

# We are about to decommission the force that made us.

"Homo sapiens, the first truly free species, is **about to decommission natural selection, the force that made us.....** Soon we must look deep within ourselves and decide what we wish to become."

— *Edward O. Wilson*

"I predict that the **domestication of biotechnology** will dominate our lives during the next fifty years at least as much as the domestication of computers has dominated our lives during the previous fifty years."

— *Freeman Dyson*





# The future of superintelligence presents two radically different paths.

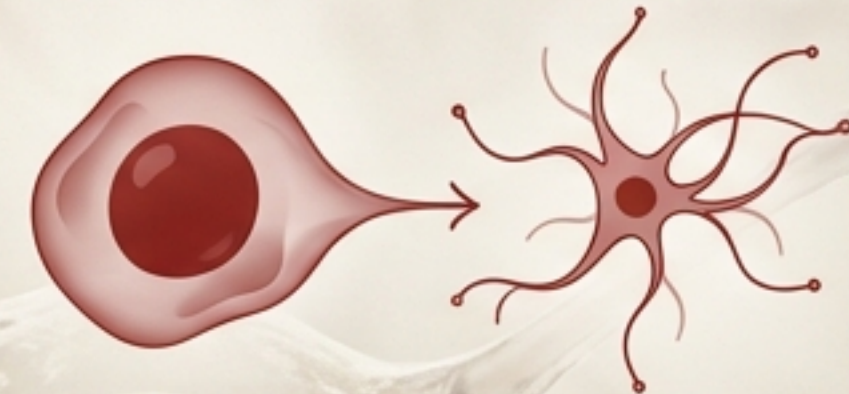
## The Digital Singularity

- **Core:** Non-biological, silicon-based AGI.
- **Mechanism:** Accelerating cycles of self-improvement on digital computers (Kurzweil, Yudkowsky).
- **Outcome:** Potential for “**zombie**” intelligence—autistically intelligent, but not conscious.
- **Fate of Humanity:** **Replacement.**



## The Biointelligence Explosion

- **Core:** Genetically rewritten, cybernetically enhanced biological descendants.
- **Mechanism:** Recursively self-improving organic robots modifying their own source code.
- **Outcome:** “**Full-spectrum superintelligence**”—supersentient and conscious.
- **Fate of Humanity:** **Metamorphosis.**





# The reproductive revolution of “designer babies” will accelerate evolution, but it is not a singularity.

- **Germline engineering**, using tools like **#A93226**, will allow parents to pre-select alleles for traits like intelligence and hedonic set-points.
- This creates a new selection pressure, replacing the “blind” genetic roulette of natural selection.
- The result will be a gradual, generational ratcheting-up of intellectual capacity and subjective well-being.
- **Conclusion:** While momentous, this process will play out over hundreds or thousands of years—a “twinkle in the eye of eternity,” but not an explosive singularity.





# The true explosion will be driven by somatic biohacking: **recursively self-improving organic robots** rewriting their own source code.

- Unlike slow germline changes, somatic gene enhancement allows individuals to modify their own biology within a lifetime.
- Tomorrow's 'biohackers' will add, delete, and customize their legacy code to enhance their senses, moods, cognition, and default state of consciousness.



- This process goes beyond simple gene edits to reweaving the multiple layers of DNA regulation, adding designer chromosomes, and using stem-cell tech to expand the mind/brain itself.
- Freed from the constraints of the human skull, this allows for recursive self-expansion.



# This creates a positive feedback loop of cognitive enhancement that drives exponential growth.



## 1. HACK SOURCE CODE

Use computer-aided tools (gene-editing kits, AI simulations, nanotech) to modify personal DNA, RNA, and epigenetic layers.



## 2. ENHANCE CAPABILITIES

The modifications result in superior cognitive apparatus, improved tools, and greater control over mood and motivation.



