

A New Language of History

*In our lives we're like nature, seeking
harmonious centers And connections
Creating worlds of peace to live in.*

*To survive, we also sharpen tools, methods & relations
To take growing advantages of others,*

*Taking that to mortal conflict was inherited from the
first Managed economy in Mesopotamia,
Trying to perfect growing without limit, only to only
To collapse in total confusion, Babel.*

*Brilliant people drawn by the math, into colliding
contexts.*

A New Language of History

Long before people learned to write, they created great collaborative civilizations. Ours is the latest addition to four others that began in the Middle East, dramatically rose like us, but then fatally collapsed at their peaks. The Dark Ages that followed erased their economic cultures, caused by growing by growing beyond their natural limits and experiencing symptoms like ours. The threat is of extreme internal conflict from changing too fast causing whole system confusion, the professions seem unaware of.

Our first growth-to-collapse civilization combined two highly creative late stone age Levant cultures — I'll call the Tepe and the Sid's — Engineers & Accountants **the true cradle of Western civilization ~11,000 years ago.**

First developing collaboratively for ~4,000 yrs, growing rapidly caused them to collapse in confusion at its peak, as “**Babel.**” The fifth, **EU/US+**, is doing much the same thing, too, **still not having learned from experience!**

A New Language of History

Background

3

.... But Where'd I learn about it?

- I first started learning about all this difference between nature and humanity growing up in a small upstate New York college town, Hamilton, we called “Secret Valley,” where everything seemed to work.
- My parents, grand, and great grands, were accomplished scientists, educators, builders and organizers — though I was not educated as such, just left to my own curiosity, discovering my big family later in life, with **my ability to notice patters**.
- My dad was chair of the Physics dept., and his best faculty friend, Ken Boulding stayed in touch, the faculty moms taking caring of Ken’s mom, while he traveled, and somehow picked up patterns from how he and my dad related.
- As a college freshman I noticed a very odd thing about how equations were made, **physics discards the data from starting and ending change unexplained**, finding later it was often the lively processes of system formation.

A New Language of History

Background

4

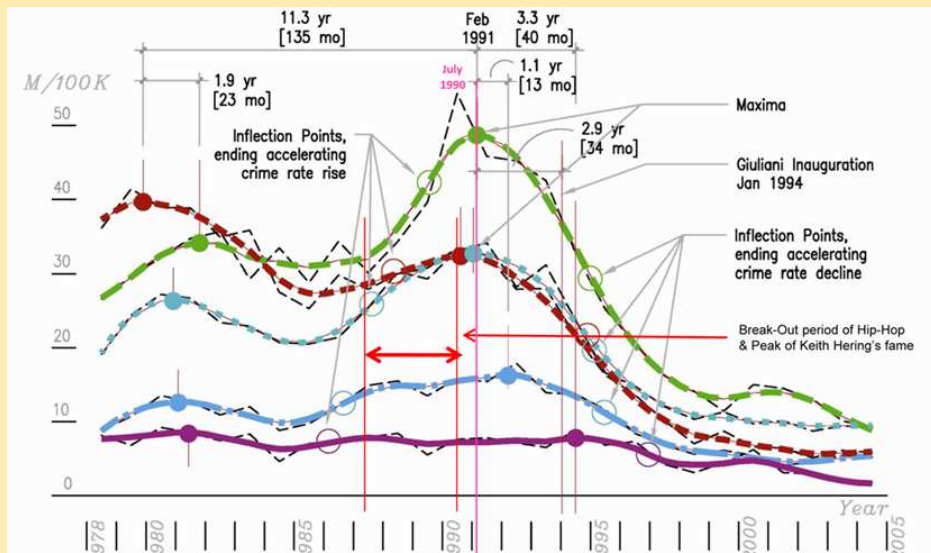
- So, I didn't go on in physics, but into architecture at Penn, finding interest in what makes life lively, and learning from Luis Kahn & others, that **design is for living, not really for control.**
- I also studied design pattern languages, for the processes of system formation, **new forms of organization built by innovation then maturation.**
- **You see it in the “S-curves,”** of progress for design efforts or most anything else, as well as in natural transformations.
- It was the '70s. After school I traveled to visit friends, ending up in Denver, doing carpentry, and **made a portable lab to study micro-climate design.**
- I found: 1) **it was growth that made life lively** and 2) **growth also produced the continuity of changes in nature,** 3) Not being paid for it, physics had never studied that.
- But I lost my house, got sick, and went back home, having to restart my career.
— After a wonderful long exploration.

A New Language of History

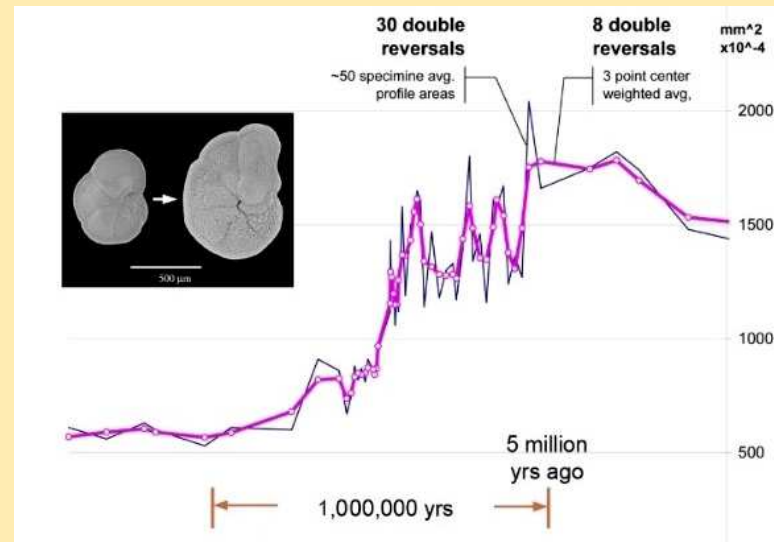
Background

..... So while working my way up in New York architecture offices... learning the craft, I was also and working on my new physics of natural design, developing the **CURVE software** for restoring to time series data the natural flowing shapes of lively change. **It puts back the eventfulness that physics takes out, the formative processes of natural change people naturally see and learn from.**

Converging cultures of NYC
ending the great '80s crack epidemic



Million yr plankton emergence
w/ overshoot and fallback to surge again)



A New Language of History

6

Both people and nature grow systems of new design, making our thinking quite unlike nature's ... like not noticing regular change heading growth to infinity.

It's a trap almost no one notices, and the math reinforces, blinding us to context.

