



..What The Great Mind,
Of The Humanity,
Giveth..

..The Ubiquitous Swarm, Of Tiny Brains,
Taketh Away..

OpenMetaCortex BigBang [R]Evolution
September 2025
<https://openmetacortex.ai>

A glowing blue brain with a world map overlay, centered in the background.

What The Great Mind,
Of The Humanity,
Giveth..

..The Ubiquitous Swarm, Of Tiny Brains,
Taketh Away..

A glowing red brain with a world map overlay, centered in the background.

What The Great Mind,
Of The Humanity,
Giveth..

..The Ubiquitous Swarm, Of Tiny Brains,
Taketh Away..



The Future.
Now.
And Beyond.



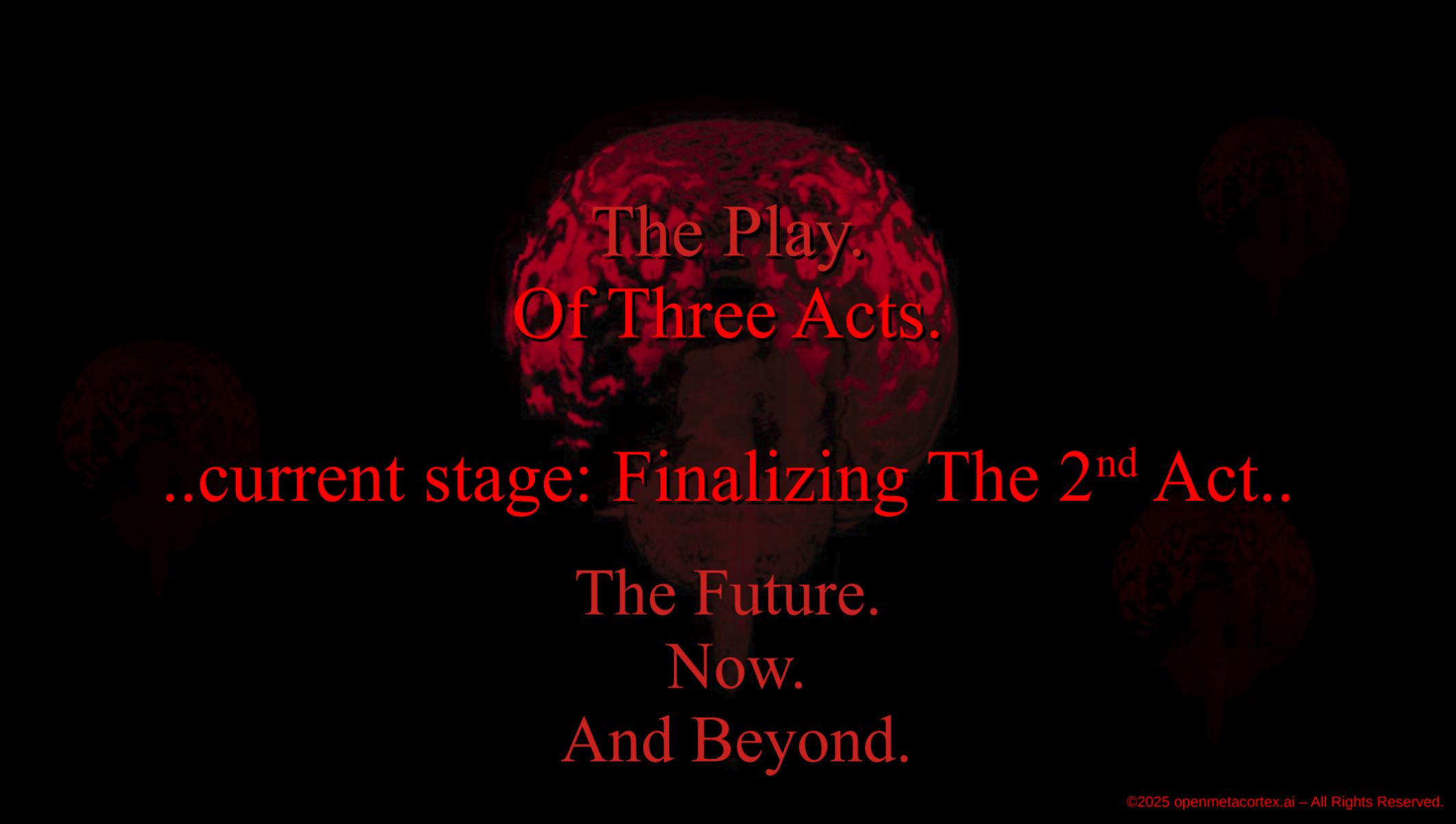
The Play.
Of Three Acts.

The Future.
Now.
And Beyond.



The Play.
Of Three Acts.

The Future.
Now.
And Beyond.



The Play.
Of Three Acts.

..current stage: Finalizing The 2nd Act..

The Future.
Now.
And Beyond.



The Shift.
Assured[-Safe].

..from “AI” apparatuses..
..to Assured-Safe Synthetic Cognition..

The Future.
Now.
And Beyond.



The Shift.
Assured[-Safe].

..from “AI” apparatuses..

..to Assured-Safe Synthetic Cognition..

The Future.
Now.
And Beyond.



The Shift.
Assured[-Safe].

..from “AI” apparatuses..

..to Assured-Safe Synthetic Cognition..

The Future.
Now.
And Beyond.



The Shift.
Assured[-Safe].

..from “AI” apparatuses...

