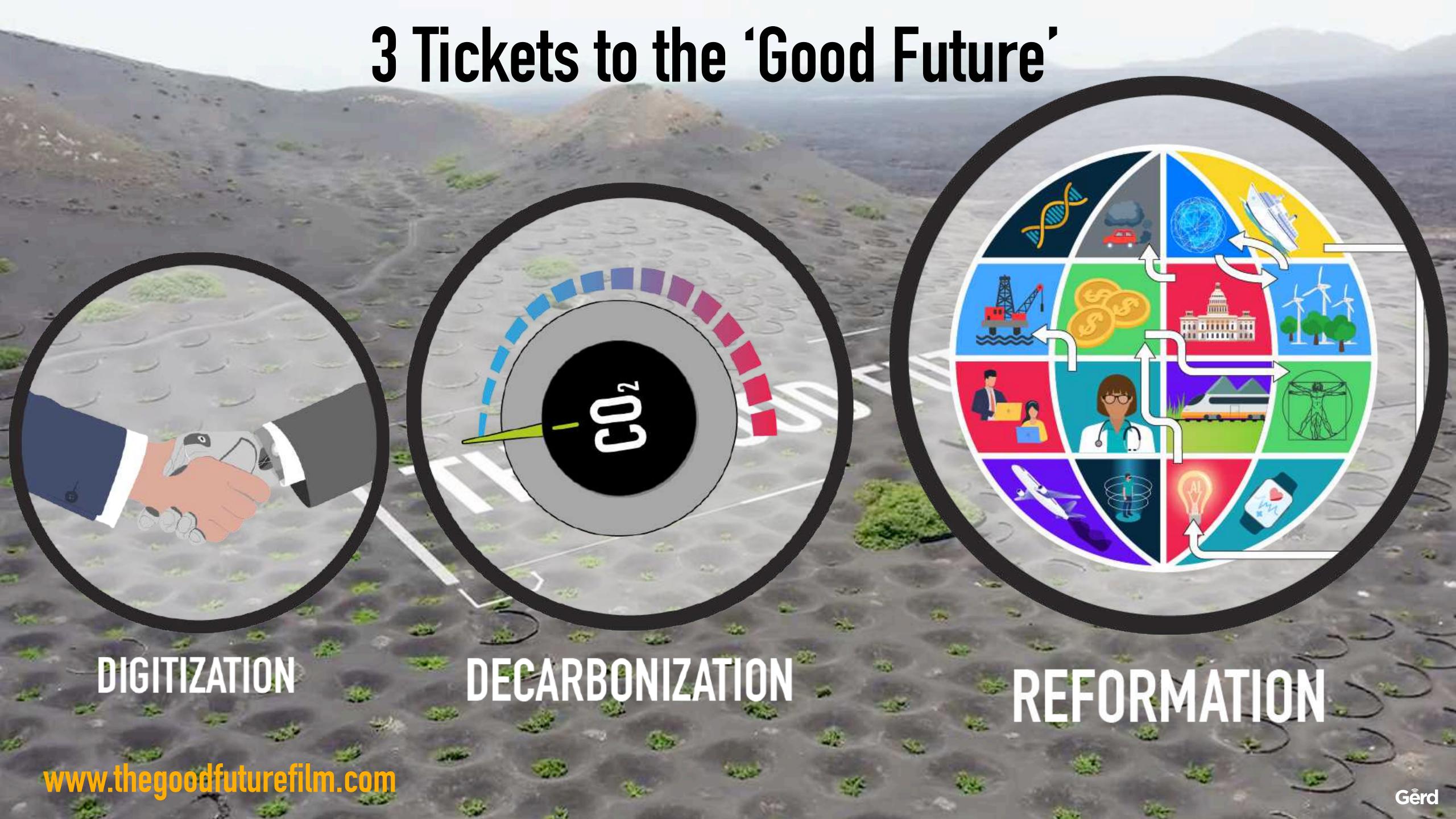
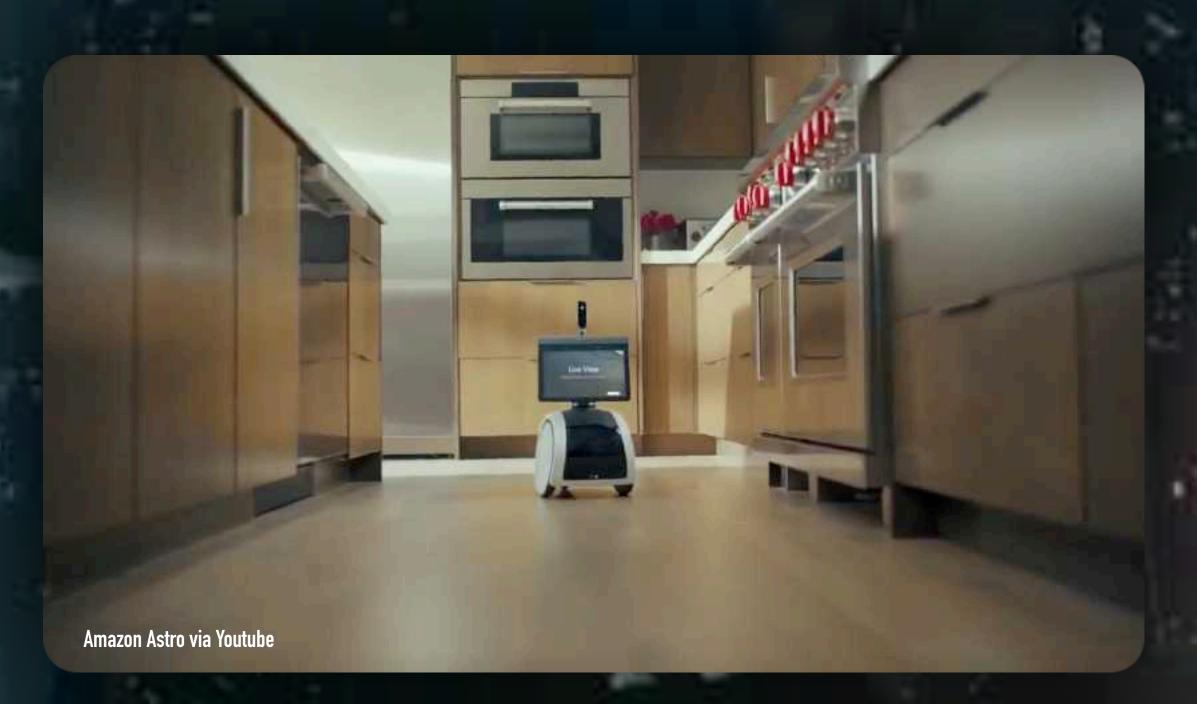






