

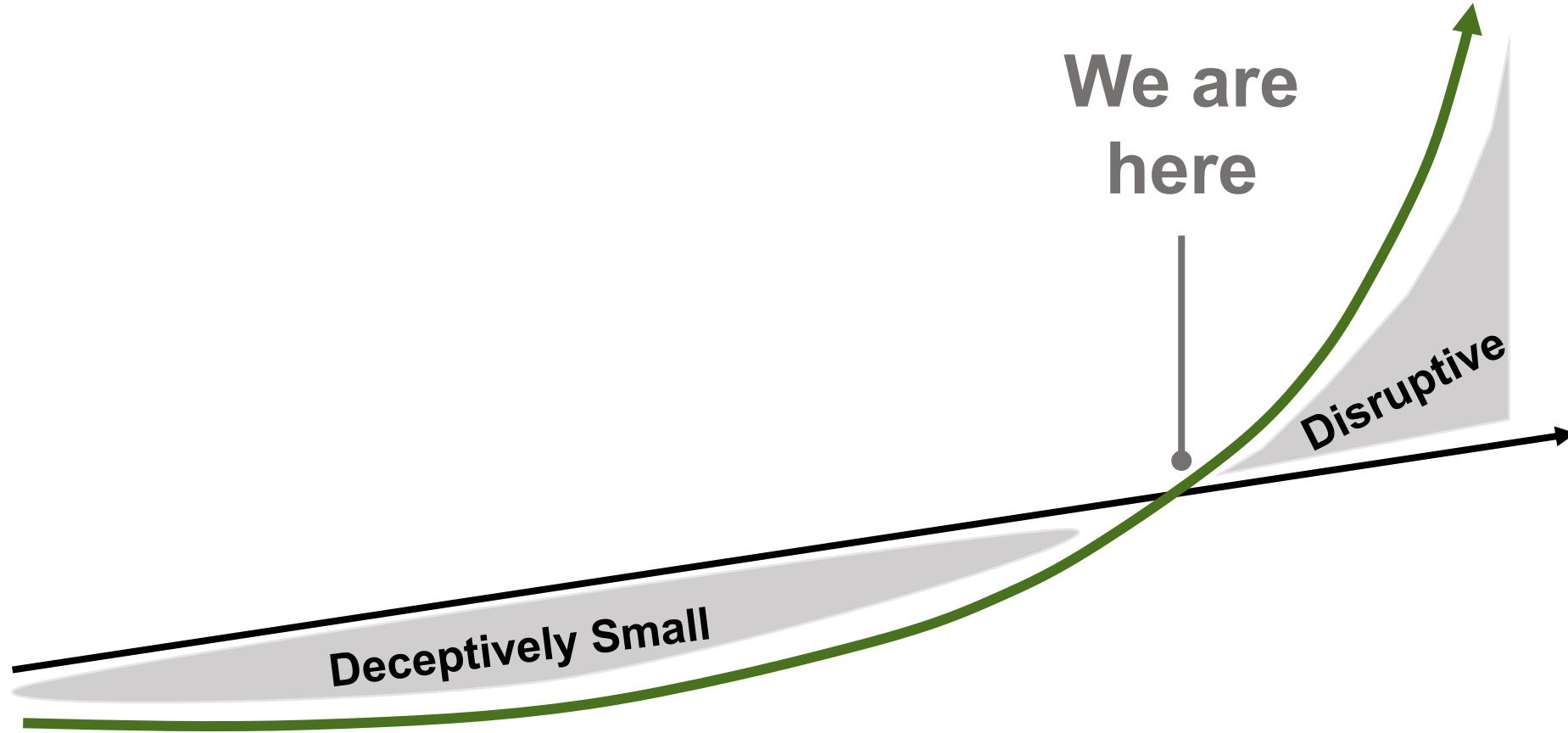


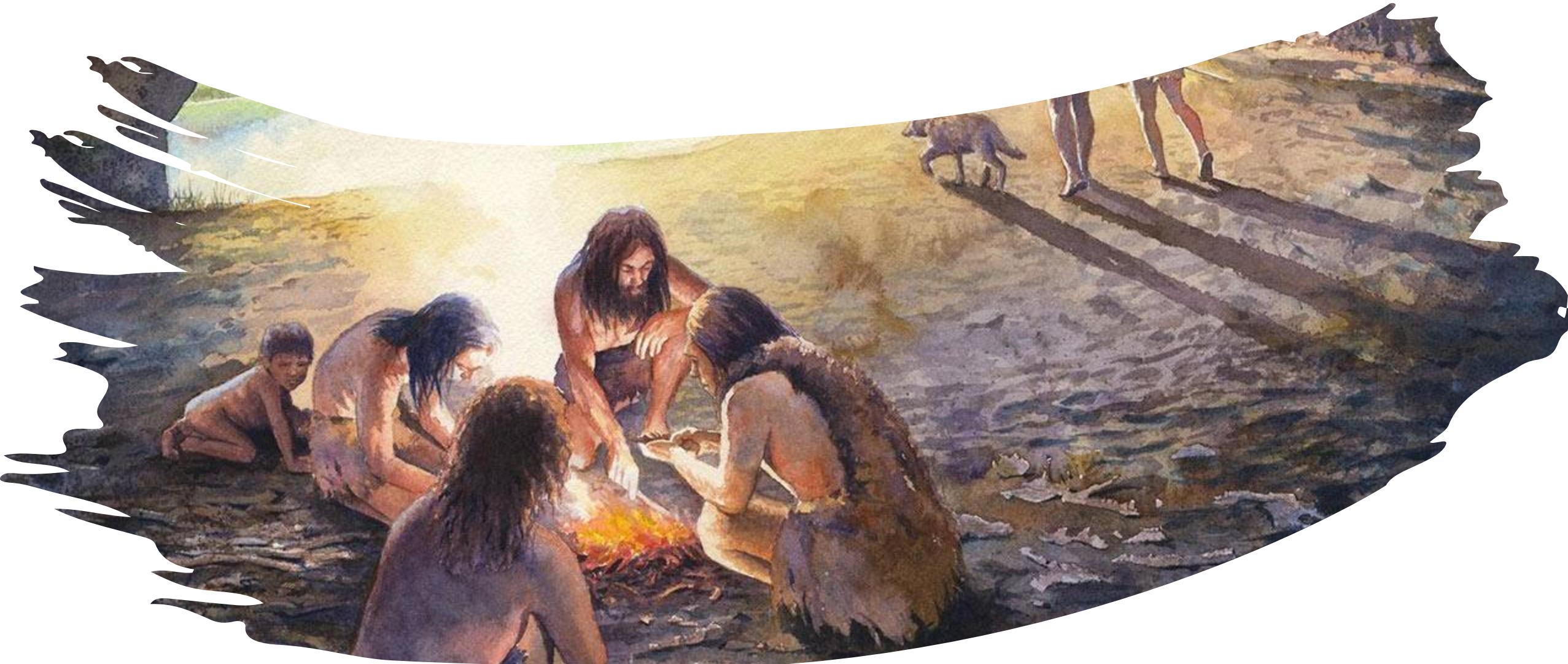
High-Tech Heroes

Save our Species by Saving the Planet



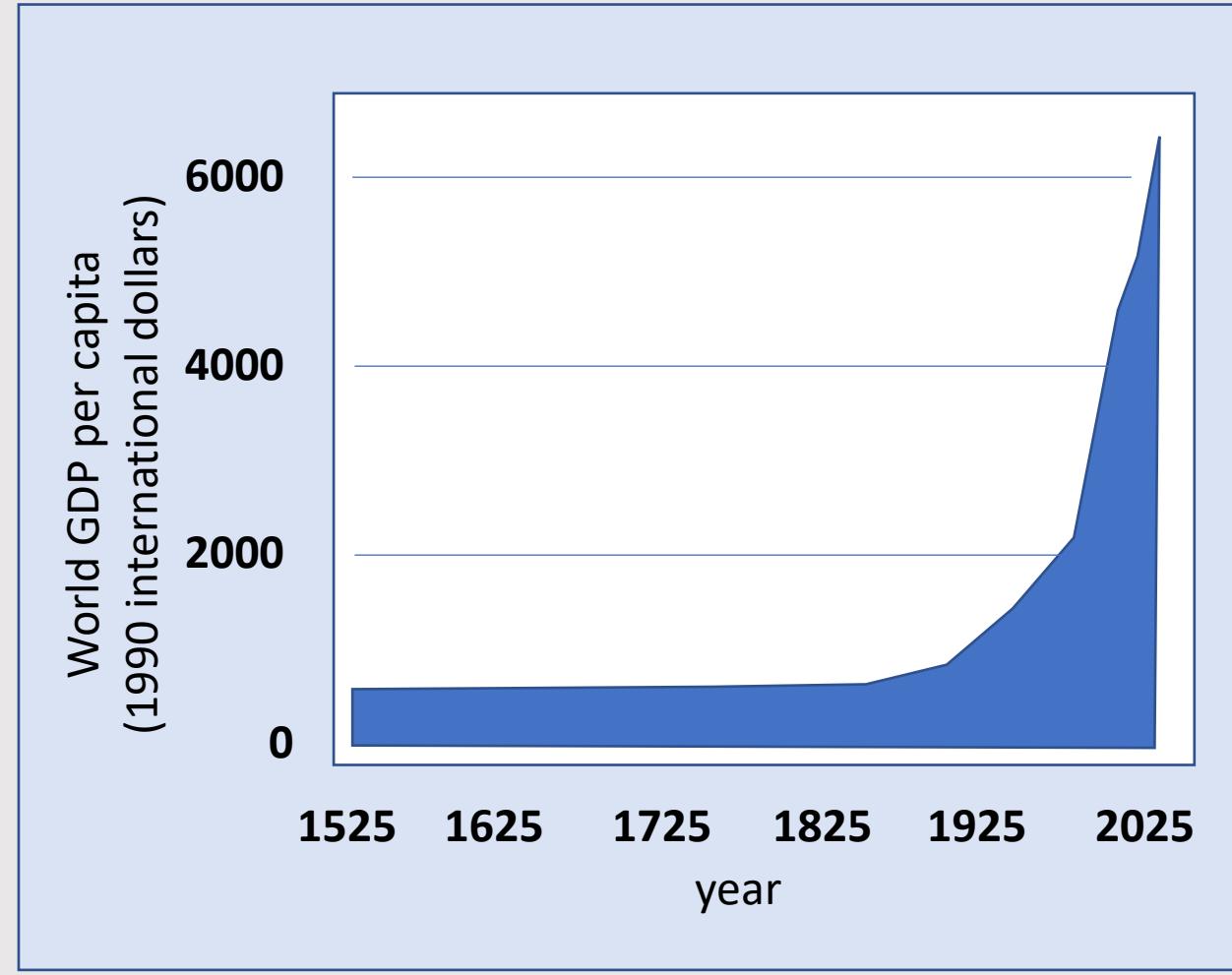
We are living in exponential times...