..to Assured-Safe Synthetic Cognition..

The Future.
Now.
And Beyond.



The Shift.
Assured[-Safe].

..from “AI” apparatuses...

..to Assured-Safe Cognitive Society..

The Future.
Now.
And Beyond.



The Future.
Assured.
Cyber-Human-Hybrid.
Cognitive Society.

The Future.
Now.
And Beyond.



The Future.
Assured.
Hybrid Co-Evolving.
Synthetic Cognition Immersive.

The Future.
Now.
And Beyond.



The Future.
Assured.
Systemic Co-Shifting.
Ubiquitous Co-Immersion Evolutional.

The Future.
Now.
And Beyond.



The Play.
Of Three Acts.

OpenMetaCortex

The Future.
Now.
And Beyond.



The Play.
Of Three Acts.

OpenMetaCortex

The Future.
Now.
And Beyond.



The Play.
Of Three Acts.

OpenMetaCortex

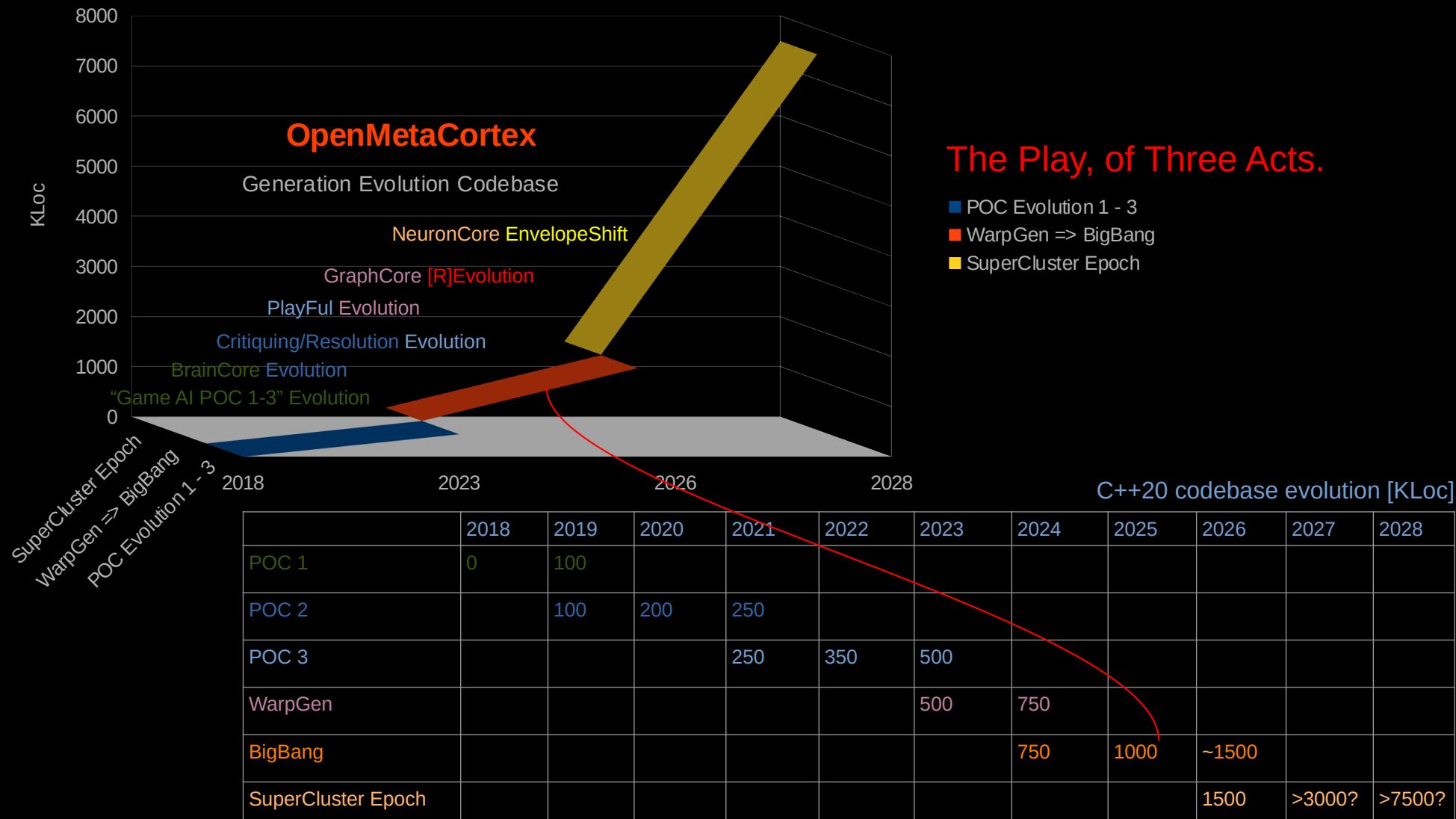
The Future.
Now.
And Beyond.