THE GOOD FUTURE



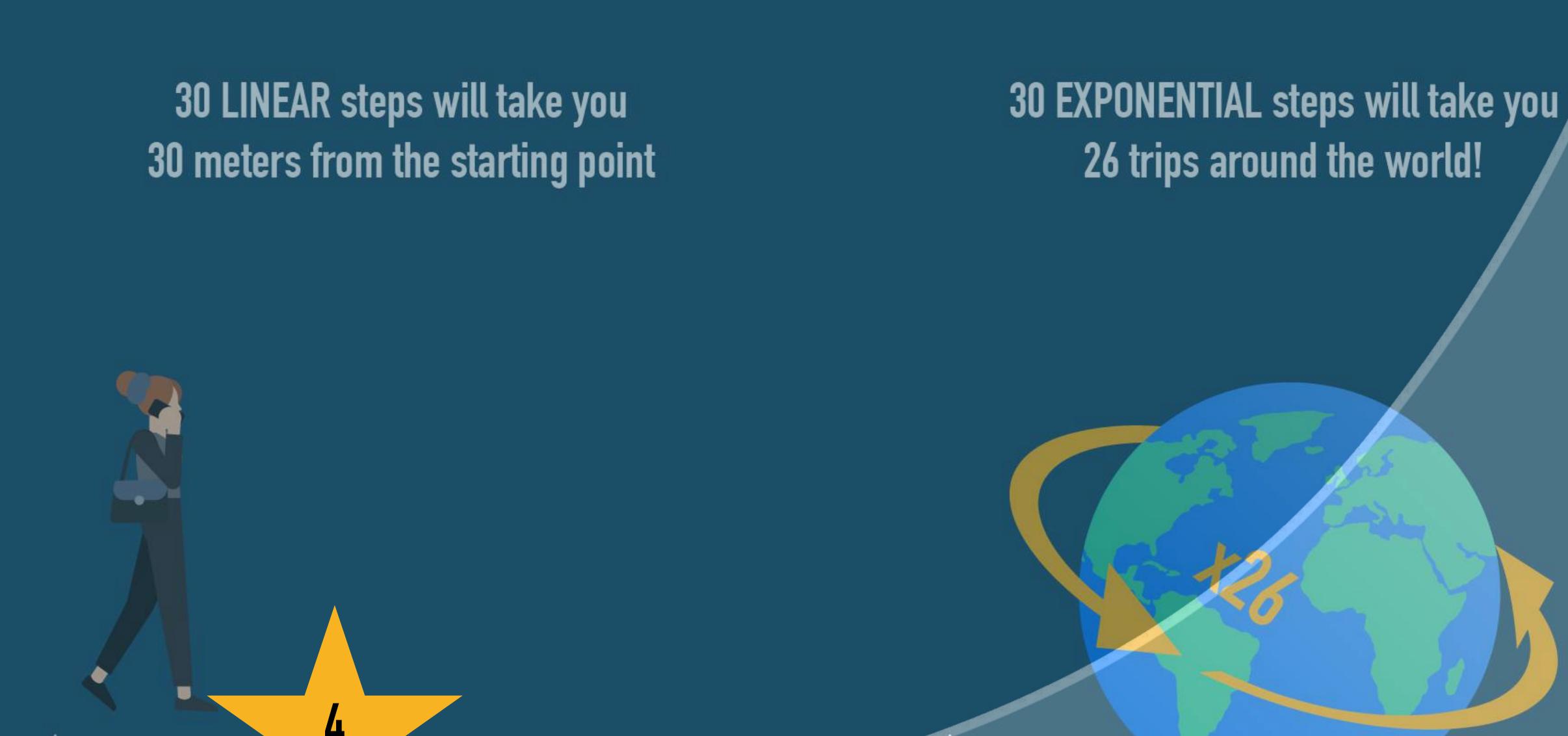




SCIENCE FACT



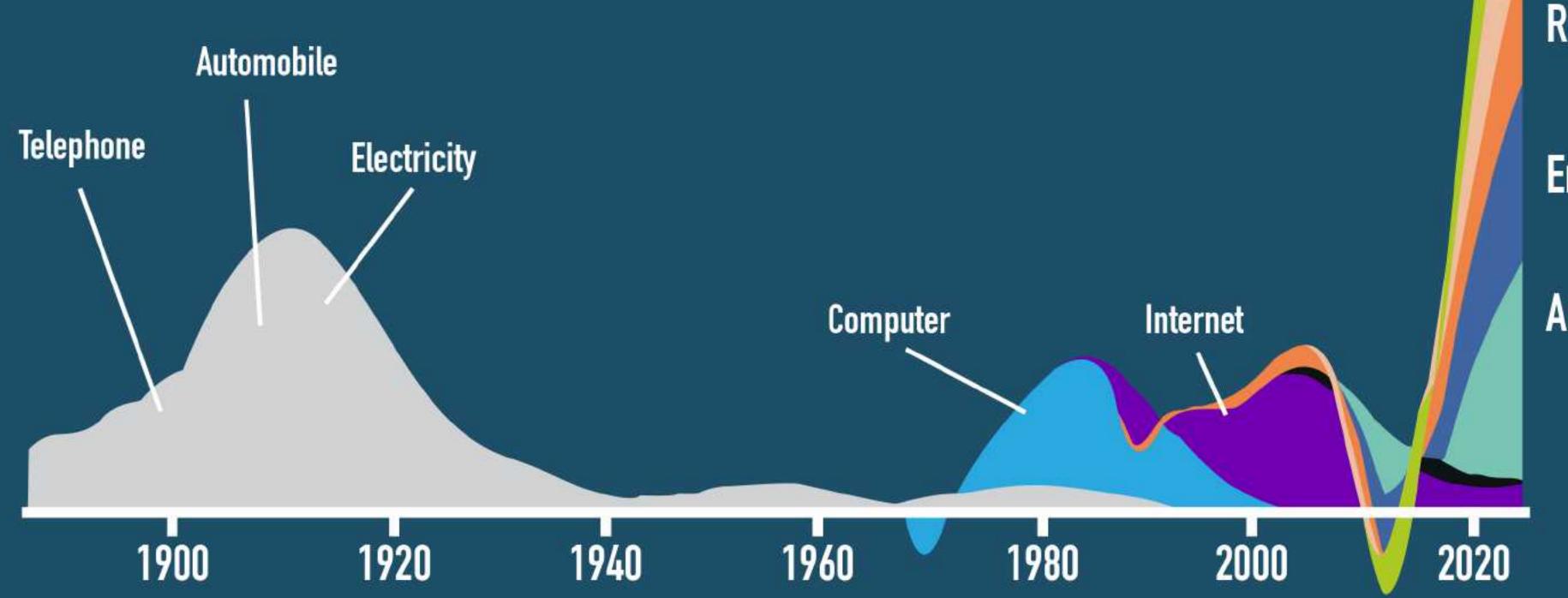
as avatars of themselves



30m

1m

THE LARGEST TECHNOLOGICAL TRANSFORMATION IN HUMAN HISTORY



Blockchain Technology

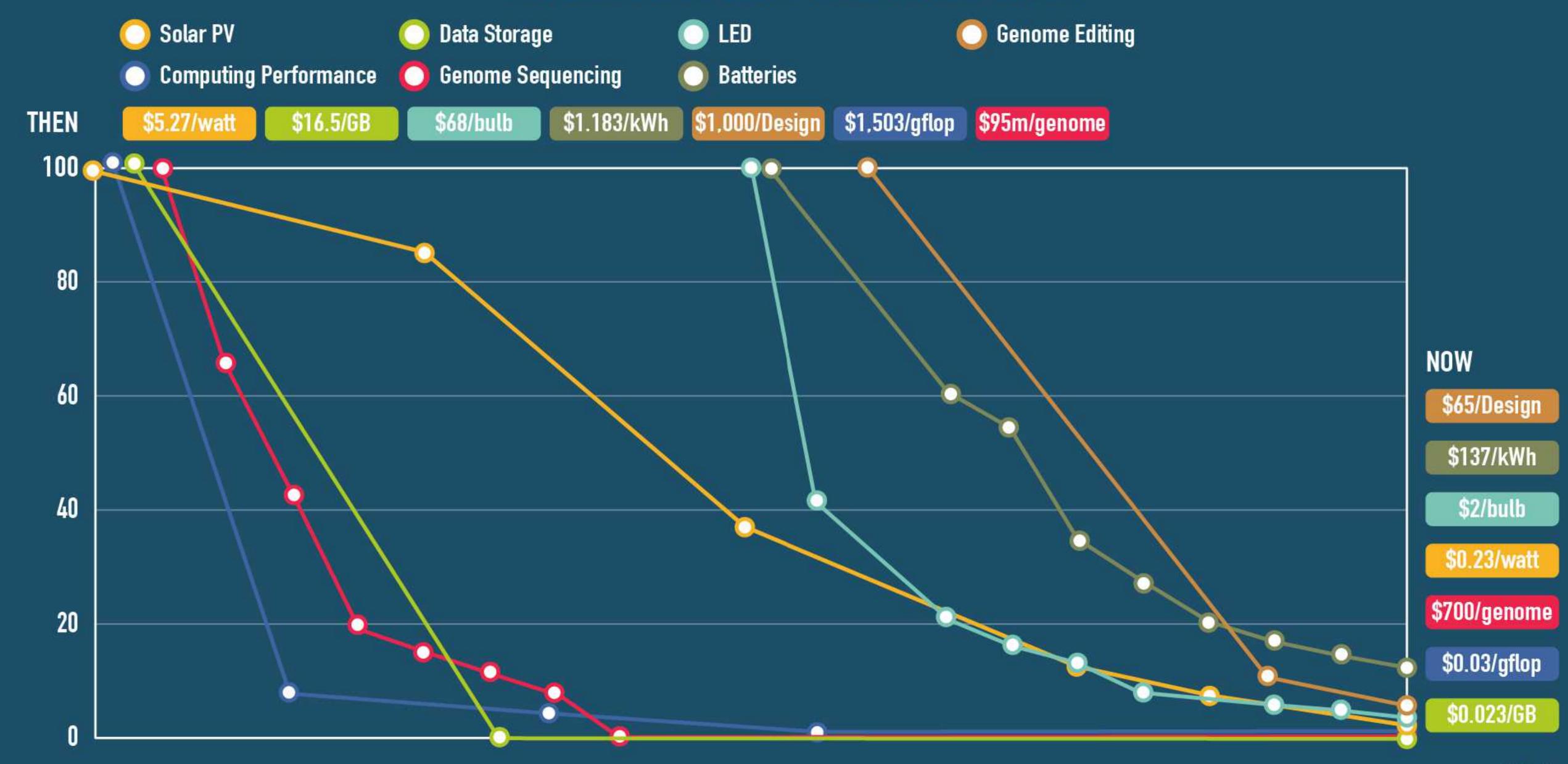
Genome Sequencing

Robotics

Energy Storage

Artificial Intelligence

EXPONENTIAL COST REDUCTION TREND





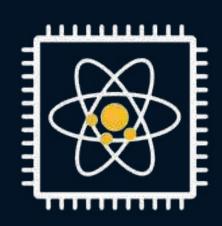


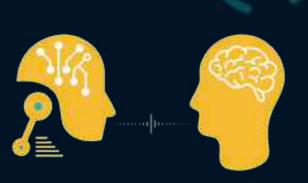
It is the FRAMEWORK that is changing- not just the picture (A.Toffler): The 10 Game-Changers