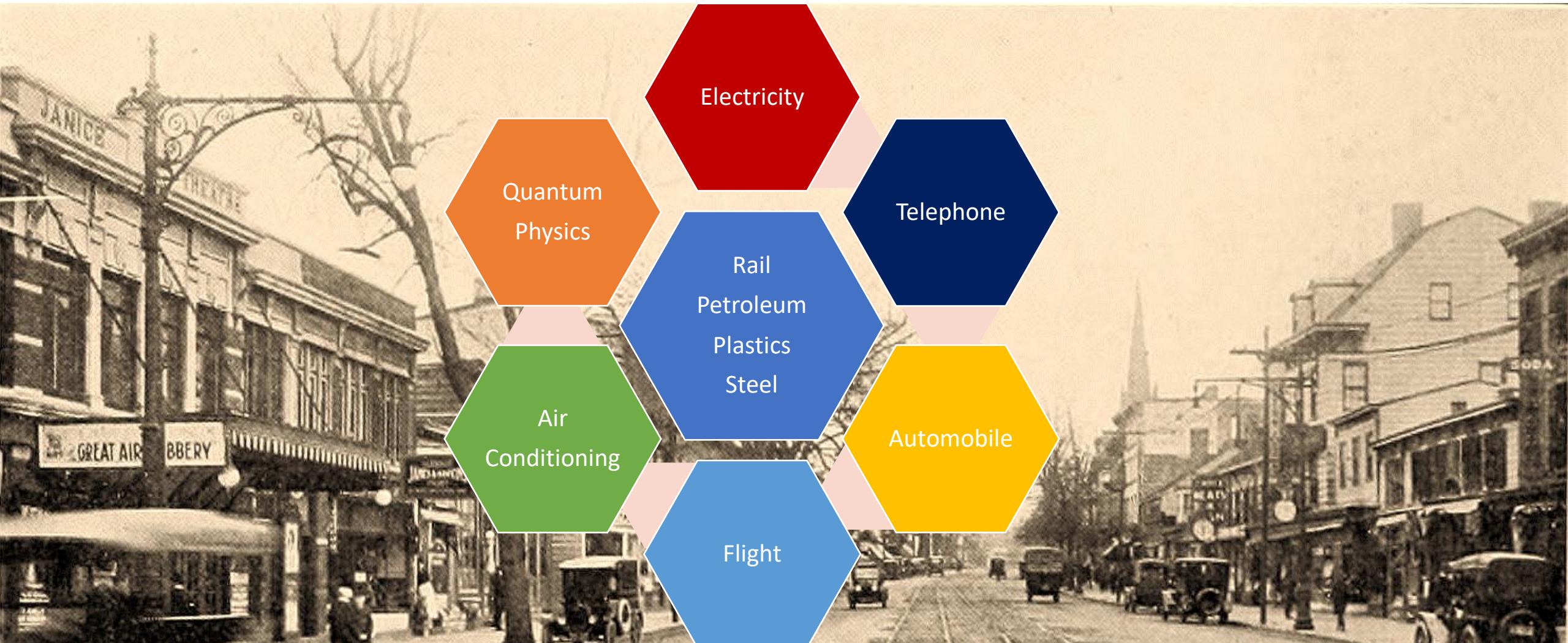


Innovation is multiplying faster than ever.

Generations Ago	Technology
5,000	Speech
750	Agriculture
500	Writing
400	Libraries
40	Universities
20	Printing
15	Accurate Clocks
5	Telephone
4	Radio
3	Television
2	Computer
1	Internet
0	Generative AI



The World in 1925 – 100 Years Ago Today



The World Today in 2025

NANO
TECH

Synthetic
Biology

QUANTUM
Computers

Artificial
Intelligence

Advanced
ROBOTICS

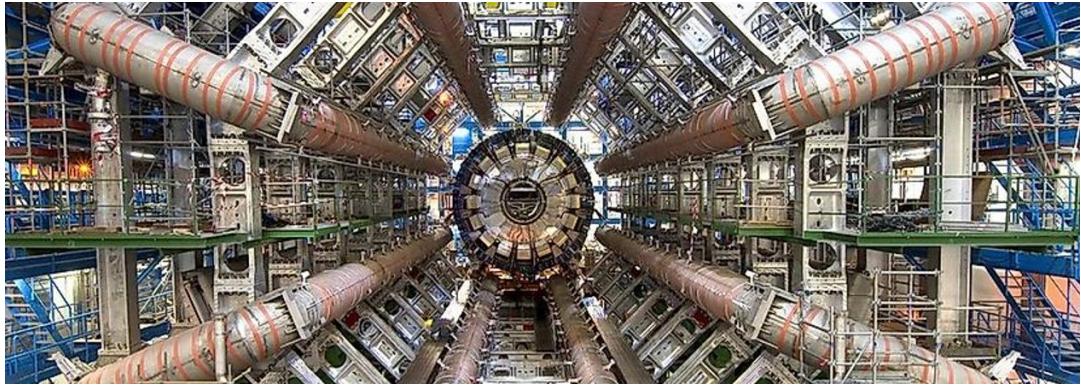
BLOCK
CHAIN

Additive
Manufacturing

We Are the First Generation to:



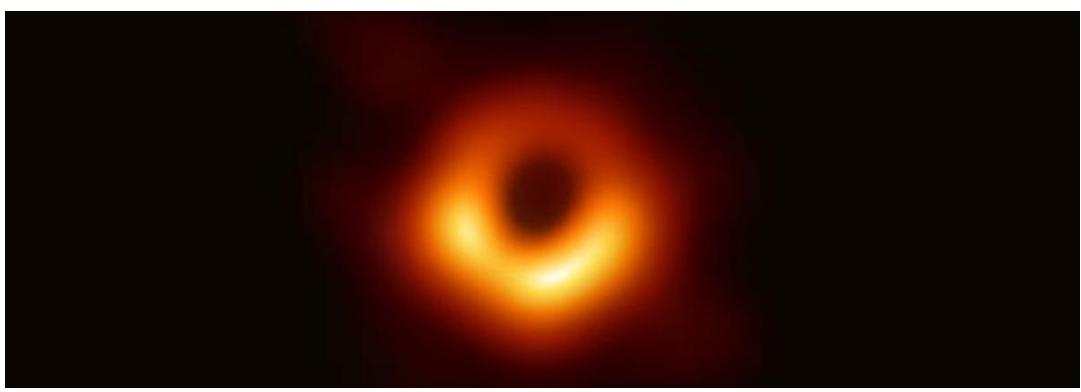
See a sunrise on another planet.



Reach temperatures hotter than the sun.

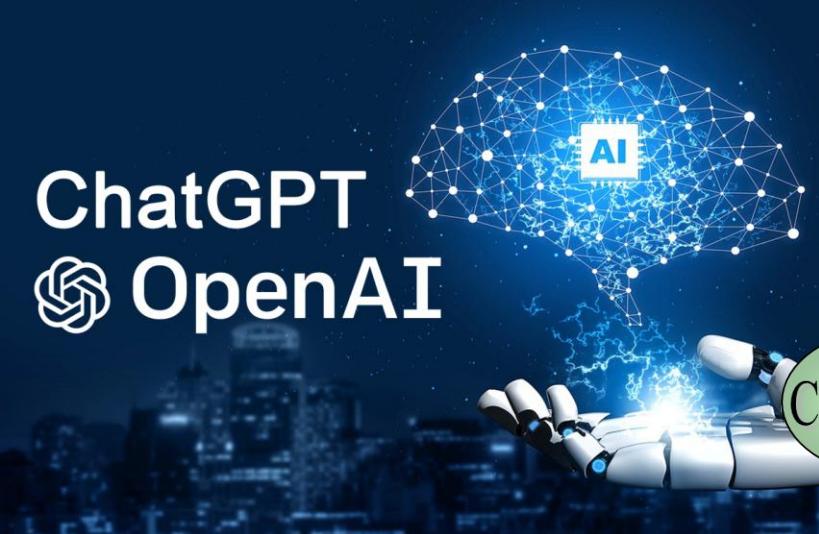


Look deeper into our universe.

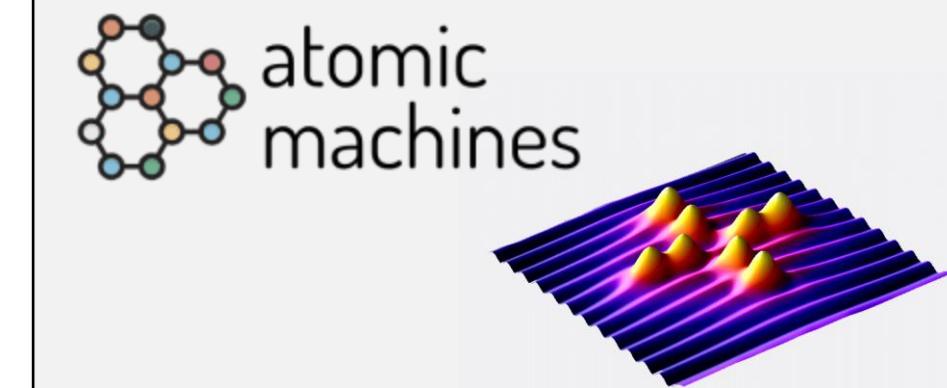
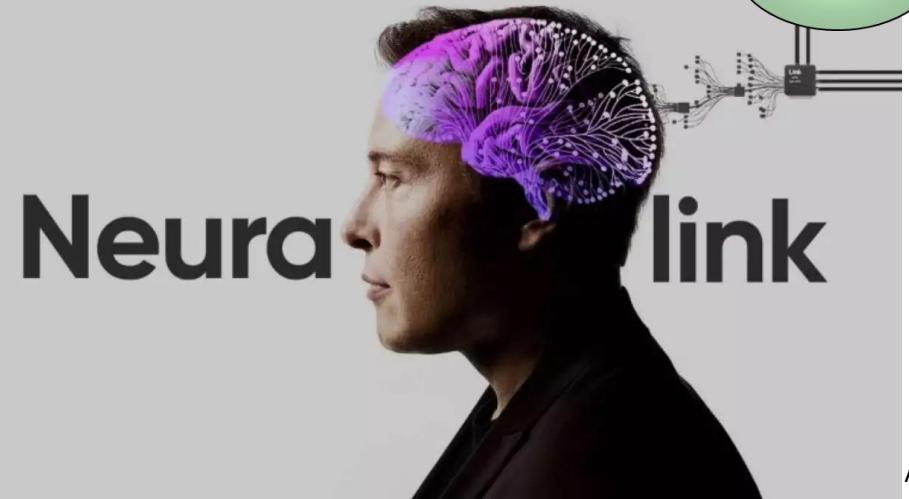
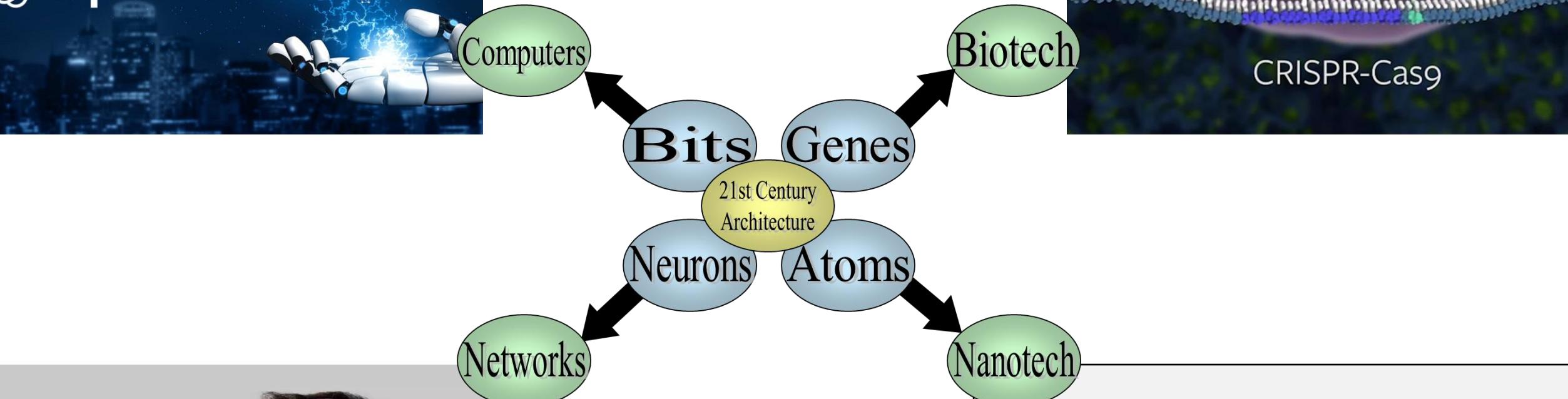
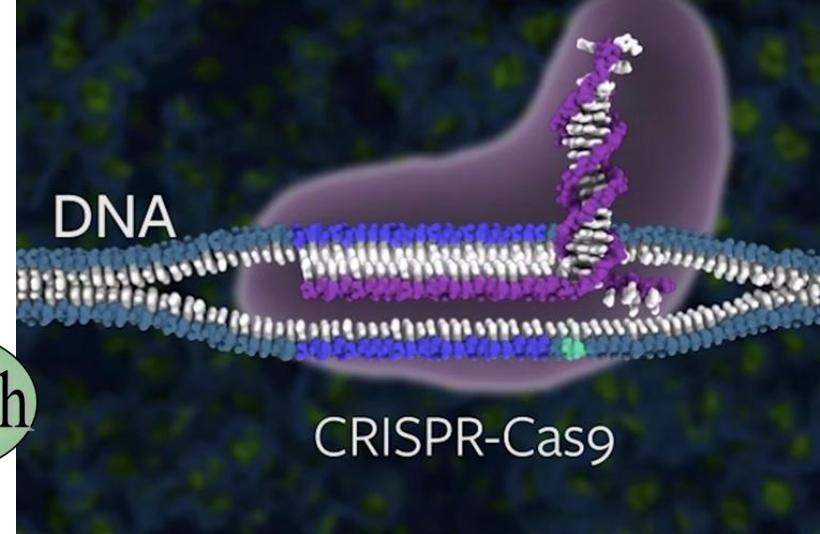


Capture an image of a black hole.