It lets growth become an overused solution that becomes a mortal threat, as a trusted solution, growing into waves of destruction **in all the same contexts.**

The Great Solution => becoming the => “multi-crisis”

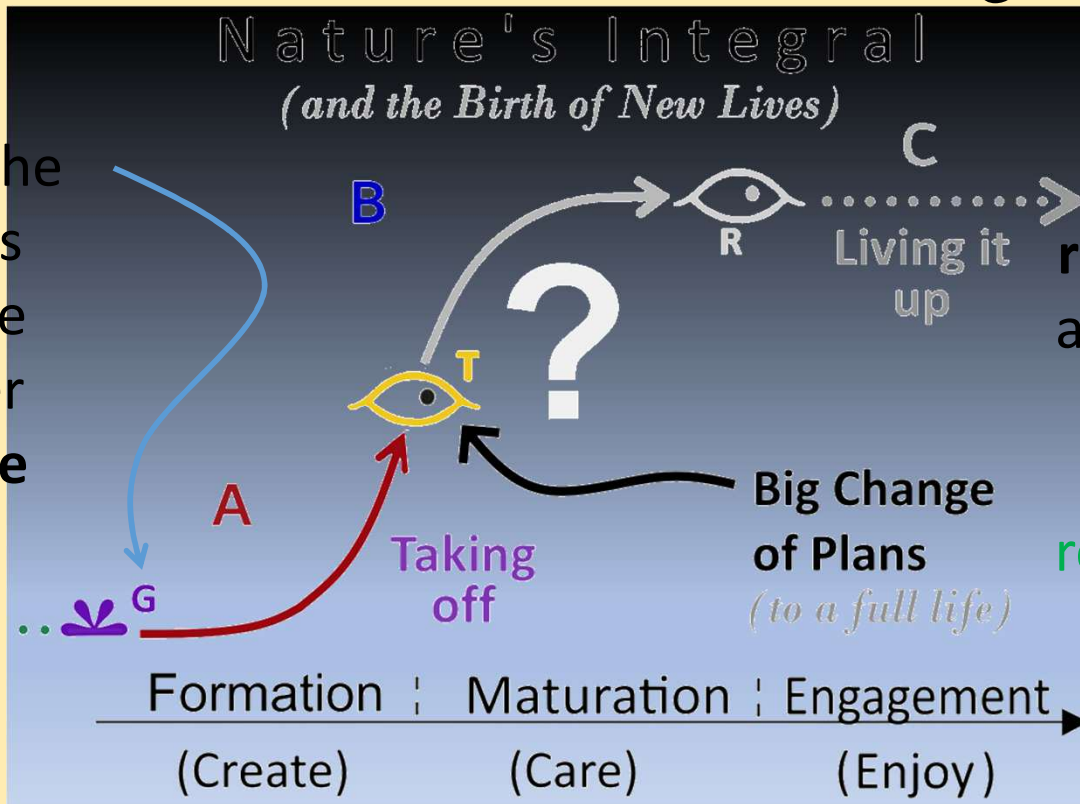
Natural solutions

- | | |
|---|--|
| 1. We <u>can</u> get good at noticing change and learning to respond. | 1. We don't like changing rules , confusing us when either in our own or natures. |
| 2. <u>Our first managed economy</u> ~8,000 to 5,000 years ago, profoundly collapsed from rules for being more successful. | 2. People need to change is with care and help with seeing new wholes working together - reading the contexts. |

What If we Learned Nature's Language?

7

Germ-in-ation is the spark that ignites the growth phase **speeding up** ever faster, **to collapse or...transform**.
Think of any?



Seeds **start their roots in the flower!!**, a head-start for quick takeoffs when in warm moisture, **ready to change form**
Think of any?

As the seed sprouts it starts a great burst of growing **A**, a sprout

Then... to not fall over, they change form, growing slower **B** to last

**When I first noticed something wrong with our translation
of nature into math was as in freshman physics, 1964**

**As I kind of already knew the territory, I made jokes about it
in the first Physics lab, asking why equations start and stop in
mid air.**

HOW TO MAKE
A FORMULA

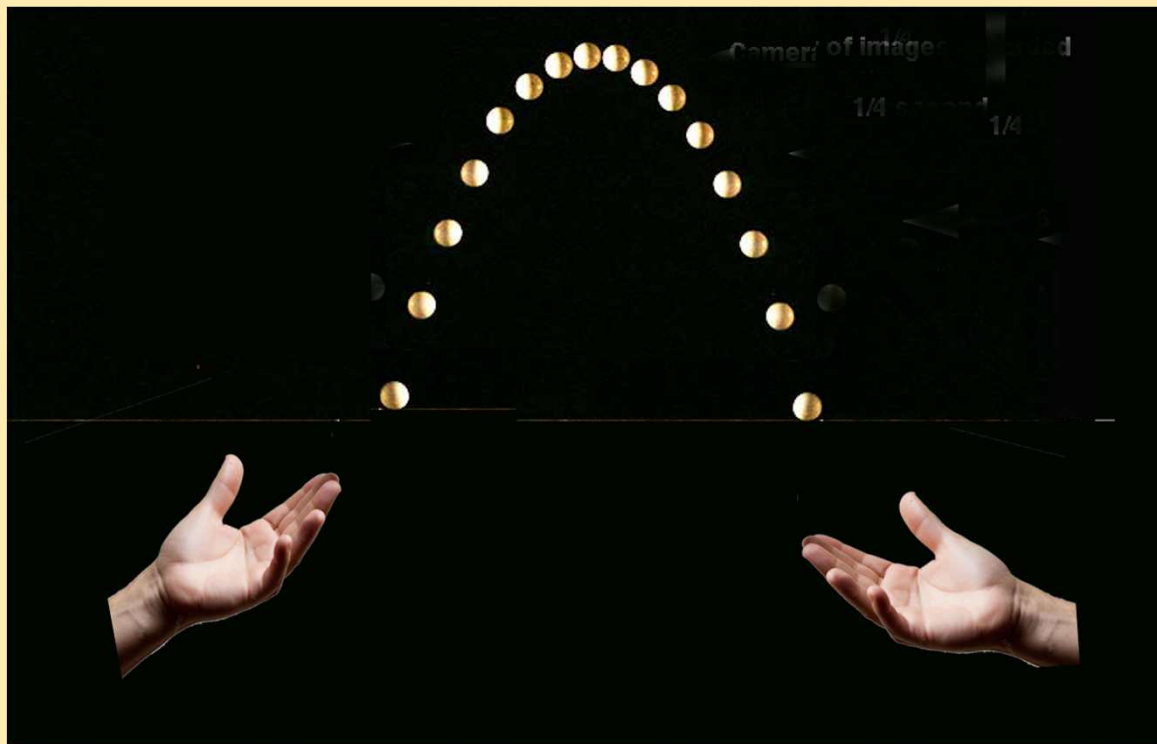
Camera of Images
1/4 second
1 BALL
1 STROBE LIGHT
: PHOTOGRAPHED
: DO THE MATH

For me, that demonstration was **my first tip-off**
that VERY LONG AGO
physics had gotten the wrong formula

Nothing wrong with the math — but **WHY DO WE CARE ABOUT IT SO MUCH**

A ping pong ball's path, from one end of a lab table to another,
lit by a strobe light, is ($= a*x^2 + b*x + c$)

What's it
telling us
with such
great
precision,
though?