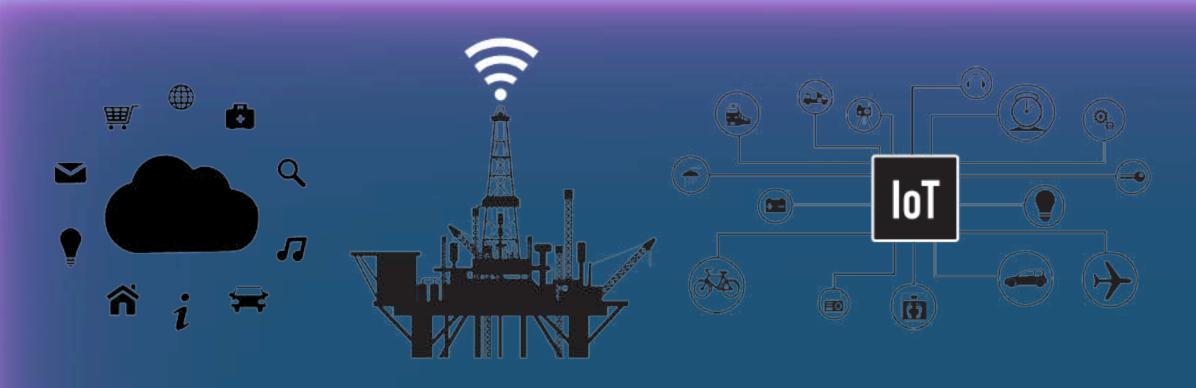












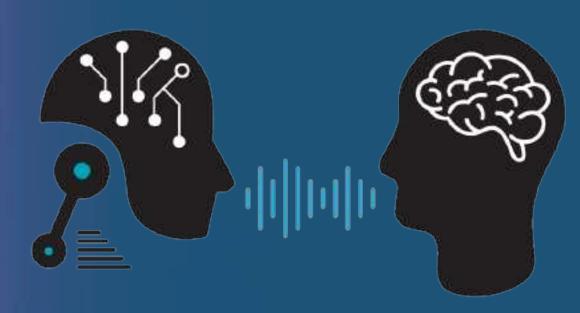


Artificial Intelligence is the

NEW ELECTRICITY

Data (+Cloud + IoT): the NEW OIL

but also the new PLUTONIUM



Voice Control is the new

INTERFACE



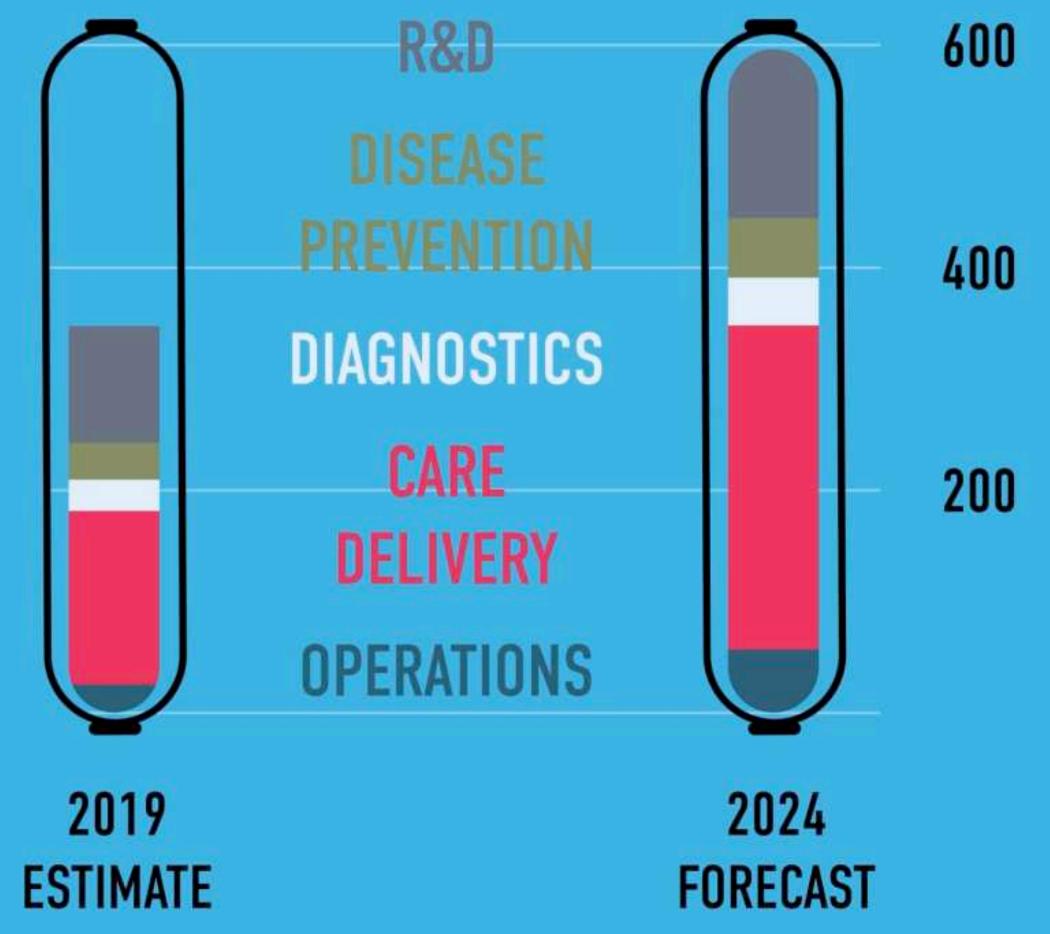
Virtual Reality (AR, MR) is the new

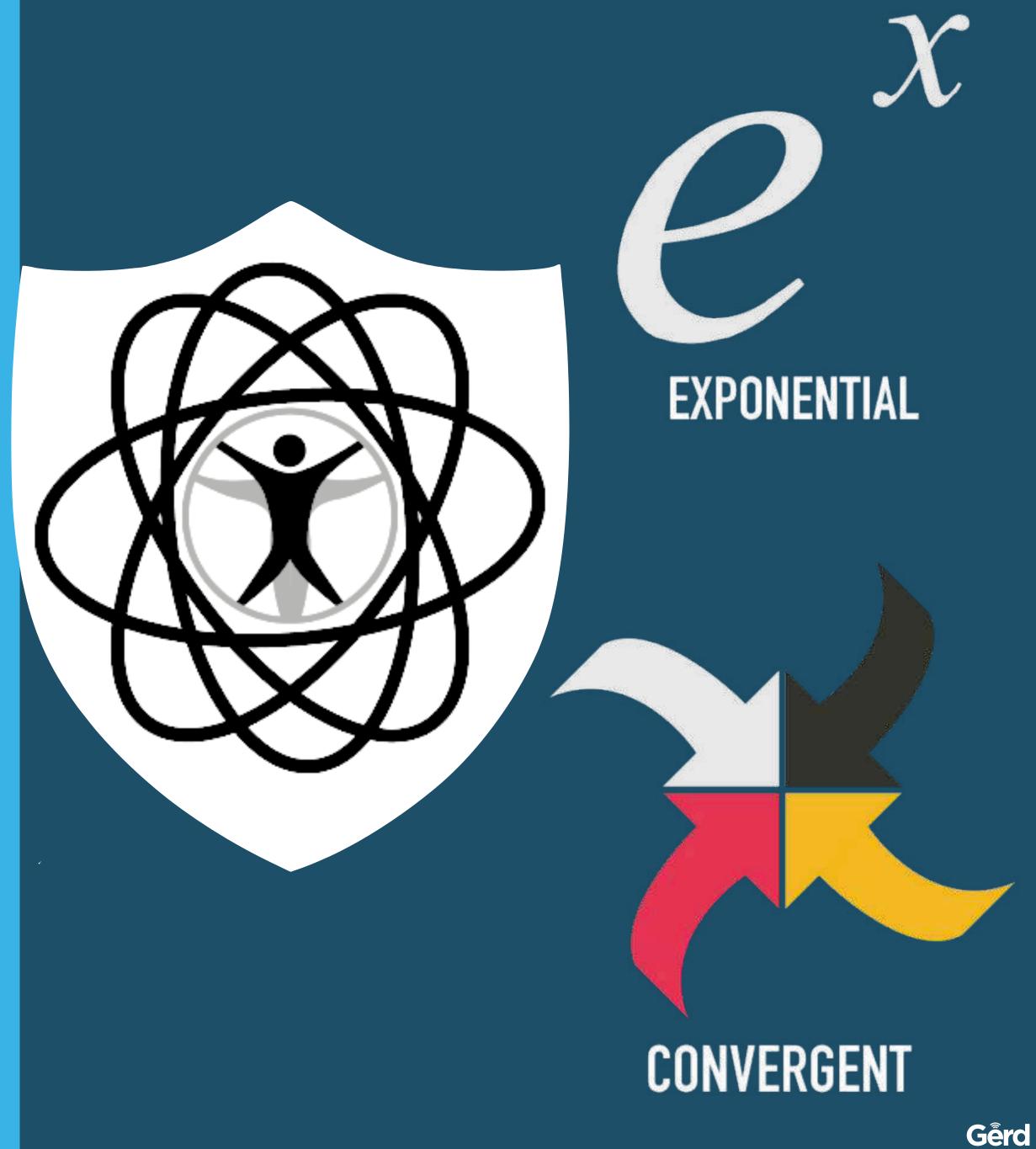
SENSES



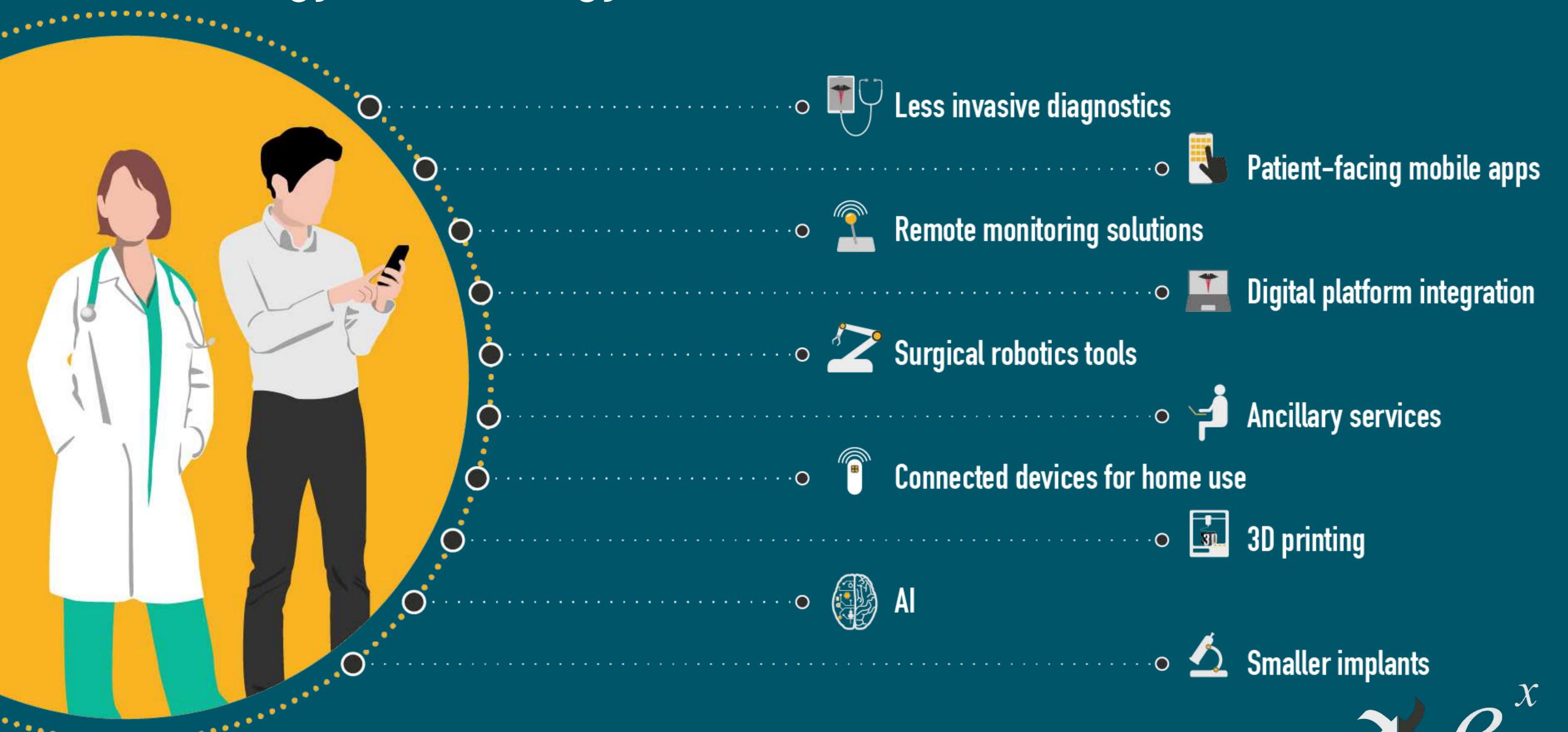


GLOBAL DIGITAL HEALTHCARE MARKET SIZE BY \$ BILLION





Technology 🔑 Biology, Life-Sciences, Pharma and Healthcare



EXPONENTIAL Gêrd

Source: PwC Health Research Institute clinician survey

FIVE MULTI-TRILLION DOLLAR INNOVATION PLATFORMS

CONVERGENCE ACCELERATES - INOVATION ADVANCES

Each of these platforms will create multiple trillions in market capitalization over the next decade, enabling further innovation.