ChatGPT
OpenAI



2025



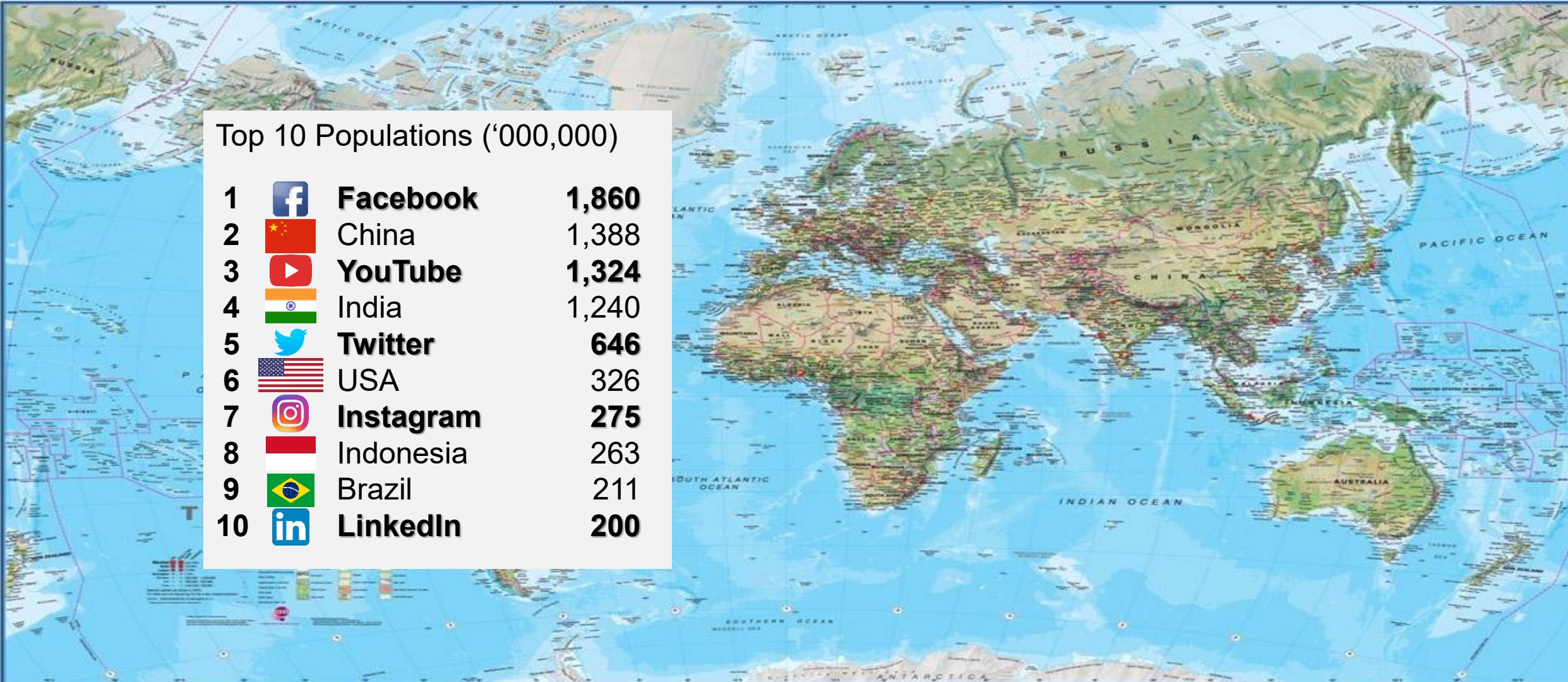


How is our world
changing?

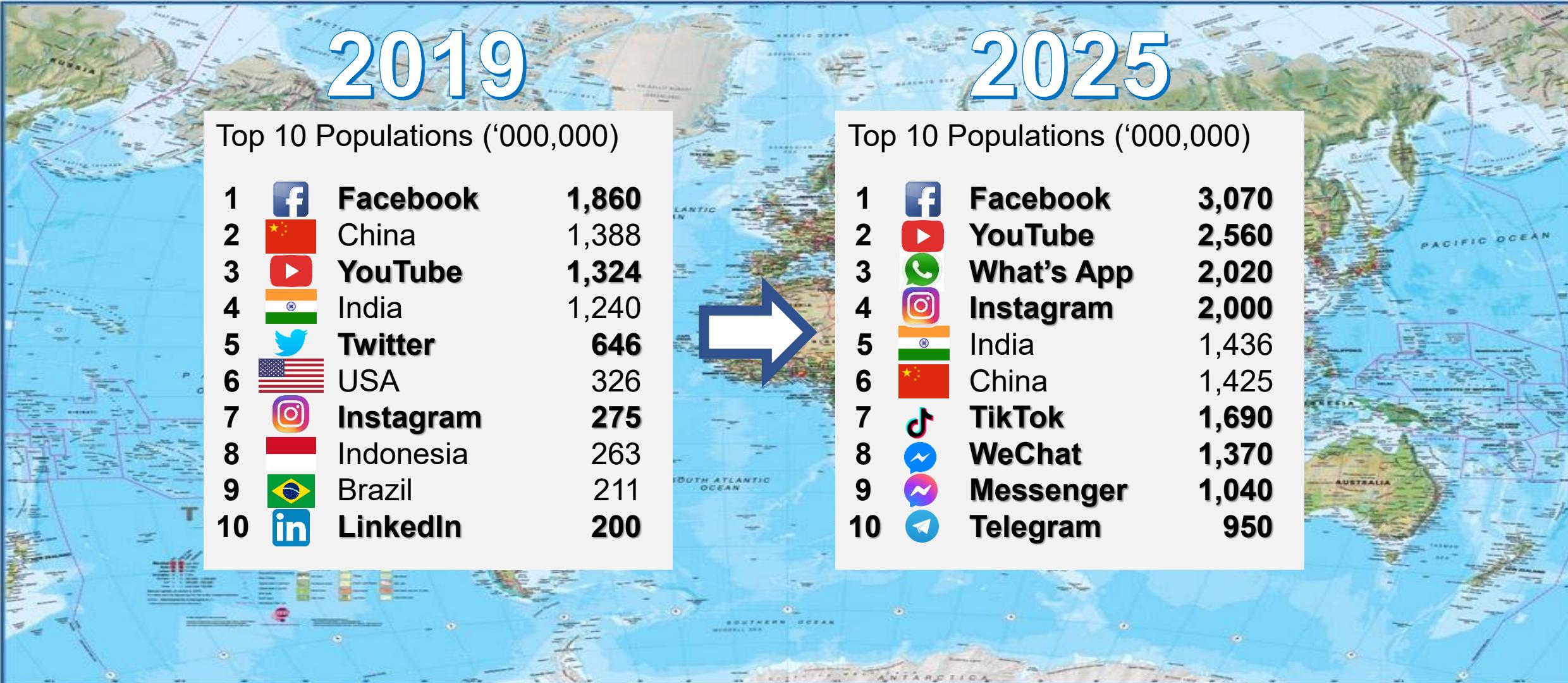
Populations Are Becoming Digital

Top 10 Populations ('000,000)

1		Facebook	1,860
2		China	1,388
3		YouTube	1,324
4		India	1,240
5		Twitter	646
6		USA	326
7		Instagram	275
8		Indonesia	263
9		Brazil	211
10		LinkedIn	200



Populations Are Becoming Digital



Half Our Life





77% Virtual

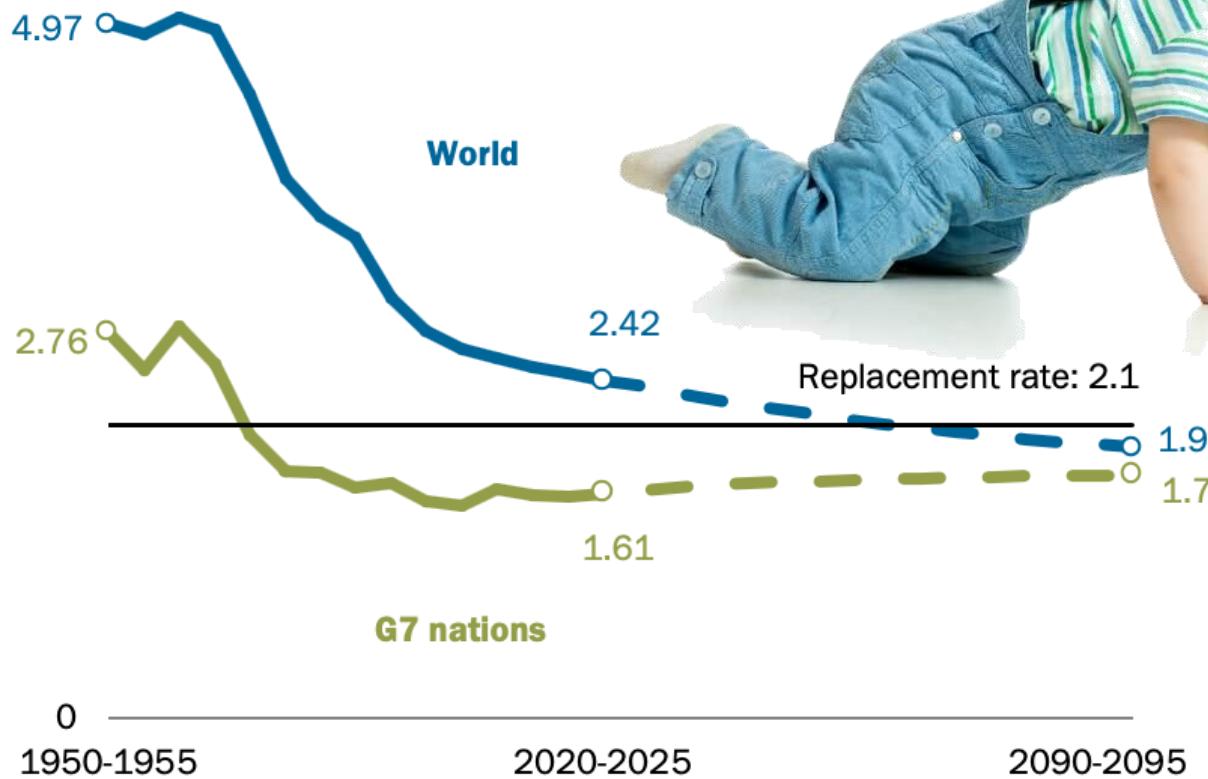


Over 1 Billion People

Less Babies are Being Born

G7 countries' fertility rates have been historically lower than global rates

Number of projected lifetime births per woman (total fertility rate)



