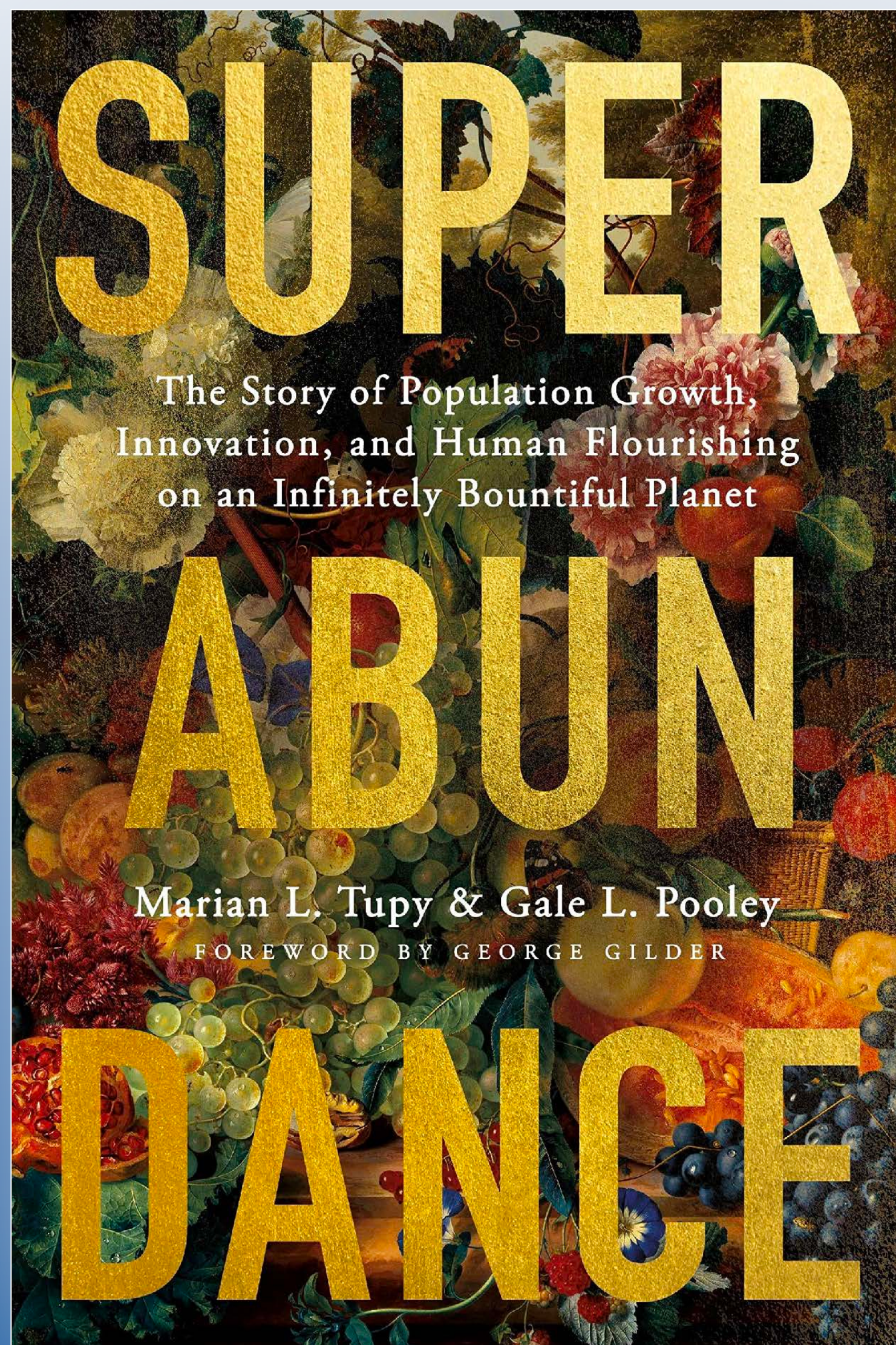




STUDENTS FOR LIBERTY
A F R E E R F U T U R E

Reykjavik, Iceland
Saturday, October 4, 2025



Gale Pooley, PhD



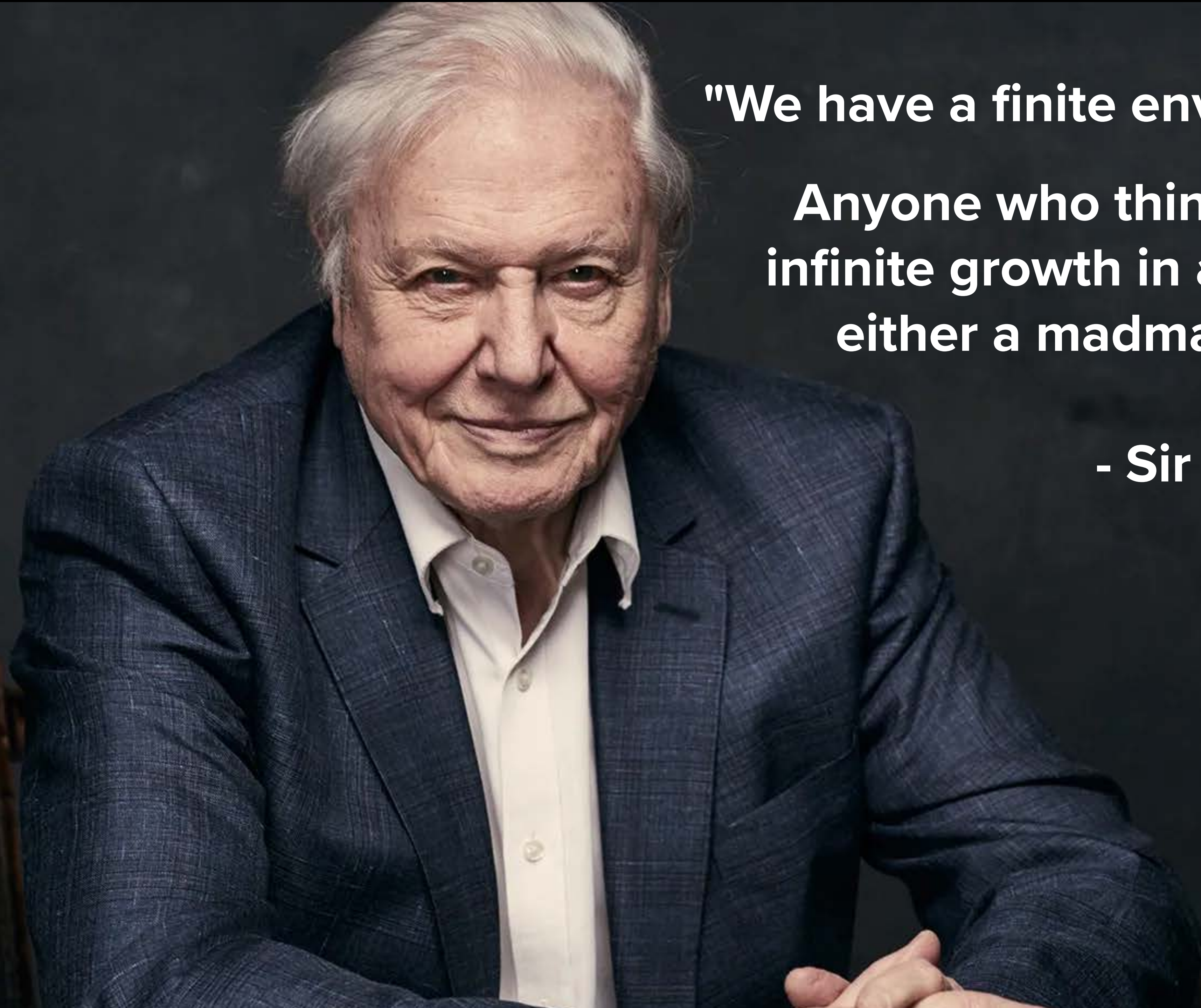
Marian Tupy, PhD



**This universe is
finite, its resources,
finite...**

**if life is left
unchecked, life will
cease to exist.**

It needs correction.



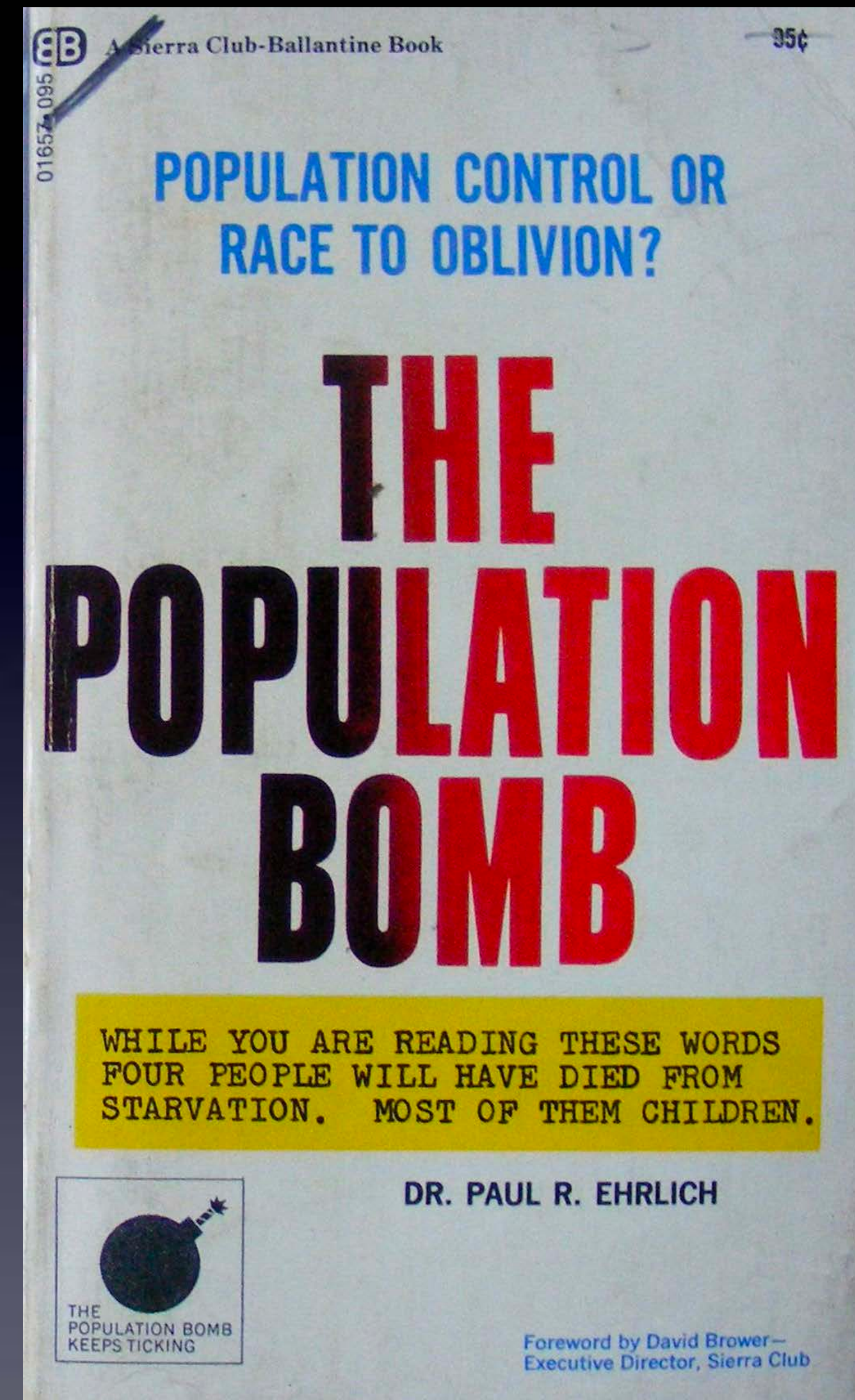
"We have a finite environment – the planet.

**Anyone who thinks that you can have
infinite growth in a finite environment is
either a madman or an economist.**

- Sir David Attenborough



Paul Ehrlich





Thomas Malthus

AN ESSAY
ON THE
PRINCIPLE OF POPULATION;
OR, A
VIEW OF ITS PAST AND PRESENT EFFECTS
ON
HUMAN HAPPINESS;
WITH
AN INQUIRY INTO OUR PROSPECTS RESPECTING
THE FUTURE REMOVAL OR MITIGATION OF
THE EVILS WHICH IT OCCASIONS.