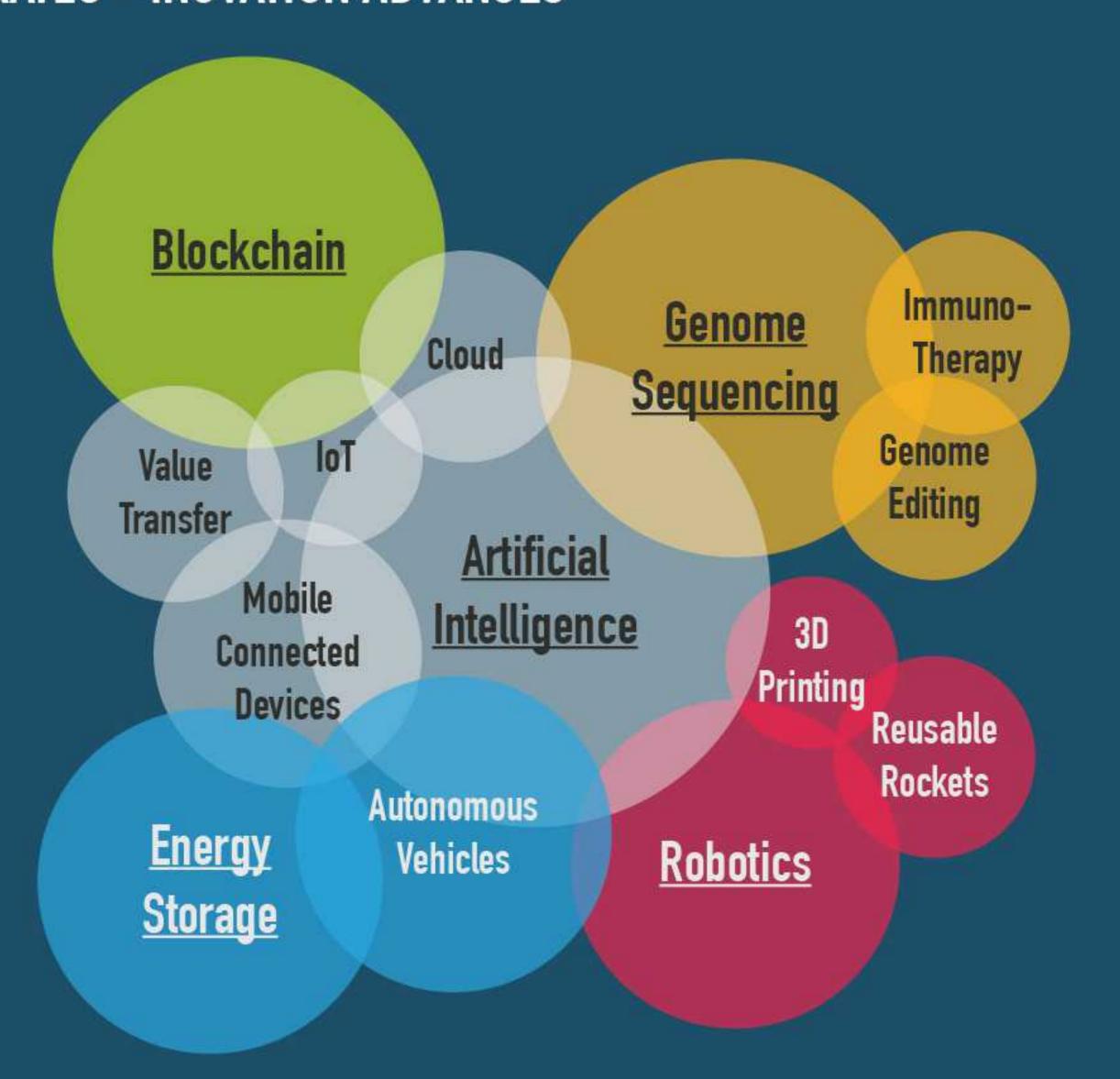
Blockchain Technology

Genome Sequencing

Artificial Intelligence

Robotics

Energy Storage

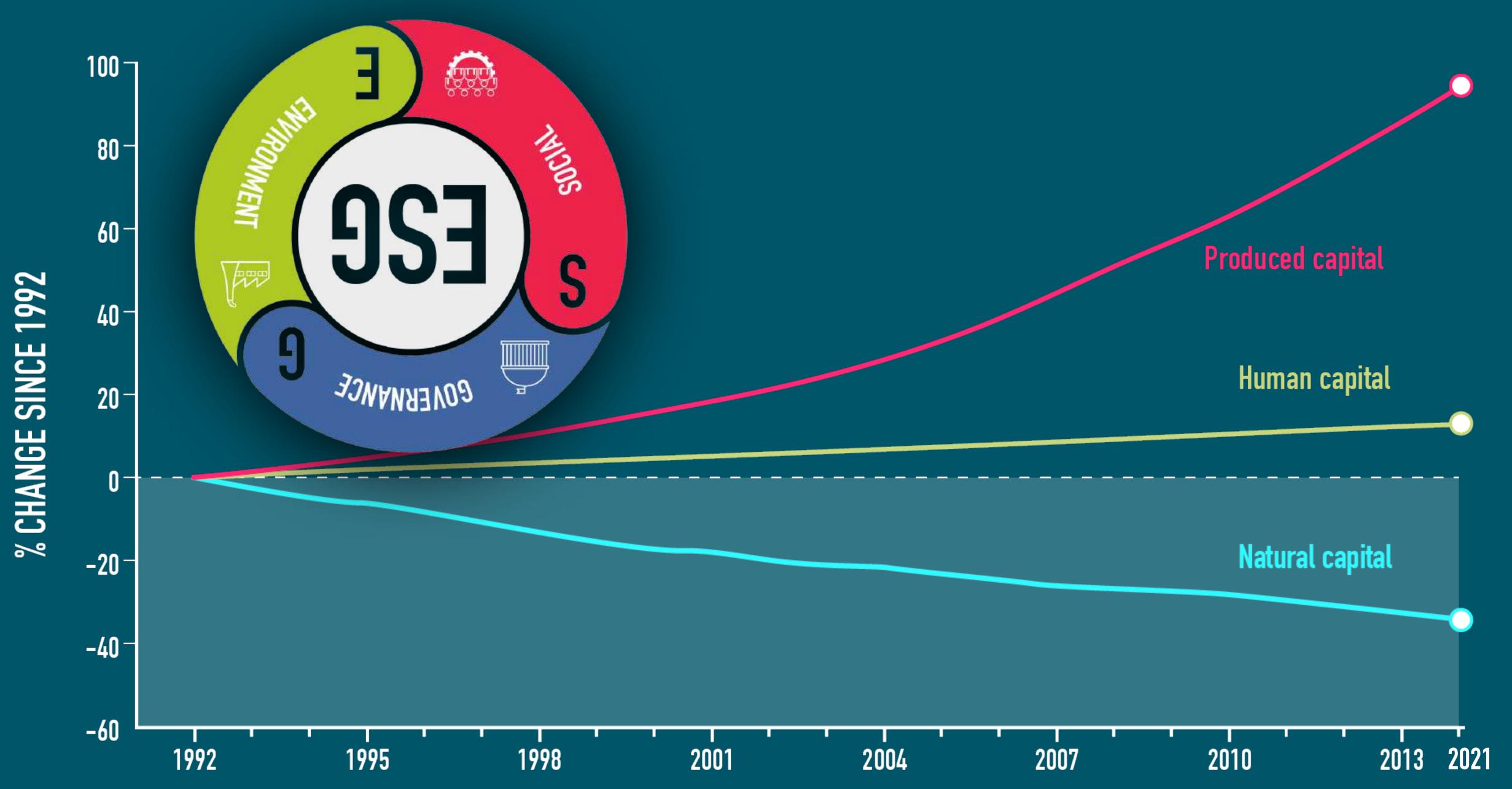




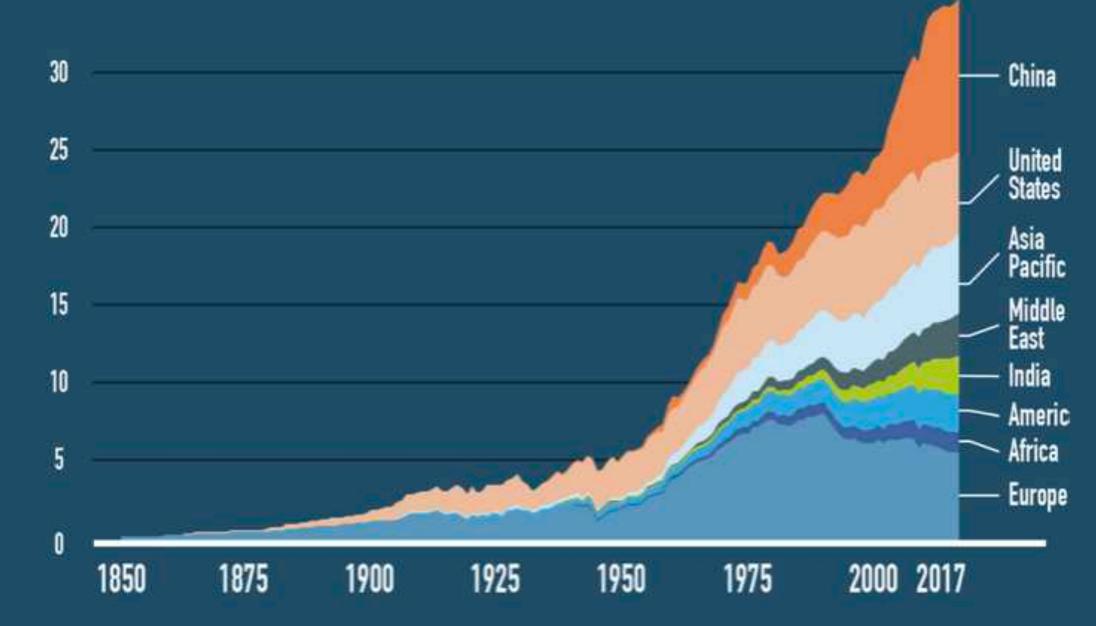
Covid19 is a TEST-RUN for climate change



GLOBAL CAPITAL STOCKS PER CAPITA

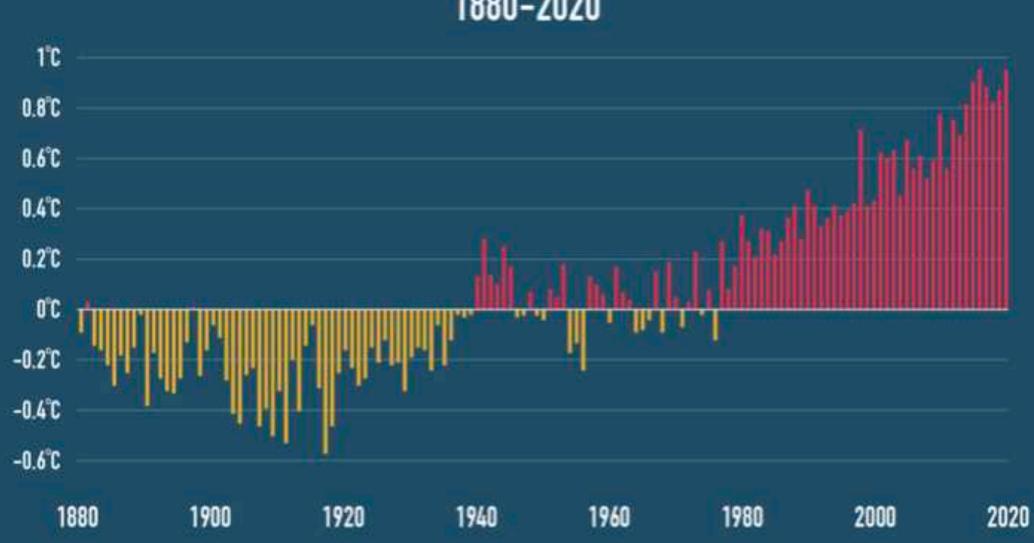


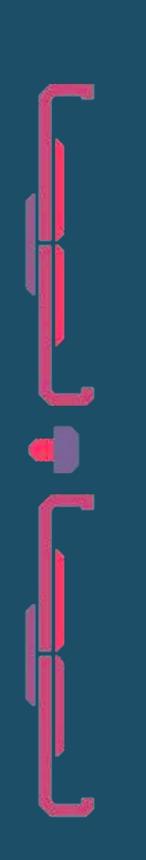
CO2 EMISSIONS - IN GIGATONES



Source: The Economist.

GLOBAL LAND AND OCEAN TEMPERATURE ANOMALIES, 1880-2020





PROFIT

GROWTH

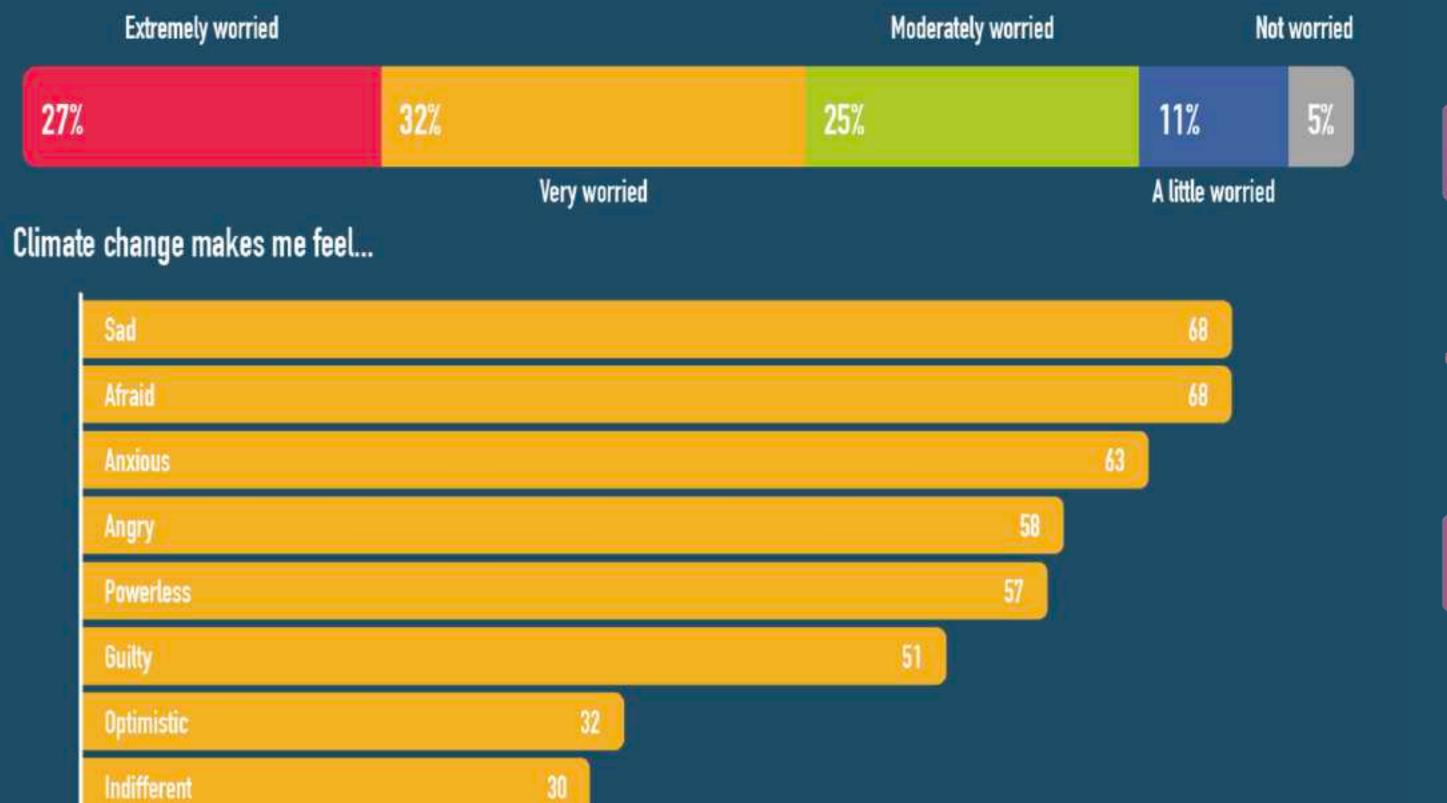


CLIMATE ANXIETY

A SURVEY OF 10,000 YOUNG PEOPLE SHOWS THAT NEGATIVE FEELINGS ABOUT CLIMATE CHANGE CAN CAUSE PSYCHOLOGICAL DISTRESS

How Worried are you about climate change?