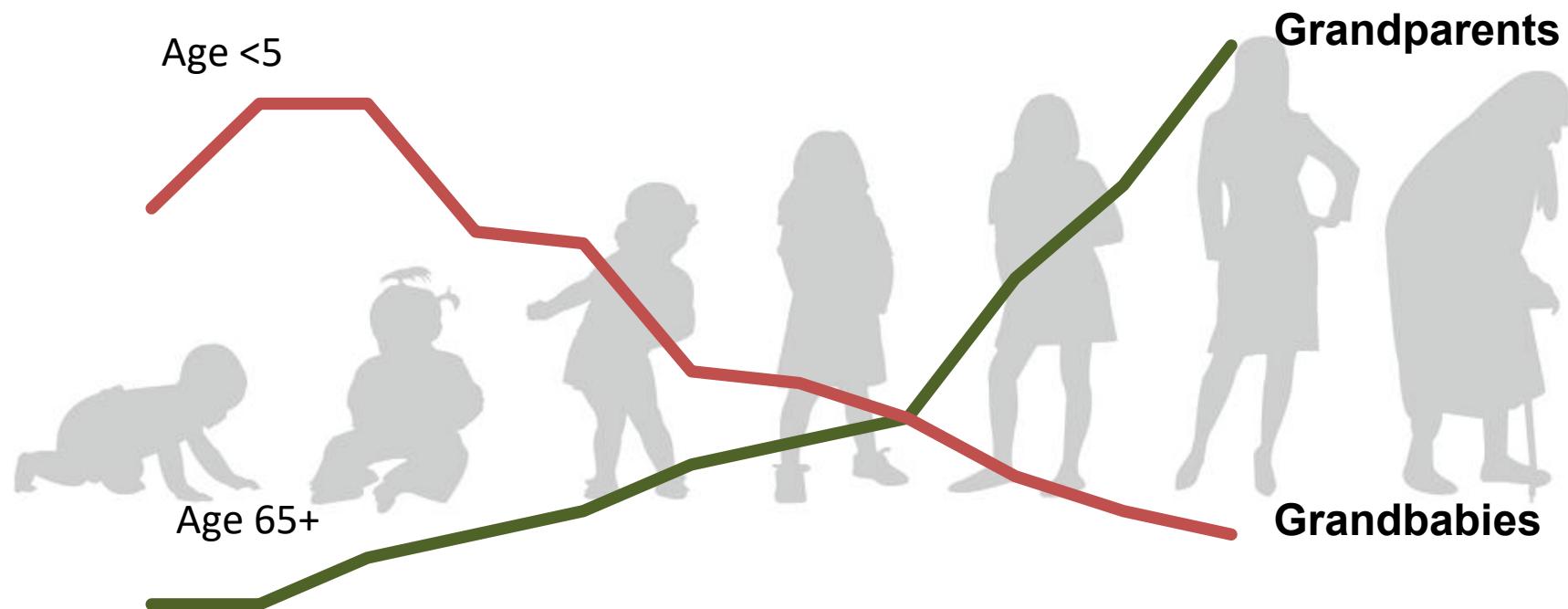
People are Living Longer



10,000 BC = 31 years

The World is Aging

Young and Old as a Percentage of
Global Population: 1950 - 2050



Source: United Nations, *World Population Prospects: The 2010 Revision*.
Available at: <http://esa.un.org/unpd/wpp>.

1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050

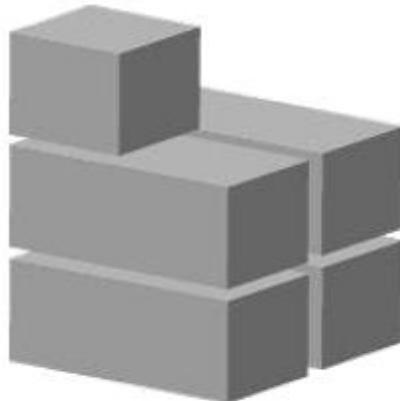
The World is Urbanizing



China Used More Concrete in 3 Years Than the US did in 100 Years

United States 

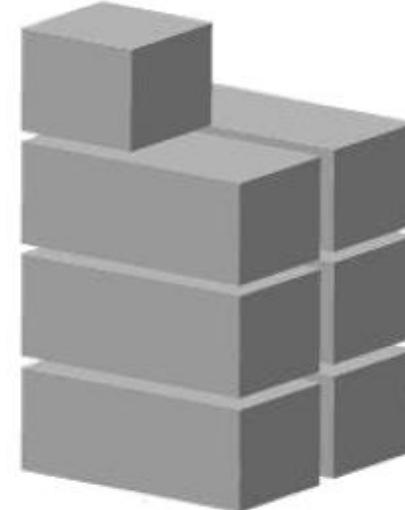
In 100 years



4.5 gigatons
(1901-2000)

China 

in 3 years



6.6 gigatons
(2011-2013)



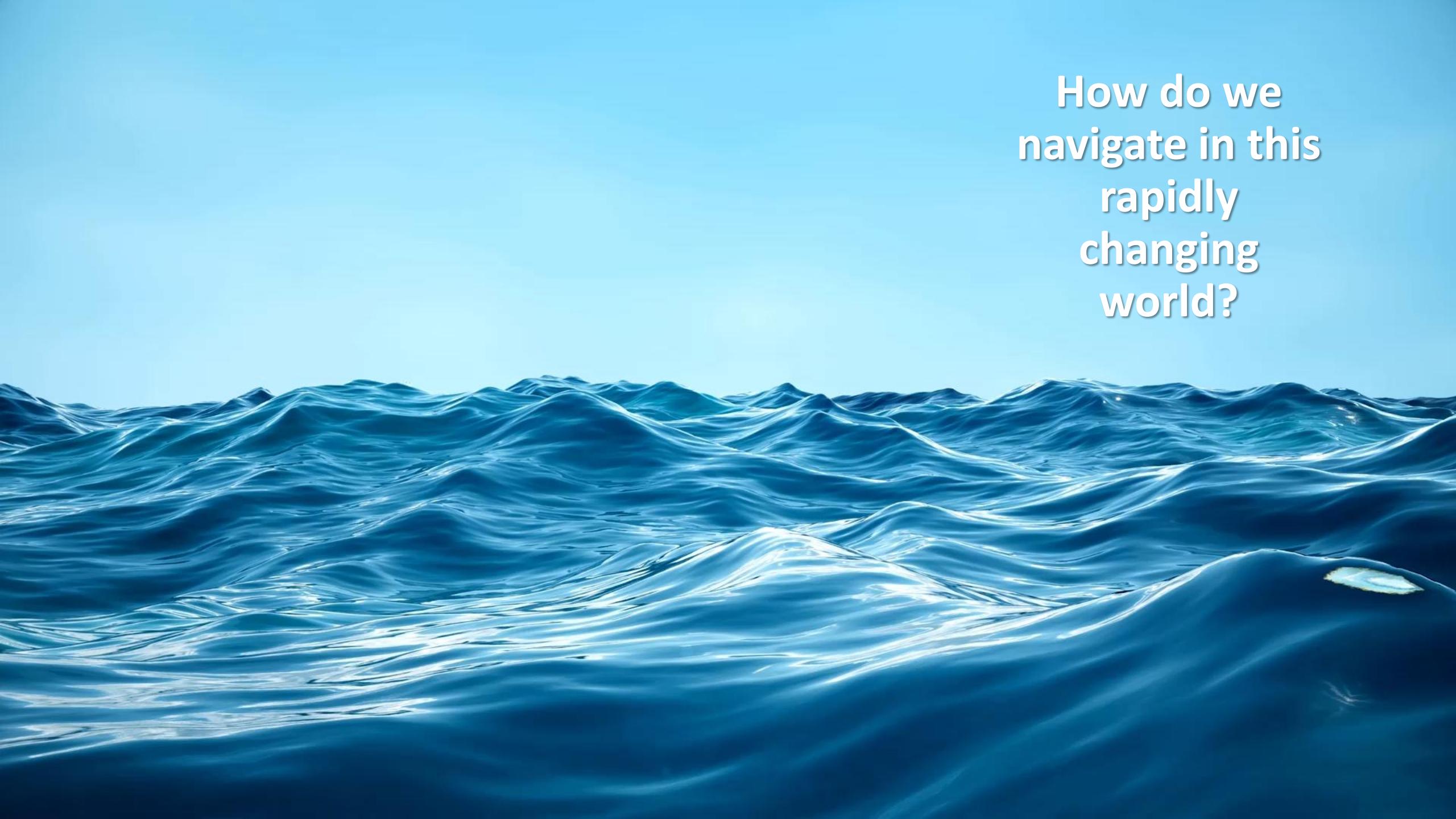
Sources: Gatesnotes, USGS, Cement Statistics, USGS,
Mineral Industry of China 1990-2013

Consumption is outstripping resources

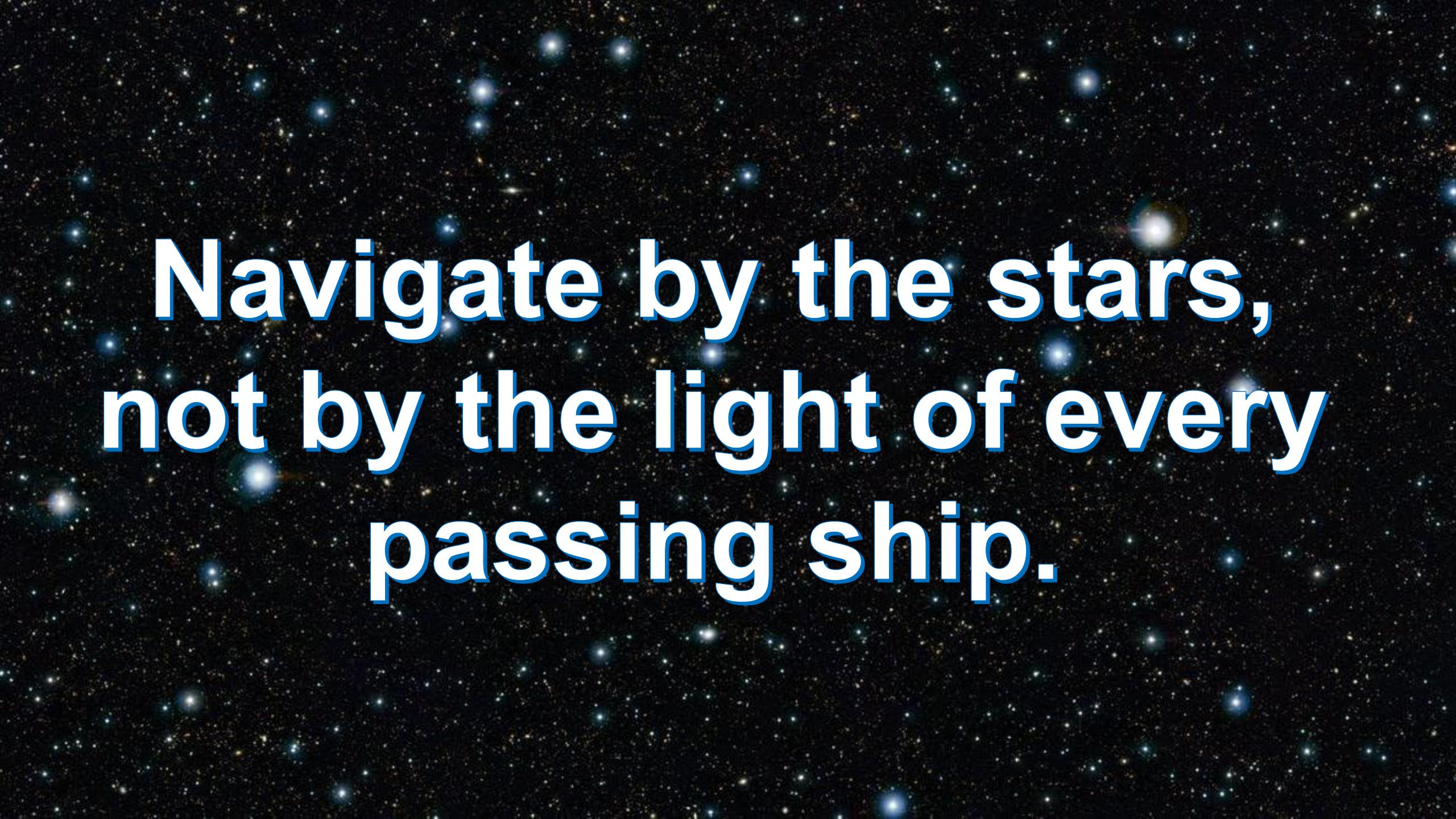
If everyone had the same standard of living as you and me,



we would need three planets to sustain us all.

The background of the image is a wide, calm expanse of blue water, likely the ocean, with gentle ripples and small waves. The horizon line is visible in the distance, where the water meets a clear, pale blue sky.

How do we
navigate in this
rapidly
changing
world?