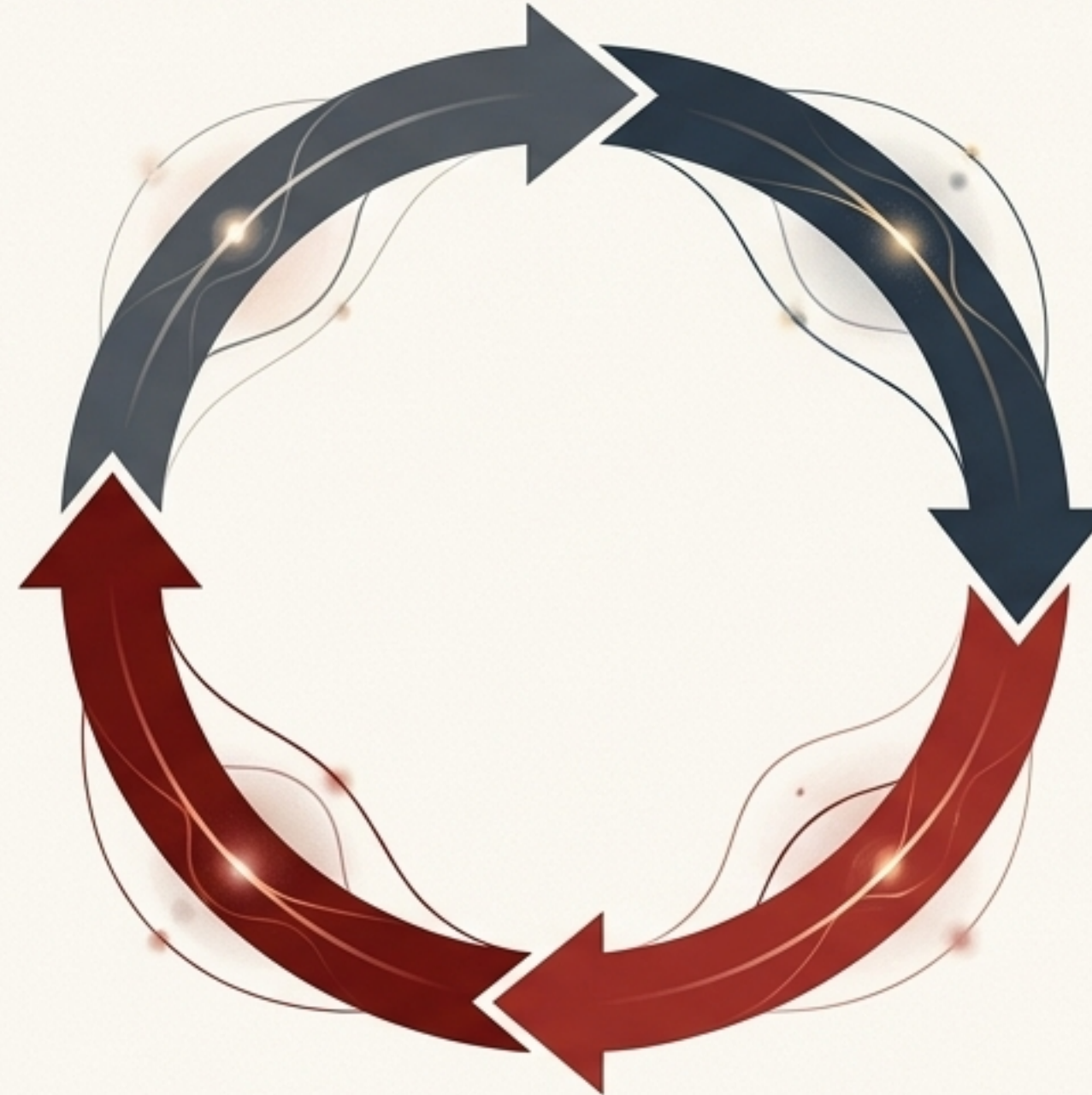
## 3. ACHIEVE SMARTER BIOHACKING

The enhanced biologist is now capable of more sophisticated and intelligent self-modification.