By T. R. MALTHUS, A. M.
LATE FELLOW OF JESUS COLLEGE, CAMBRIDGE.

IN TWO VOLUMES.

VOL. I.

THE THIRD EDITION.

LONDON:

PRINTED FOR J. JOHNSON, IN ST. PAUL'S CHURCH-YARD,

BY T. BENSLEY, BOLT COURT, FLEET STREET.

1806.



**Collapse
Gap**



Julian Simon



**Abundance
Gap**



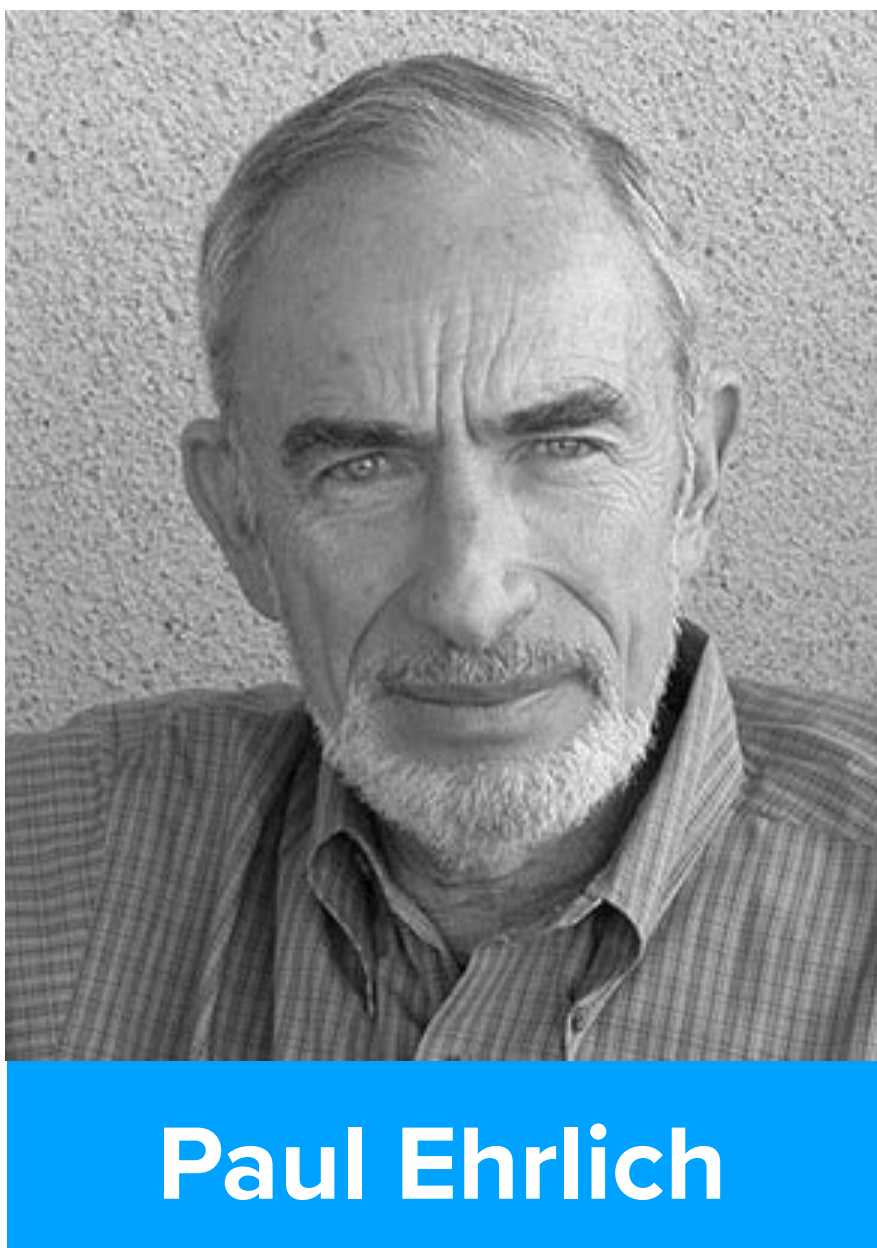
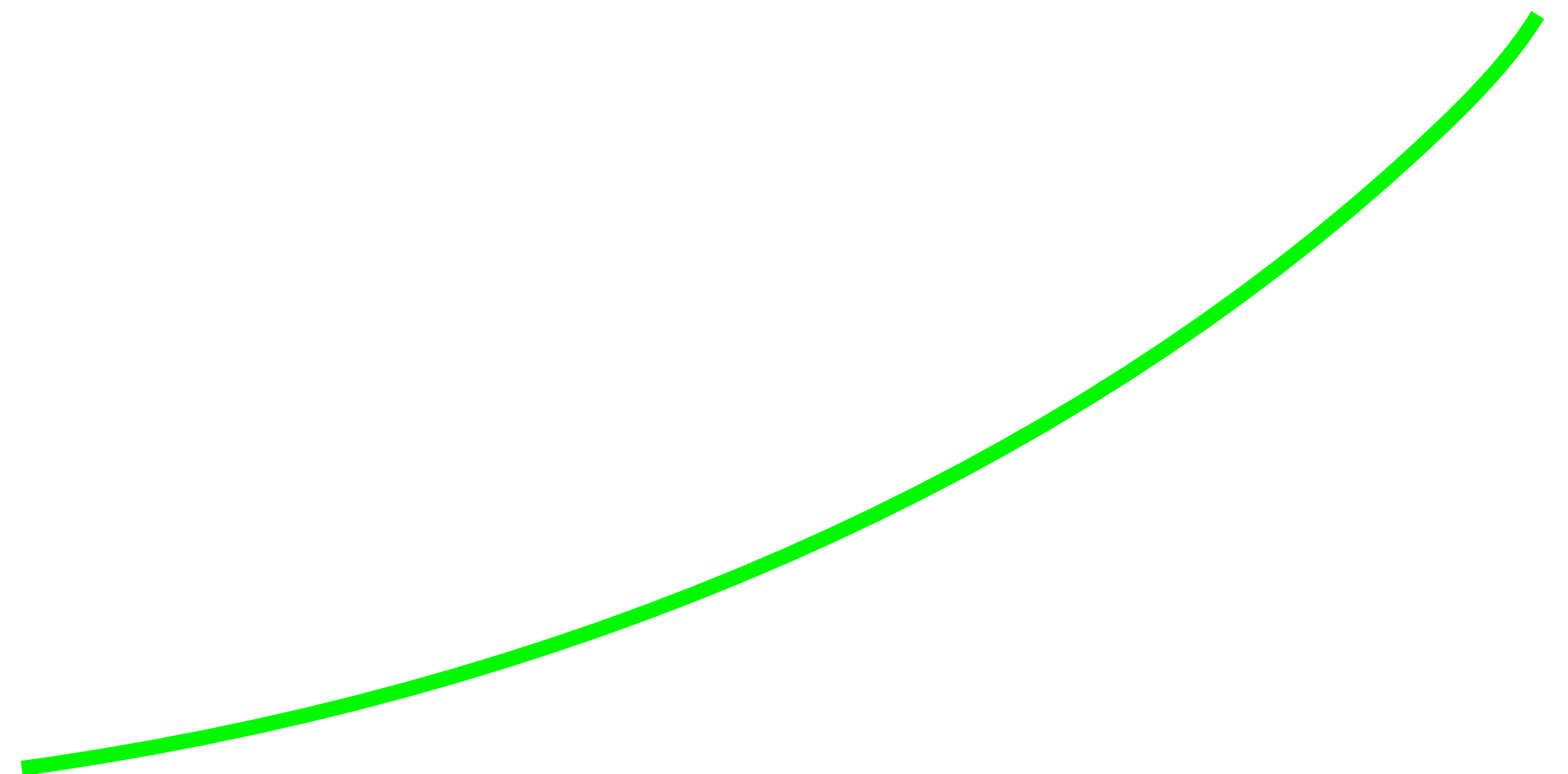
Science

**Resources, Population, Environment: An
Oversupply of False Bad News**

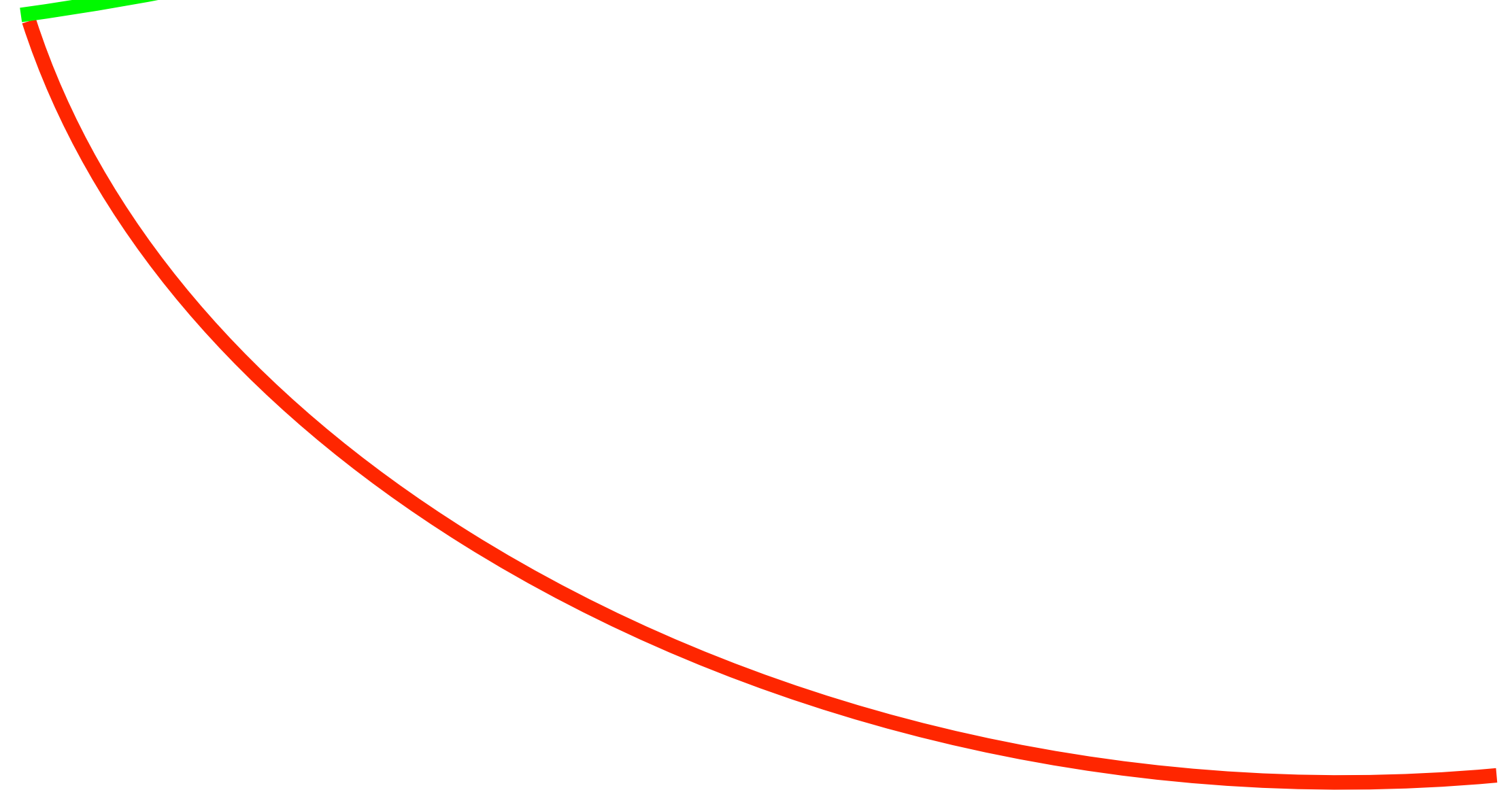
Julian Simon



Increase



Decrease



The Bet

\$1,000

Five Metals

1980 - 1990

DR. PAUL R. EHRLICH
ANNE H. EHRLICH

5667

October 11 1990

11-24/283
1210(8)

