

# Disruptopia

Kurt Cavano

May 2024

# PERMAVUCALUTION

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PERMA – Permacrisis

VUCA – Volatility, Uncertainty,  
Complexity, Ambiguity

LUTION – Revolution

\* Bartleby – The economist

We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next ten. Don't let yourself be lulled into inaction.

Bill Gates

# Punctuated Equilibrium

Evolution occurs in spurts with long periods of stasis interrupted by intermittent bursts of activity.

Steven Jay Gould

Big Bang 13.8 b



Earth 4.5b



April 2024 Eclipse



The Sun  
HESTIA by VAONIS  
Monday, Apr 8

First life 3.7b

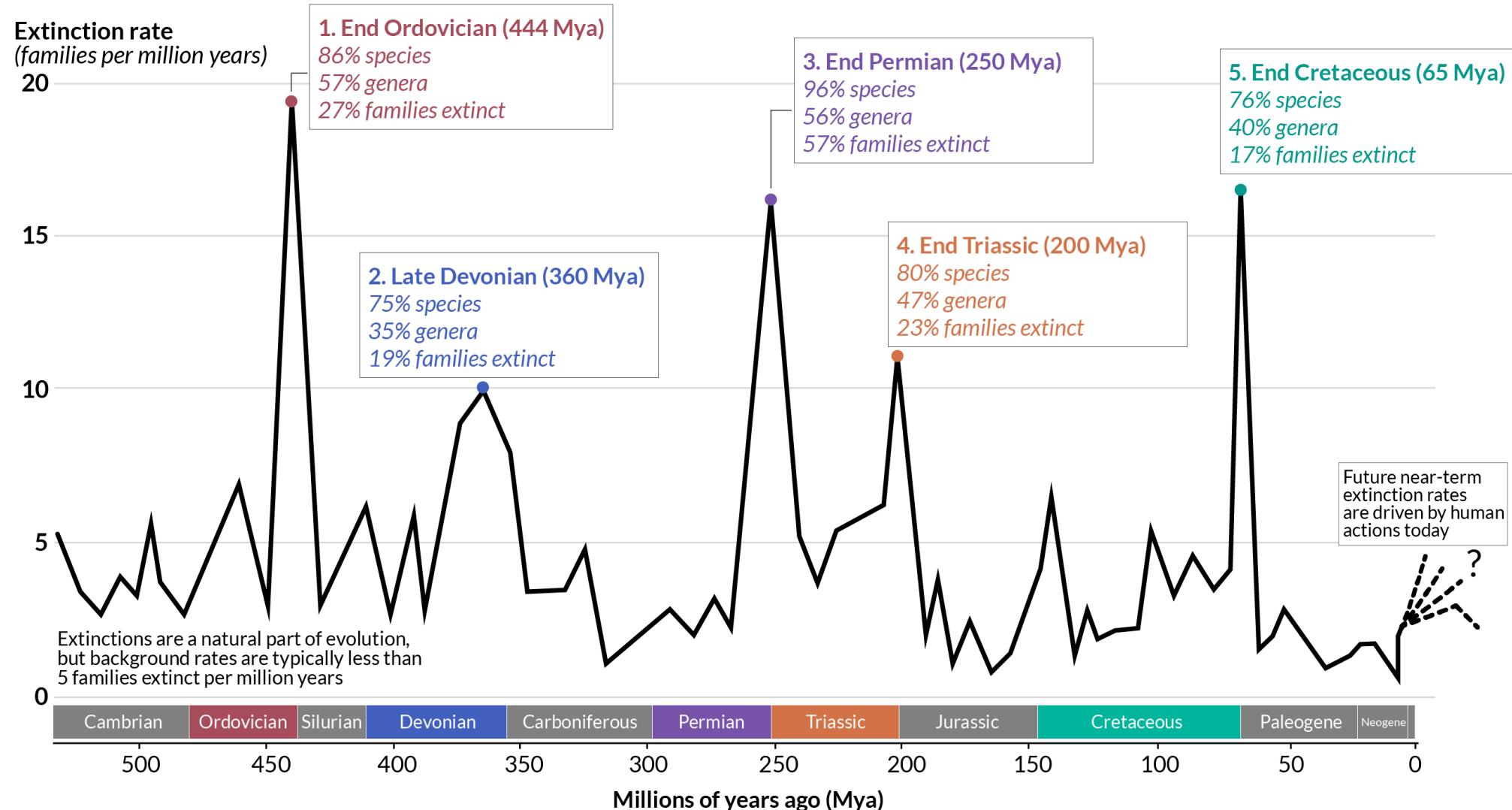


## The 5 extinctions

# 'Big Five' Mass Extinctions in Earth's History

Our World  
in Data

A mass extinction is defined by the loss of at least 75% of species within a short period of time (geologically, this is around 2 million years).



Sources: Barnosky et al. (2011); Howard Hughes Medical Institute; McCallum (2015). Vertebrate biodiversity losses point to a sixth mass extinction.

OurWorldinData.org – Research and data to make progress against the world's largest problems.