Source: Hickman, C. et al. Preprin





GROWTH

ENVIRONMENTAL THREATS ARE AMONG SOME OF THE GREATEST BY LIKELIHOOD

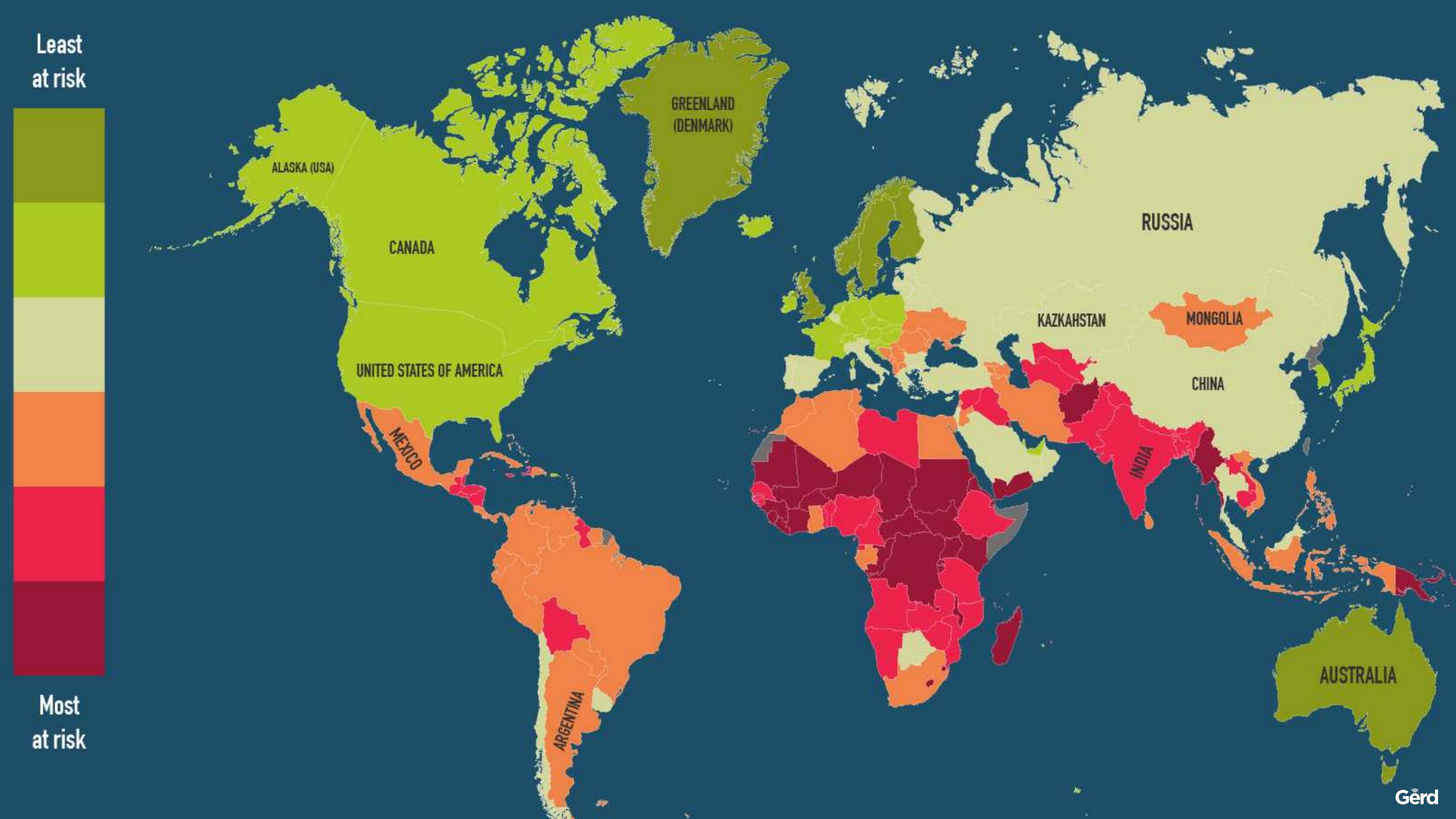
Top Risks

by likelihood

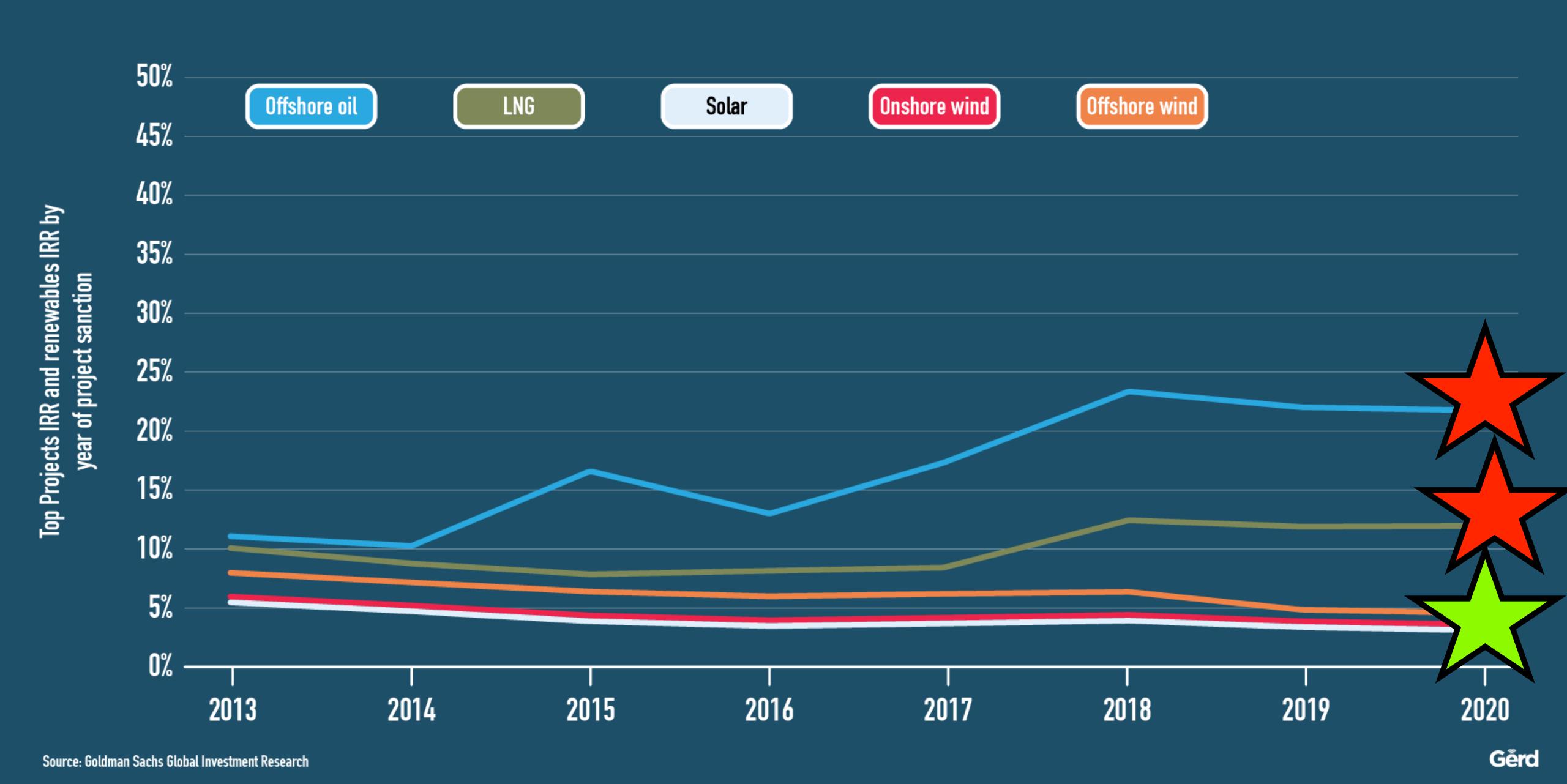
- **Extreme weather**
- Climate action failure
- Human environmental damage
- Infectious diseases
- **Biodiversity loss**
- Digital power concentration
- Digital inequality
- Interstate relations fracture
- 9 Cybersecurity failure
- 10 Livelihood crises