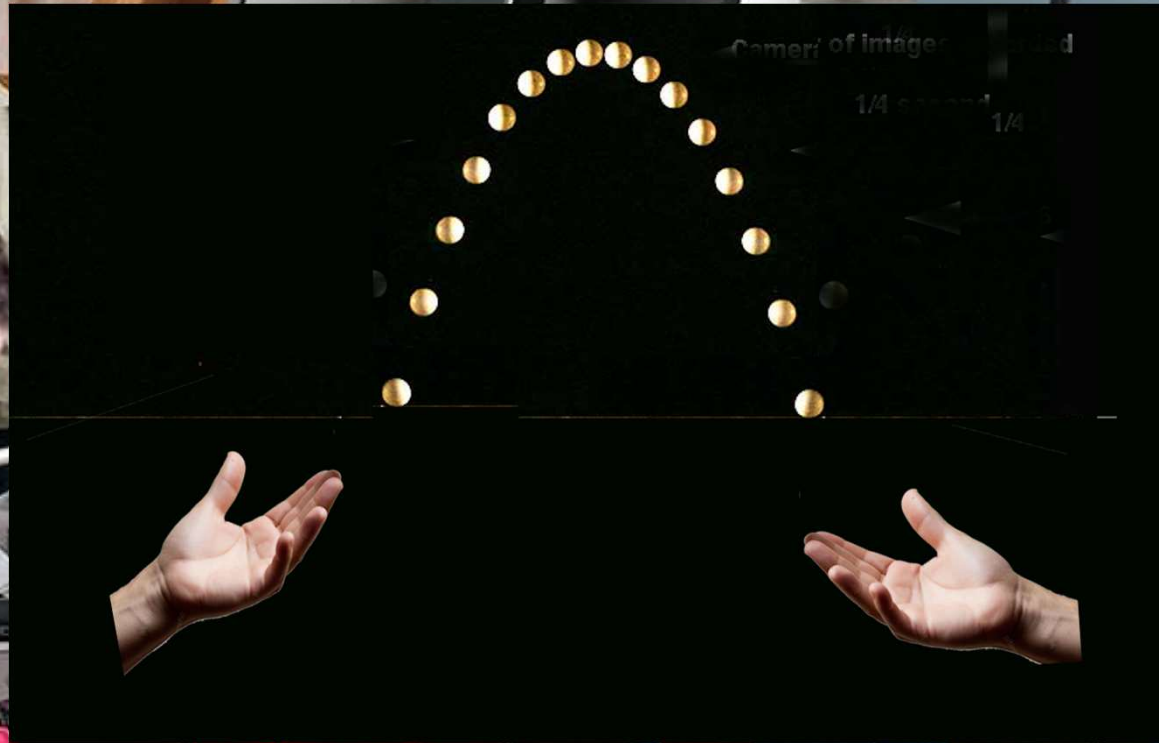


Everything
else about it
that seems
to matter, is
being very
left out.

The record leaves out the tossing and catching ... the self-organizing systems that energize its takeoff & Landing ... prompted by a signal.

Perhaps what you could call the secret of life

**Precision is
an illusion of
control, but
no one
studies the
much more
important
variations**



**Is science not
what we
thought, for
pointing to
clear paths
ahead?
Well, for
profit!**

**If it leaves out the whole context in which change is
taking place, won't the students, and what they'll use
the precision for, misusing nature ...
not understanding what nature needs to work by itself.**



In reality — Nature creates worlds of richly organized centers,
sharing connections with others, to work as wholes.
All essential context omitted in the science of equations.

But ... **Who** decided to leave out all the contexts and
represent nature with formulas??

It was “**the first scientist,**” **Thales of Miletus**, a ~600 BCE Greek businessman, ships captain, trader, intellect (who changed our view to seeing nature as money).

Like a scientist he took a very opportune moment in history to, in effect, decide everyone should represent nature with numbers and formulas, Having searched ancient libraries, and businesses near his Mediterranean ports of call, he looked for **the financial secrets of endless growth, that we now know, repeatedly caused the collapse of our greatest prior civilizations.**

Though, the true nature of humanity is as explorers

As is seen in great Homo Sapiens Diaspora

Though Thales led to replacing nature with numbers. said to be the only “true science,” (replacing the thousands of years older Greek Aegean ‘Hestian’ Oikos (home) ways of caring for “centers with connections,”

...that reality still lives on in how we all live our home lives.

And the put-downs of natural design as invalid “nature religion,” are also re-traceable in the stories,

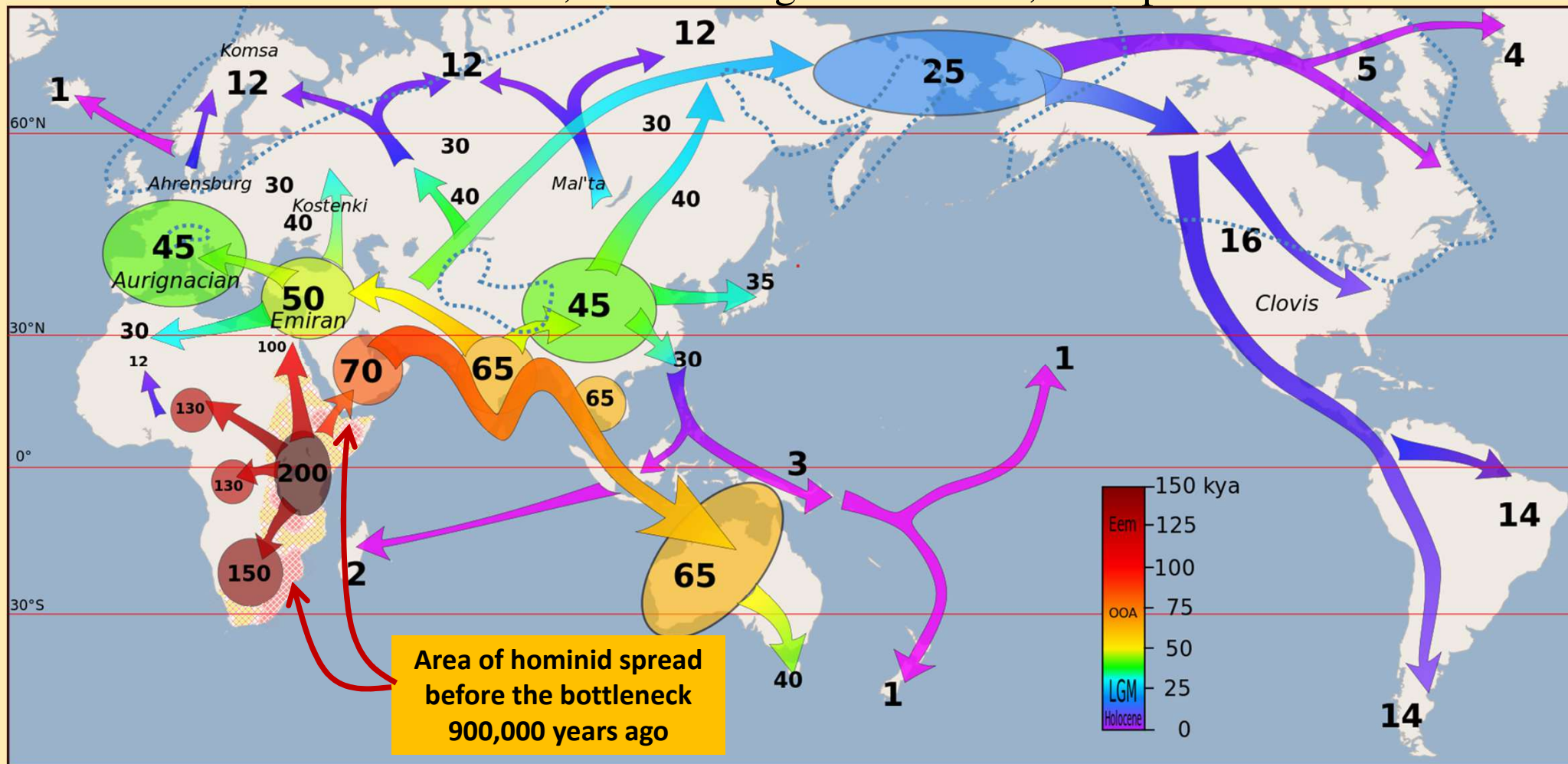
Drawing a line between so called “true religion” of “buy low & sell high” ignoring context, exploiting conflict & exclusions