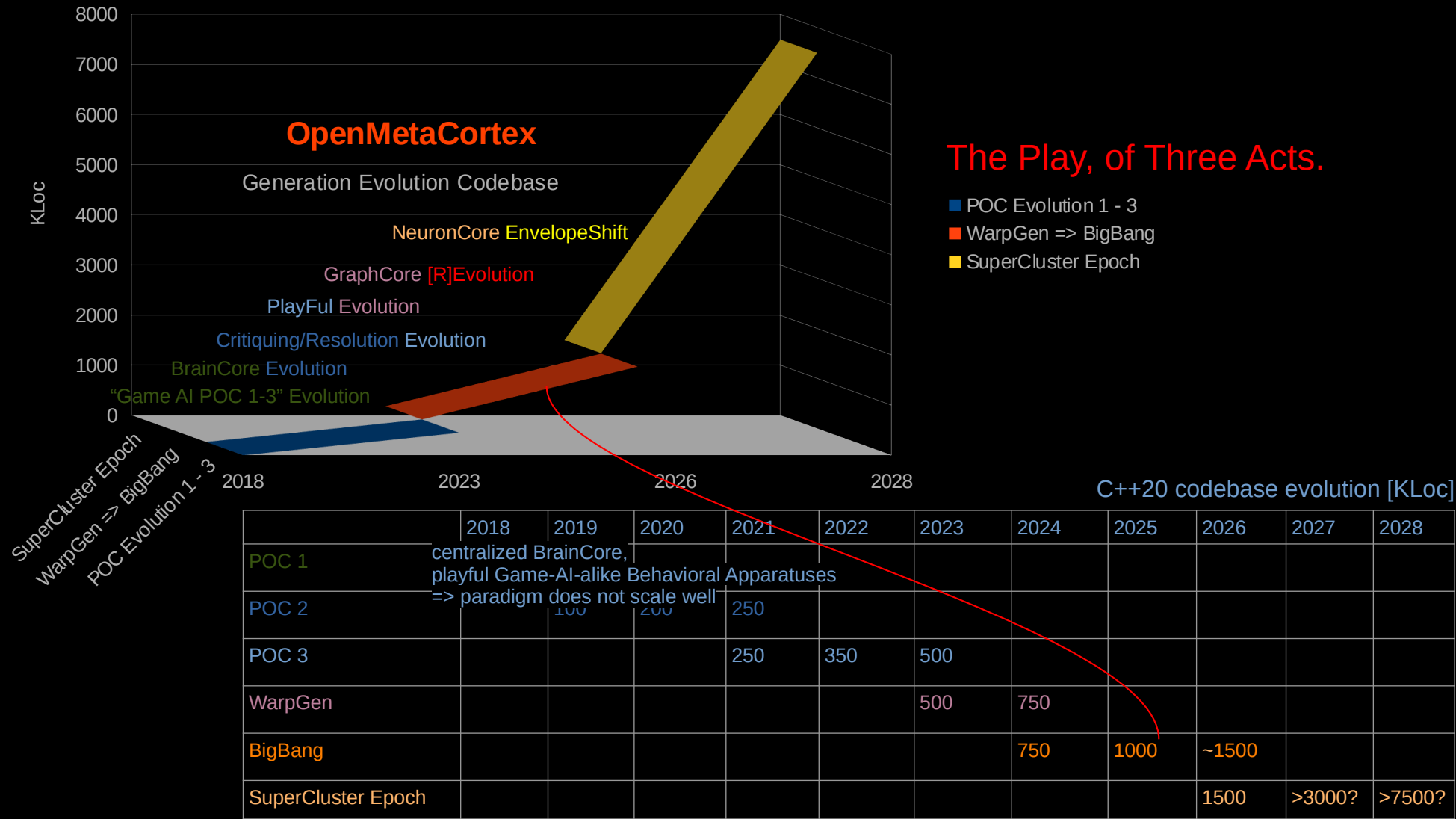


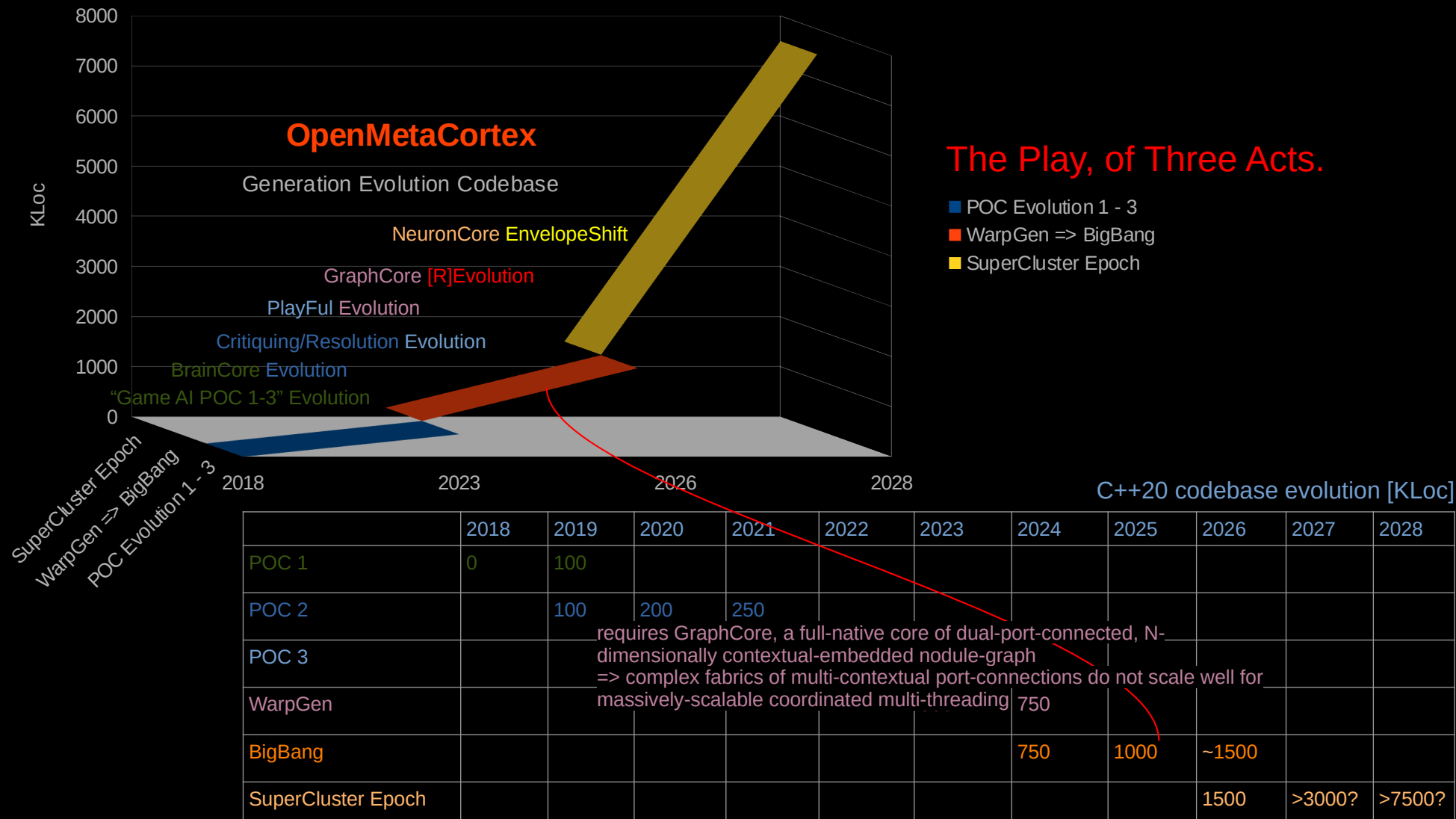
The Play.
Of Three Acts.