Source: Global Risks Report 2021

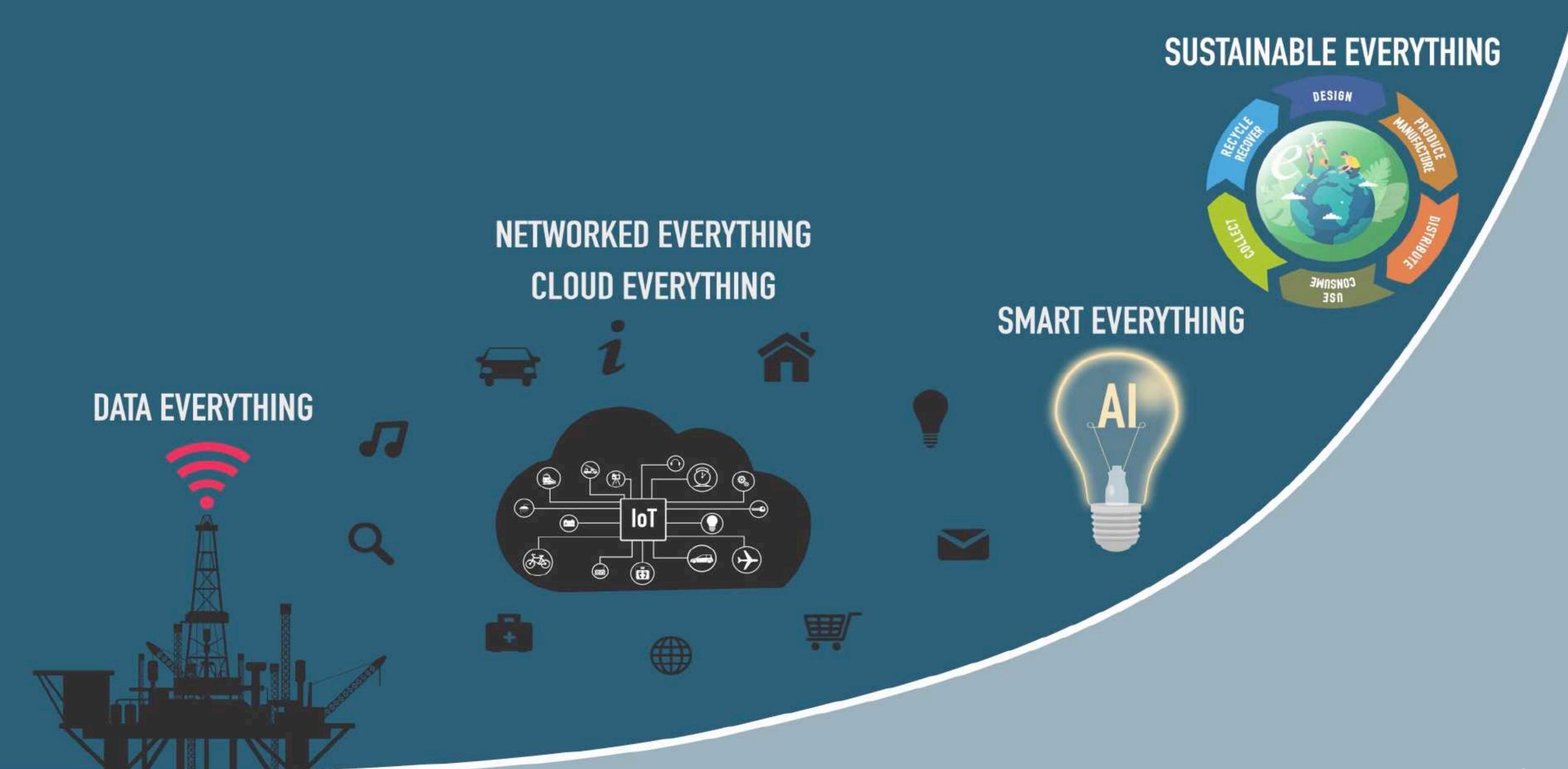


BIFURCATION OF COSTS FOR HYDROCARBON VS RENEWABLES

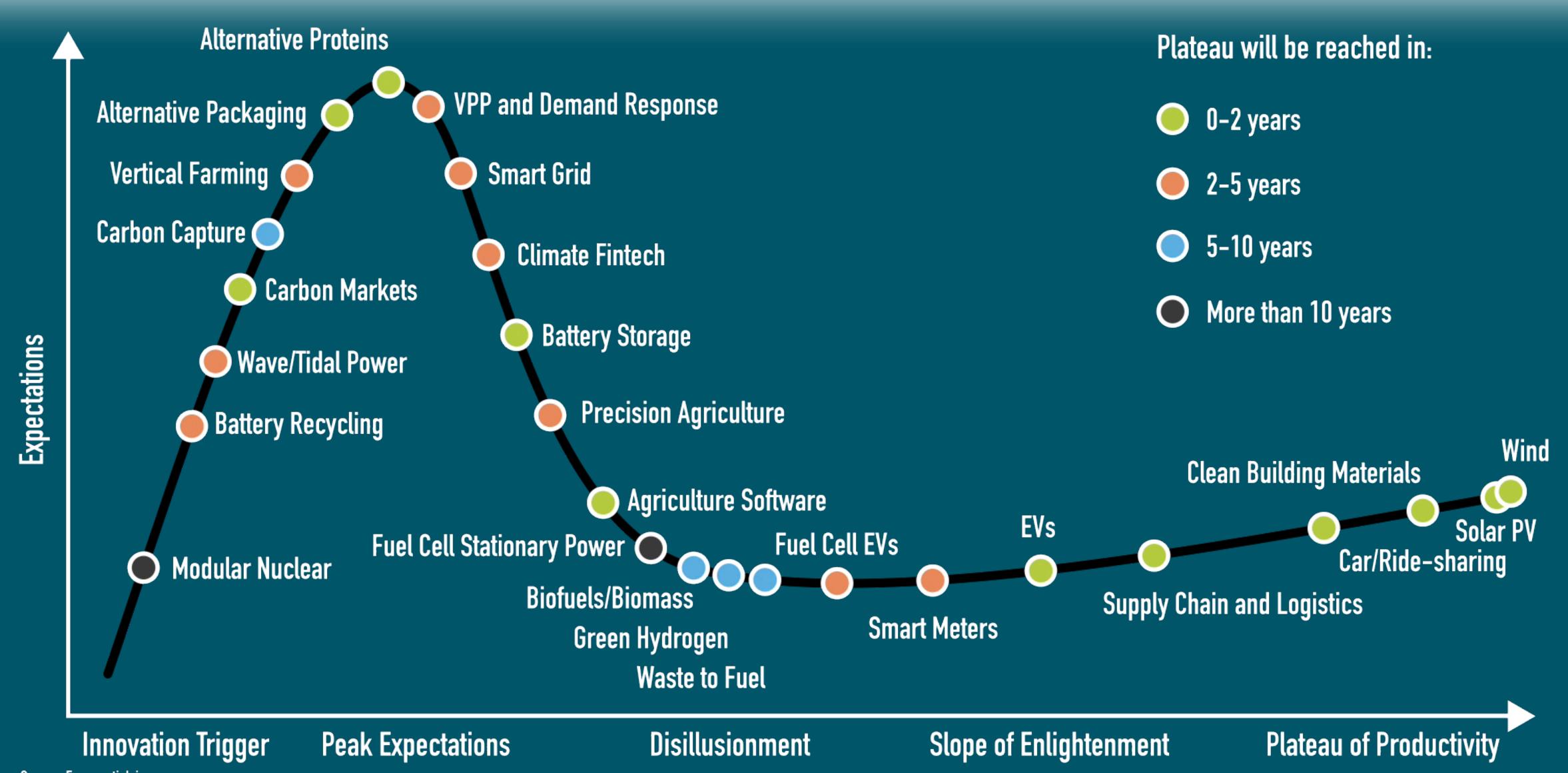


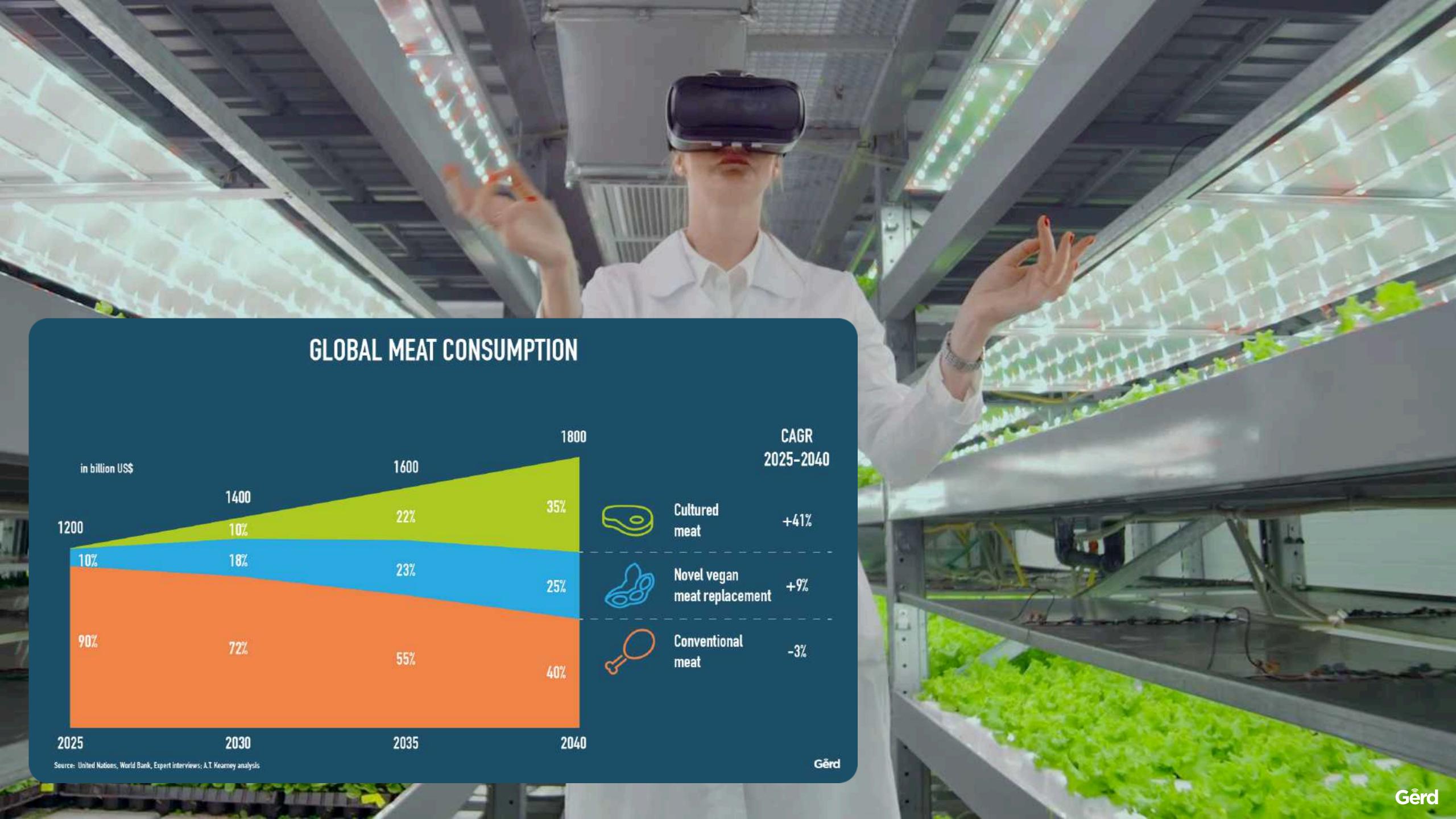
'Sustainable Everything' is no longer an ideology - It's humanity's business plan. COAL GAS COAL Gerd

The Sustainability REVOLUTION is here: Big Blue + Big Green's Warp-Drive Effect



GREEN IS THE NEW DIGITAL!





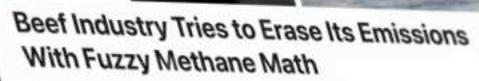
At McKinsey, Widespread Furor Over Work With Planet's Biggest Polluters

A letter signed by more than 1,100 employees has called for change at the consulting firm, which has advised at least 43 of the 100 most environmentally damaging companies. Oct. 27, 2021, 5:00 a.m. ET

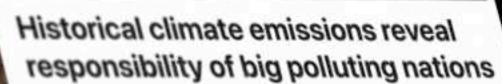
Coca-Cola, Pepsi and Unilever are world's biggest plastic polluters

Monday, 25 October 2021

Big tech's pro-climate rhetoric is not matched by policy action, report finds



A new campaign asserts, incorrectly, that cows in the U.S. "may not be contributing much at all to global warming." More stories by Ben Elgin + 19 October 2021, 12:00 CEST



Six of top 10, including China and Russia, yet to show ambition on emissions cuts before Cop26

Damian Carrington

Which countries are historically responsible for climate change?

1850 - 2021

CoP 26: World is on the line at Glasgow

ExxonMobil has spent more than \$39 million to manufacture doubt about climate

Some airlines risk failure if they do not cut emissions faster - industry report

Wed, 27 October 2021, 5:04 am

Big Tech says it wants to solve climate change. Its lobbying dollars say otherwise.

You Tech in leading the climate histories; was to Vog Oil.

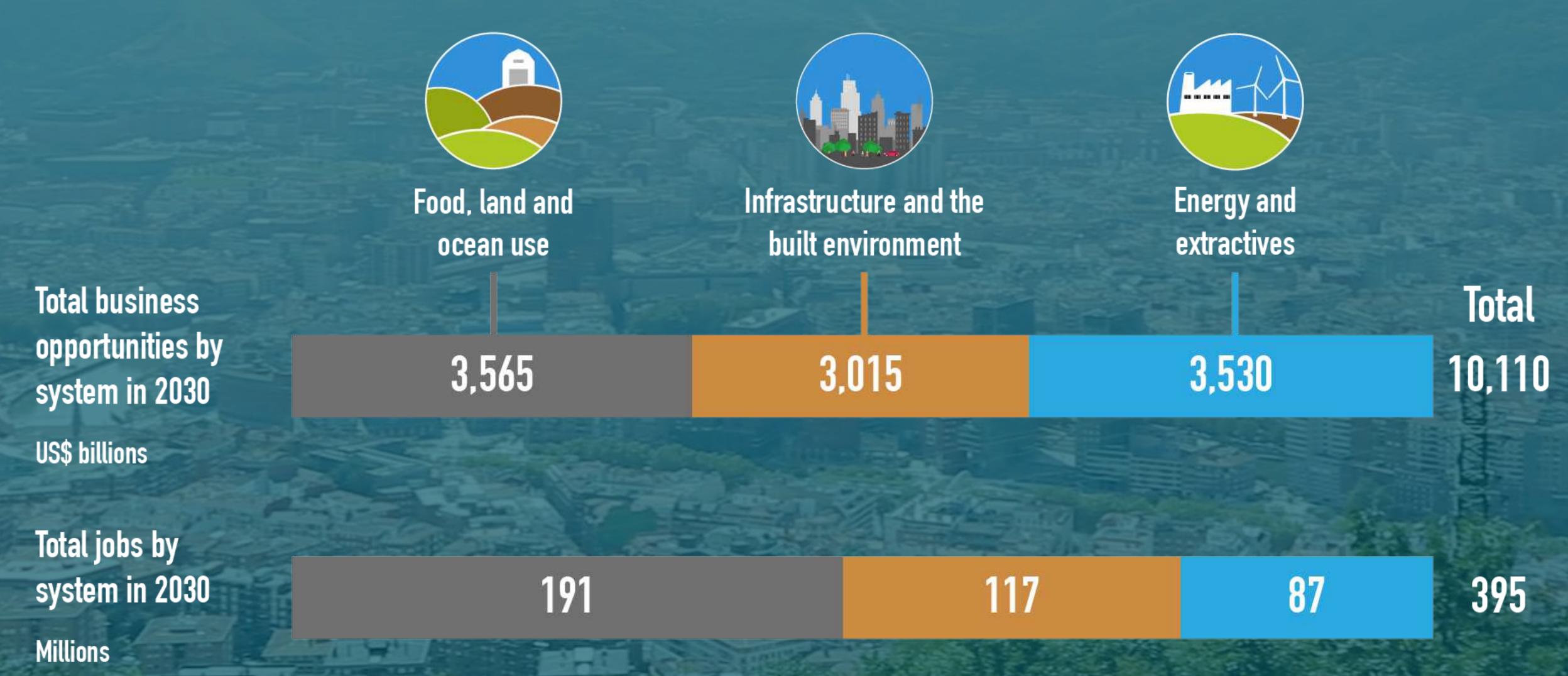
Saudi Arabia Pledges 'Net Zero' Carbon Emissions by 2060

of oil the kingdom exports to other countries

The Sustainability REVOLUTION



15 TRANSITIONS IN THE THREE SOCIO-ECONOMIC SYSTEMS COULD DELIVER \$10.1 TRILLION OF ANNUAL BUSINESS OPPORTUNITIES AND 395 MILLION JOBS BY 2030





New Normals?