**Navigate by the stars,
not by the light of every
passing ship.**

What's Your North Star



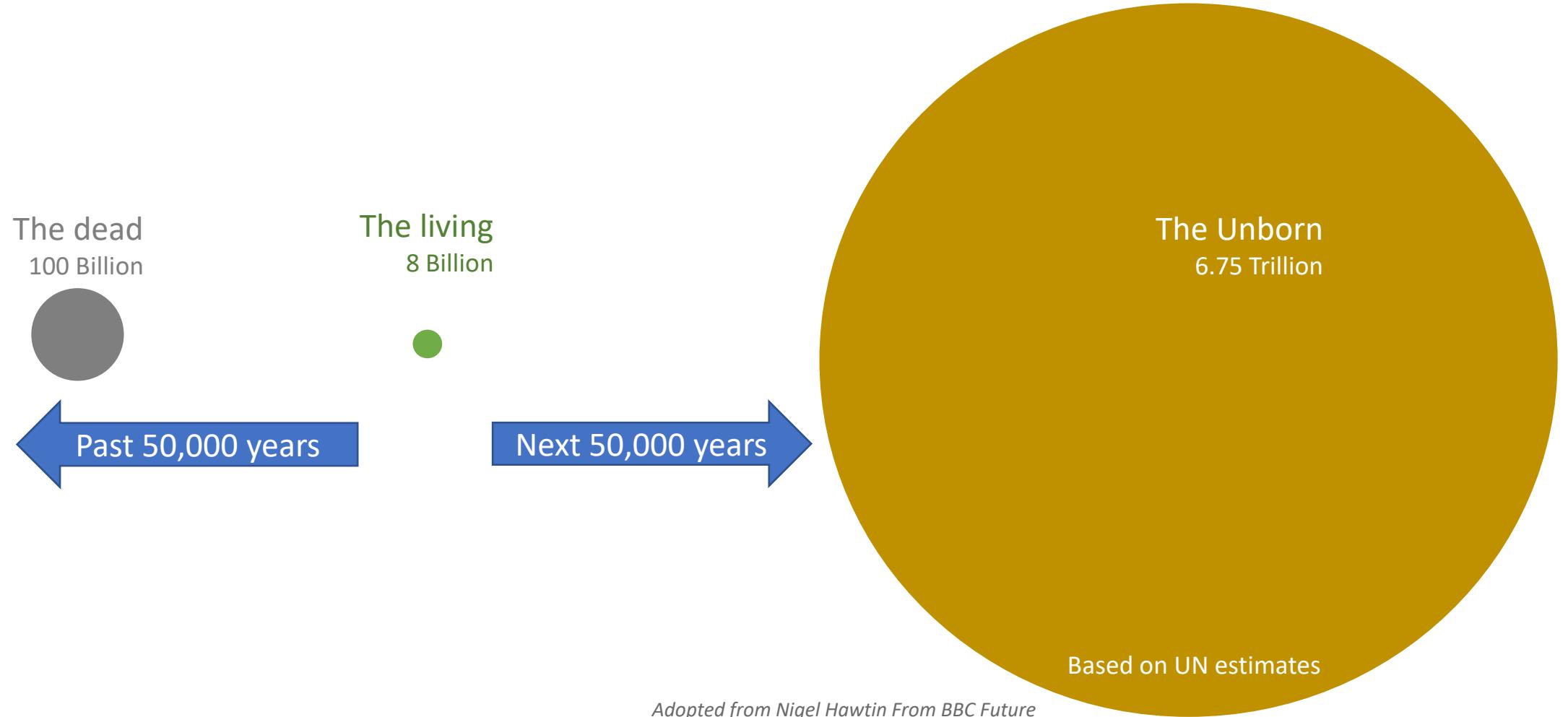
My North Star



*Help create businesses that
improve people's lives.*



Will We be Considered Good Ancestors?





WHO WANTS TO
BE A BILLIONAIRE?