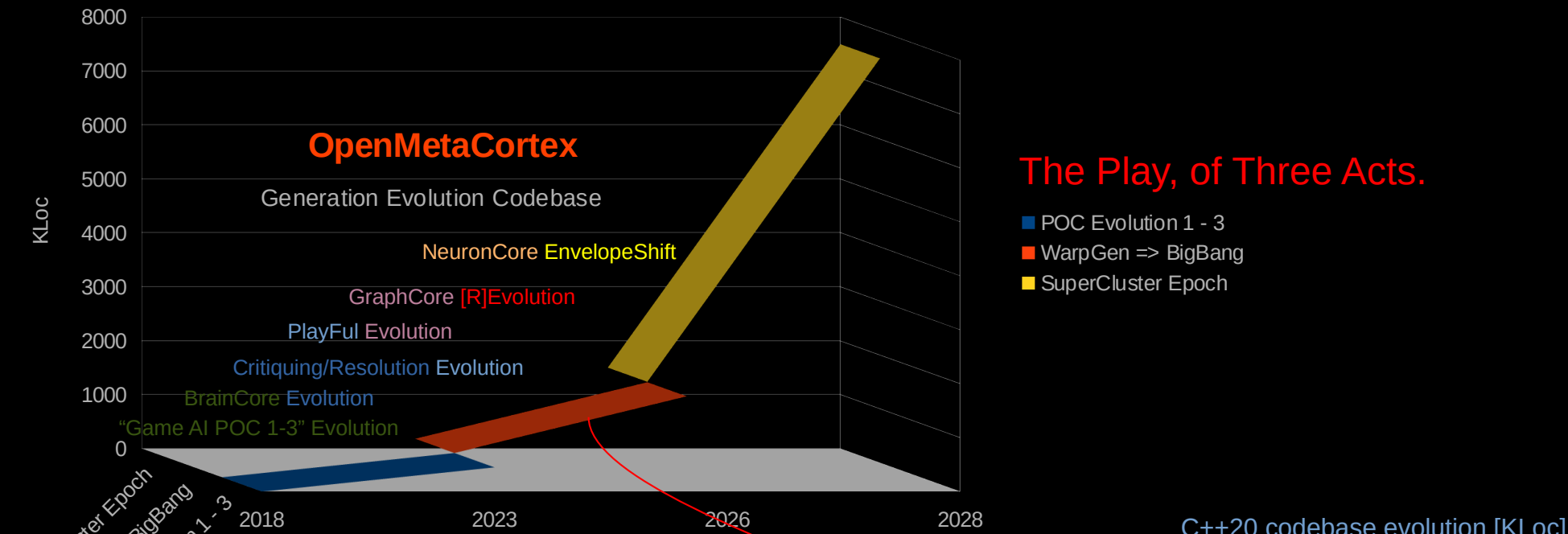
OpenMetaCortex

The Future.
Now.
And Beyond.