Oh... just multiplying inequities to take advantage of others.

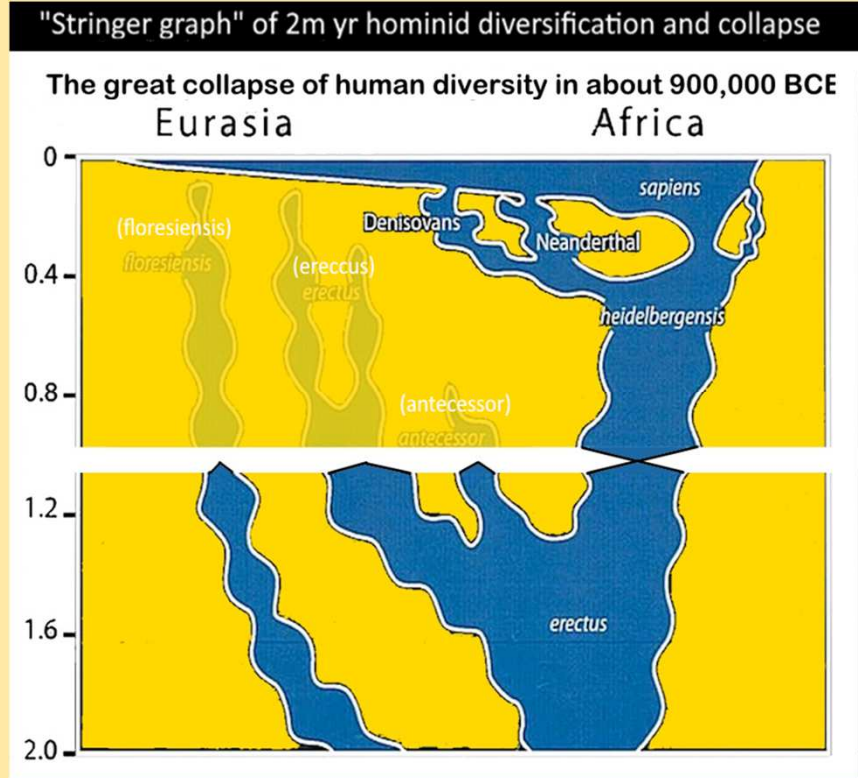
With no way out.

But who really are we???

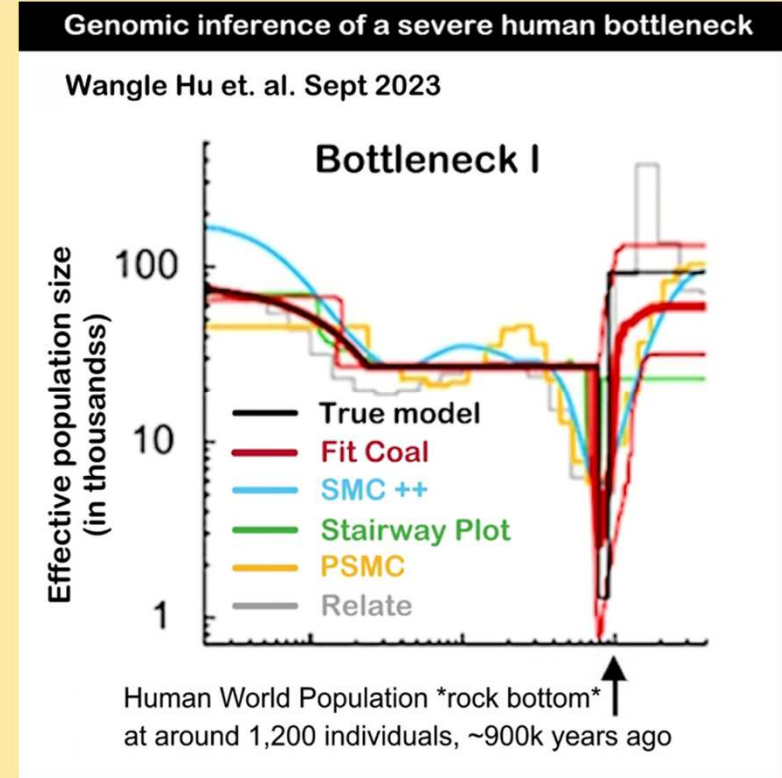
Our diaspora is 200 thousand + years of exploratory travel from the Erectus homeland in So Africa as Homo Erectus,.North along East African, as Sapiens around the world.



Who else were we? A ~99% drop in human population ~ 900,000 yr ago ¹⁶
Signs of getting carried away with the conflict between theory and nature then too??



Still unexplained, modern humans began as a diverse species, then a population collapse, eliminated four, leaving just one.



Six independent archeological studies of ancient human diversity agreed, a million In population was reduced to ~1,200

Our New Language of History –Repeated Growth to Collapse

17

- ◀ Patterns implied by successive continuity and discontinuity trends,
- ◀ Not yet archeological measures of vitality or activity
- ◀ The notable Dark Ages only shown as gaps in activity before recovery

What the data and stories imply

Our Western Civilizations became stuck in a recurring cycle of growth to terrible collapse.