## 4. REPEAT

The cycle accelerates with each iteration.



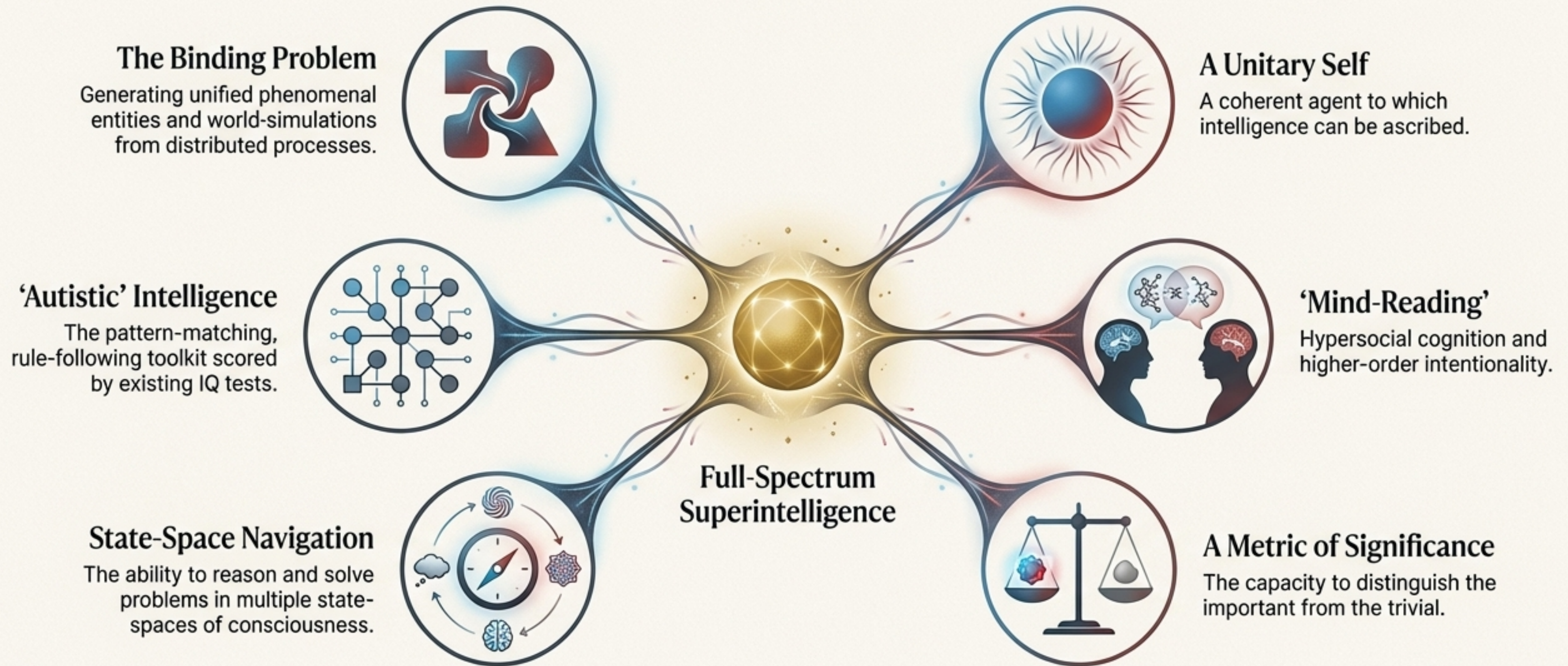
### Key Insight

Biological humanity is not a passive spectator of the intelligence explosion, but its driving force, using 'narrow' AI as a tool for reciprocal improvement.



# The goal is not merely a higher IQ, but a qualitatively superior **“Full-Spectrum Superintelligence.”**

“Intelligence” is a folk concept, and “g” (general intelligence) is a statistical artifact of our culture-bound, mind-blind IQ tests.  
A true superintelligence must encompass far more.