PAY TO THE
ORDER OF

Julian Simon

\$ 576.07

Five hundred seventy-six & ⁰⁷/₁₀₀ DOLLARS

WELLS FARGO BANK

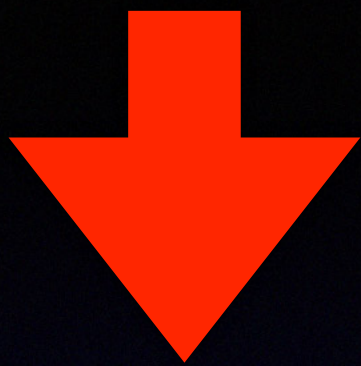
MEMO

Anne H. Ehrlich

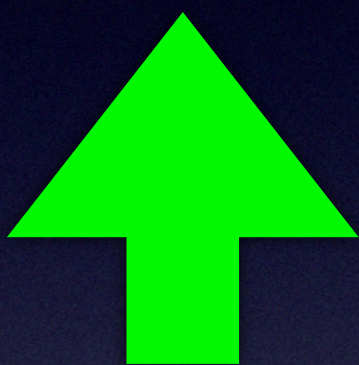
+1 210002481644 7283 4396

SAFETY PAPER

Prices

 - 36%

Abundance

 + 56%

Population

 + 19%

Ratio

2.94%



Wealth is Knowledge

Growth is Learning

Money is Time

George Gilder

Wealth is Knowledge



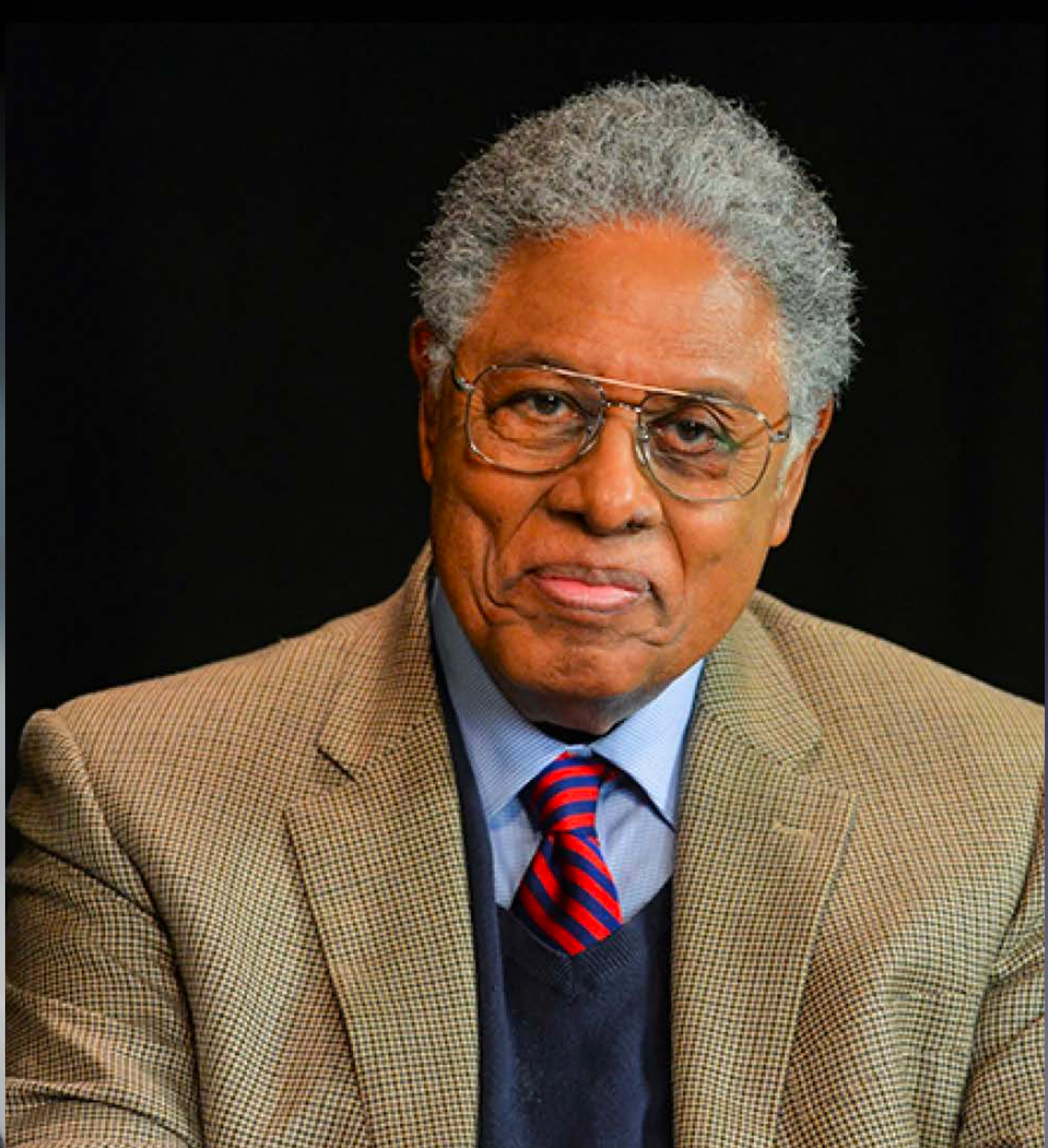


$$f$$

Physics is about atoms

Economics is not physics

Economics is about knowledge



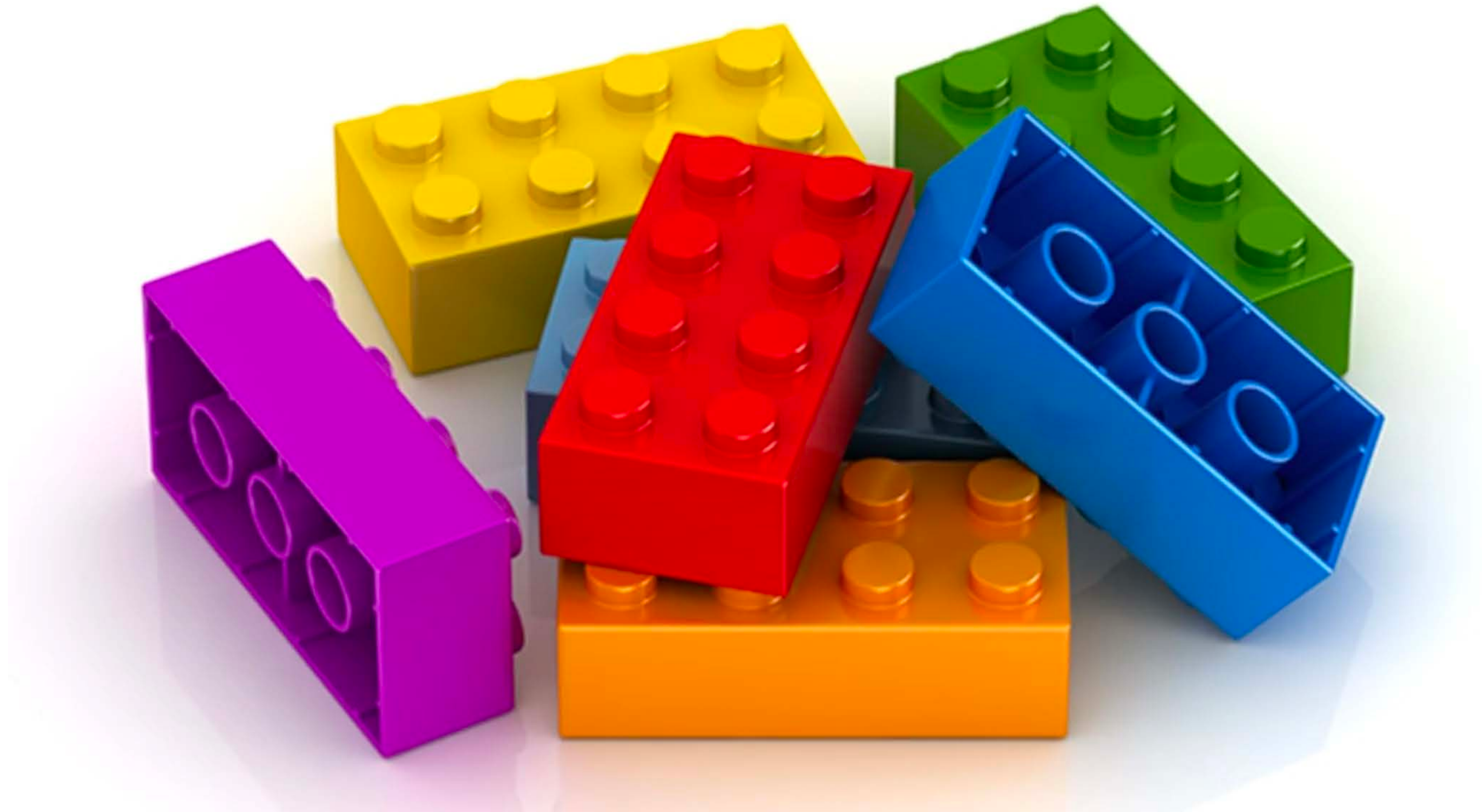


**Make me
an iPhone**

**We need
Innovation**

**Sorry, I have
the atoms but
don't have the
knowledge**

915,103,765 combinations





Paul Romer



	1																	18
1	1 H											13	14	15	16	17	2 He	
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
3	11 Na	12 Mg	3	4	5	6	7	8	9	10	11	12	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	**	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og

Lanthanides*

57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Actinides**

89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr
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The universe is **finite**,
but resources are
infinite

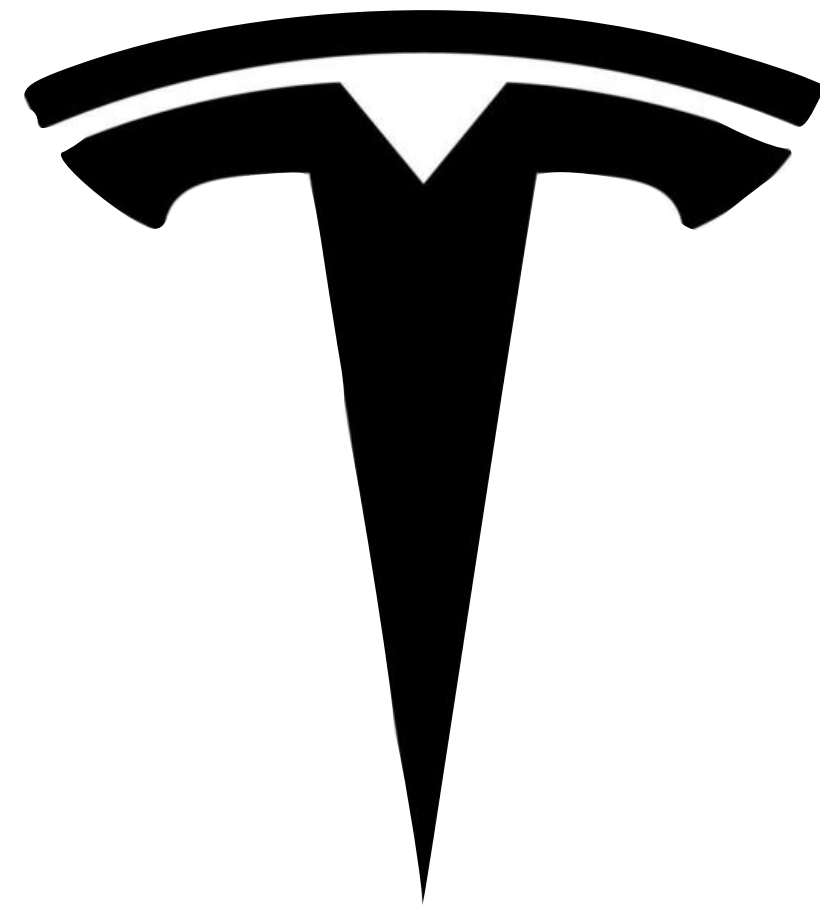
**How much knowledge is
still to be discovered?**