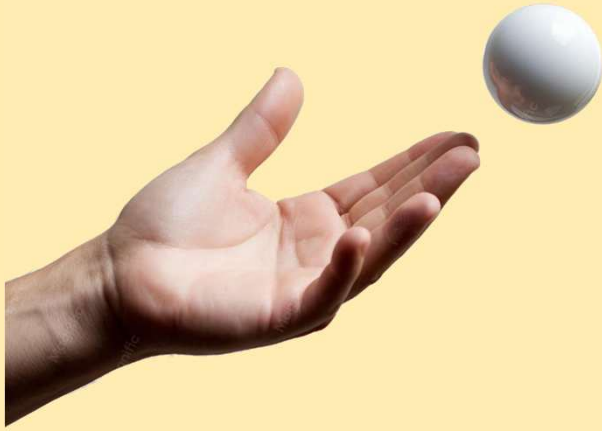
Archeological Periods that partly correspond to Civilization Ages

18

Era	kyr bp	Yrs	Duration	Time Period
Prehistory	-2,600	2meg g	2meg 200C bp	Paleolithic Period: 2.6 Myr ago to 10,000 BCE
	-2,200	20k	20k 2,200 bp	Mesolithic Period: 10,000 BCE to 8,000 BCE
	-700	5k	5k 7C bp	Neolithic Period: 8,000 BCE to 3,000 BCE
Ancient	-3.8	1.8K	1.8K 3.8k bp	Bronze Age: 3,000 BCE to 1,200 BCE
	-1.5	1.7K	1.7K 1.5k bp	Iron Age: 1,200 BCE to 500 CE
Classical	-4.4	4000	4000 4.4k bp	Ancient Greece: 8th C BCE to 4th C BCE
	-1.5	9000	9000 1.5k bp	Ancient Rome: 8th C BCE to 5th C CE

Era	kyr bp	Yrs	Duration	Time Period
Medieval 8C	-1.0	5C	5C 10k bp	Early Middle Ages: 5th C CE to 10th C CE
	-.2	2C	2C 1.2k bp	High Middle Ages: 11th C CE to 13th C CE
	-.525	1C	1C 5.25c bp	Late Middle Ages: 14th C CE to 15th C CE
Renaissance Early & Modern	-.5	3C	3C 5C bp	Renaissance: 14th C CE to 17th C CE
	-1.5	1.75C	1.75C 1.5c bp	Enlightenment: 17th C CE to 1875 th C CE
Modern	-1.1	.4C	.4C 1.1 bp	Industrial Revolution: 1875 CE to 1915 CE
	-.6	.6C	.6C	World War I: 1914 to 1918 World War II: 1939 to 1945 Following Interwar 1918 to 1939 Post War to 1965
Contemporary	-.6	.6C	.6C	Info Age & Greate Explosion: 1965 to present 2025

Might a final collapse come from our living in nature – but – only
seeing progress in numbers — not relationships



Nature works by itself,
building connections for moving or using energy, often
building systems by growth
using its vast supply leftover parts that serve as compost
for new designs.

Nature makes many short-lived designs too.
Its long-lived designs grow to keep evolving, as energy
systems that then explore their contexts
for more parts and energy, like we do.

A natural evolutionary property of nature.
(not numbers)

The Real History of Babel and the Bronze Age

20

There are 3 parts, we can understand if we look at how the first world civilizations evolved. That almost no one knows about in detail but are familiar in the sense of being designed like our own world, around diverse arts, architecture, communications, and creative production to please an ever-faster-growing multicultural whole world.

Part1. The Natufian world of the Full Northern and Southern Levant,
Joining the two polls of the PPN (Pre-Pottery Neolithic)

The Southern Levantine PPN

Settled heavily in the **Jordan River Valley** (with iconic sites like Jericho/Tell es-Sultan and WF16). Masters of early perennial water management, alluvial architecture (pioneering round mudbrick homes), the first experimental, large-scale harvesting of wild grains.

The Northern Mesopotamian / Anatolian PPN

Settled the hilltops of Upper Mesopotamia, including **Göbekli Tepe** and near *Taş Tepeler* sites. The achieved extraordinary social organization, monumental megalithic architecture, and deep symbolic, artistic, and ritual expression (carving the famous massive T-shaped stone pillars).

20

2000 AD today
Modern 500yr
 1500 AD
 1000yr
500 AD Collapse
Rome 1000yr
 500 BC
 100yr
150 BC Collapse
Clas. Greece 650yr
 800 BC
 300yr
1100 BC Collapse
Bz Age 1400yr
1st Kingdom of Egypt
3100 BC
 3000Yr
5500 BC Collapse
Fertile C. & Babel 5500yr
8000 BC Join
Gobekli Tepe 9.6ky BC
Jerico 9.6ky BC
Jordan Valley 11kyBC

A Great Multi-Cultural Success triggered by the Younger Dryas! ²¹

A New Language of History

Round homes of Jerico
 Innovative settled farming, Jordan Valley
(Southern PPN)



The Farming
 methods that Led
 to Cuneiform
 accounting

The Engineers of Gobekli Tepe
 The Egyptians in 3500 years ago seem to have
 learned artistic stonework principles of the
 originators, 8000 years before.
(Northern PPN)



Two - Exceptionally Creative and Organized Stone Age Cultures Join Together To
 Create Western Civilization

1500 AD	500yr
Modern	
500 AD	1000yr
Rome	
500 BC	100yr
150 BC	650yr
Clas. Greece	
800 BC	300yr
1100 BC	1400yr
Bz Age	
1st Kingdom of Egypt	
3100 BC	3000Yr
5500 BC	5500yr
Fertile C. & Babel	
8000 BC	9.6ky BC
Gobekli Tepe	
Jerico	
Jordan Valley	11kyBC



The Gobekli Tepe also added rangeland harvesting of wild grains and migrating wild animals.

The Jordan Valley Farmers needed writing to explain their methods and accounts,

Together a great team for organizing regional economies, recorded by scribes



It spread, then multiplied, leading to collapse!
— in Mesopotamia — Babel, the tower of confusion that followed!

Modern	500yr
1500 AD	
1000yr	
500 AD	Collapse
Rome	1000yr
500 BC	
100yr	
150 BC	Collapse
Clas. Greece	650yr
800 BC	
300yr	
1100 BC	Collapse
Bz Age	1400yr
1st Kingdom of Egypt	
3100 BC	
3000Yr	
5500 BC	Collapse
Fertile C. & Babel	
5500yr	
8000 BC	Join
Gobekli Tepe	9.6ky BC
Jerico	9.6ky BC
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Scribes Recorded
Contracts, organized
trade, and made markets!

In the next stage it spread across
the “Fertile Crescent” organizing
wild agriculture communities
needing technology to survive.
But with wealth concentrating in
Southern Mesopotamia using
Scribes, organize the regional
growth of the economy.