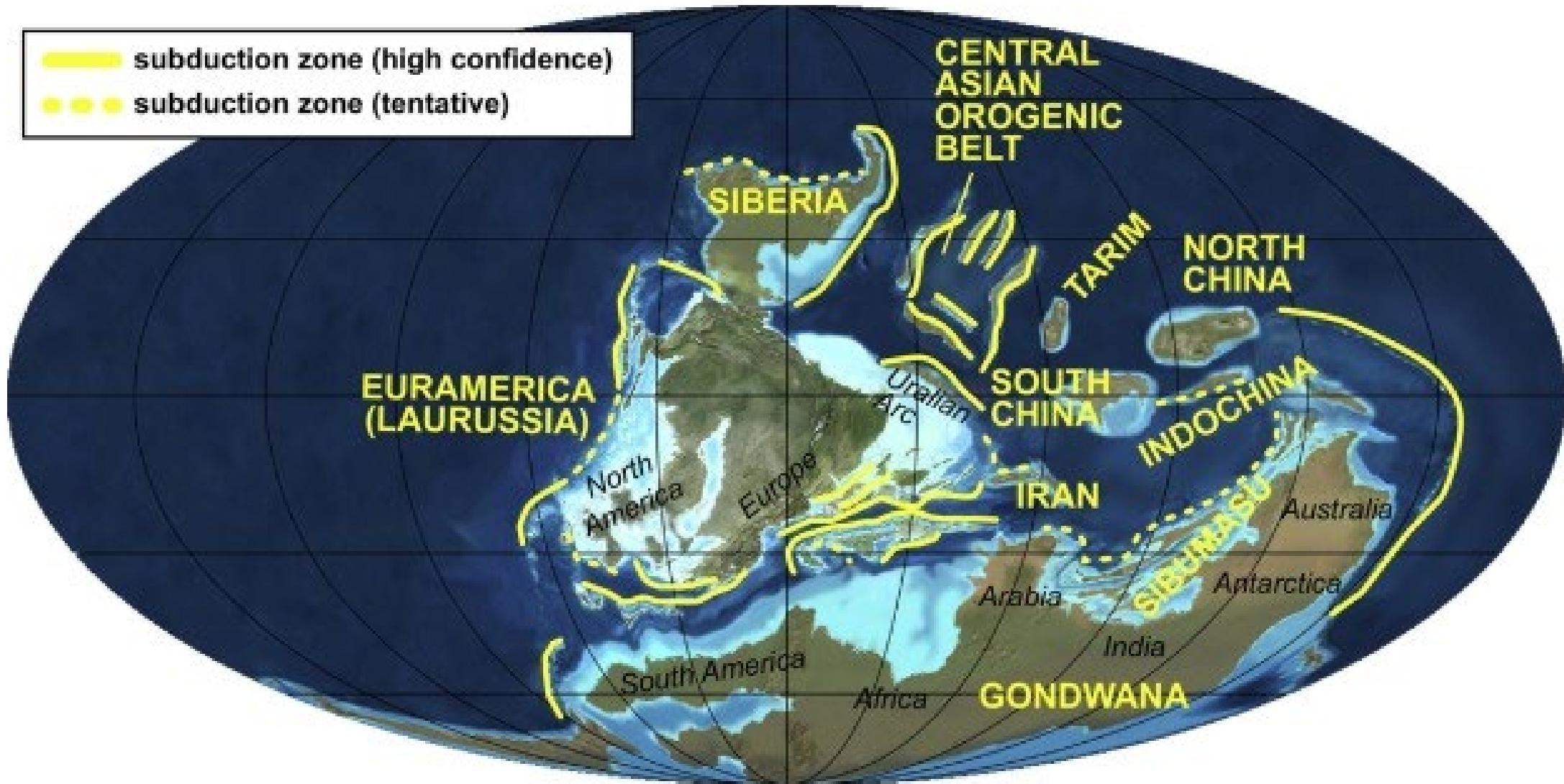
Licensed under CC-BY by the author Hannah Ritchie.

445 m 85% of all plants died



Kellwasser event 372m

Near complete collapse of sea life



252m 95% extinction - Siberian traps



201m 76% extinction  
100,000 b tons co<sub>2</sub>  
Palisades, Hudson



Chicxulub crater 66m

Iridum

End Jurassic

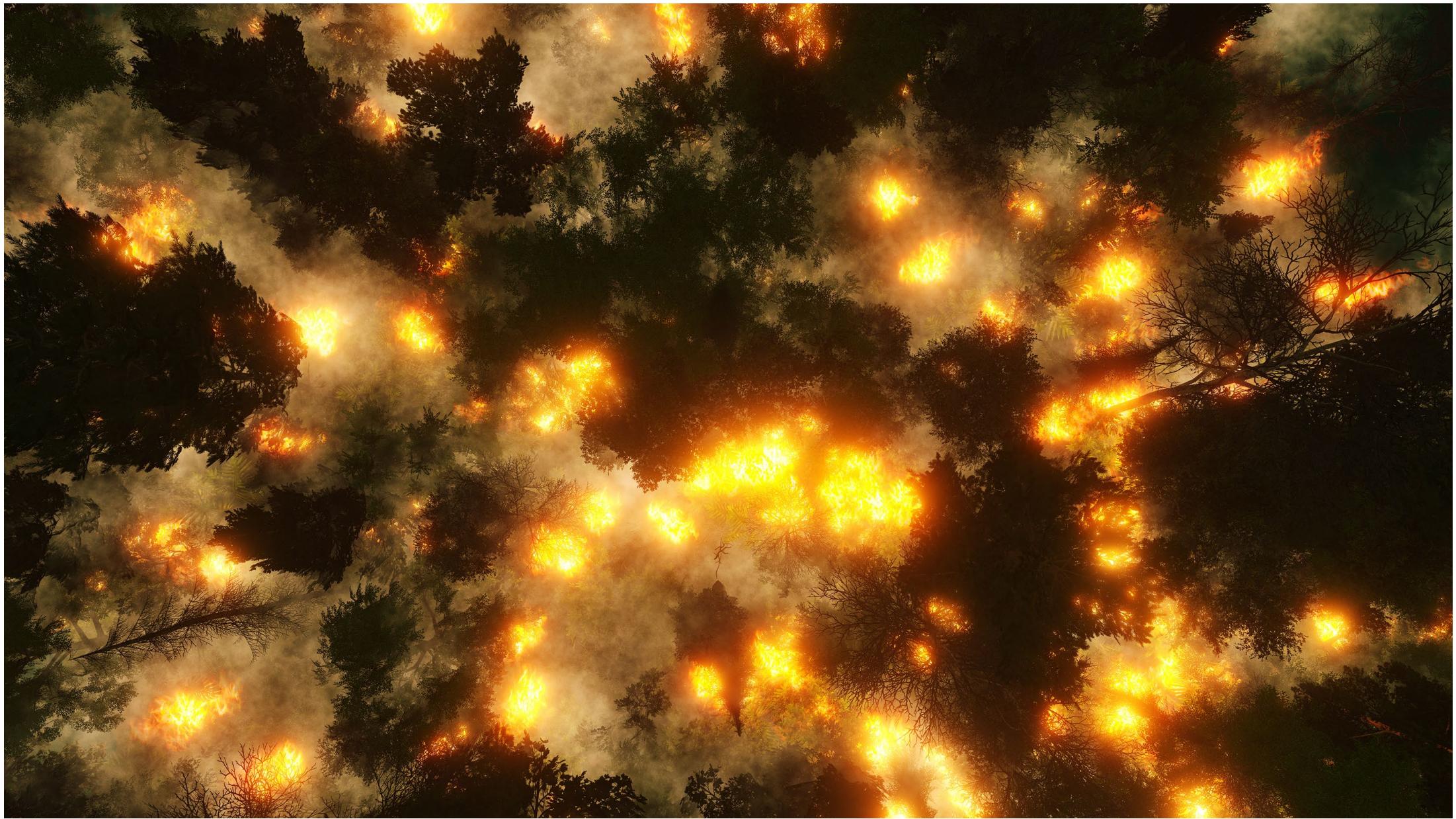
Deccan traps 1mile thick 200,000 sq miles in india