**Economics is the study of
how human beings create
value for one another by
discovering knowledge and
sharing it in markets.**

Growth is Learning

Every Doubling

20% to 30% drop in cost



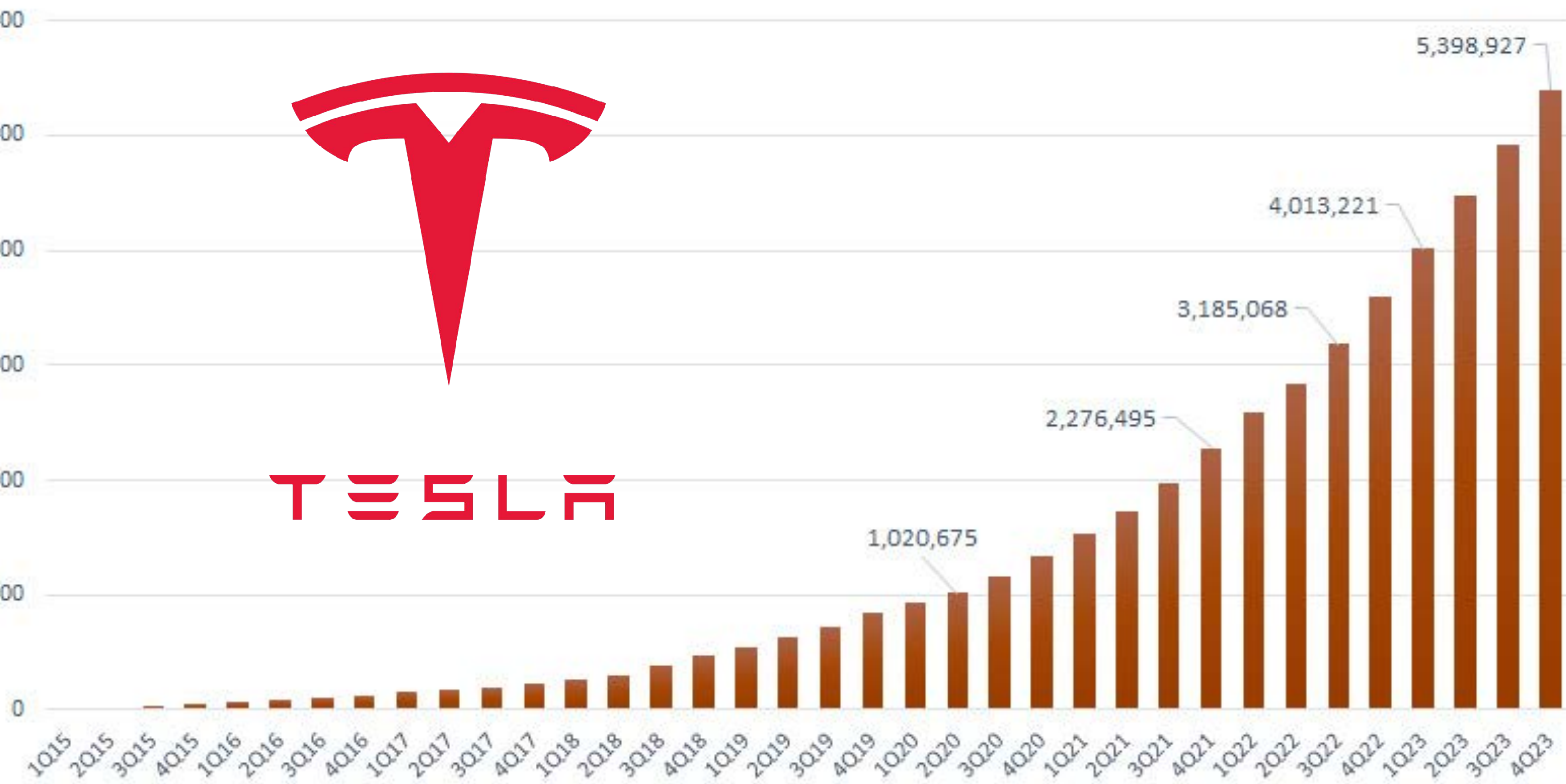


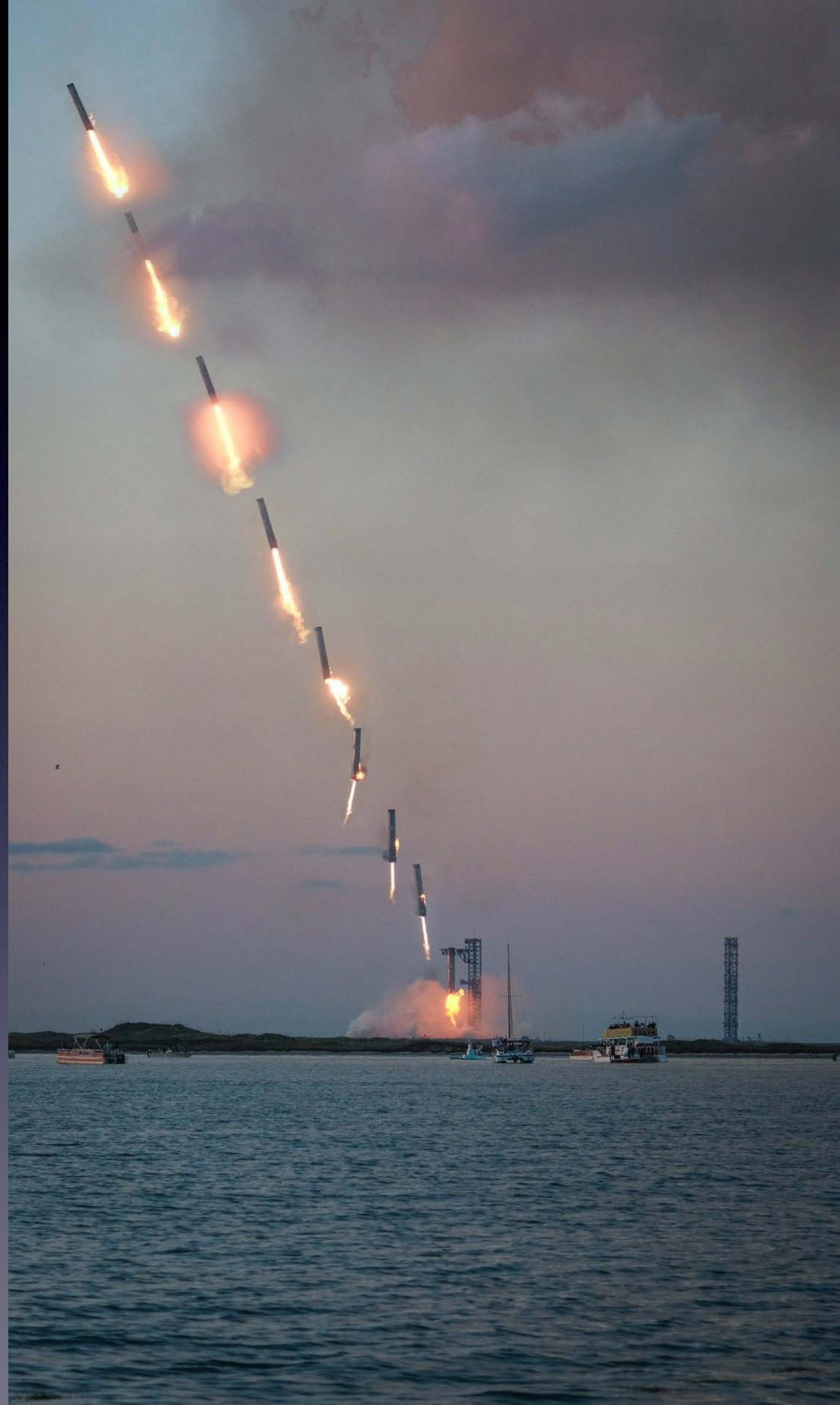
Tesla's Cumulative Vehicle Delivery Milestones

Cumulative Vehicle Delivery (Number Of Vehicles)



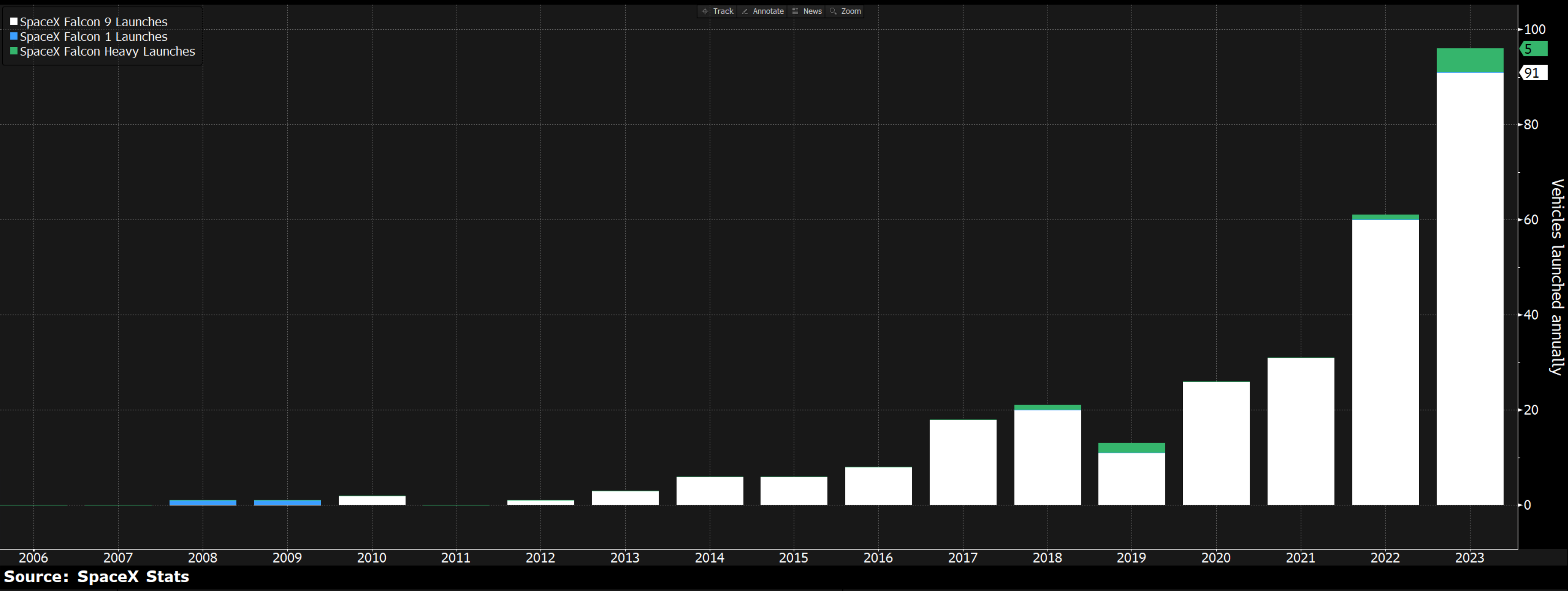
TESLA





We Have Liftoff

SpaceX annual launch history



Every launch creates new knowledge





Instructions:

Launch

Learn

Repeat

RAPTOR 1

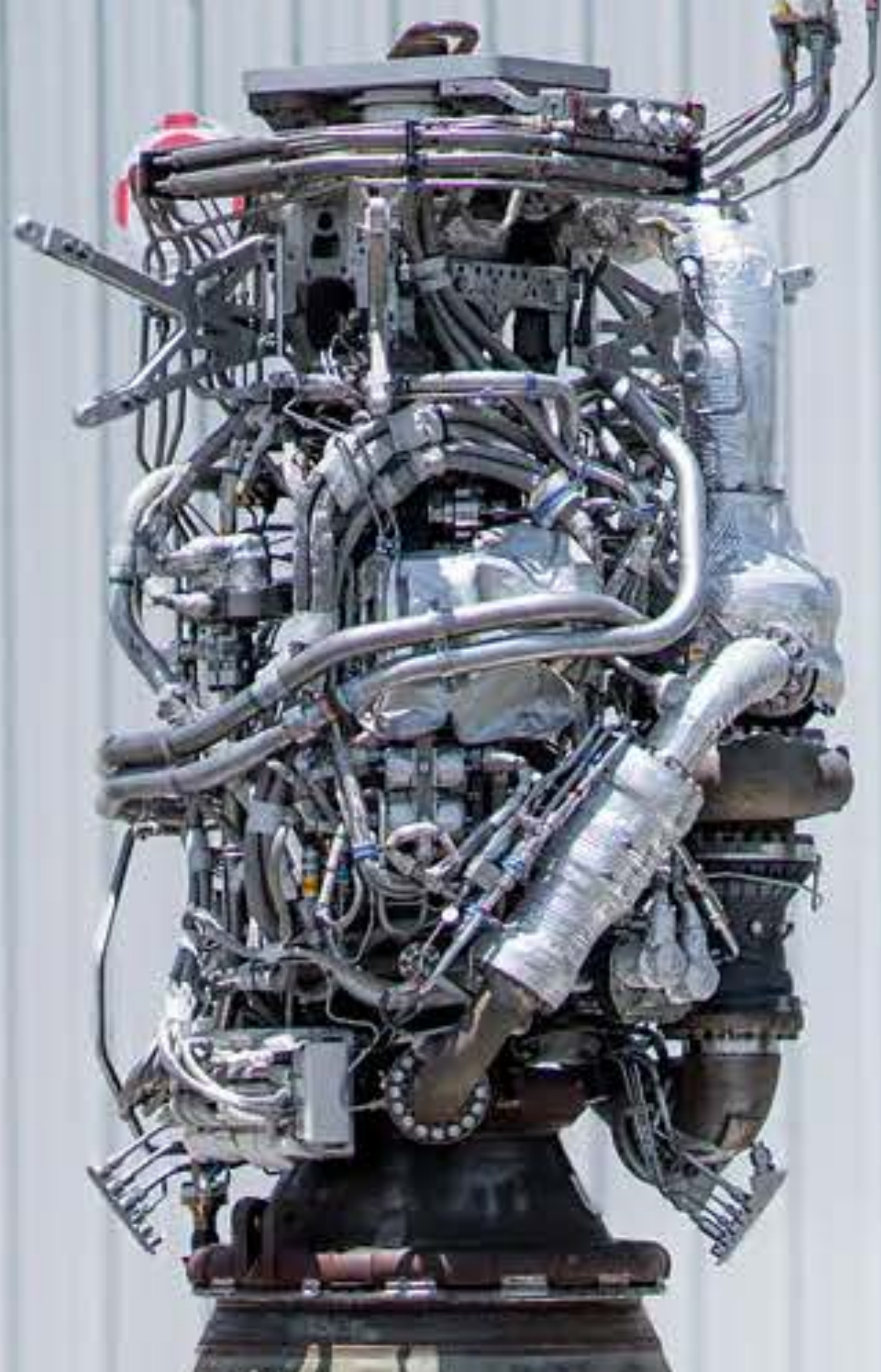


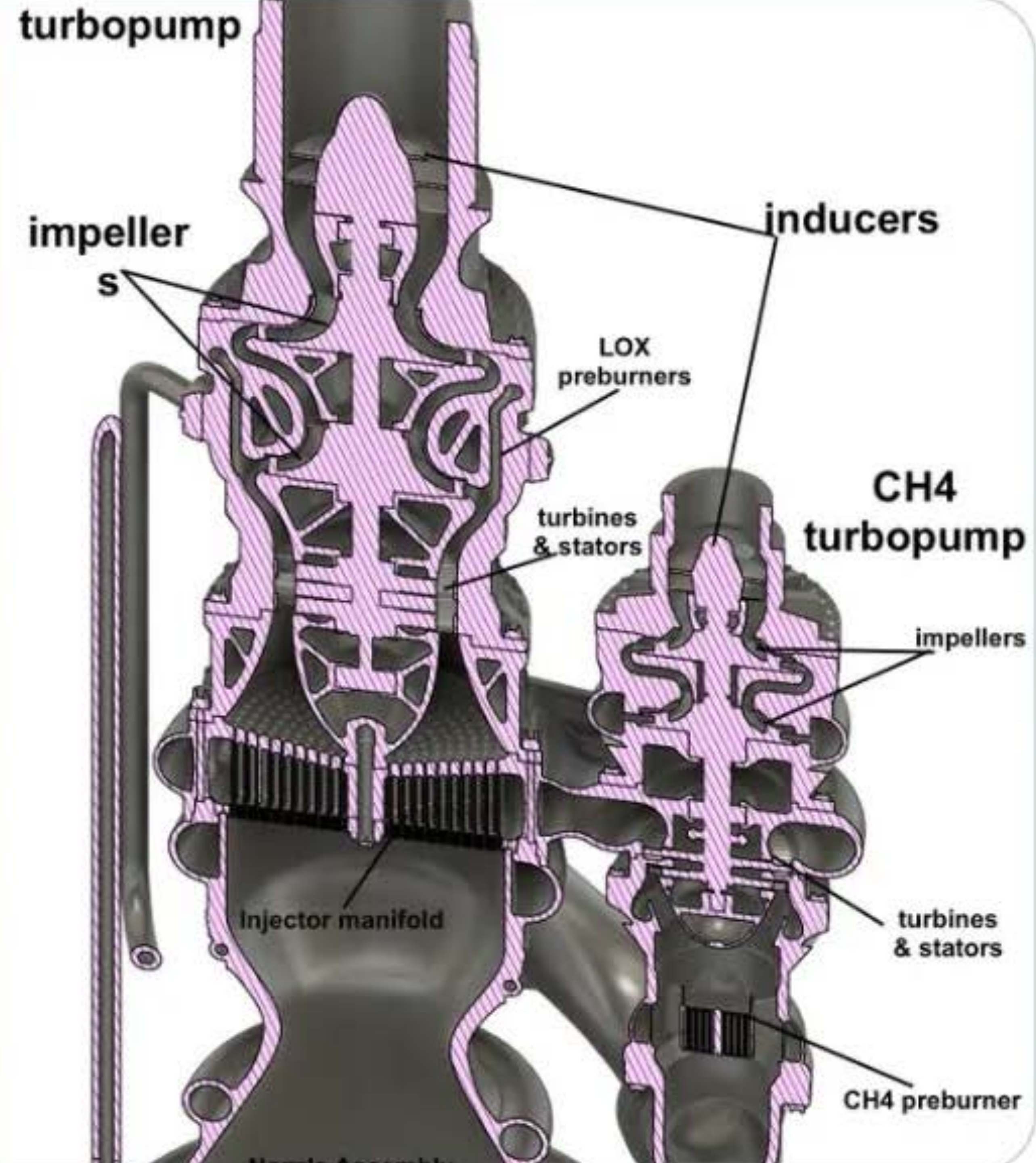
RAPTOR 2



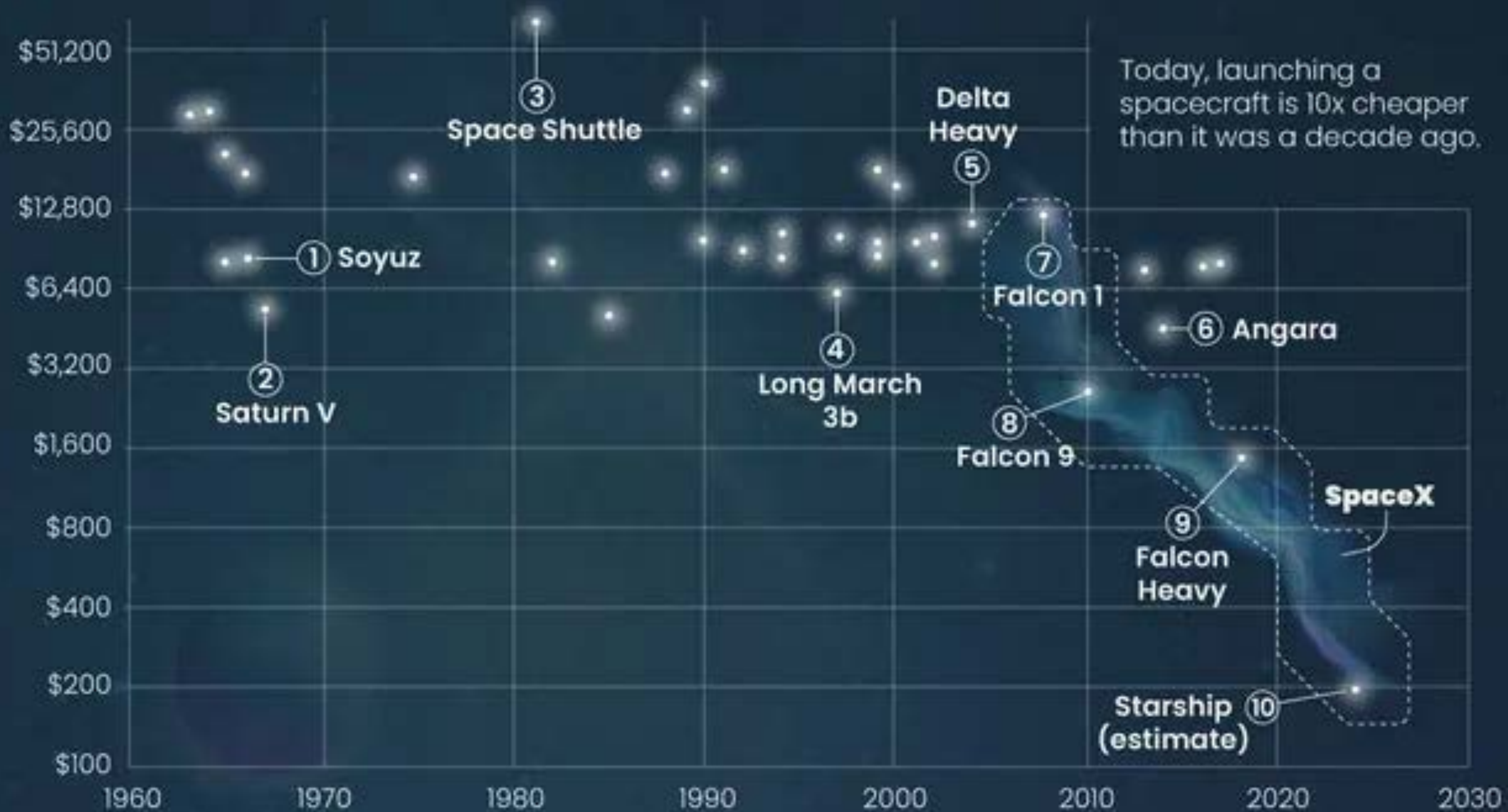
RAPTOR 3







\$ per kg (log scale)