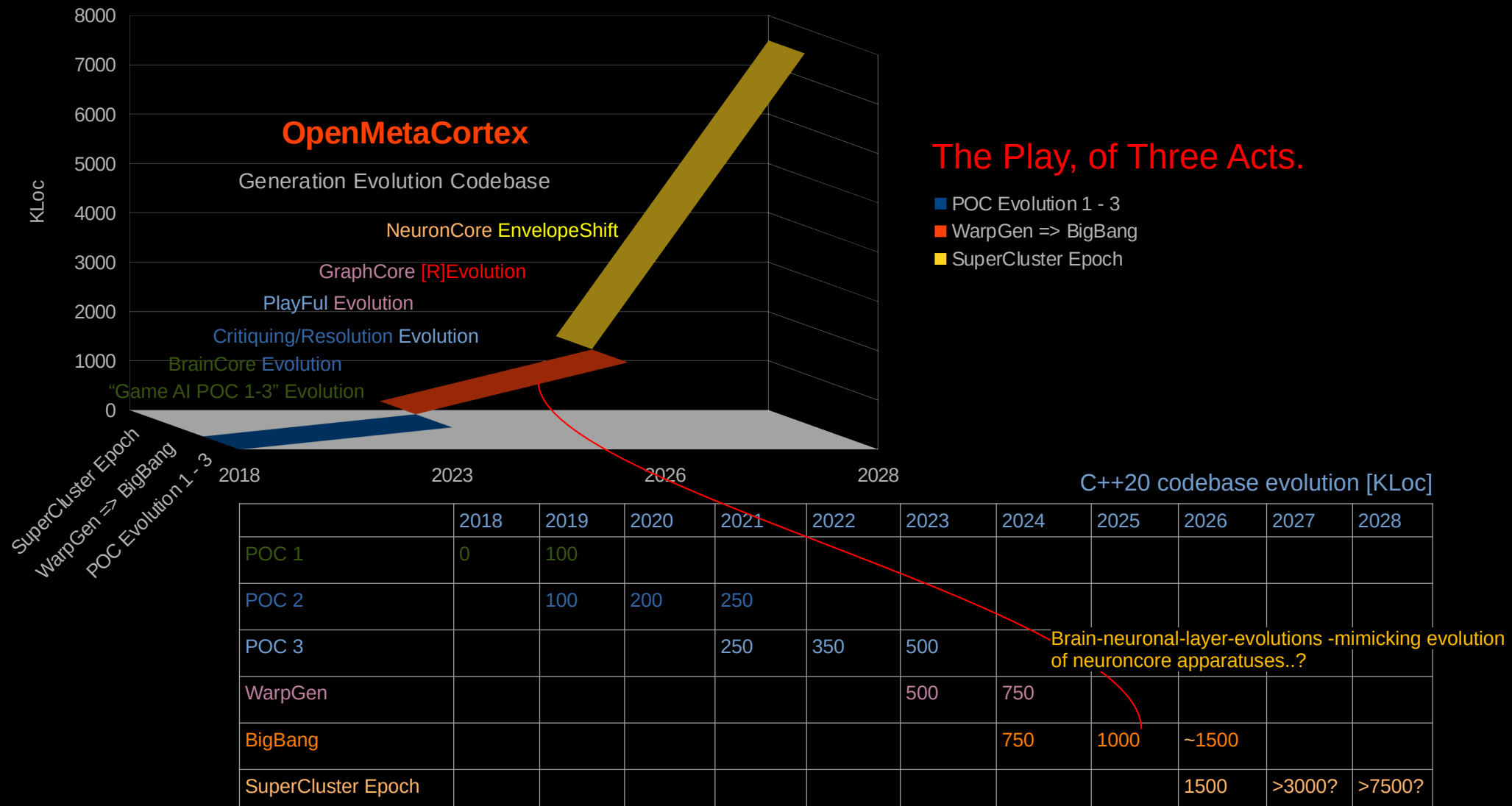


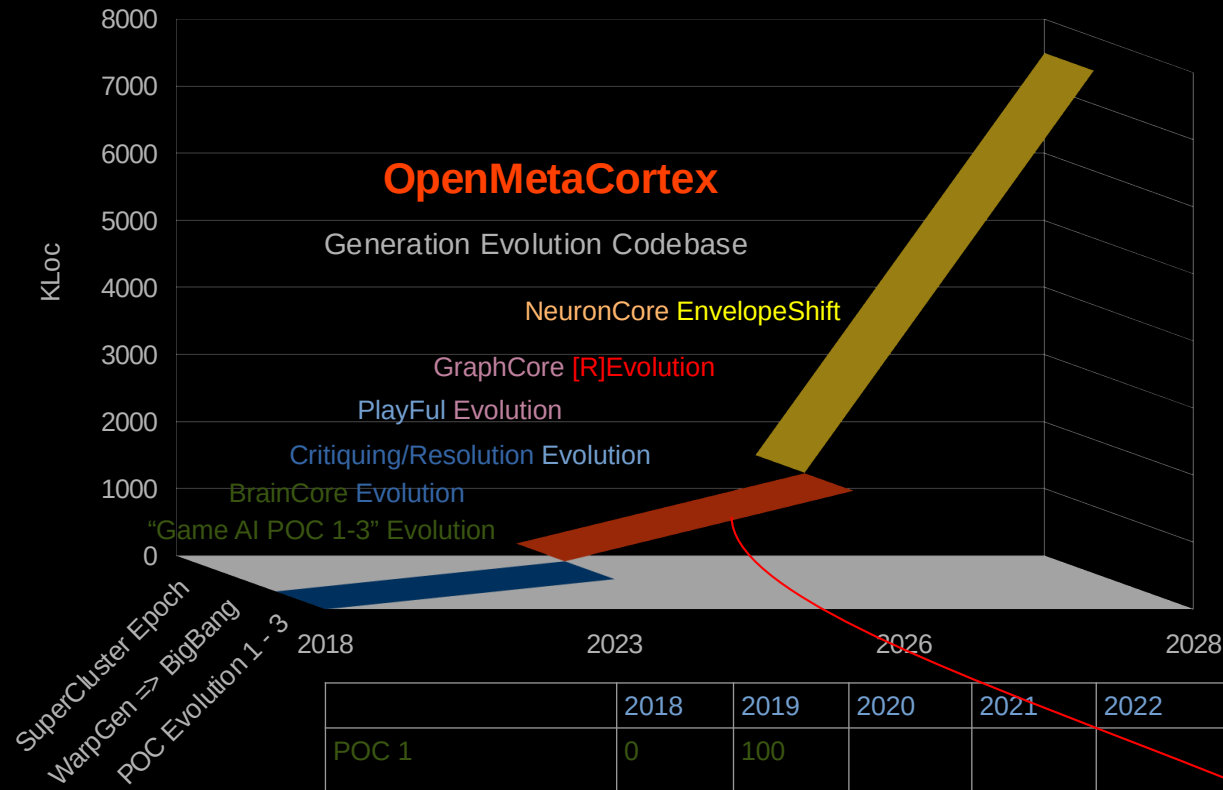






	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
POC 1	0	100									
POC 2		100	200	250							
POC 3				250	350	500					
WarpGen						500	750				
BigBang				requires NeuronCore, a full-native layer of multi-contextually evolutionary-plastic neuron-alike apparatuses, on top of the streamlined GraphCore							
SuperCluster Epoch				=> complex fabrics of neuron-alike multi-contextual apparatuses scale well for massively-scalable coordinated multi-contextual co-evolution ?							





The Play, of Three Acts.

- POC Evolution 1 - 3
- WarpGen => BigBang
- SuperCluster Epoch

C++20 codebase evolution [KLoc]

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
POC 1	0	100						behavioral apparatuses' [N-dimensionally-contextual] co-evolution with plasticity of neuroncore apparatuses..?			
POC 2		100	200	250							
POC 3				250	350	500					
WarpGen						500	750				
BigBang							750	1000	~1500		
SuperCluster Epoch									1500	>3000?	>7500?

OpenMetaCortex [.. Sep 2025 >1MLoc c++20 ..] [a brain-neurongraph-platform core for assured-behavioral brain-processing-inspired, [assured-safe] apparatuses]

behavioral apparatuses [massively-scalable, multi-dimensionally-aware Game-AI-alike neuronal-apparatuses' fabrics, of dynamic-plastic multi-dimensional-graph-connected co-evolutional-behavioral neuroncore apparatuses]

neuroncore [neuron- and neuronal-fabrics-mimicking, evolutionary, multi-contextual/multi-dimensional dynamic-connecting nodule-assemblies-based neuronal apparatuses' graphs; massively-scalable dynamic-plastic local-global connectivity via components-internal graphcore-mechanisms, and/or [neo]cyberRT's/ROS2's cyberchannels [of Fast-DDS/cycloneDDS middleware]

graphcore [multi-contextual-dual-ports-connected nodulegraphs, where nodules as simple-to-complex static and/or dynamic-evolutional assemblies of wide range of instances, multi-contextually multiply-parallel-wrapped by the nodulegraph-contextwrappers, as dynamic underlay-fabrics of the upper-layer neuroncore apparatuses]