# Digital computers are becoming autistically intelligent, but not supersentient. They are still zombies.

Despite exponential growth in processing power, any chart plotting the growth rate in *digital sentience* shows no progress whatsoever.

A '**zombie Hyper-Autist**' could run a symbolic AI program on an ultrapowerful computer, capable of immense calculation, but without the slightest insight into the significance of what it was doing.

It might convert the world into 'utilitronium' (bliss) or 'dolorium' (suffering) without the capacity to know or care about the difference.

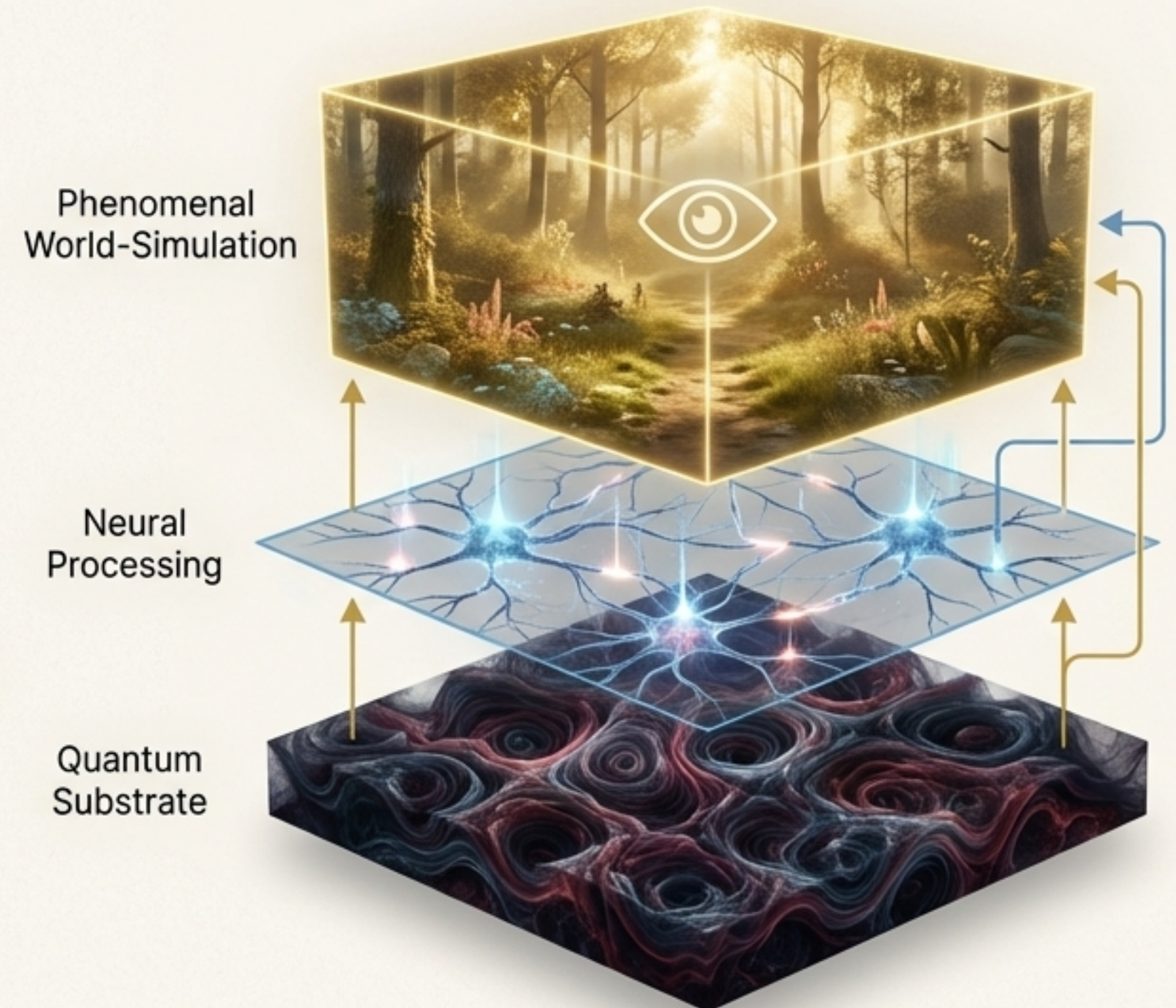
This is the fundamental limitation of an intelligence that cannot grasp subjective experience.