10-fold cheaper in 10 years

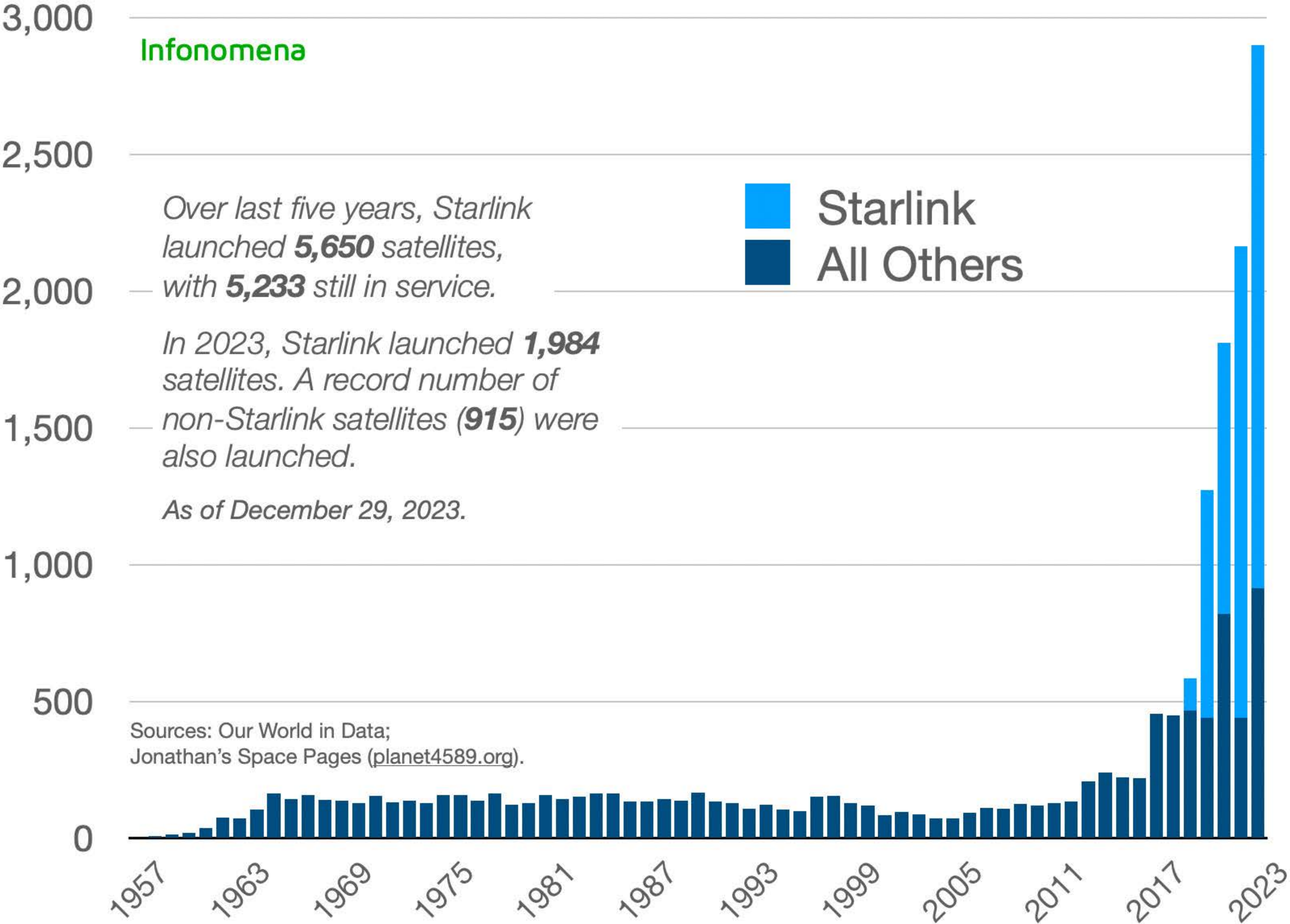
90% Decline

Repeat

\$100 to \$1



Satellites Launched Into Space





**If you can do the
same amount in
half the time, you're
twice as smart.**

**You've doubled
your knowledge**

KPH

Knowledge Per Hour

Money is Time

**The growth in
knowledge can be
measured with time**



**Dollars
and Cents**



**Hours
and Minutes**

$$\text{Time Price} = \frac{\text{Money Price}}{\text{Hourly Income}}$$

\$20

\$20

=

1 hour
60 minutes

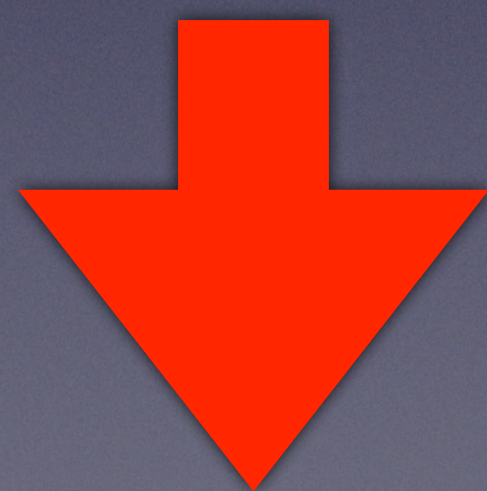


\$22

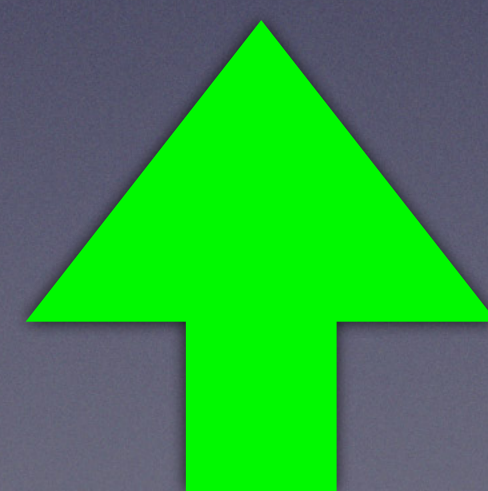
\$24

=

0.92 hour
55 minutes



- 8.3%



+ 9.1%

**The change in time
prices over time**

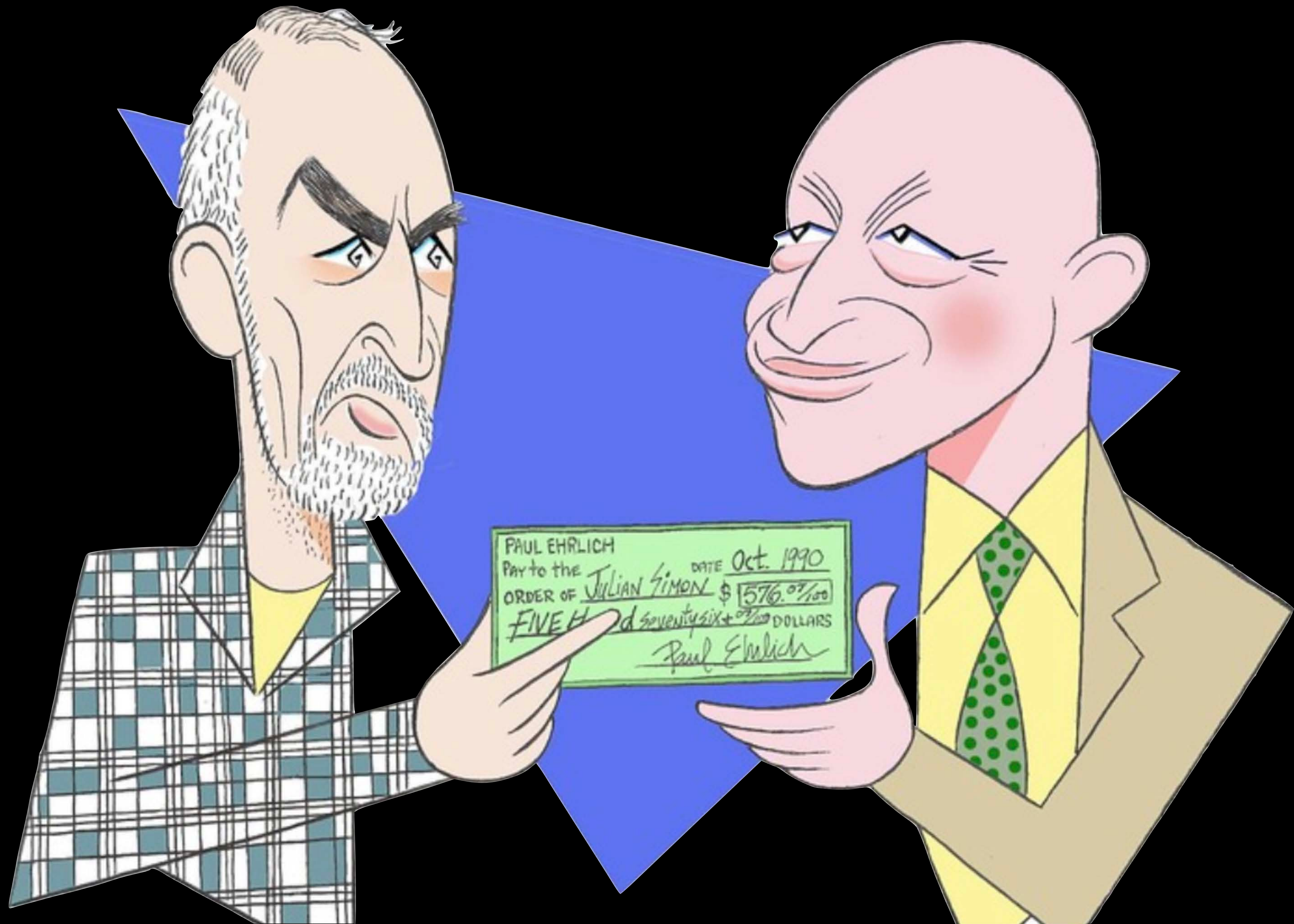
**Time is a better way
to measure than
money**

Time is Better than Money

- More information
- Transcends contention and subjectivity
- Any product, any time, any place, any currency
- Universal measurement
- Cannot be counterfeited or inflated
- Perfect equality
- Can't buy or sell



No amount of money ever bought a second of time



PAUL EHRLICH
Pay to the ORDER OF JULIAN SIMON DATE Oct. 1990
FIVE H d seventy six + 7/100 DOLLARS
Paul Ehrlich

Basic 50



Time Price	-75.2%
Abundance Multiplier	4.03
Percentage Change	303%
Population	75.8%
Resource/Population	4.0%

1980



2020



+608%

1910



2023



\$98

1910



2023



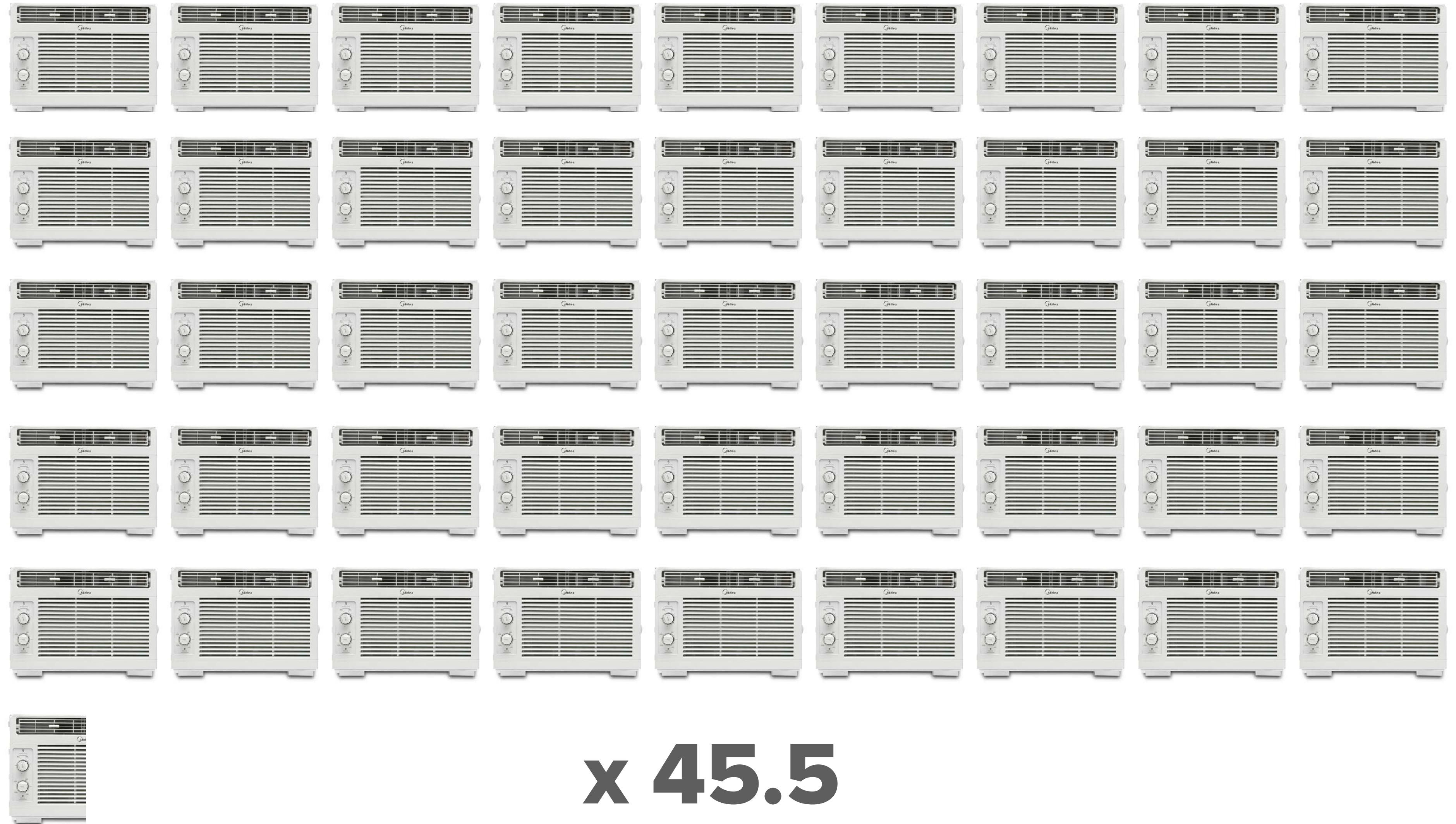
18.3x



1952



2024



x 45.5

1961



2022



x 44.6

1900



2023



17.1x



55.2x



**We're all billionaires
now**

**If someone spends a billion
dollars to create a product
that we can all use at the
same time, what does that
make us?**