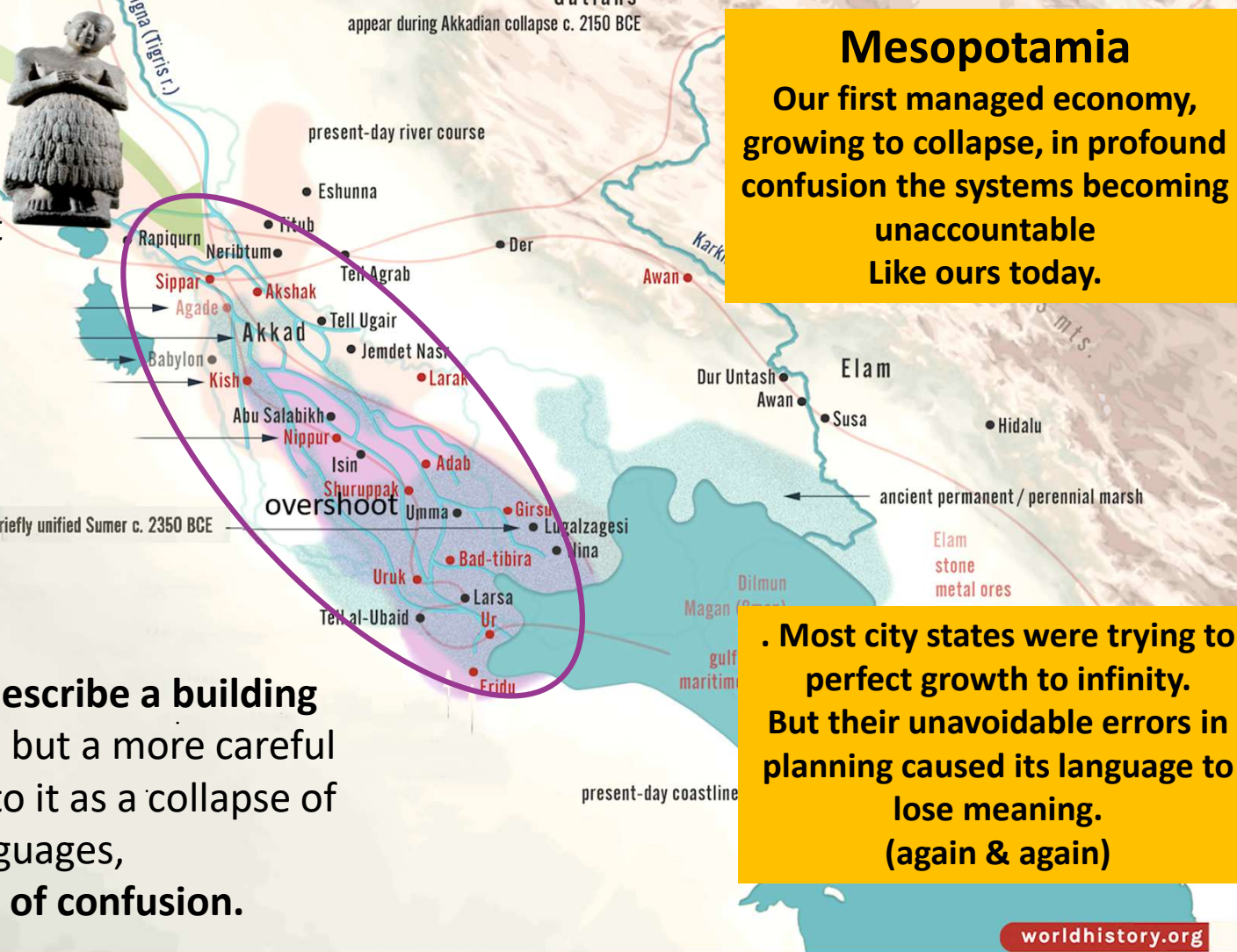
10000 AD today	
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5500 BC	Collapse
Fertile C. & Babel	
5500yr	
8000 BC	Join
Gobekli Tepe	9.6ky BC
Jerico	9.6ky BC
Jordan Valley	11kyBC

Then Babel

The Sad Scribes not knowing the plan was to blame, caused one city state after another to overshoot and quite naturally

COLLAPSE

Most stories describe a building tower collapse, but a more careful reading points to it as a collapse of languages, in a tower of confusion.



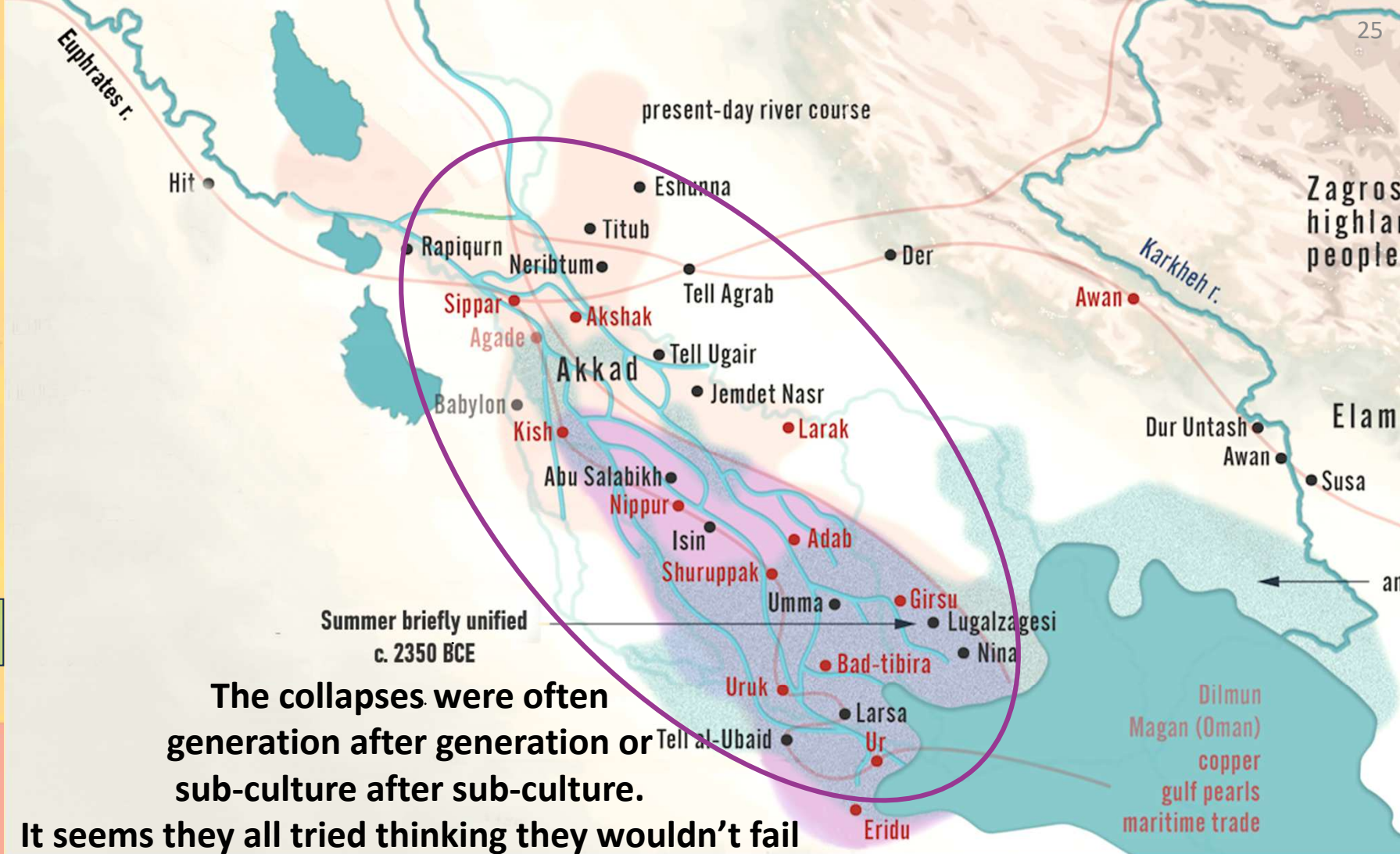
Mesopotamia

Our first managed economy, growing to collapse, in profound confusion the systems becoming unaccountable Like ours today.