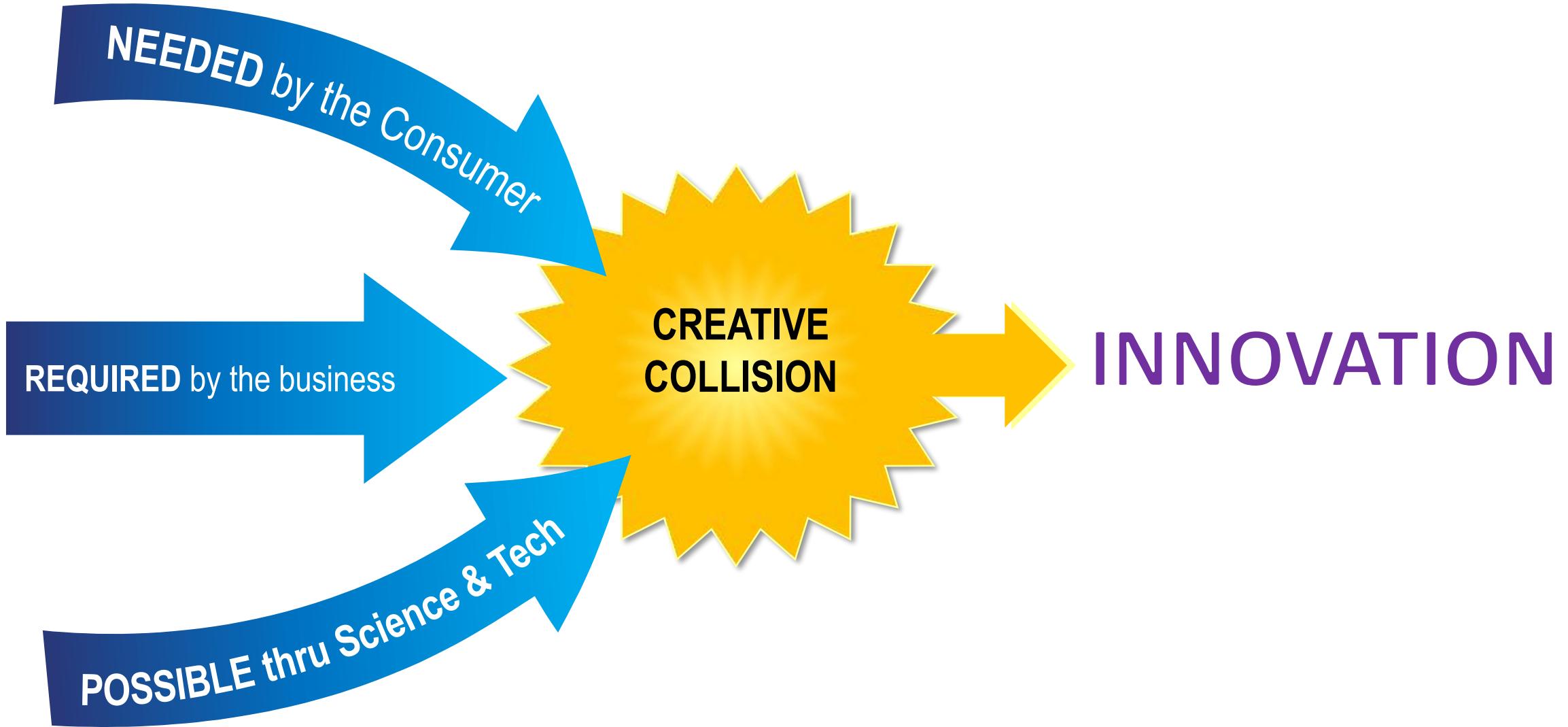
From Accumulating a Billion Dollars



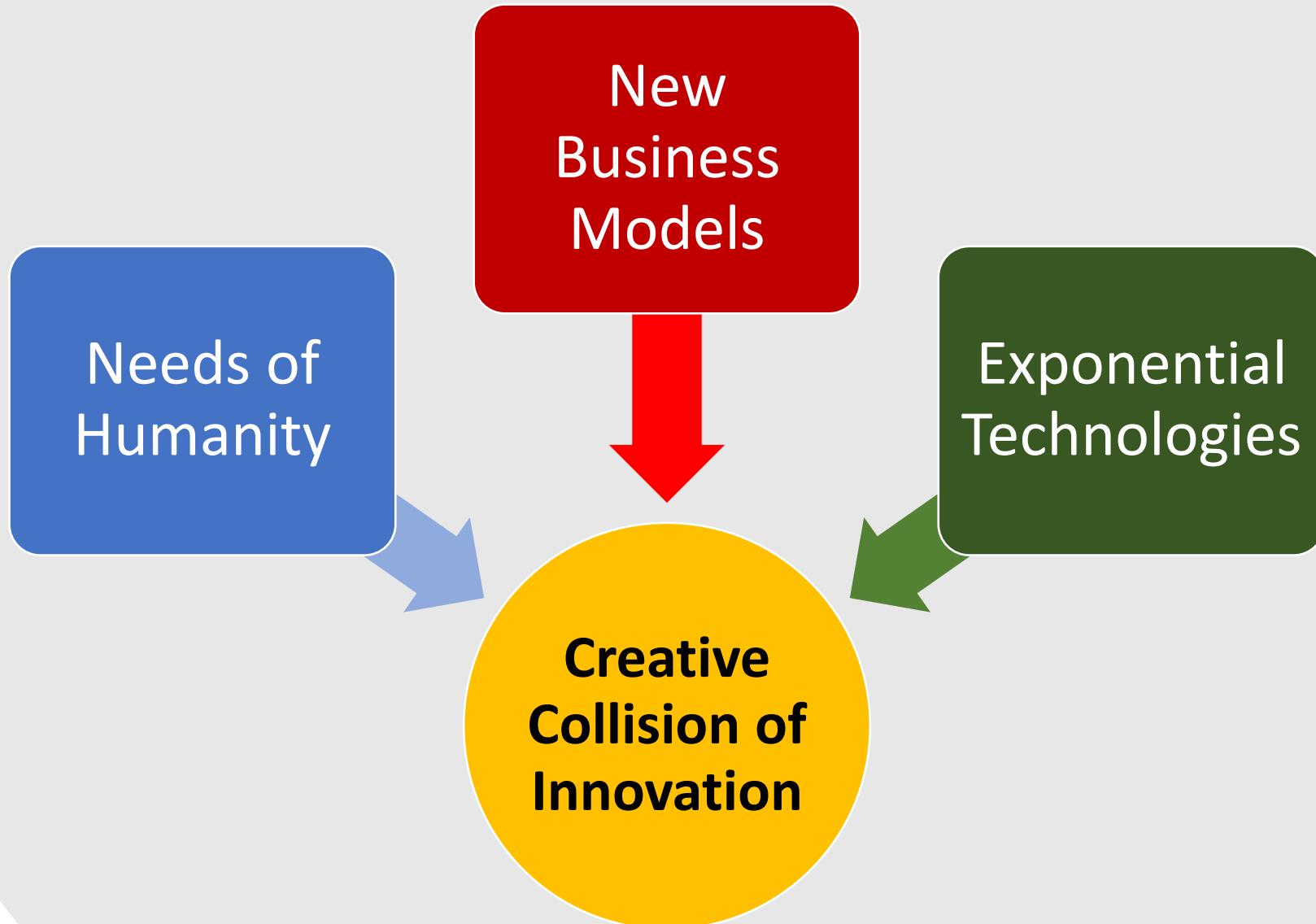
To Helping a Billion People



Consumer-Centric Innovation



Humanity-Centric Innovation



Needs of Humanity



SUSTAINABLE DEVELOPMENT GOALS



1 NO
POVERTY



2 ZERO
HUNGER



3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



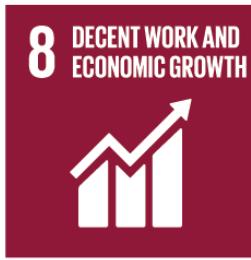
5 GENDER
EQUALITY



6 CLEAN WATER
AND SANITATION



7 AFFORDABLE AND
CLEAN ENERGY



8 DECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



10 REDUCED
INEQUALITIES



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



14 LIFE
BELOW WATER



15 LIFE
ON LAND



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



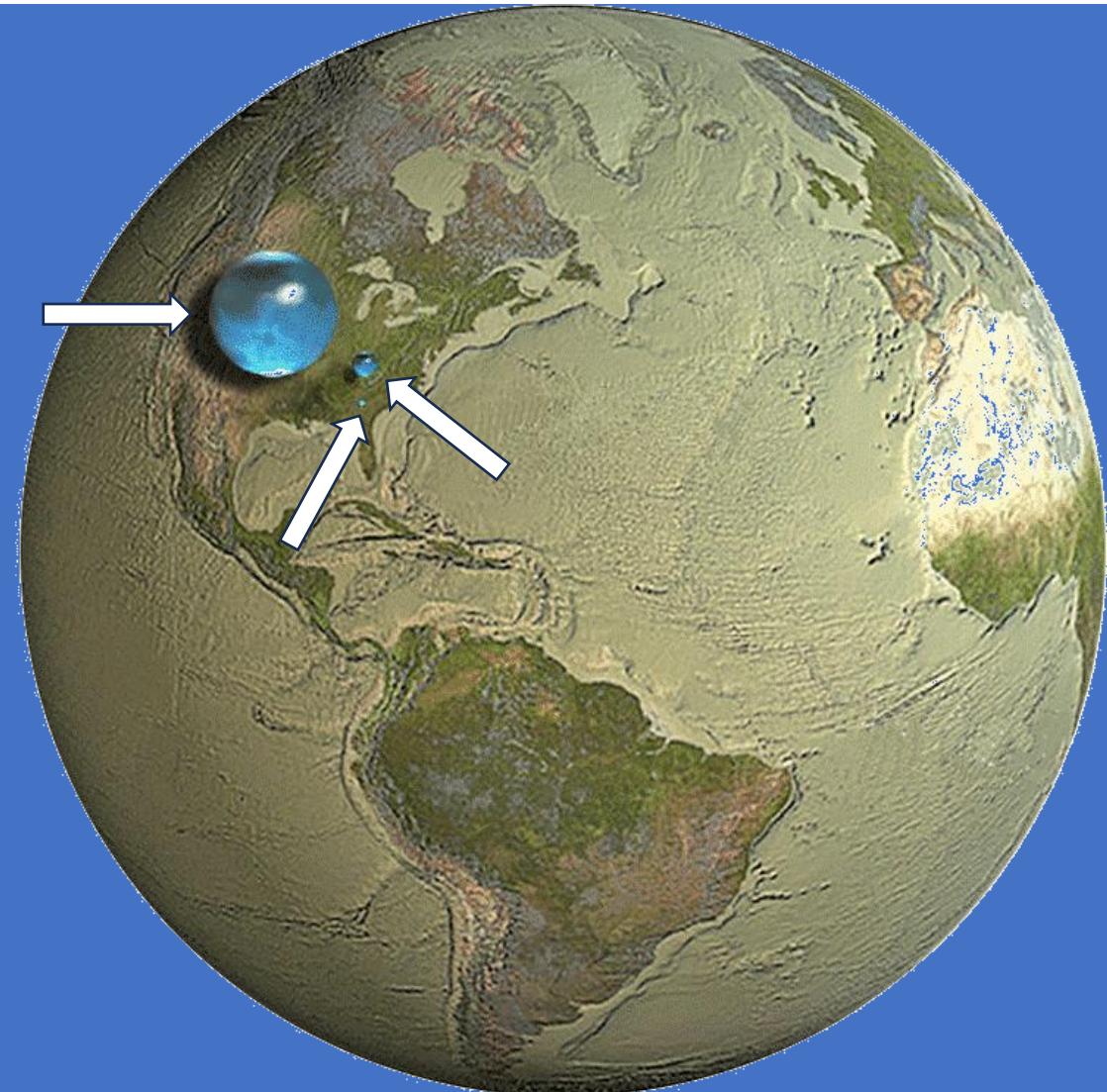
17 PARTNERSHIPS
FOR THE GOALS



SUSTAINABLE
DEVELOPMENT
GOALS



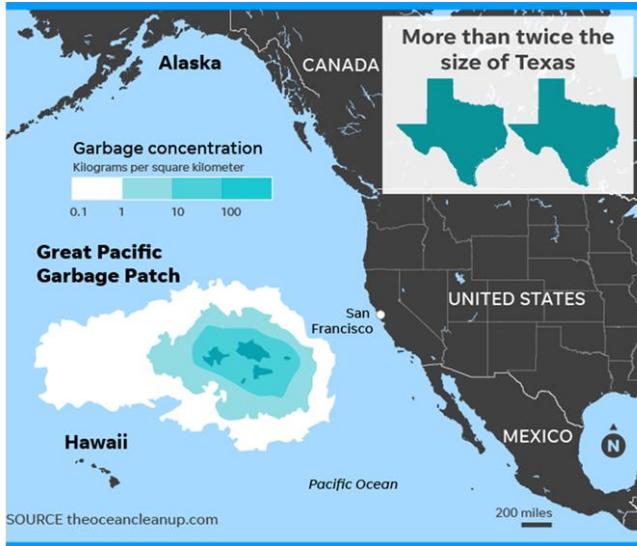
Ensure availability and sustainable management of water and sanitation for all





ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

More Plastic Than Fish by 2050



We Eat About
One Credit Card per Year

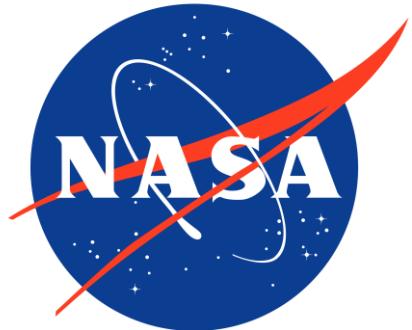
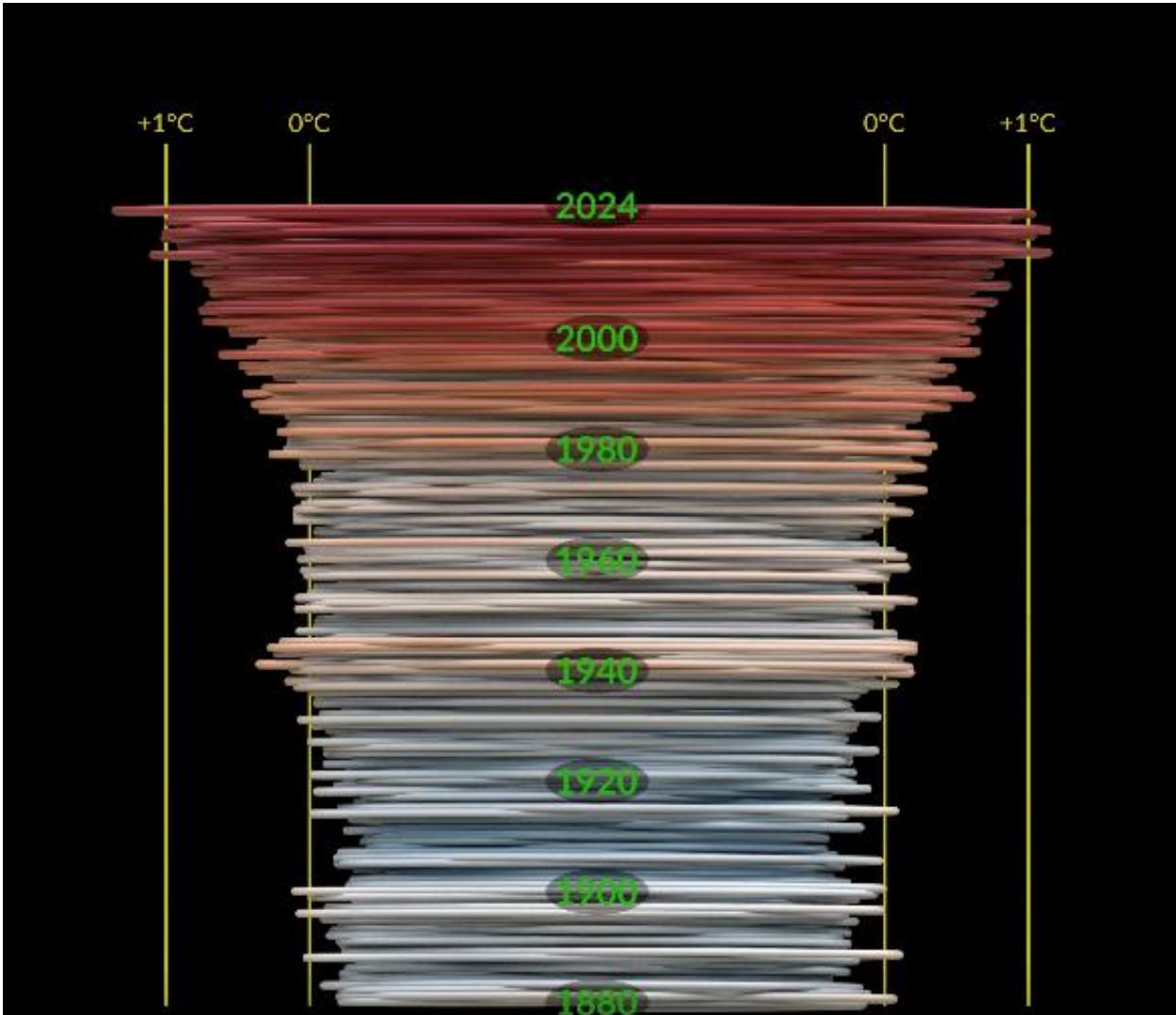


Microplastics Found Circulating in Human Blood For The First Time – 3/25/2022



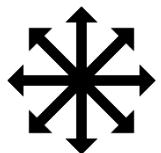


TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS





Closed-Loop
Economy

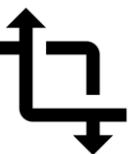


Multiple
World
Models



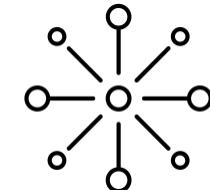
Crowd
Economy

Business Models of the 21st Century


Transformation
Economy



Free Data
Economy



Decentralized
Autonomous
Organizations

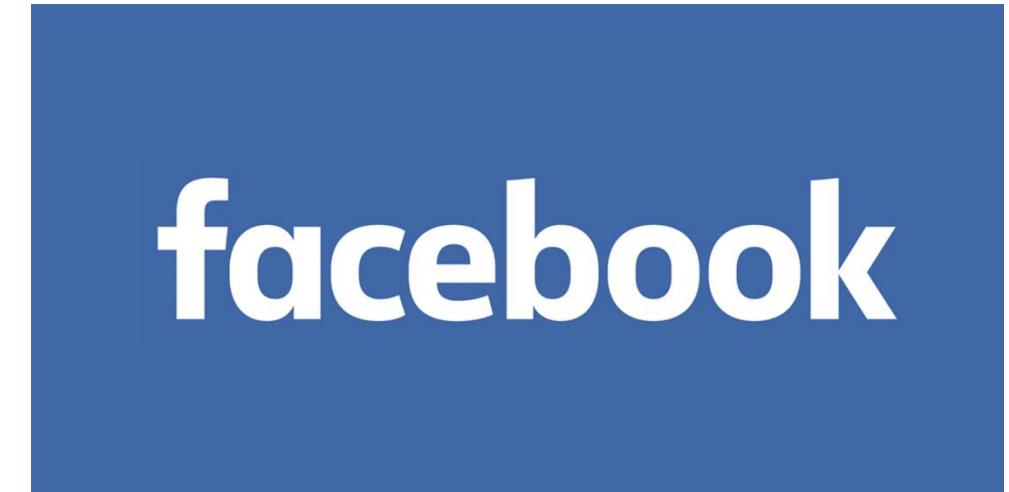
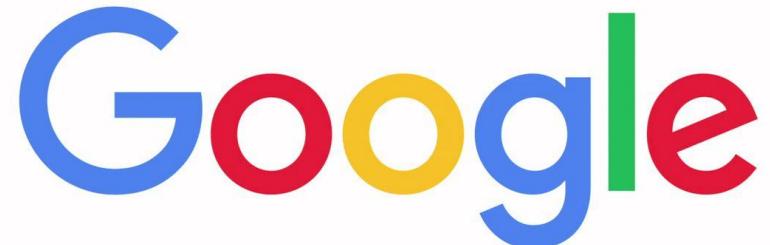


Smart
Economy

1



The Free/Data Economy: This is a business model that creates a platform that provides the customer with free access to information in order to make money from the data gathered from that customer; e.g., Google, Facebook.