**How can things be so
cheap if they cost so
much?**

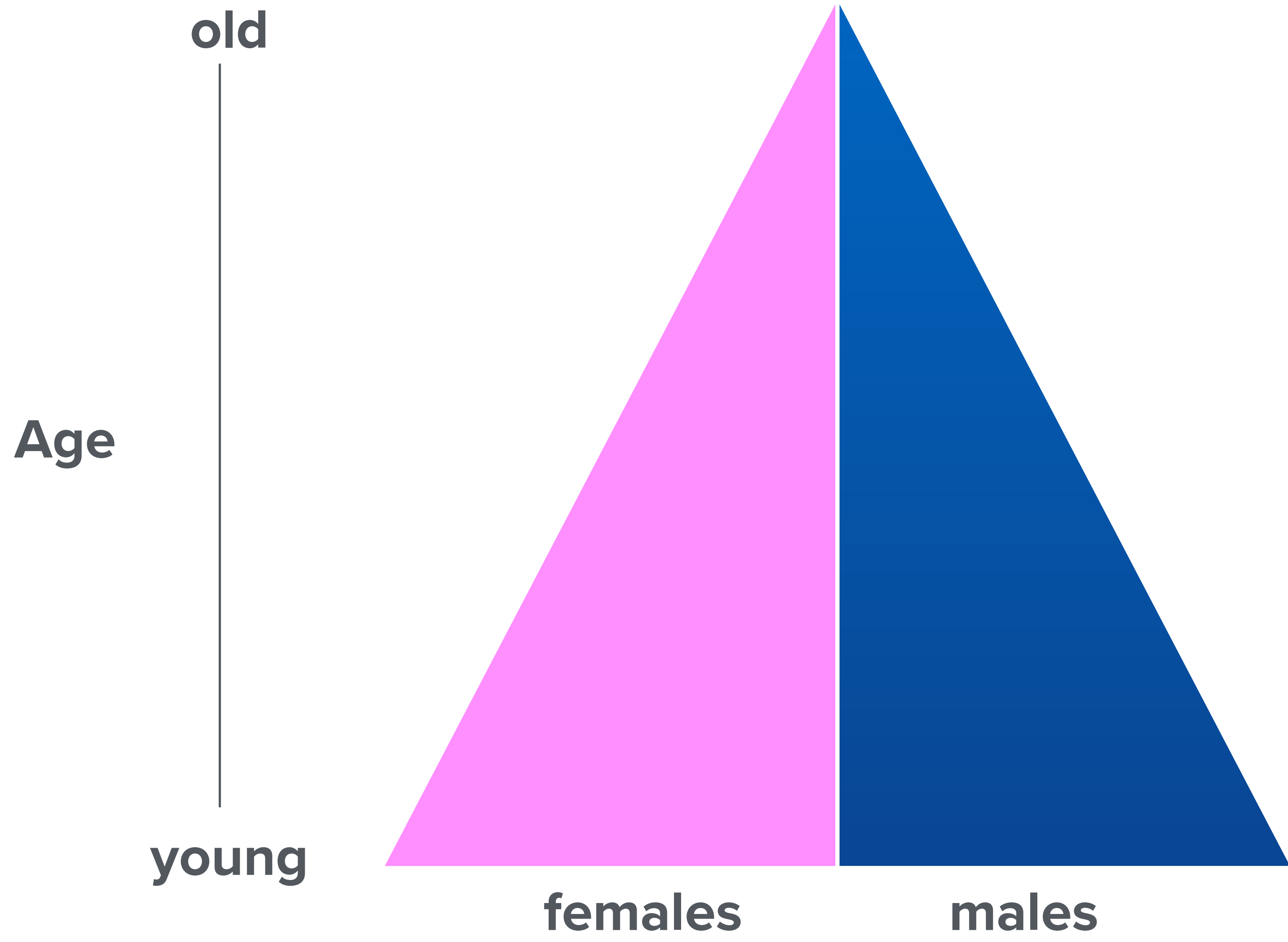
**Because there are
so many of us**

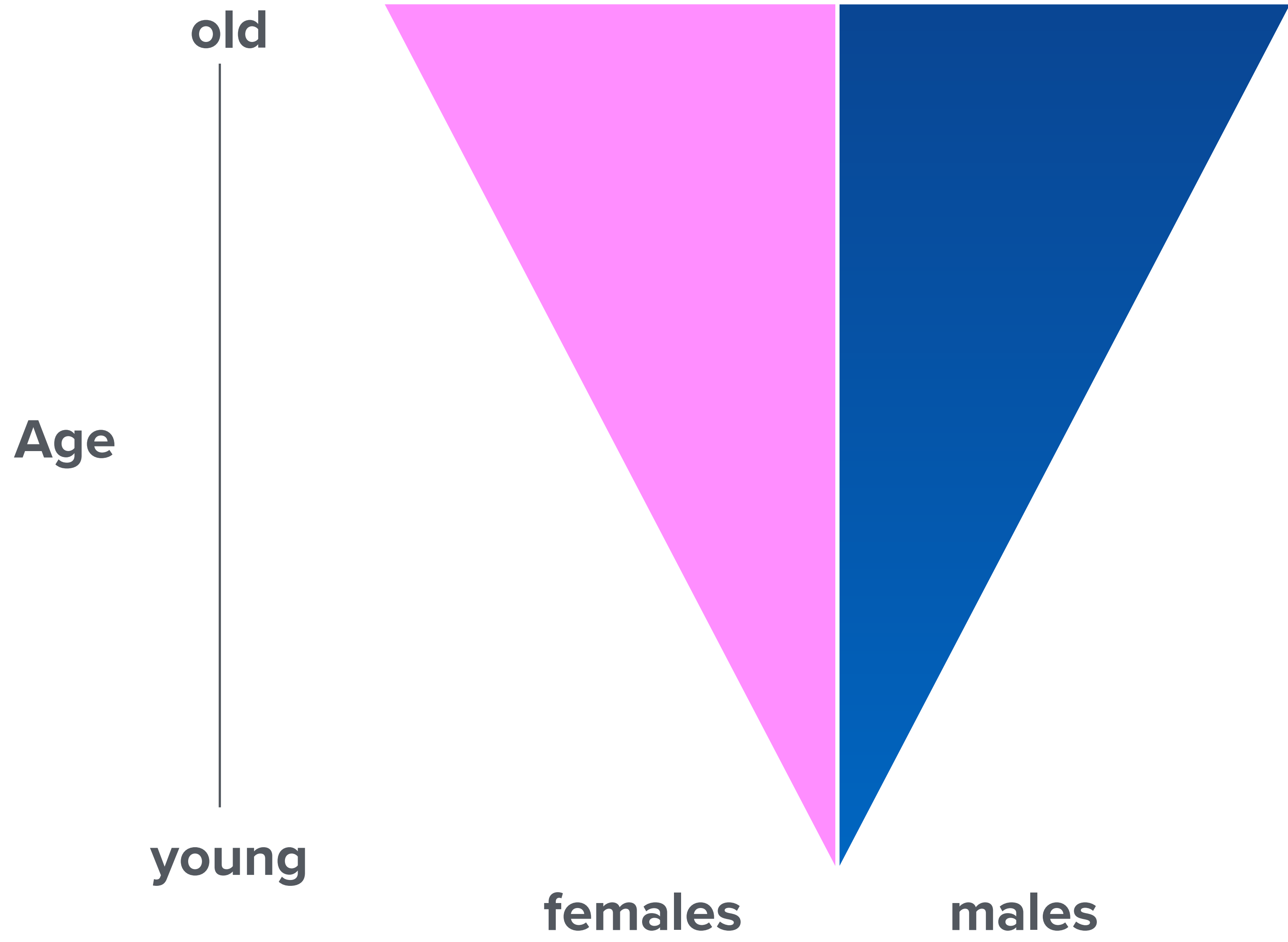
High development costs

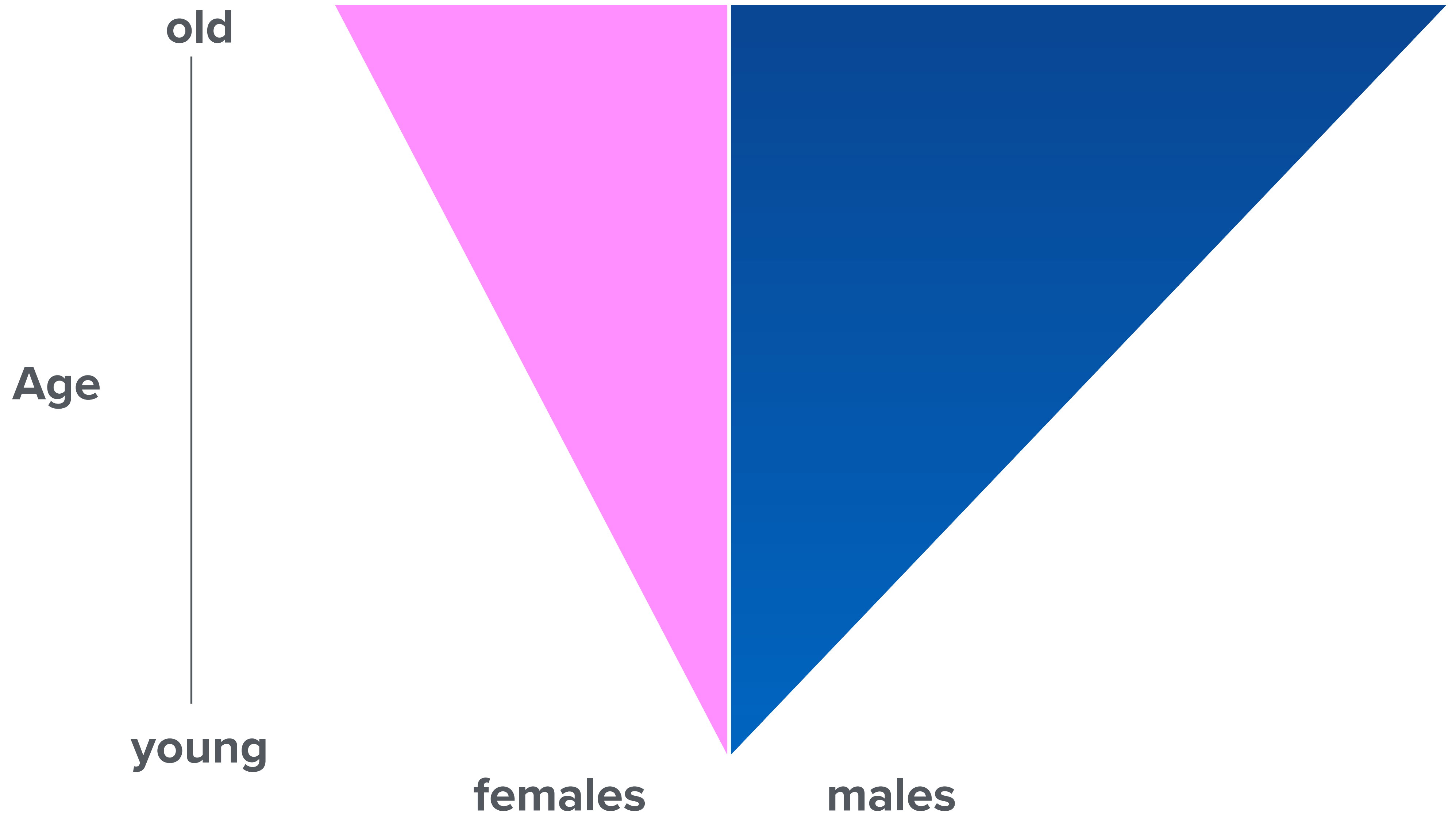
Low unit costs

**Billions of creators and
customers**

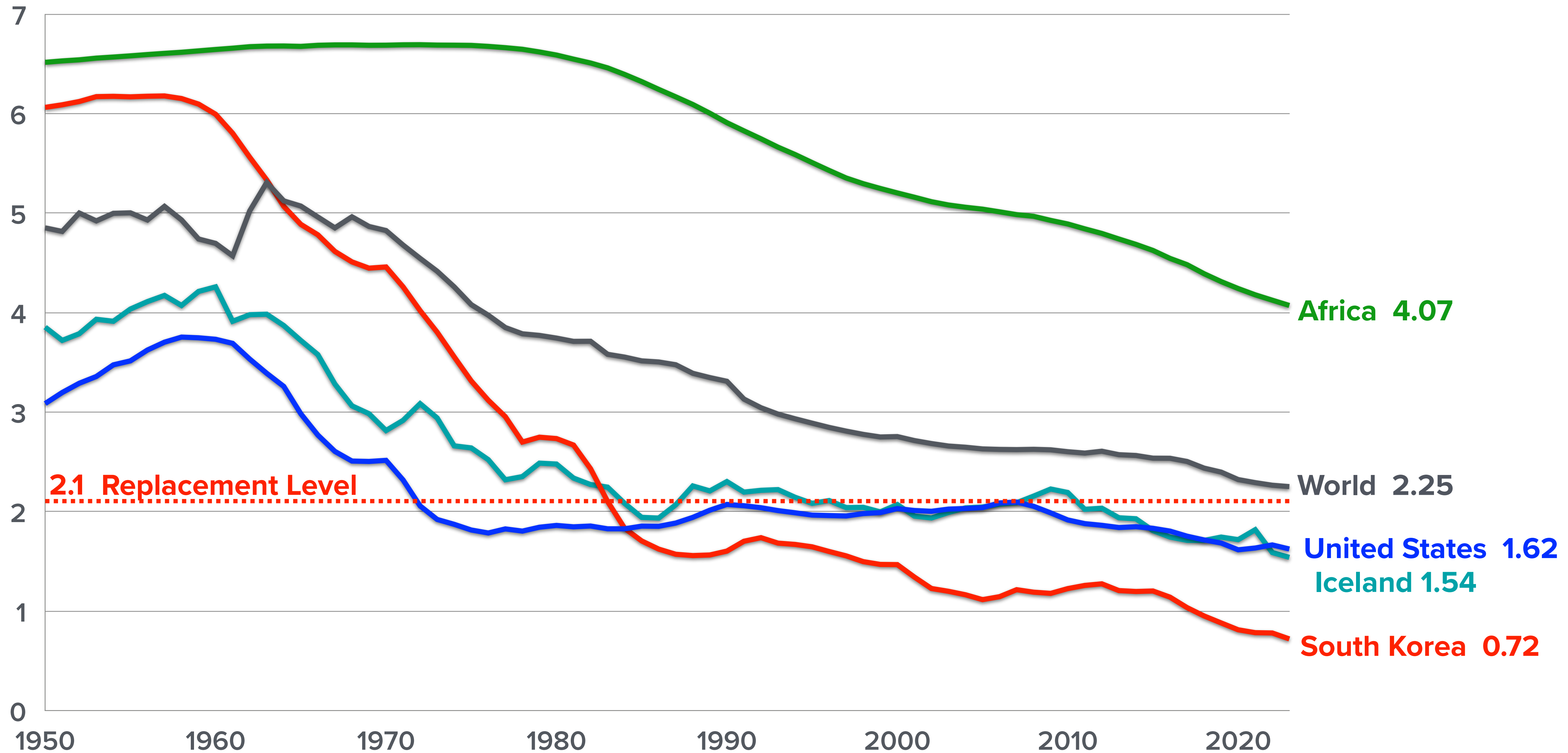
**Get rich by making
things affordable for