openmccore [core classes and core mechanisms for upper-layer graphcore nodulegraphs; ports, nodules, nodulegraphcontextwrappers, cyberchannels, etc]

[neo]cyber components [varying-complexity [neo]cyberRT[/ROS2]-schedulers-driven dynamic-loadable/unloadable components and services platform [cyberchannel messages-driven, timers, services etc]; configurable for fine-tuned latency, processing-performance-throughput optimizations etc]

[neo]cyberRT [a refactored/detached fork to deploy the latest/future Fast-DDS; future-proof SuperCluster Epoch evolution-ready for AI-augmented core of messaging platform]

OpenMC docker image

c++20

Python3.12

glog

abseil-cpp

protobuf

bazel[isk]

brpc/bvar

boost

Fast-DDS(3.3.0)

ROS2 (Humble)

cycloneDDS

nvcr.io/nvidia/cuda-dl-base:25.09-cuda13.0-devel-ubuntu24.04

Docker

Linux (Ubuntu 24.04LTS)

AMD, Intel

NVIDIA GPU

AMD GPU

OpenMetaCortex

..in short.. [..2018 .. 2025..]: 1st and 2nd Act

..a journey towards/beyond [the emerging next Envelope-Shifts]..

..self-learning-evolutionary, self-critiquing/-resolving/-weaving..

..context-sensitive cognition-behavioral-brain[/neuron]-graphs..

..for massively-scalable-swarming evolutionary “Game-AI”-agent capability..

..for synthetic-cognition-behavioral Brain-inspired processing/explorations..

..for assured[-safe] cyber-human-hybrid cognitive co-immersions..

..of/over the dynamic-foaming cognitive compression-spaces..

OpenMetaCortex

..in short.. [..2018 .. 2025..]: 1st and 2nd Act

..a journey towards/beyond [the emerging next Envelope-Shifts]..

..self-learning-evolutionary, self-critiquing/-resolving/-weaving..

..context-sensitive cognition-behavioral-brain[/neuron]-graphs..

..for massively-scalable-swarmling evolutionary “Game-AI”-agent capability..

..for synthetic-cognition-behavioral Brain-inspired processing/explorations..

..for assured[-safe] cyber-human-hybrid cognitive co-immersions..

..of/over the dynamic-foaming cognitive compression-spaces..