What do we export?

More than half of our exports are of a high or medium-high technological level

By economic sectors, exports from the Basque Country are concentrated in capital goods, semi-manufactured goods and the automotive industry, with 80% of the total.

Road vehicles (parts and accessories)

24.2%



Iron and steel

10.8%



Petroleum and derivatives

9.5%



Industrial machinery and equipment in general

7.6%



DECARBONIZATION

Metalworking

7.6%



Rubber articles

4.9%

555 8

Electrical machinery and equipment

3.5%



Non-ferrous metals

3.4%



Power generation machinery and equipment

3.1%



Metalworking machines

2.9%





Some 2030 foresights





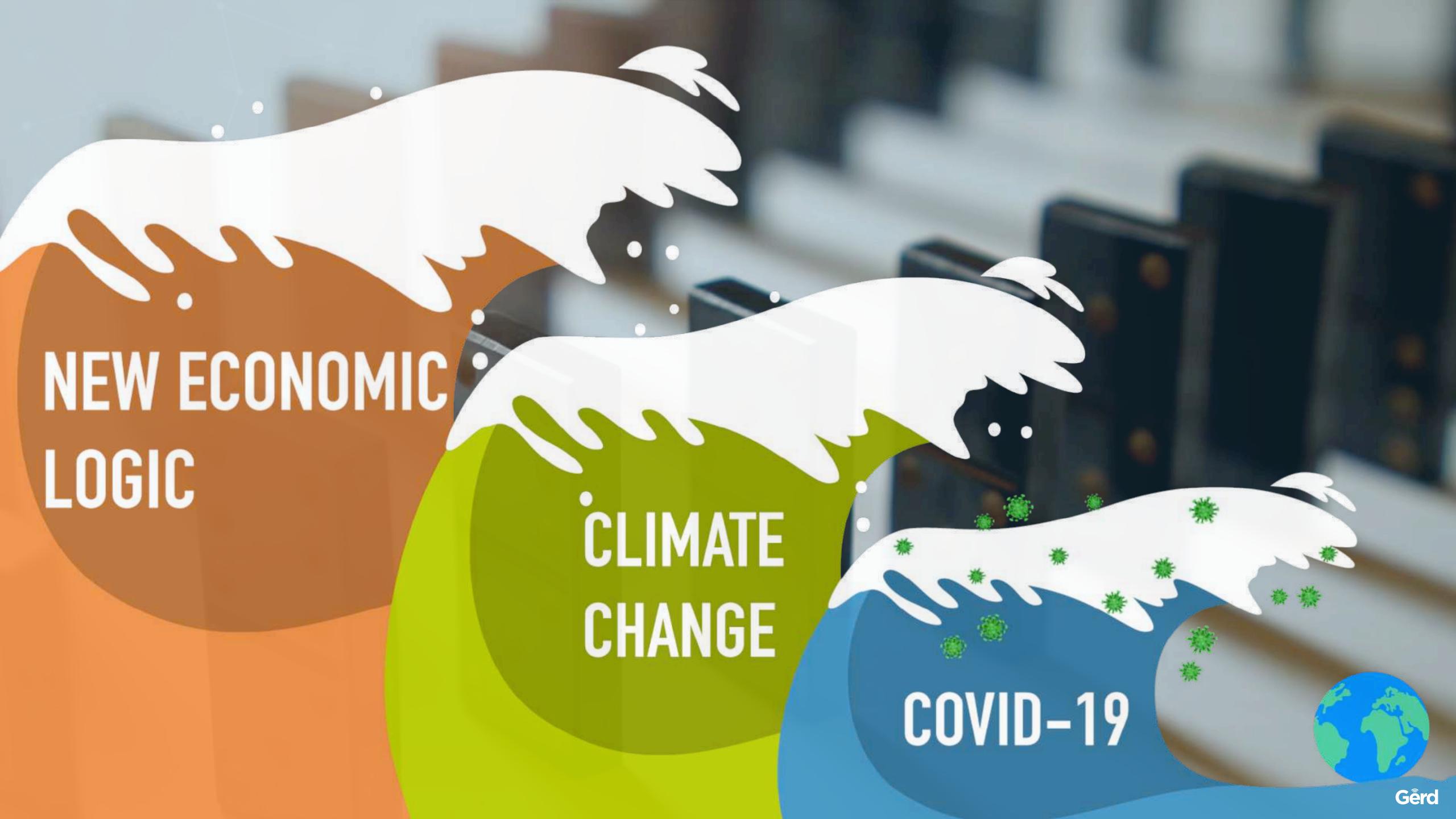
- 9 Billion people hyper-connected, everywhere (selling & buying globally with digital currencies)
- Deep convergence of digital/virtual and the physical world (VR, AR, MR, Holograms, The Metaverse?)
- The end of coal, then oil & gas, moving towards energy abundance (renewables, nuclear fusion?)
- Sustainable and circular EVERYTHING: cars/transport/mobility, shipping, tourism, ICT, (air-travel?)
- Governments, local and global organisations take very proactive roles in future-design/foresights
- Green is the new digital, and sustainable becomes the new 'successful'

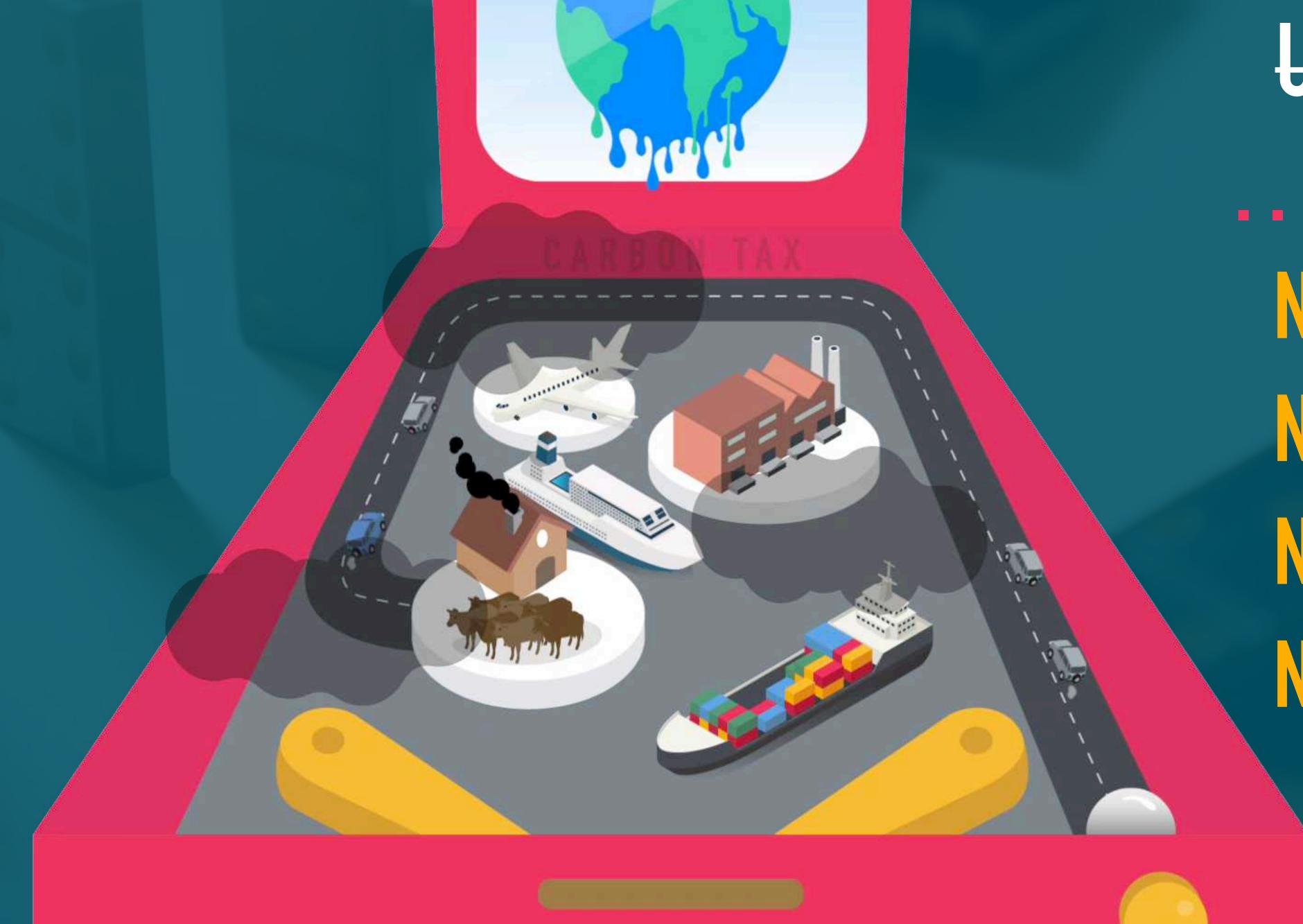


We're at THE FORK IN THE ROAD









UNTHINKABLE ...NEW NORMAL New Paradigms New Priorities New Narratives New Rules

New Paradigms
New Priorities
New Narratives
New Rules

PROFIT
GROWTH



'Critical': Mark Carney launches Net Zero Financial Services Providers Alliance

Eighteen organisations spanning breadth of financial service industry form financial sector's newest climatefocused coalition

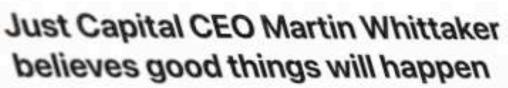




Government must support waiver of Covid vaccine patents

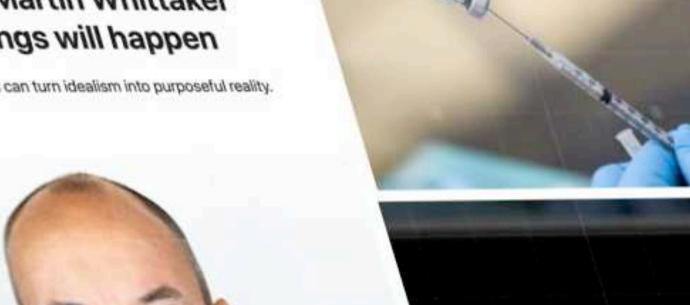
Intellectual property rules are currently blocking vaccine production

Christine Kelly • Fri, Sep 24, 2021, 06:00



Whittaker describes how business can turn idealism into purposeful reality.

by Betsy Kim



Government urged to back vaccine patent waiver as protesters march on Downing Street

Ministers' current position is 'morally obscene' and 'shortsighted, says Global Justice Now

Rony Sullivan - 1 day ago

Government told COVID vaccine patent waiver threatens global inoculation

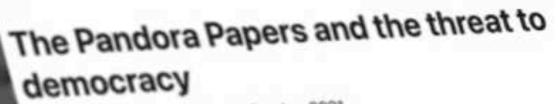


PEOPLE

PLANET

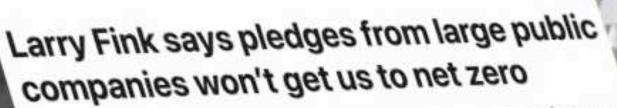
PURPOSE

PROSPERITY



by Katharina Pistor on - 12th October 2021

In demonstrating how some of the world's most powerful people hide their wealth, the Pandora Papers have exposed the details of a global system.