2



The Crowd Economy: Crowdsourcing, crowdfunding, ICOs, leveraged assets, and staff-on-demand; essentially, all the developments that leverage billions of people already online and billions coming online; e.g., Airbnb.



3

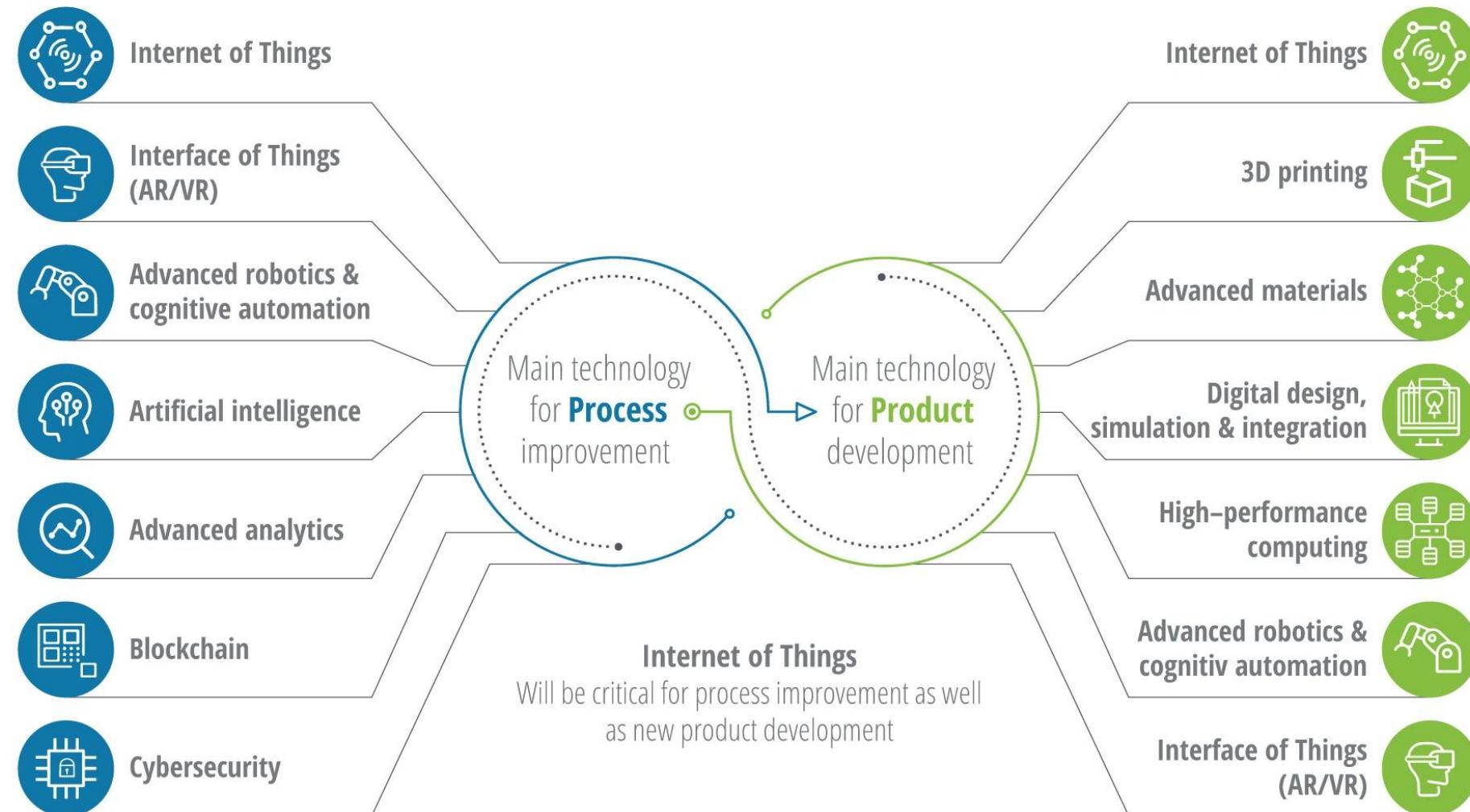


The Smartness Economy: AI is the new electricity. In other words, take any existing tool, and add a layer of smartness. Phones became smartphones, speakers became smart speakers and cars become autonomous vehicles.



ChatGPT

Exponential Technologies

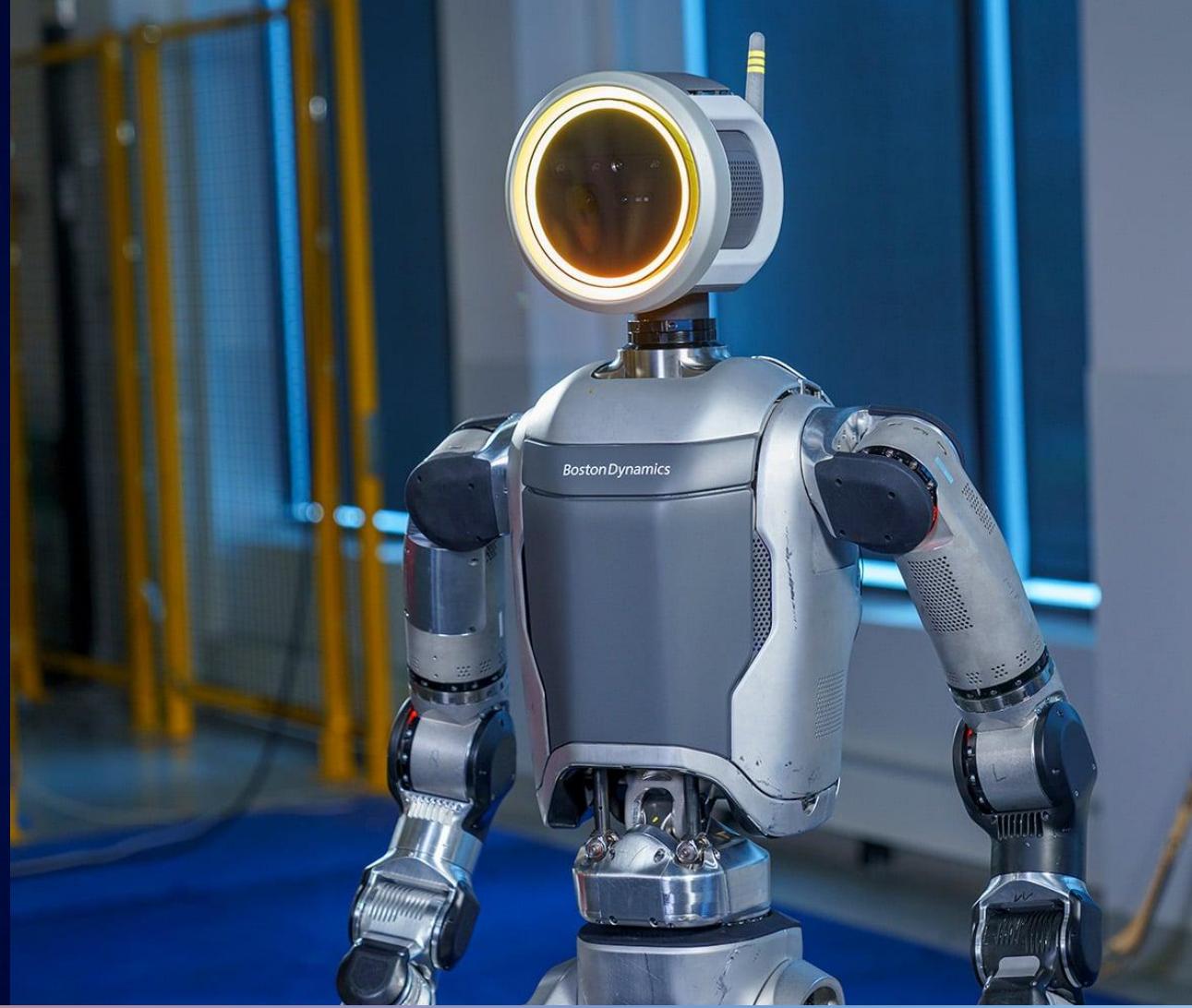


Source: Deloitte analysis.



3D Printed Prosthetics





Advanced Robotics

AR Glasses for Navigation



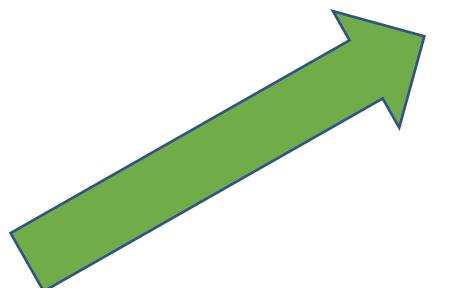
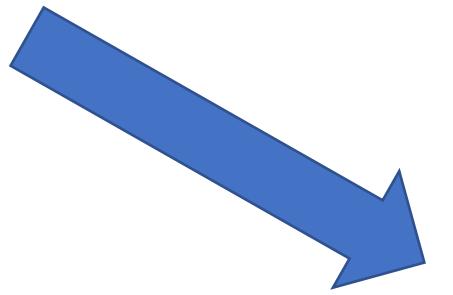
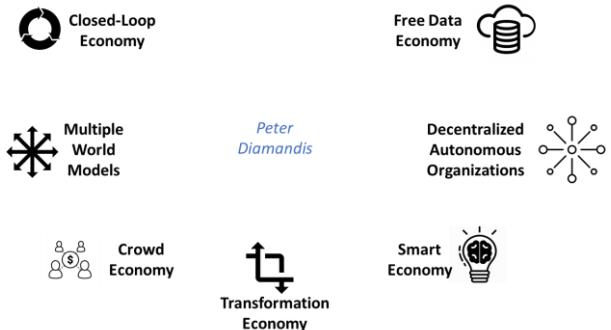
SUSTAINABLE DEVELOPMENT GOALS



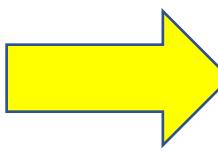
Needs
of Humanity

New
Business Models

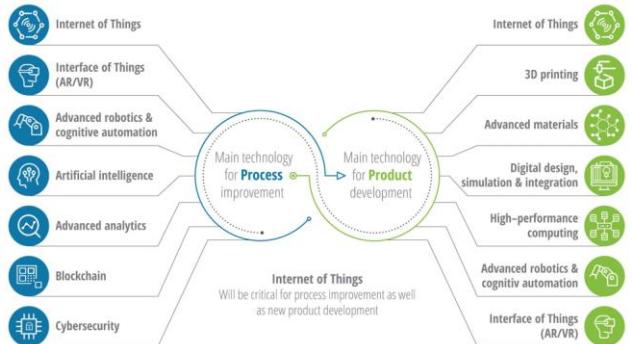
Exponential
Technologies



**Creative Collision of
Humanity-Centric
Innovation**



Exponential Technologies



Source: Deloitte analysis.

Deloitte Insights | deloitte.com/insights



*“Never doubt that
a small group of
thoughtful,
committed,
citizens can
change the world.
Indeed, it is the
only thing that
ever has.”*

- Margaret Mead

“FreeWater is the world’s first free beverage company!”