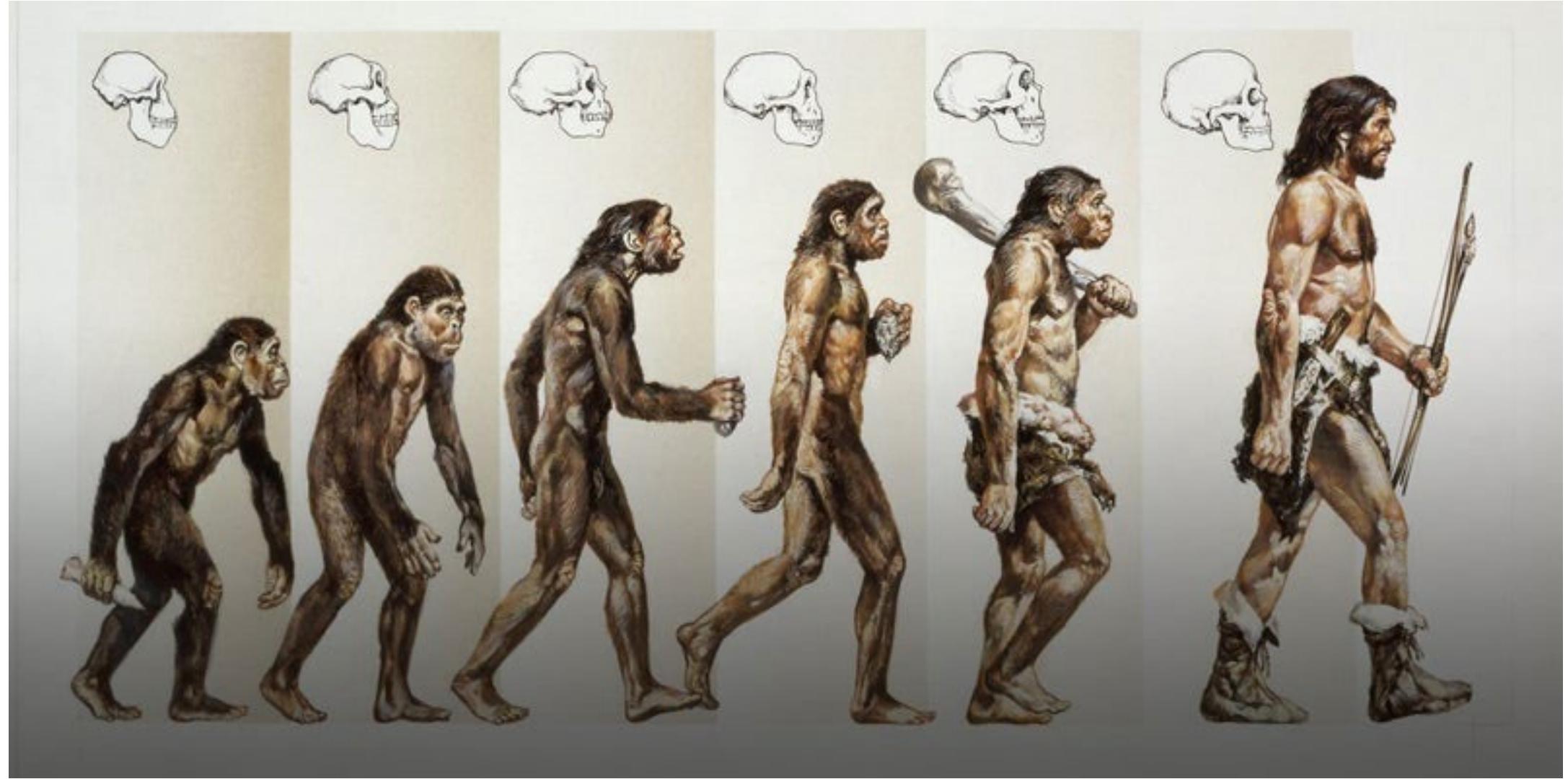
Lucy 3.2m



Fire 1m

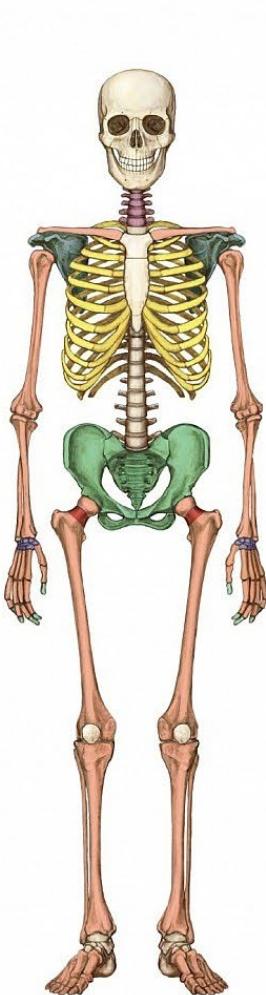


First Modern humans 300k

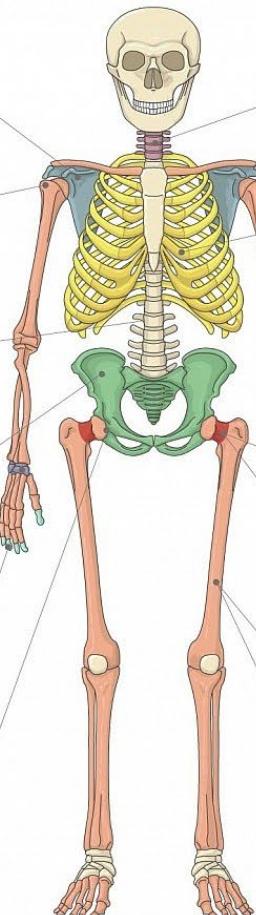


# Denisovans 140k

MODERN HUMAN



DENISOVAN



NEANDERTHAL



Denisovan relative  
to MH/N



Scapular size



Epiphyses roundness



Posterior vertebral size



Pelvic size



Carpal bone size



Fingertip width

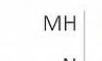


Acetabular fossae depth

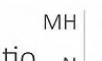
Denisovan relative  
to MH/N



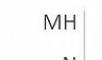
Cervical vertebre size



Rib thickness



Diaphyses-metaphyses ratio



Femoral neck length



Femoral neck width

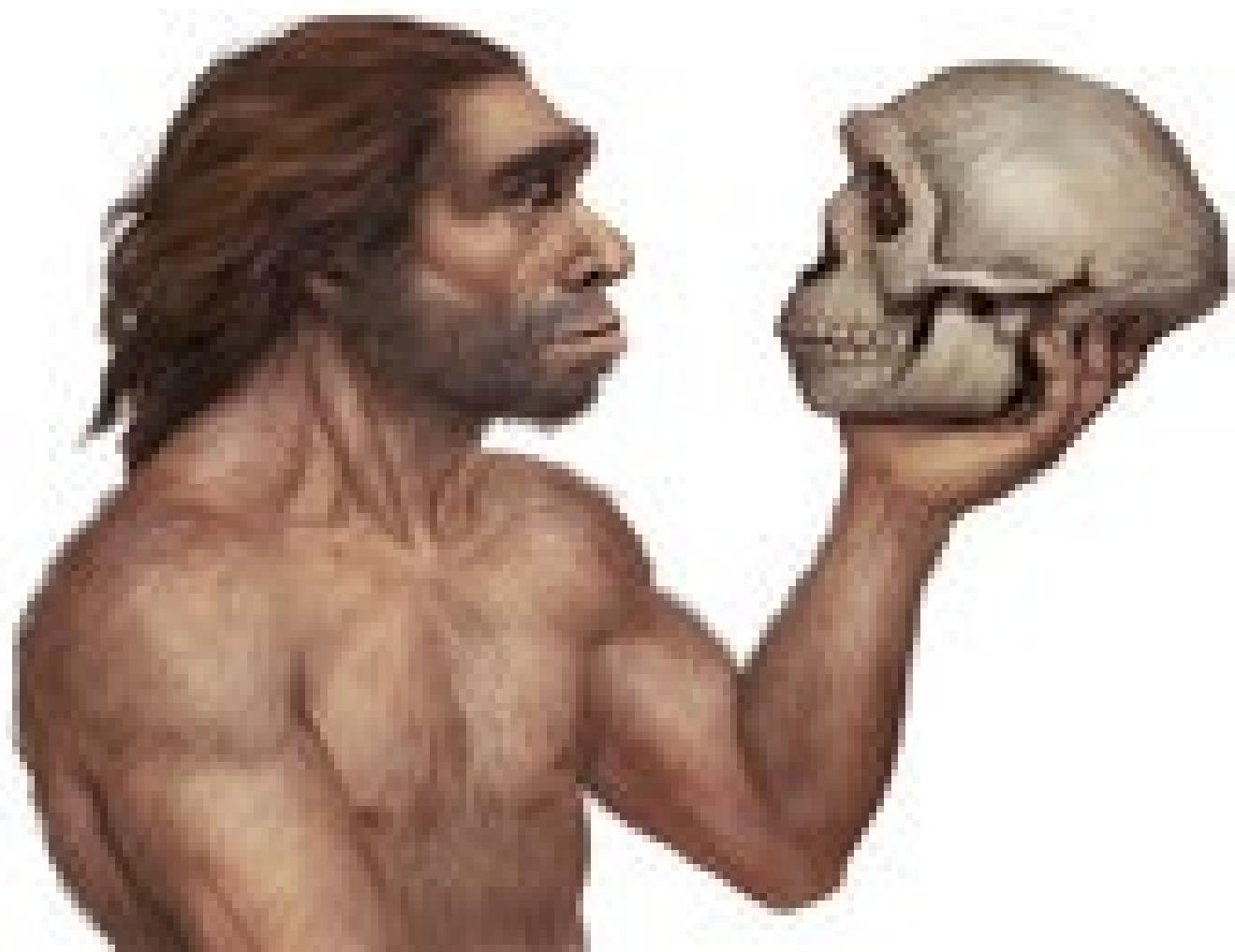


Skeletal maturation timing

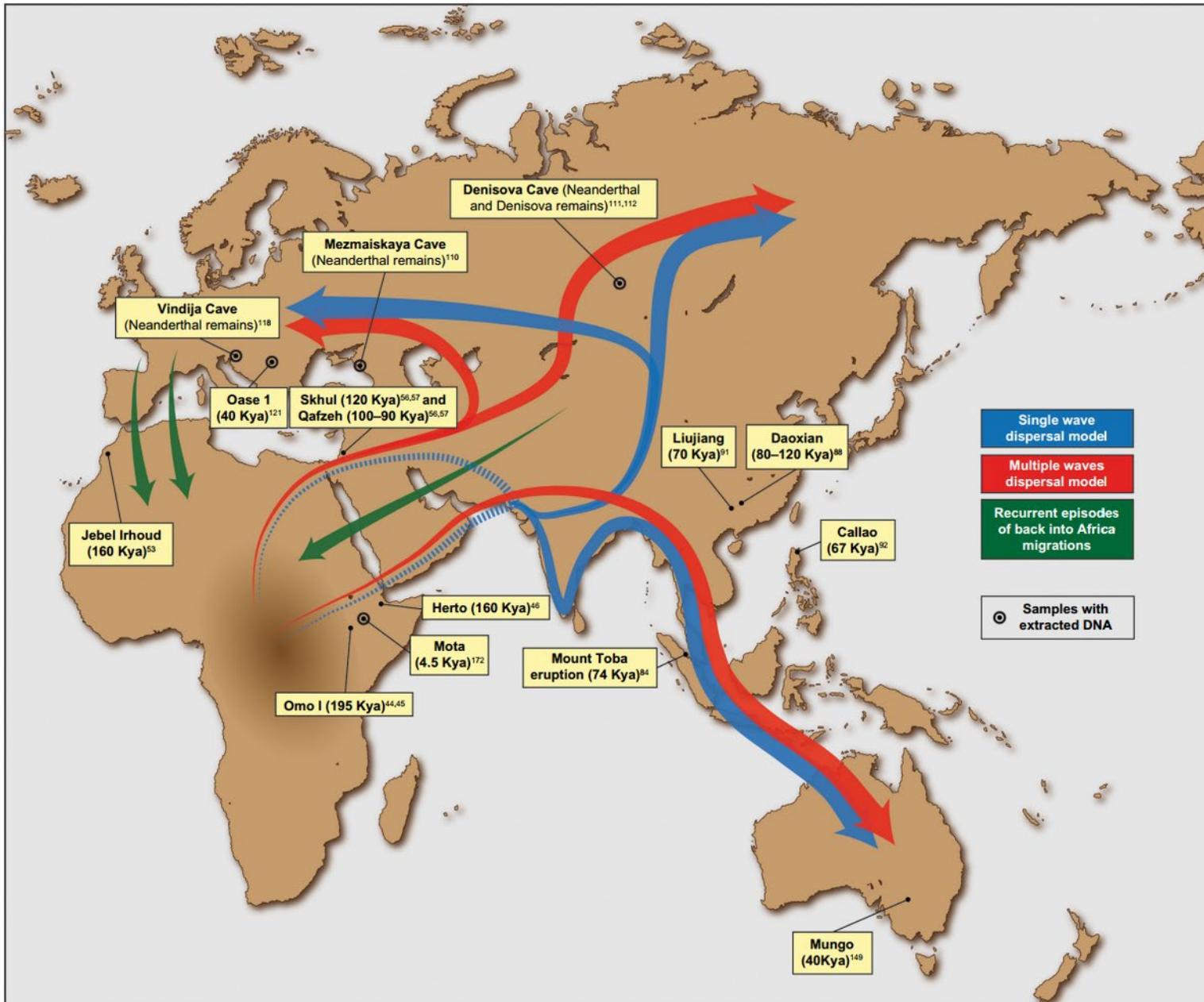


Bone mineral density

Neanderthals 130k



# Modern Humans left Africa 90,000



Sumatra 74000



First Australian 60k