. Most city states were trying to perfect growth to infinity. But their unavoidable errors in planning caused its language to lose meaning. (again & again)

worldhistory.org

2000 AD today	500yr
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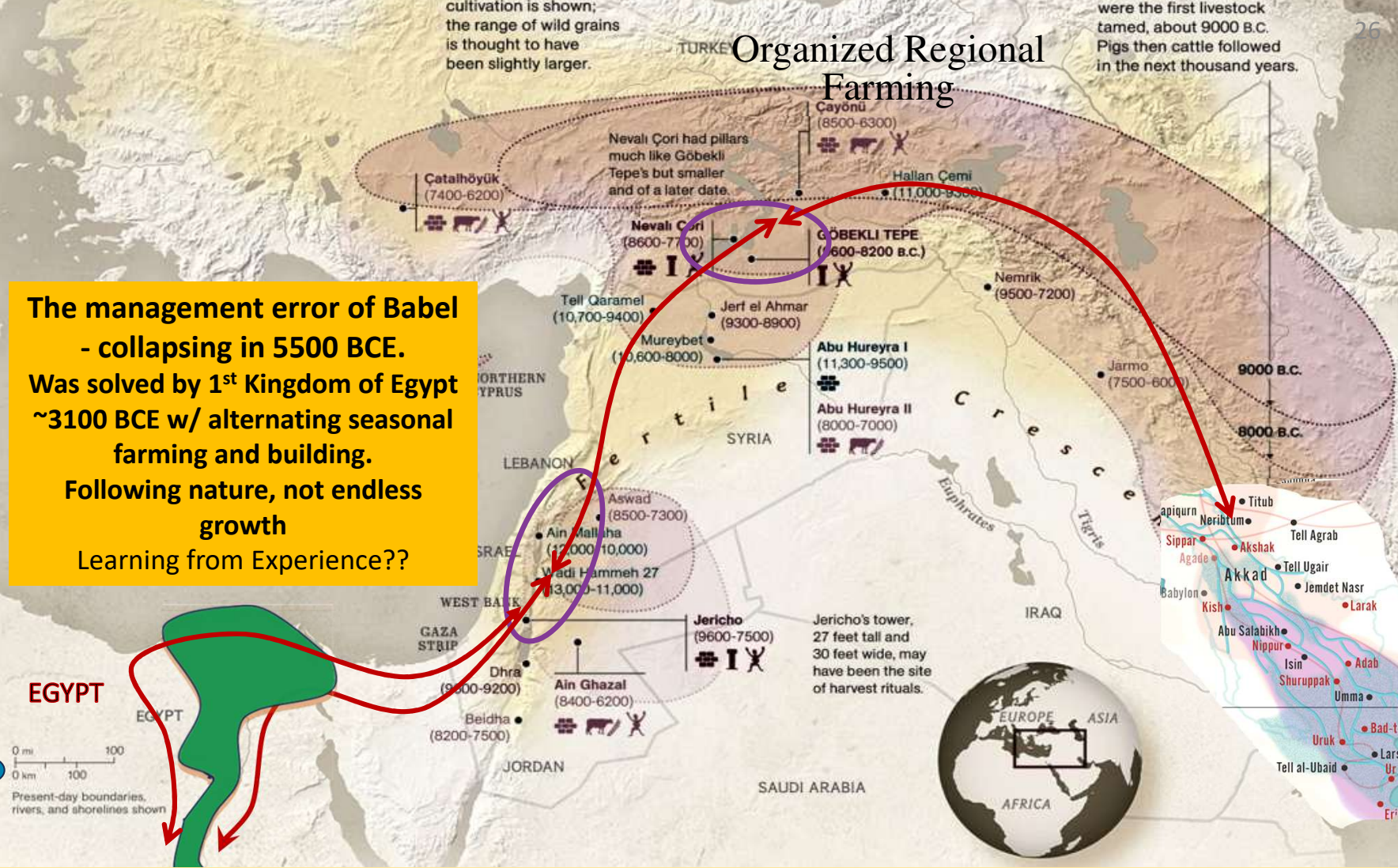


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**The management error of Babel
- collapsing in 5500 BCE.
Was solved by 1st Kingdom of Egypt
~3100 BCE w/ alternating seasonal
farming and building.
Following nature, not endless
growth
Learning from Experience??**

Organized Regional Farming

were the first livestock tamed, about 9000 B.C. Pigs then cattle followed in the next thousand years.