**Josh Cliffords,
FreeWater
Founder & CEO**



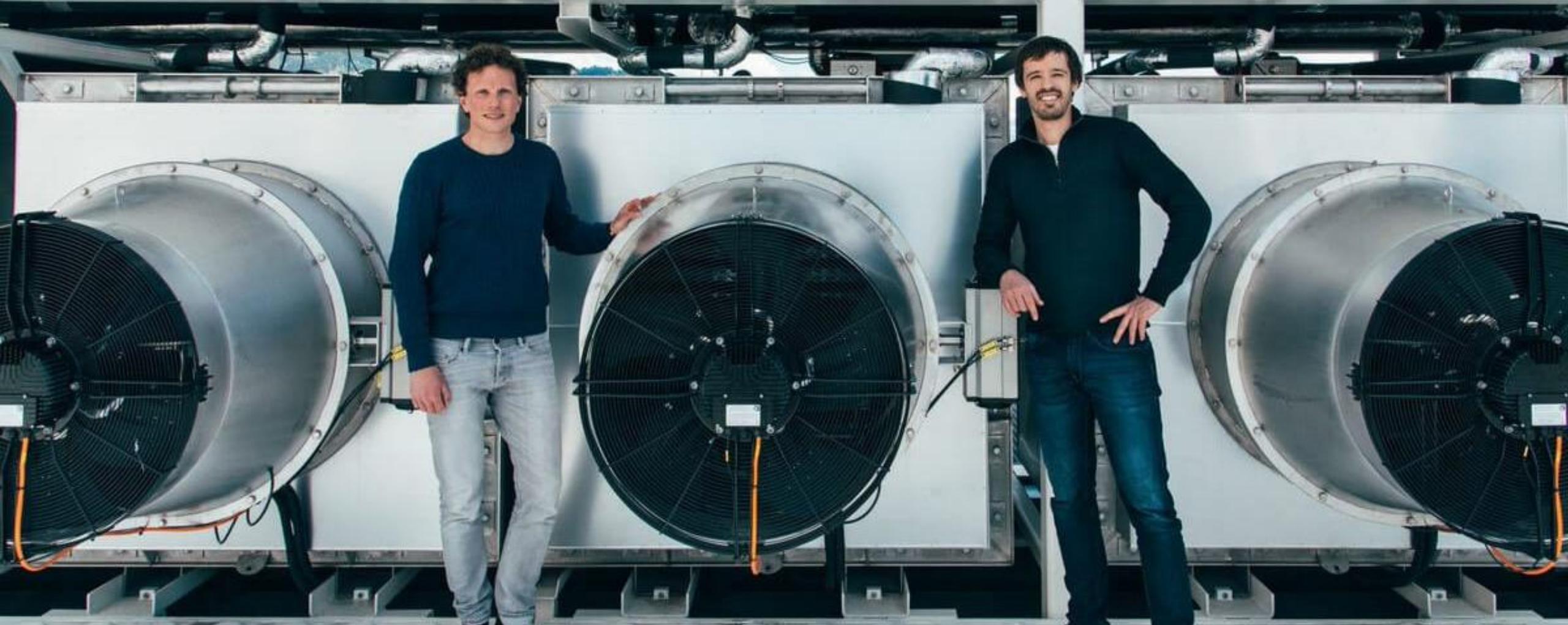


**“With the right technology,
we can clean the ocean of plastic.”**
22-Year-Old Boyan Slat
CEO of The Ocean Cleanup



Ocean Cleanup has removed 17 million pounds of plastic from the ocean.

Goal is to remove 90% of floating plastic by 2040.

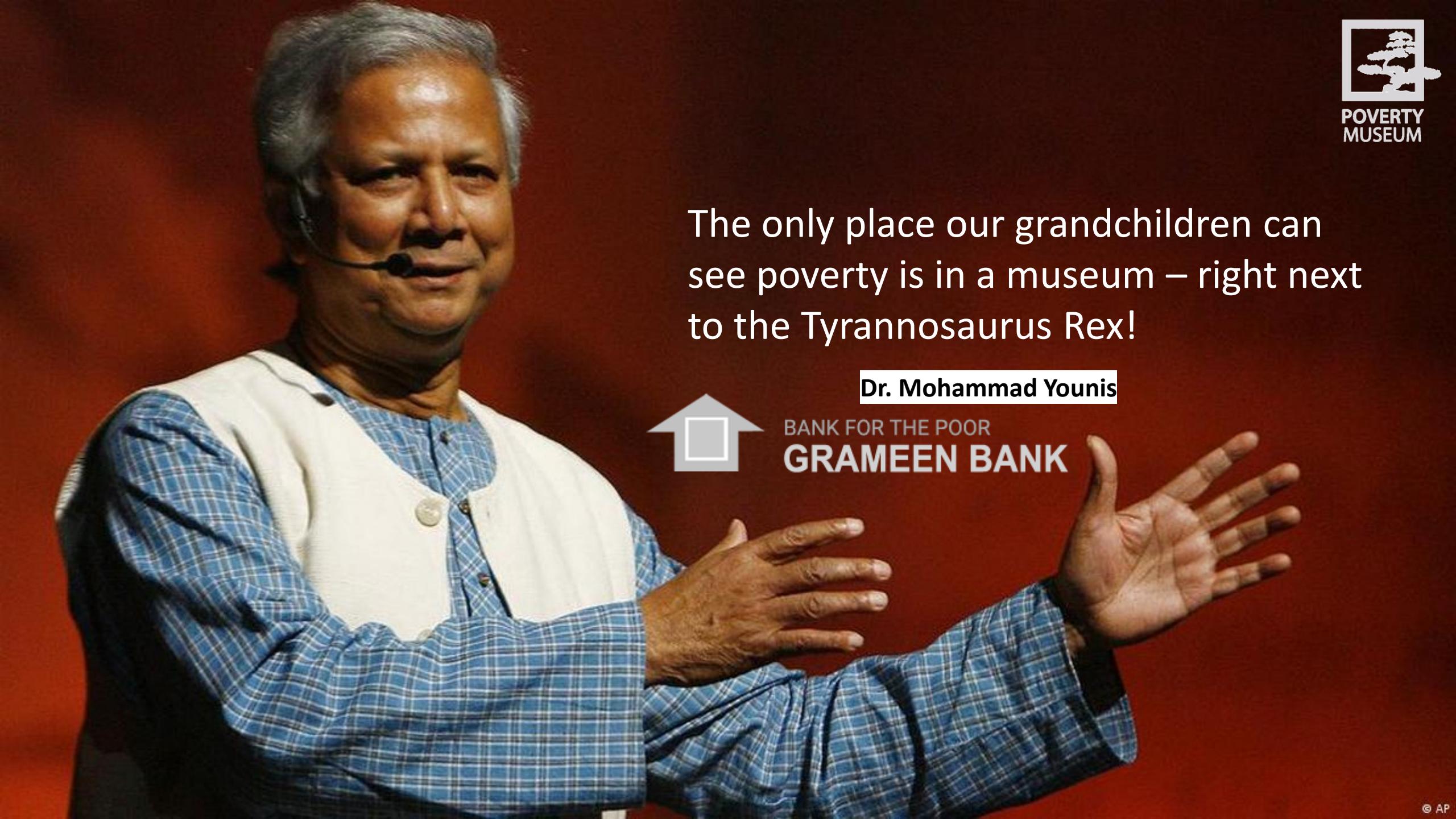


[Dr. Christoph Gebald](#)

[Dr. Jan Wurzbacher](#)



POVERTY
MUSEUM



The only place our grandchildren can see poverty is in a museum – right next to the Tyrannosaurus Rex!

Dr. Mohammad Younis



BANK FOR THE POOR
GRAMEEN BANK

You must be the
CHANGE
you want to
SEE
in the
WORLD



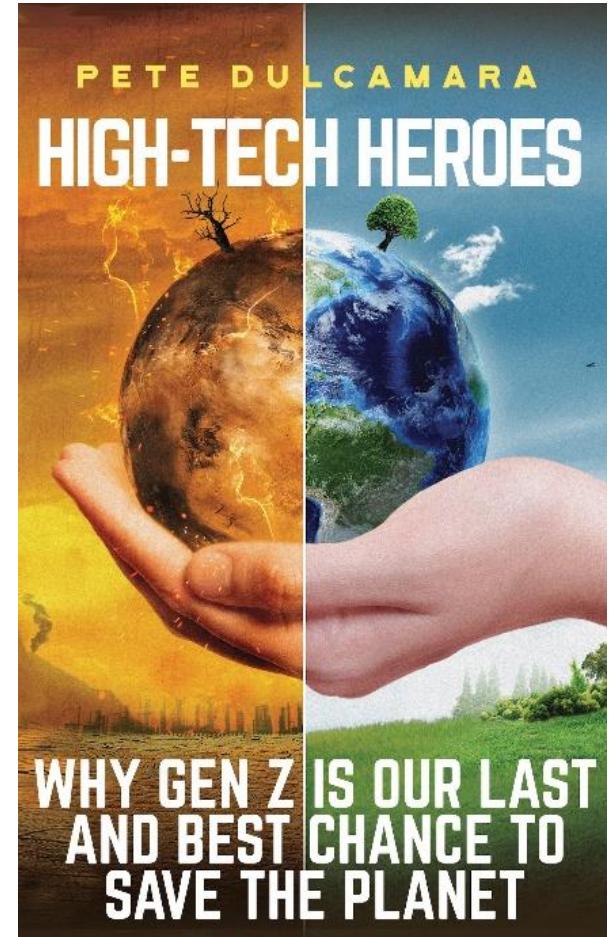
Armin Lear Press appreciates the work of the American Chemical Society and celebrate those honored for their work. We are thrilled that our distinguished author, Pete Dulcamara, is presenting at this event.

Anyone associated with this conference, or ACS at large, is eligible for a 30% discount on Pete's book **HIGH-TECH HEROES**. This discount goes into effect May 23, 2025. All we need is your email address to send you the discount code. You can give it to Pete or send a note to mkarinch@arminlear.com.

- **Humanity-centric Innovation:** A results-driven framework that empowers leaders to align emerging technologies with business goals and social purpose, solving challenges through sustainable solutions.
- **Actionable Roadmaps:** Practical strategies for leveraging AI, advancing sustainability, and implementing data-driven solutions to address real challenges for immediate impact.
- **AI for Sustainability and Climate Action:** Using AI to predict and mitigate environmental crises, optimize resource usage, and enable the implementation of scalable, circular economies.
- **Data-Driven Circular Economies:** A blueprint for integrating data, technology, and sustainable concepts to completely eliminate waste, optimize planetary resources, and redefine the very concept of currency.
- **Innovative Use of Biomaterials and Biodata:** Methods to transform waste into valuable resources, harnessing “waste” biodata to improve health, sustainability, and industrial efficiency.



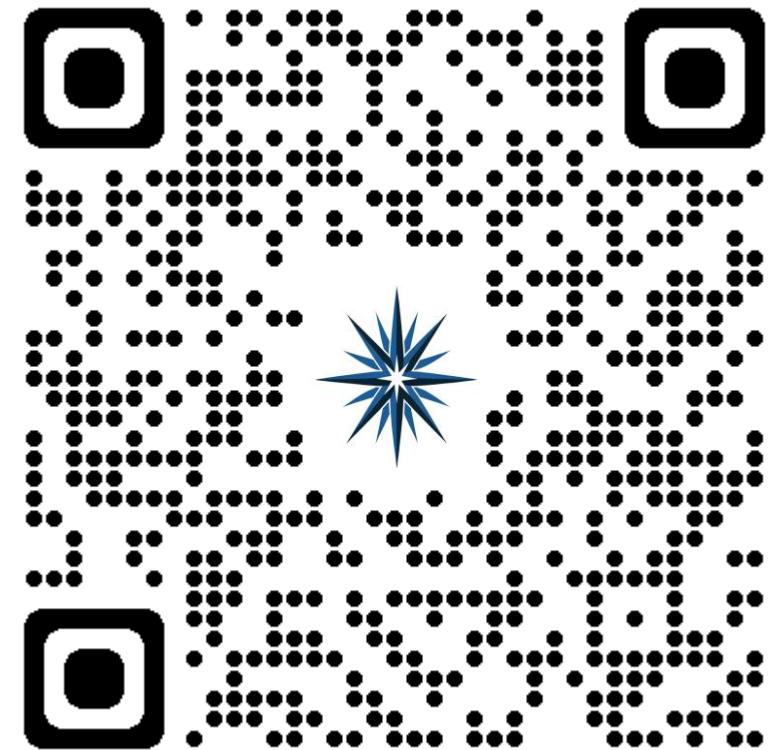
Pete Dulcamara is a globally recognized innovation strategist, speaker, and thought leader in AI, sustainability, and digital transformation. A former Chief Scientist at Kimberly-Clark and senior R&D executive at Dow Chemical, he now advises global business leaders on leveraging technology to solve humanity's greatest challenges. His mission? To inspire a new generation to redefine success—not by wealth, but by improving lives.





Pete Dulcamara
Founder

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