Last Neanderthal 40k



# First Americans 25k



# Agriculture and the rise of civilizations 12k



First blue eyes 6k

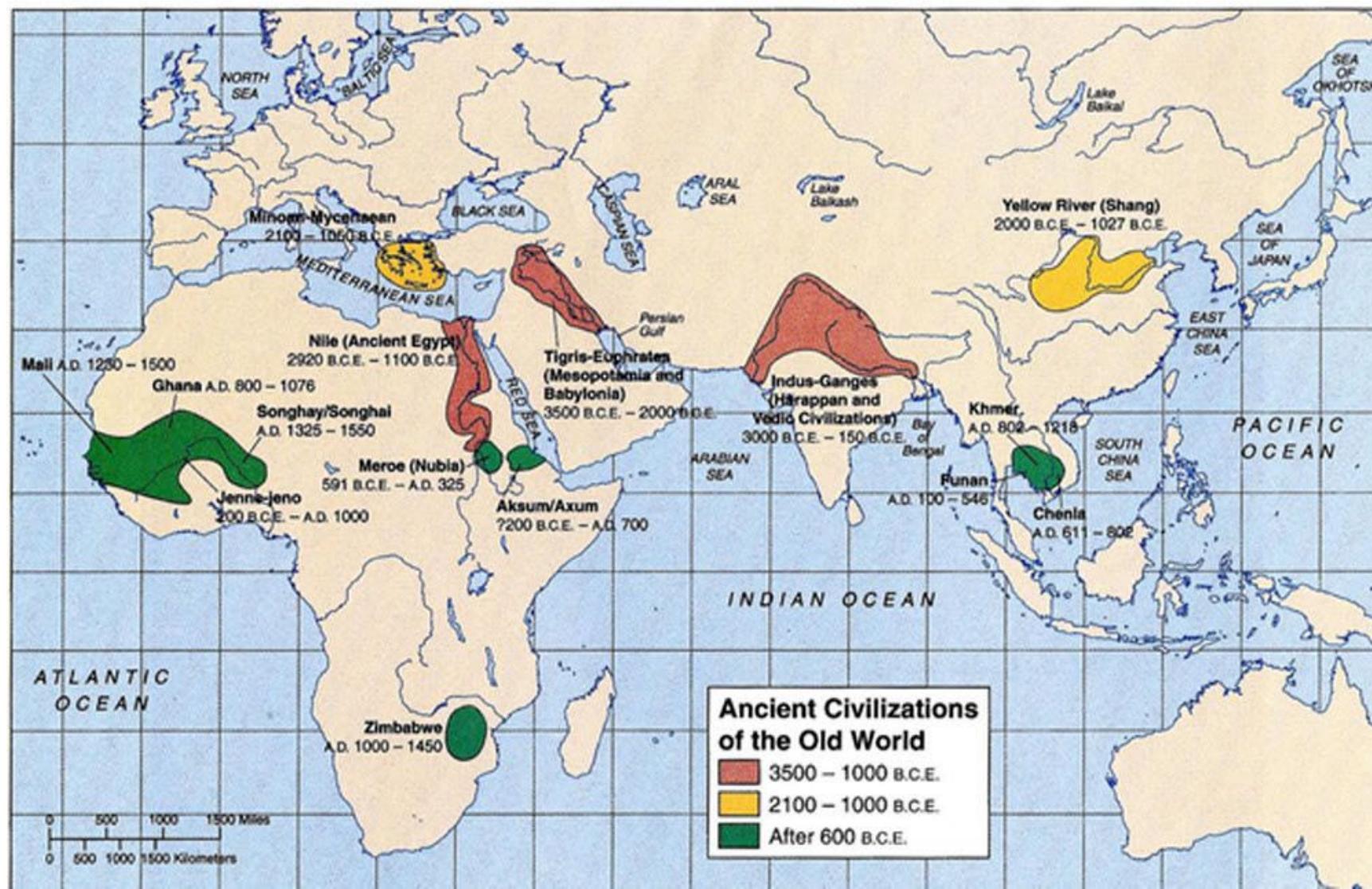


First block in the great pyramid 5k

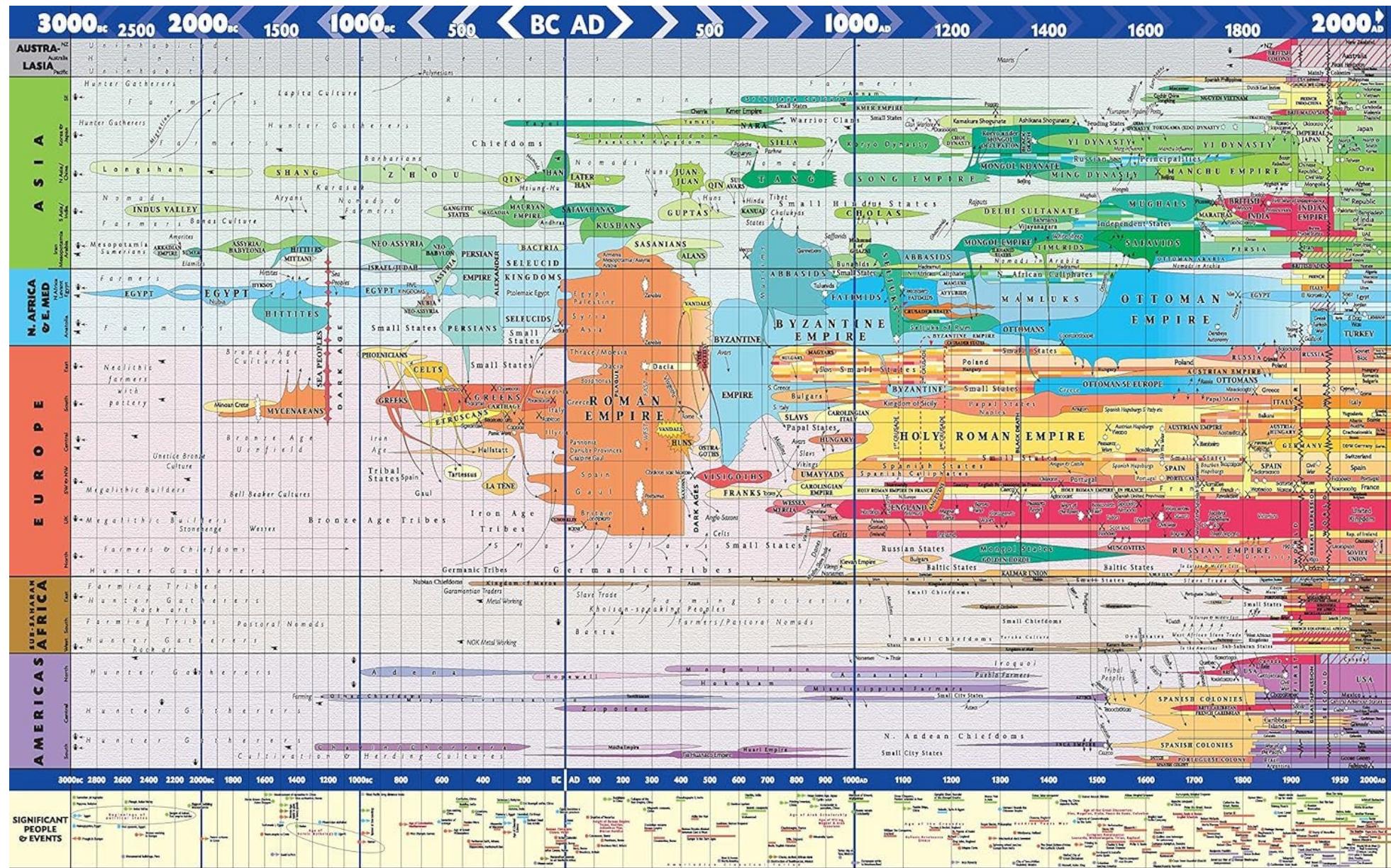


# Ancient Civilizations

## Ancient Civilizations of the Old World



Hundreds more great civilizations



# World History Timeline

- |  |  |  |  |  |                                      |
|--|--|--|--|--|--------------------------------------|
|  | Single target pattern; forming or remaking alliances without developed political structure |  | Compete or battle                                    |  | Artery connections                   |
|  | Migration or invasion  |  | Attack and counter-attack across territorial border  |  | Neuro-tactical asset (hostile)       |
|  | Civil war or interaction   |  | Long distance movement across non-contiguous regions |  | Neuro-tactical asset - conflict zone |