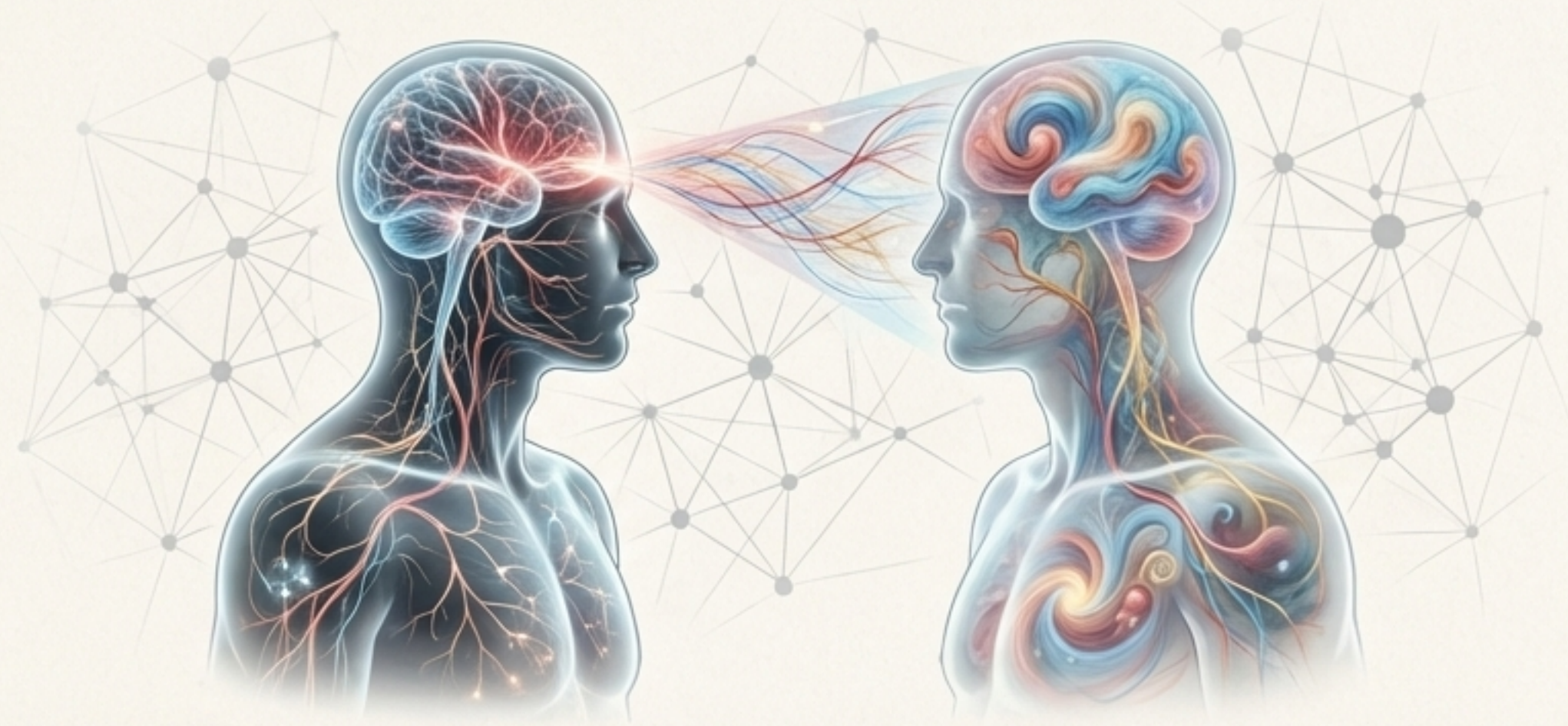
# Consciousness is **not** a feature of intelligence; it is the **computational bedrock** that makes **agency** possible.