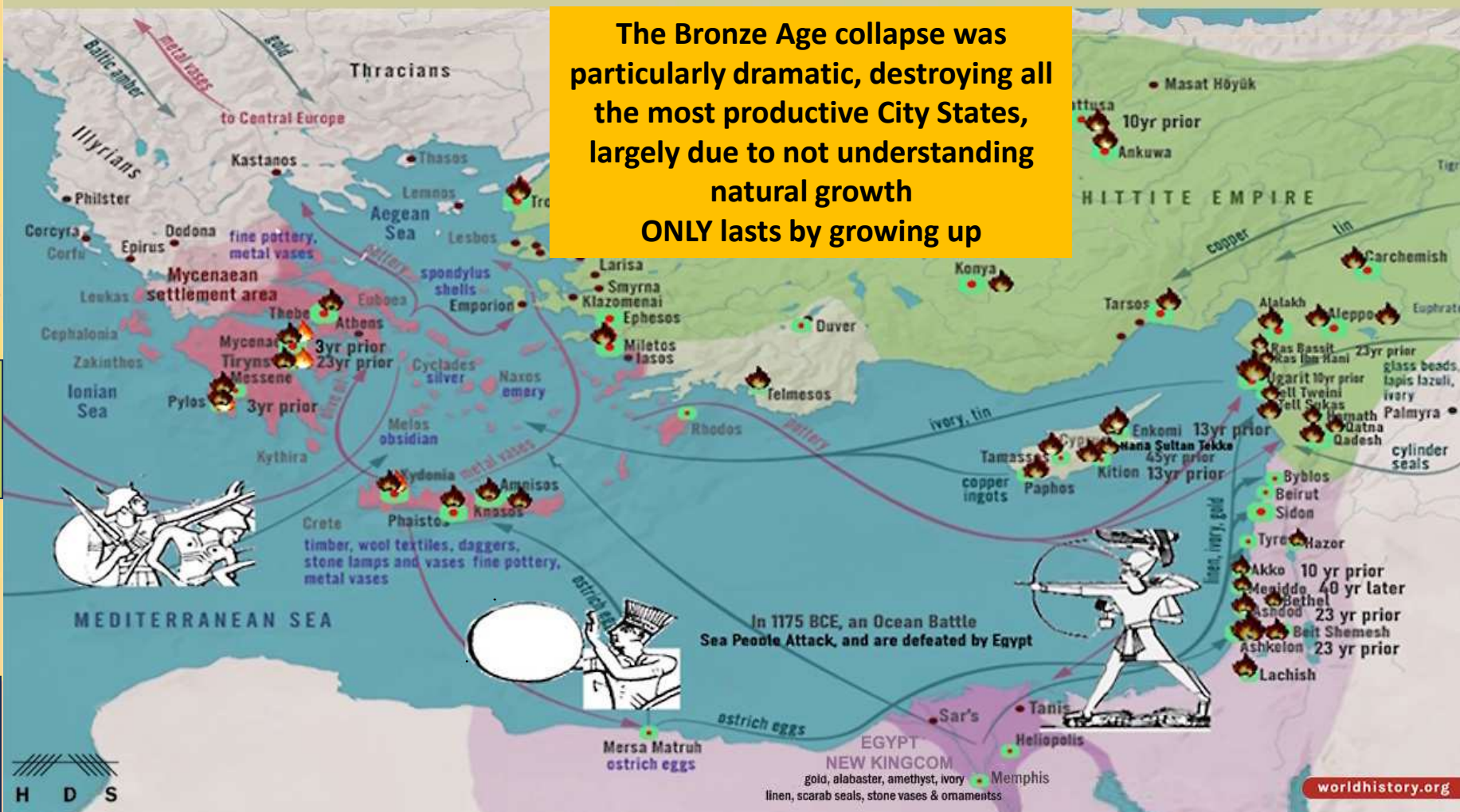


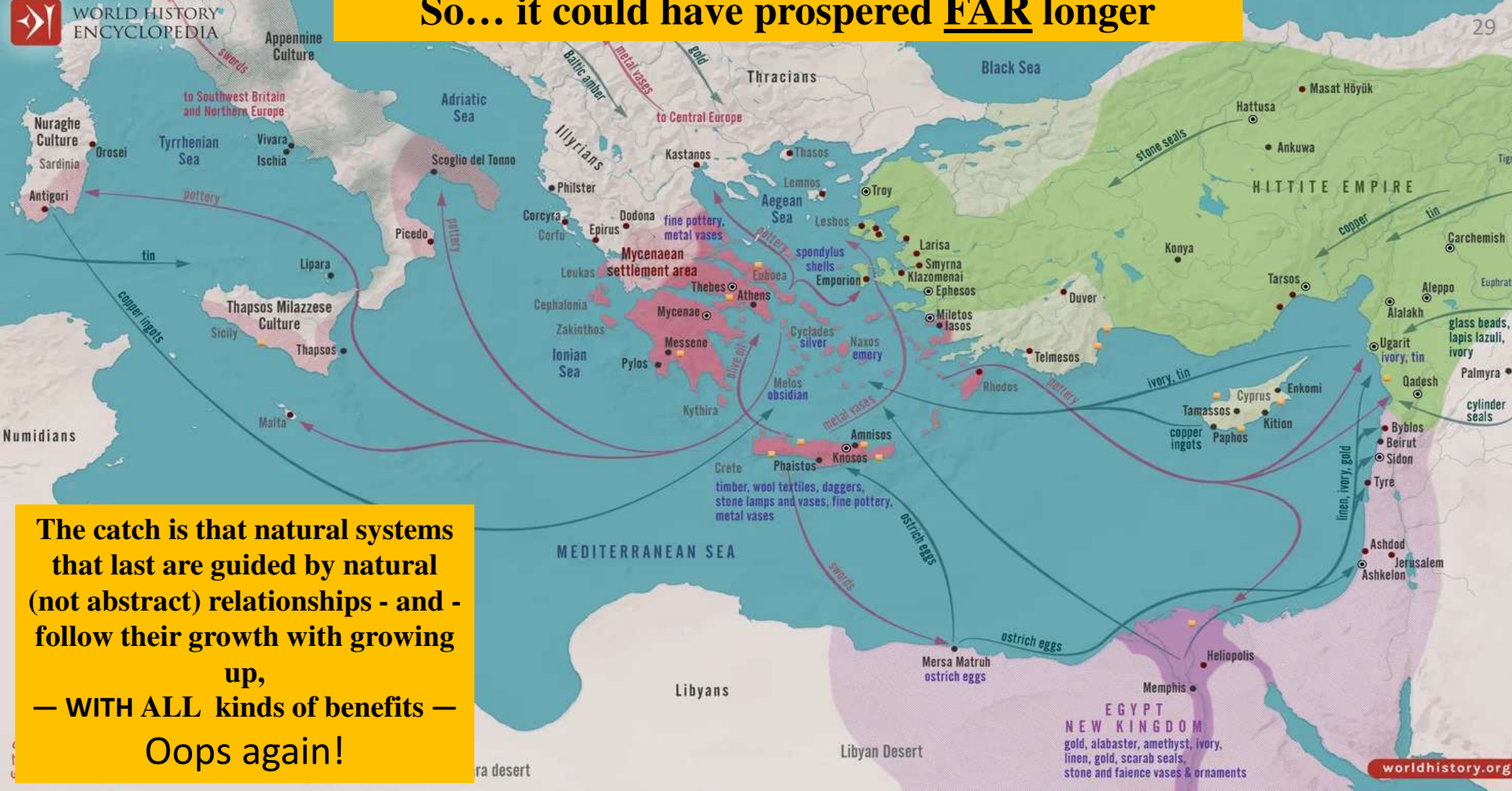


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The Bronze Age collapse was particularly dramatic, destroying all the most productive City States, largely due to not understanding natural growth

ONLY lasts by growing up





The catch is that natural systems that last are guided by natural (not abstract) relationships - and - follow their growth with growing up, — WITH ALL kinds of benefits — Oops again!

Welcome back to homebase... The 2026 ISSS Cyprus Meetings

30

Have We Done our Job? See the ref's link for getting together.
Synapse9.com/_2026-ISSS



Have we

- ☐ Elevated Systems Science?
- ☐ Addressed Humanity's Greatest Challenges?
- ☐ Seen a clear vision of the long path for humanity ahead?
- ☐ Had a good time?

If you're around after closing on Friday, come to the Radisson Beach Hotel. Jessie

**So, from here on, it's Time To Find Real Words Again,
The Secret To Growing Up and making it back home!**







So.... Now what should we do with it now? Crash Civilization again and risk never being able to rebuild this time?? Or maybe “Start Over” ?