|  | Internal conflict  |  | Internal political movements                         |  |                                      |

It is impossible to show everything that has happened in world history on a small poster. The main idea of this Chart shows the rise and fall of the great empires and nations through history. It is arranged according to continents, and when possible countries that are next to each other on the globe are grouped together to make life on the chart. It shows how people moved out of their homelands to conquer new territories extending far from home. Each continent is shown in a limited color range, for example Europe is red-orange-yellow. You can easily see where a country's疆界 (border) took control of a country outside Europe because its colour usually "bleeds" over though it is outside Europe. The length of the colour bar indicates the length of time the empire lasted and the width shows how expansive was the territory they controlled.

bold colours, the peaceful people are shown in lighter colours. You will see that some of them for many hundreds of years.

The further we go back in time, the less we know about what happened. That is partly because writing was invented between 5000 and 4000 years ago (or much later in some areas), usually to record events. This is the period we call "prehistory", when archaeology (digging up wrecks) is the main source of our knowledge. These were probably just as many interesting events and then, but the chance of there being empty spaces, because information about them is lost.

For this reason, the space allowed for each century goes smaller as we go back in time. Also, the space allowed for such conditions is not proportioned in the same way - more space is given when something important happened.

recorded history took place. Can you imagine what the Chart would look like if we allowed space for each country and allotted space for each continents according to its actual size? Below the main chart is a Timeline of important events and personalities in the past. These events have all had some influence on our world today—even though many of them are far removed from us. They include kings and queens, politicians, religious and cultural leaders and inventors.

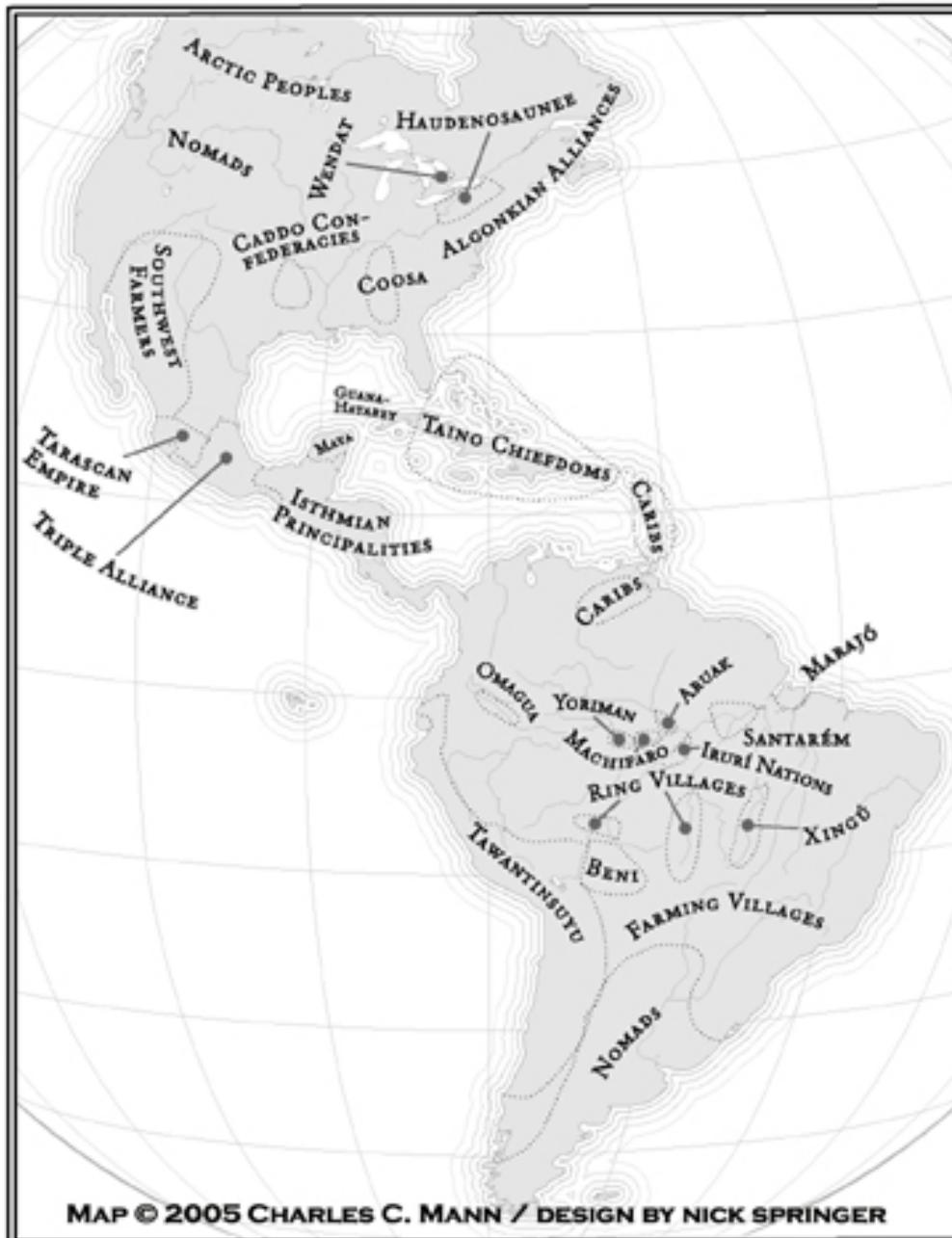
You may also find some of the different "Ages" that you learn about in history. The color indicates the event or person belongs to, as seen on the main chart. Does this indicate that it happened at a single point in time, and the bars show the whole life/work of a person or group of people? You can find out more about these people and events by looking at an encyclopedic or historical book.