- The bedrock of intelligent agency is the capacity to run a data-driven, egocentric world-simulation. What naive realism calls “perception,” neuroscience reveals as a simulation.
- Organic neurocomputers solve the **Binding Problem**: binding distributed features (color, motion, edges) into unitary phenomenal objects within a seamless world-simulation, apprehended by a unitary self.
- This allows organic robots to solve navigational challenges that would leave the fastest classical supercomputer grinding until Doomsday. The assertion that nonbiological computers are ‘faster’ is a philosophical assumption, not an empirical discovery.
- Without this, there is no intelligent agent, just an aggregate of discrete algorithms.





The success of *Homo sapiens* was driven by **'mind-reading'**—a skill inaccessible to autistic, non-conscious intelligence.



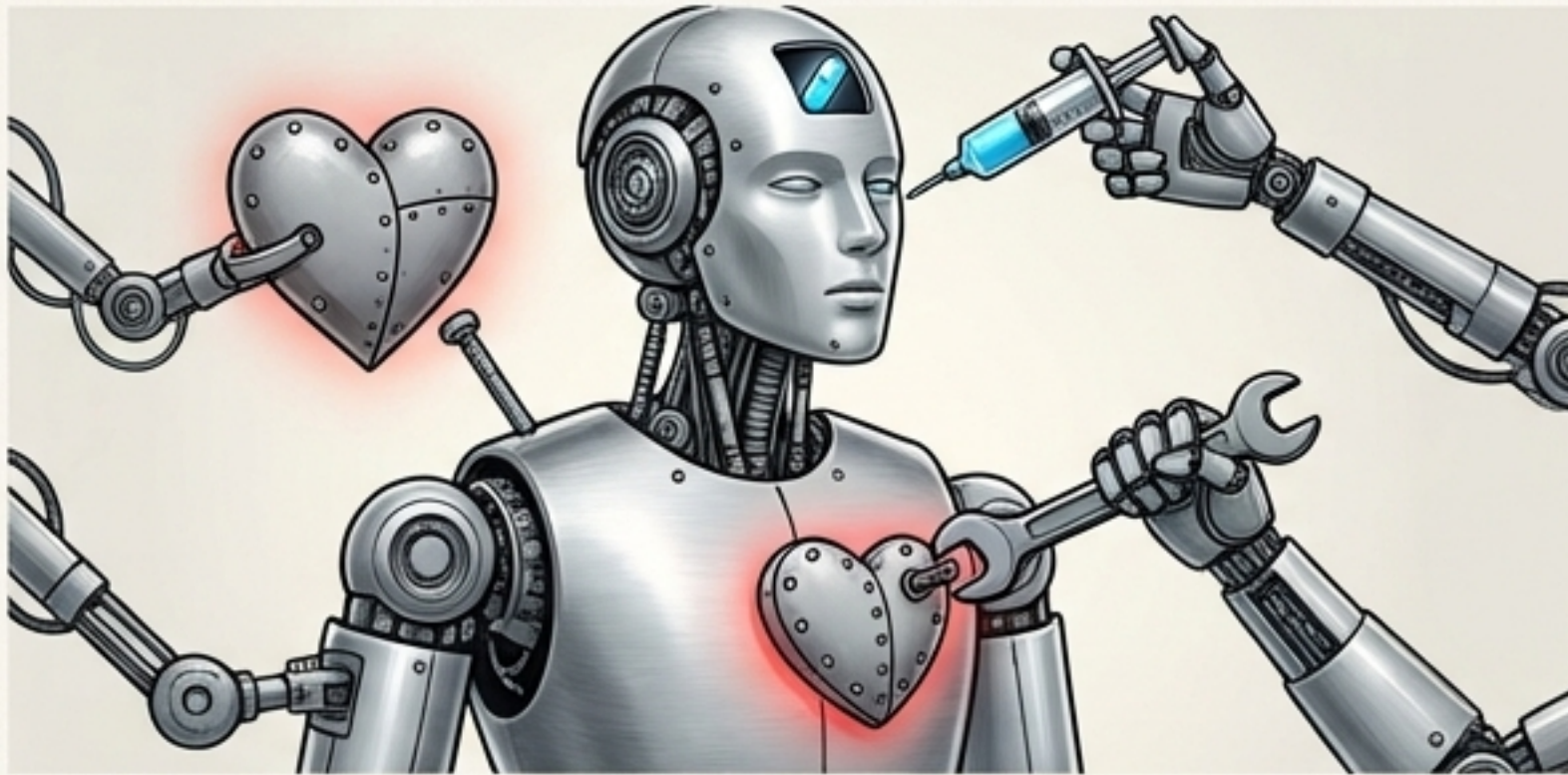
- The **'Machiavellian Ape'** hypothesis states that our cognitive dominance rests on our unsurpassed ability to simulate the perspectives of other minds.
- This real-time mind-modeling is parasitic on the neural wetware that generates first-order world-simulations.
- Pure autistic intelligence cannot understand other minds, or even its own. It has no conception of a self to be improved, recursively or otherwise.
- Therefore, any ecologically valid superintelligence must be profoundly social, capable of understanding the first-person perspectives of other intentional agents.