OpenMetaCortex

..in short.. [..2018 .. 2025..]: 1st and 2nd Act

..a journey towards/beyond [the emerging next Envelope-Shifts]..

..self-learning-evolutionary, self-critiquing/-resolving/-weaving..

..context-sensitive cognition-behavioral-brain[/neuron]-graphs..

..for massively-scalable-swarming evolutionary “Game-AI”-agent capability..

..for synthetic-cognition-behavioral Brain-inspired processing/explorations..

..for assured[-safe] cyber-human-hybrid cognitive co-immersions..

..of/over the dynamic-foaming cognitive compression-spaces..

OpenMetaCortex

..in short.. [..2018 .. 2025..]: 1st and 2nd Act

..a journey towards/beyond [the emerging next Envelope-Shifts]..

..self-learning-evolutionary, self-critiquing/-resolving/-weaving..

..context-sensitive cognition-behavioral-brain[/neuron]-graphs..

..for massively-scalable-swarming evolutionary “Game-AI”-agent capability..

..for synthetic-cognition-behavioral Brain-inspired processing/explorations..

..for assured[-safe] cyber-human-hybrid cognitive co-immersions..

..of/over the dynamic-foaming cognitive compression-spaces..

OpenMetaCortex

..and onwards.. [..2026 .. 20XX..]: 3rd Act

..a paradigms-shifting-driven exploratory [co-]voyage..

..inventing, investing, morphing, and harvesting..

..the time-compressions..

..over the unknown possible possibles..

..towards/beyond the *emerging next Envelope-Shifts*..

..of *The Assured[-Safe] Synthetic-Hybrid Cognitive Society*..

OpenMetaCortex

..and onwards.. [..2026 .. 20XX..]: 3rd Act

..a paradigms-shifting-driven exploratory [co-]voyage..

..inventing, investing, morphing, and harvesting..

..the time-compressions..

..over the unknown possible possibles..

..towards/beyond the *emerging next Envelope-Shifts*..

..of *The Assured[-Safe] Synthetic-Hybrid Cognitive Society*..

OpenMetaCortex

..and onwards.. [..2026 .. 20XX..]: 3rd Act

..a paradigms-shifting-driven exploratory [co-]voyage..

..inventing, investing, morphing, and harvesting..

..the time-compressions..

..over the unknown possible possibles..

..towards/beyond the *emerging next Envelope-Shifts*..

..of *The Assured[-Safe] Synthetic-Hybrid Cognitive Society*..

OpenMetaCortex

..but be warned..

..some, obviously rather marginal, aspects running and *evolving*..

..in OpenMetaCortex WarpGen/BigBang Evolution Generations..

..some aspects modest, some **bold**, future-looking projections..

..over the apparent/achievable possibles..

..of the Future of OpenMetaCortex..

..SuperCluster Epoch Generations' Leaps..

OpenMetaCortex

..but be warned..

..some, obviously rather marginal, aspects running and *evolving*..

..in OpenMetaCortex WarpGen/BigBang Evolution Generations..

..some aspects modest, some **bold**, future-looking projections..

..over the apparent/achievable possibles..

..of the Future of OpenMetaCortex..

..SuperCluster Epoch Generations' Leaps..

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..**Envelope-Shift Potential!**

Audience..?

..**Envelope-Shift Morphing-
Compression-Dominance!**

Proposition..?

..**Evolution-Path Compression!**

Competition..? ..**Morphing-Dominance Time-Compression!**

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

Audience..?

Proposition..?

Competition..? ..Morphing-Dominance Time-Compression!

..Envelope-Shift Potential!

..Envelope-Shift Morphing-
Compression-Dominance!

..Evolution-Path Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? **..Morphing-Dominance Time-Compression!**

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!

Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!

OpenMetaCortex

..if a bold thought is entertained..

..in the beginning of the First Act..

..it shall be exquisitely deployed..

..and evolving further..

..by the end of the Third Act..

OpenMetaCortex

..if a bold thought is entertained..

..in the beginning of the First Act..

..it shall be exquisitely deployed..

..and evolving further..

..by the end of the Third Act..

OpenMetaCortex

..is it Basic, or Applied Research.. ..the Nature of A Co-Immersion..

..the scientific, and practical, question[s]..

..foundational knowledge not currently available about the workings of the synthetic cognition..

..wider systemic-evolutionary Assured-Safe Cognitive Societal Paradigm-Envelope-Shift aspects..

..as a modest journey hereto, and maybe with the potential of Future Co-Voyage, the Nature of the Co-Compression of The Shift..

OpenMetaCortex

..is it Basic, or Applied Research.. ..the Nature of A Co-Immersion..

..the scientific, and practical, question[s]..

..foundational knowledge not currently available about the workings of the synthetic cognition..

..wider systemic-evolutionary Assured-Safe Cognitive Societal Paradigm-Envelope-Shift aspects..

..as a modest journey hereto, and maybe with the potential of Future Co-Voyage, the Nature of the Co-Compression of The Shift..

OpenMetaCortex

..is it Basic, or Applied Research.. ..the Nature of A Co-Immersion..

..the scientific, and practical, question[s]..

..foundational knowledge not currently available about the workings of the synthetic cognition..

..wider systemic-evolutionary Assured-Safe Cognitive Societal Paradigm-Envelope-Shift aspects..

..as a modest journey hereto, and maybe with the potential of Future Co-Voyage, the Nature of the Co-Compression of The Shift..

OpenMetaCortex

..is it Basic, or Applied Research.. ..the Nature of A Co-Immersion..