The BlackRock chief executive sees a big gap opening up between the commitments of large public companies and banks and the rest of society as inflation hits.







New Zealand Germany

Finland

Denmark

Sweden

Taiwan

Bangladesh

Singapore

Nepal

Ethiopia

Namibia

Bolivia

Georgia

Estonia

Lithuania

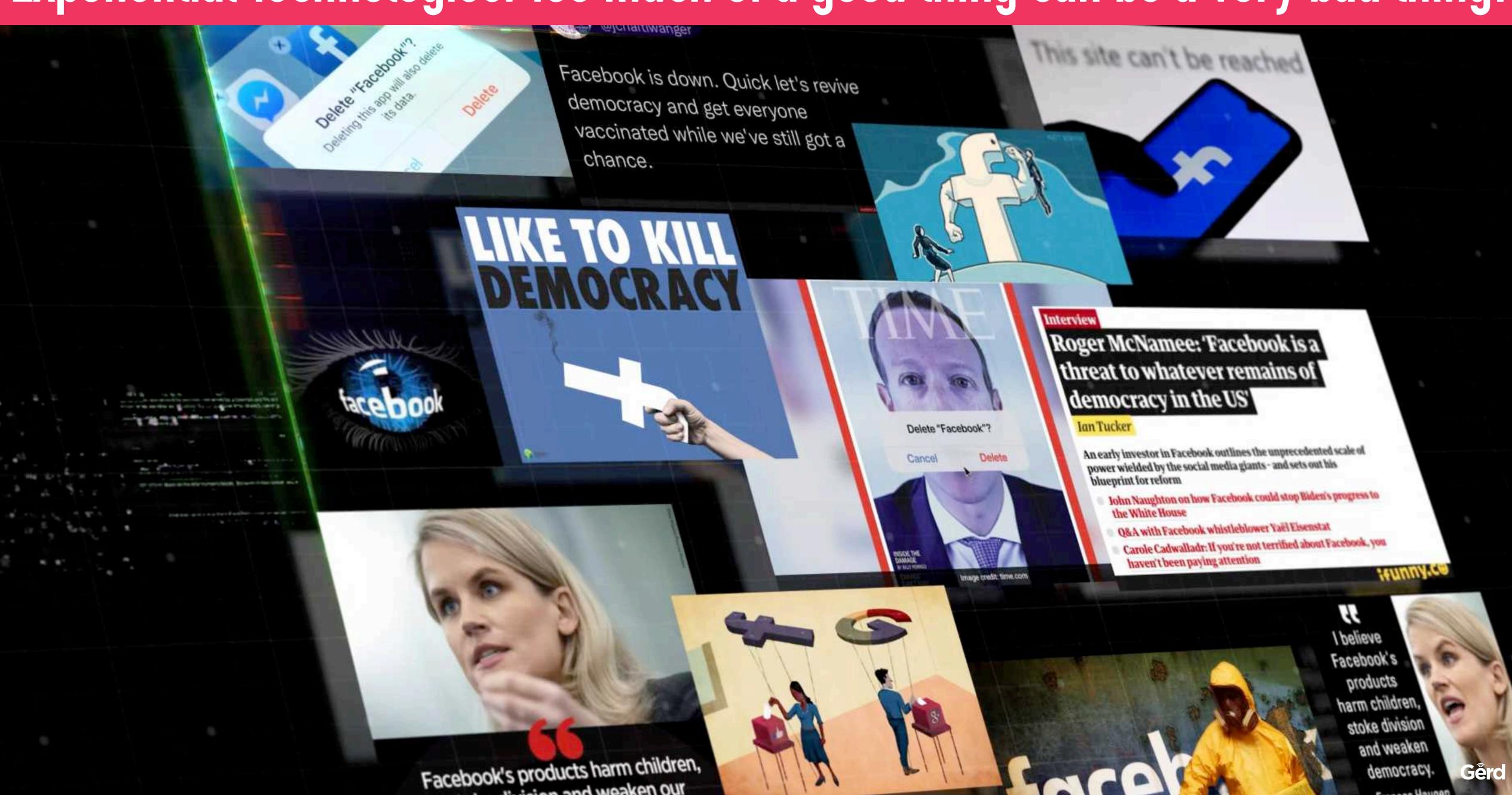
Technology drives our societies but ETHICS define it



ETHICS is knowing the difference between doing what you have the right (or the power) to do and what is the RIGHT THING TO DO

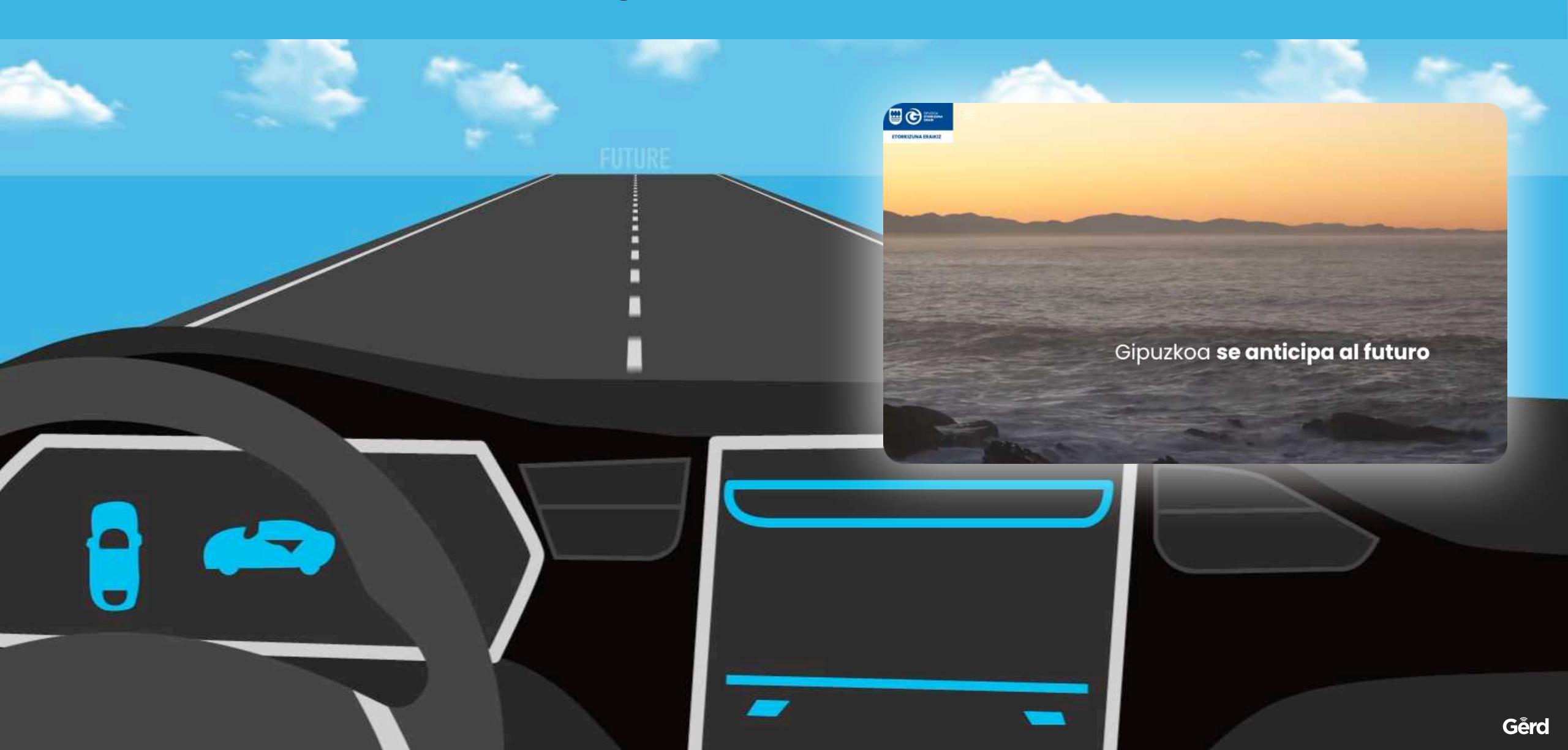
TECHNOLOGY HAS NO ETHICS

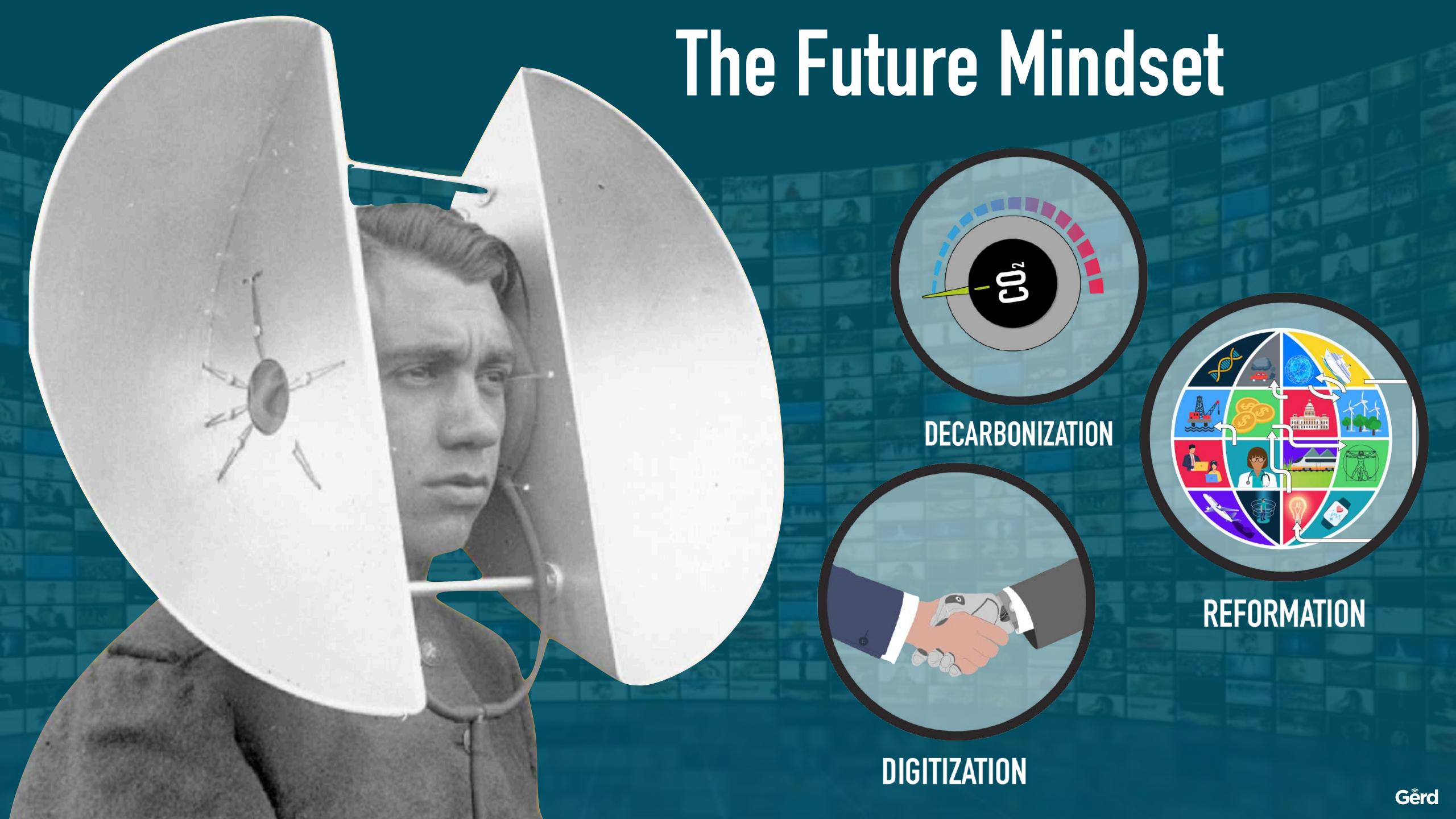
Exponential Technologies: Too much of a good thing can be a very bad thing!





The Future is no longer a time-frame: it's a MINDSET





The Future belongs to those that can hear it coming!



EMBRACE TECHNOLOGY BUT DON'T BECOME IT!