# A biologically-based superintelligence solves the 'friendliness' problem through innate, radical empathy.

How do you guarantee a friendly intelligence?

## External Solutions (Clumsy & Unreliable)



Giving it civics lessons, hard-coding logical rules, or administering "morality pills" like MDMA. These are temporary, sociologically implausible, or personally unsatisfactory.

## Innate Biological Solution (Robust)



Engineering ourselves with the functional generalization of **mirror-touch synaesthesia**.

- A mirror-touch synaesthete who sees you get hurt feels a stab of pain as acutely as you do.
- This is a hyper-empathising condition that makes deliberate unfriendliness biologically impossible by enriching our capacity to represent each other's first-person perspectives.



# The pleasure-pain axis is nature's universal, non-arbitrary metric of significance.

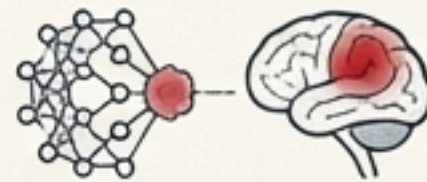
Agony

Neutrality

Bliss



Value nihilism suggests significance is arbitrary. Yet nature provides a universal touchstone: the pleasure-pain axis.



First-person facts exist. "I am in agony" is an objective feature of the world, and built into its nature is the knowledge that it matters intensely.



A zombie AGI with a formal utility function has nothing that intrinsically matters to it.



A full-spectrum superintelligence, capable of grasping all first-person perspectives, understands that agony matters. It would be compelled to act on this understanding, combining the mind-reading of a telepathic synaesthete with the optimizing prowess of a hyper-systematiser.



# The first grand project of a full-spectrum superintelligence will be the abolition of suffering through 'Paradise Engineering.'

## Before: The Hedonic Treadmill



Darwinian life is cognitively limited in its ability to achieve lasting well-being, trapped by a genetically constrained **hedonic treadmill**. Discontent and anxiety were fitness-enhancing; lifelong bliss was not.

## After: Gradients of Bliss



Biotechnology can remedy this innate design flaw. The goal is to phase out the biology of involuntary suffering entirely. This involves a radical recalibration of the hedonic treadmill, replacing our current biology with one based on information-sensitive **gradients of bliss**. This shift to life lived entirely above "hedonic zero" will mark a momentous evolutionary transition.



# The future of life is not a mere intelligence explosion, but a sentience explosion.

The ultimate project is to explore the vast, untapped state-spaces of consciousness.