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# Native America, 1492 A.D.



Which brings us to  
today...  
Permavucalution or  
Punctuated Equilibrium?

# Climate



## Talent – Birth Rates, Mental Health, Attitude



Attention Span: 8 sec vs 9 sec

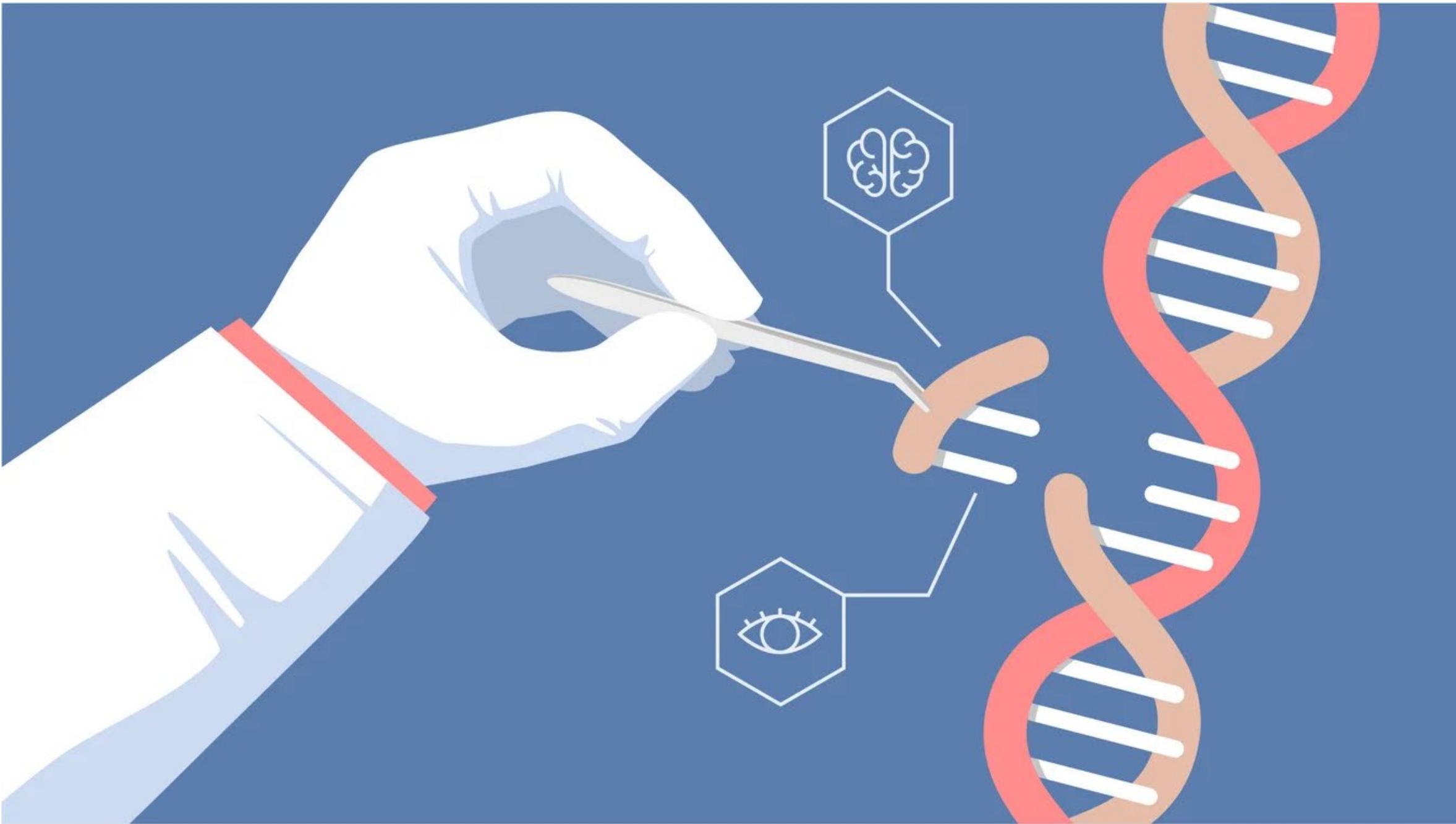


10,000 satellites

25,000 pieces of space junk



# Medicine CRISPR GLP-1 RNA



# Quantum Computing



The Last Asset Class....

\$140 trillion

74% in riches 10%



# Truth



So, my question is this the  
end? The beginning? Or the  
transition to something  
new?

Just when you started  
getting comfortable,  
don't.

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