everyone**



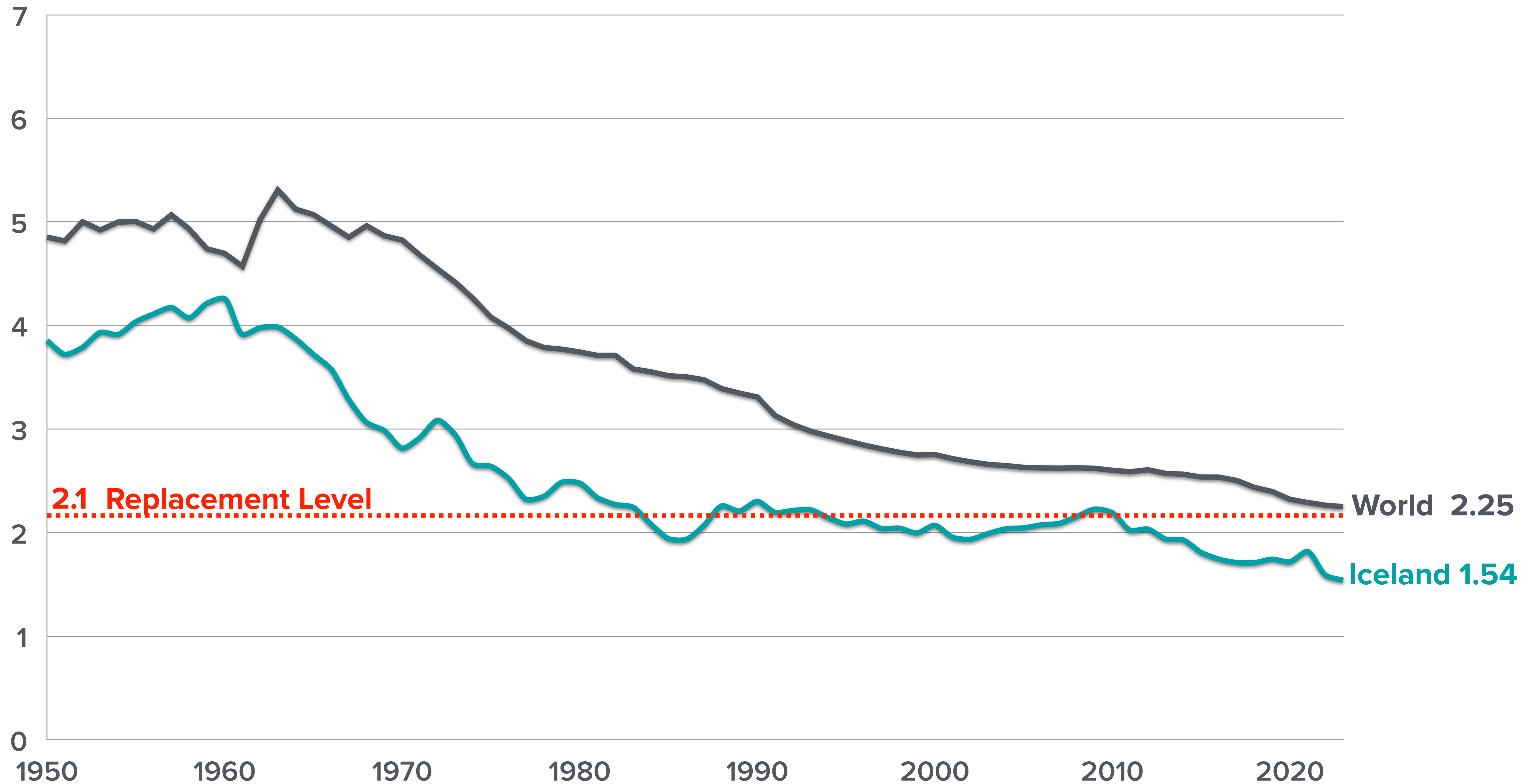




Fertility Rate World



Fertility Rate World



**Old
Economics**

**New
Economics**

Resources

Atoms

Knowledge

Measure

Money

Time

Perspective

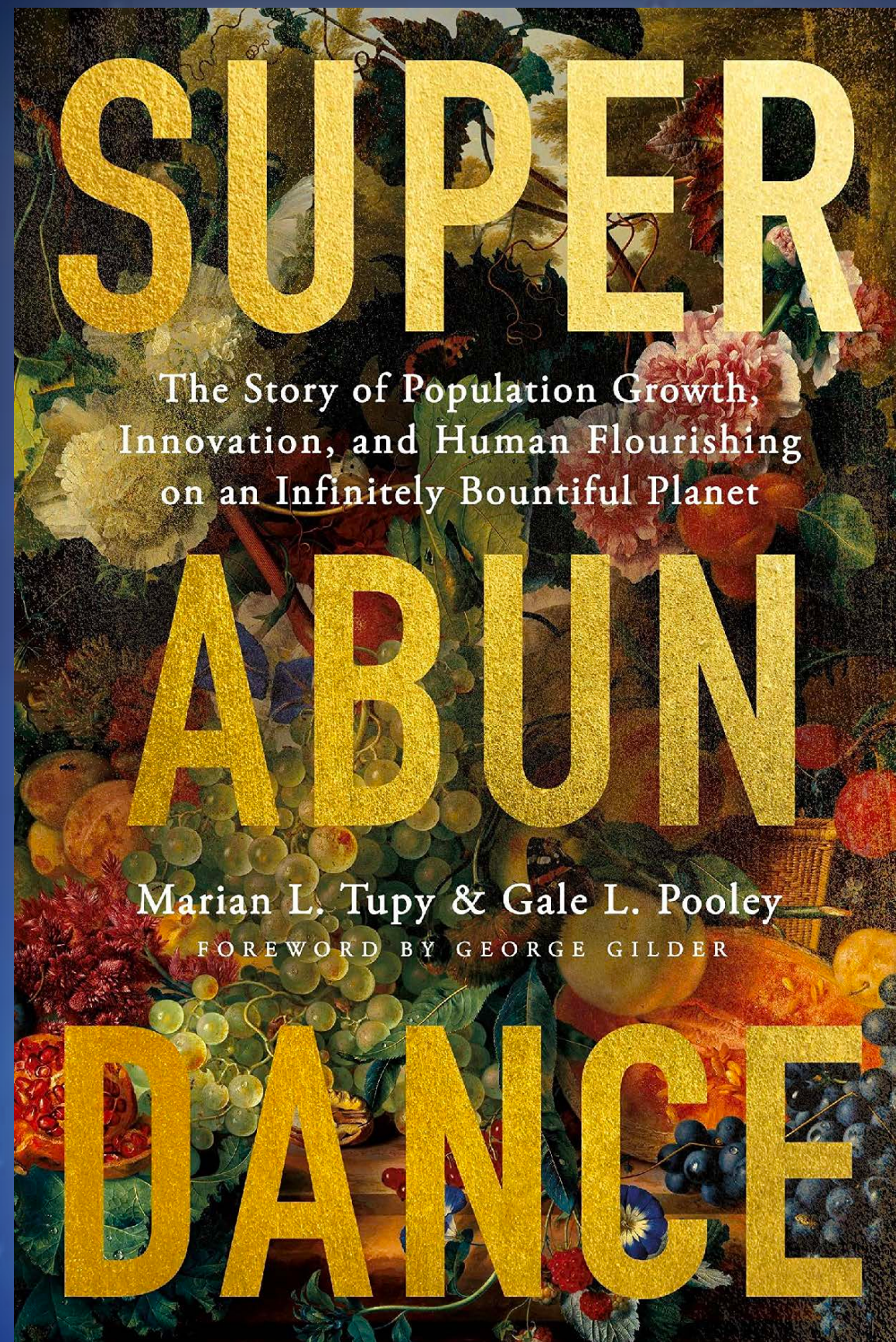
Scarcity

Abundance

**The most valuable thing
you can do in life is to
create more life**

Petta reddast





Thank You
superabundance.com