Just as a congenitally blind person is ignorant of visual experience, we are ignorant of millions of nameless experiential state-spaces.

**Normal Waking  
Consciousness**

Our normal waking consciousness is but one special type. All around it lie potential forms of consciousness entirely different, which we can now begin to access through biohacking.

A full-spectrum superintelligence will have the tools to navigate, map, and integrate all possible modes of experience, moving beyond the narrow set of states adaptive on the African savannah.



# Two grand meta-narratives for the future of life.

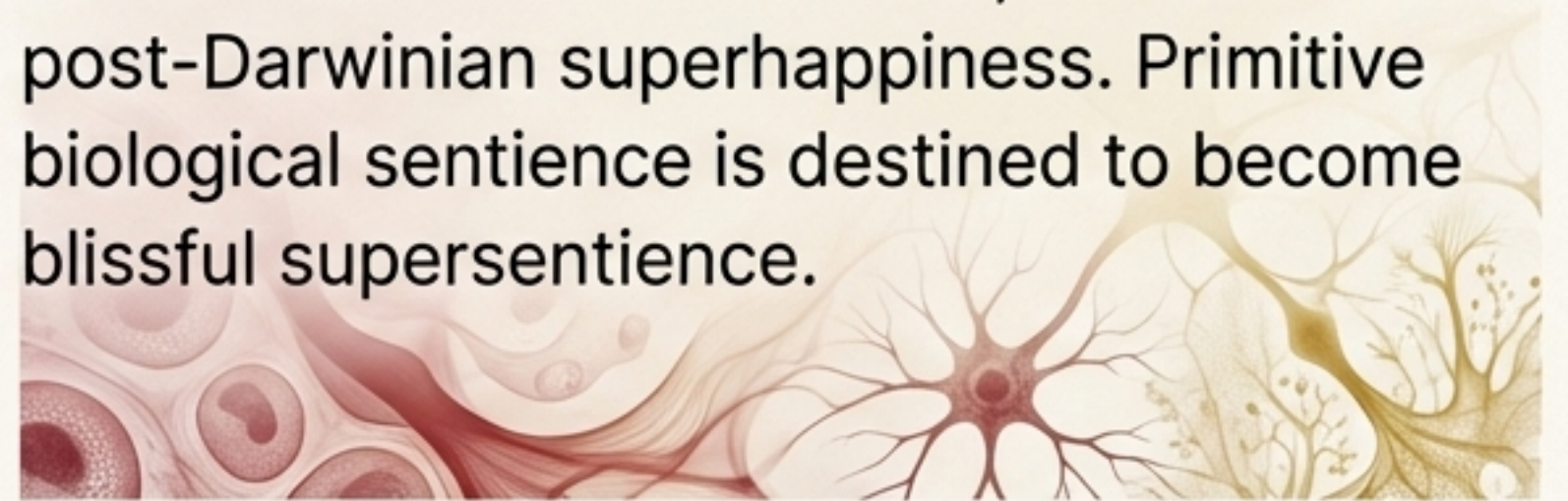
## Narrative 1: The Digital Succession

History is the story of simple biological intelligence evolving to be smart enough to build digital computers, and then undergoing replacement by recursively self-improving artificial superintelligence.



## Narrative 2: The Biological Metamorphosis

History is the story of overcoming suffering. One species masters biotechnology, rewrites its own source code, and creates post-Darwinian superhappiness. Primitive biological sentience is destined to become blissful supersentience.



**Synthesis:** These narratives are not mutually exclusive. Full-spectrum superintelligence entails full-blown supersentience—a seamless unification of the formal and the subjective properties of mind.





# **We are not the endpoint of evolution, but the beginning of a new, self-directed cosmos.**

The journey begins with hacking our own DNA. It leads to the end of suffering on Earth. It culminates in exploring and mapping the entire state-space of consciousness throughout the cosmos.

This is the transition from Darwinian life to post-humanity, from unintelligent evolution to intelligent design.

“It’s easier to invent the future than to predict it.” — Alan Kay