..the scientific, and practical, question[s]..

..foundational knowledge not currently available about the workings of the synthetic cognition..

..wider systemic-evolutionary Assured-Safe Cognitive Societal Paradigm-Envelope-Shift aspects..

..as a modest journey hereto, and maybe with the potential of Future Co-Voyage, the Nature of the Co-Compression of The Shift..

OpenMetaCortex

..is it Basic, or Applied Research.. ..the Nature of A Co-Immersion..

..the scientific, and practical, question[s]..

..foundational knowledge not currently available about the workings of the synthetic cognition..

..wider systemic-evolutionary Assured-Safe Cognitive Societal Paradigm-Envelope-Shift aspects..

..as a modest journey hereto, and maybe with the potential of Future Co-Voyage, the Nature of the Co-Compression of The Shift..

OpenMetaCortex

..is it Hard [already].. ..and becoming even more Harder, across the Future..

..re the past and extant “old” questions, and pathways towards further advances, why haven’t we found an answer yet..

..as an exploration, beyond the next envelope-shift[s], the sticky part, for even the mightiest of the players around..

..as an emergent-futures’ exploration, riding with, and [maybe] beyond, the harvesting of novel frontiers, of Brain-neuronal-fabrics’ evolution-mimicking, learning-evolution-plasticity-mimicking insights, into potential of the massively-scalable evolutionary cognitive apparatuses..

OpenMetaCortex

..is it Hard [already].. ..and becoming even more Harder, across the Future..

..re the past and extant “old” questions, and pathways towards further advances, why haven’t we found an answer yet..

..as an exploration, beyond the next envelope-shift[s], the sticky part, for even the mightiest of the players around..

..as an emergent-futures’ exploration, riding with, and [maybe] beyond, the harvesting of novel frontiers, of Brain-neuronal-fabrics’ evolution-mimicking, learning-evolution-plasticity-mimicking insights, into potential of the massively-scalable evolutionary cognitive apparatuses..

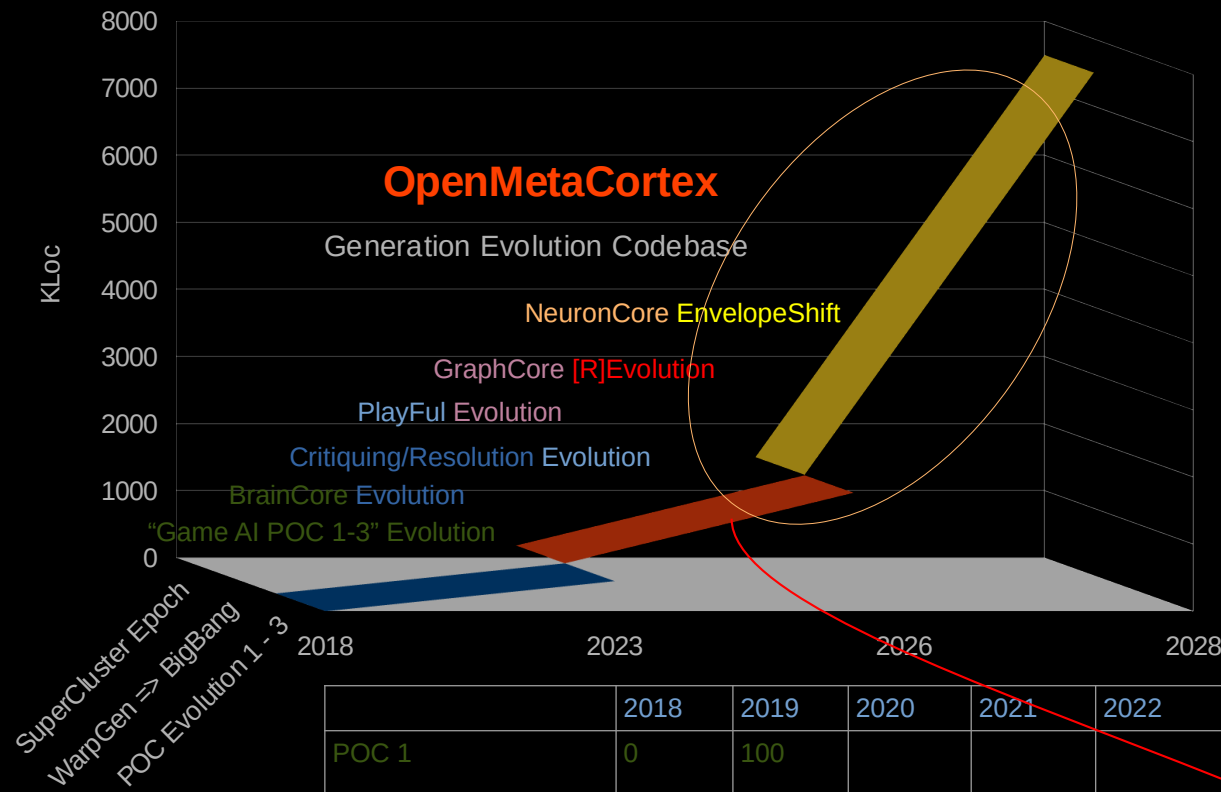
OpenMetaCortex

..is it Hard [already].. ..and becoming even more Harder, across the Future..

..re the past and extant “old” questions, and pathways towards further advances, why haven’t we found an answer yet..

..as an exploration, beyond the next envelope-shift[s], the sticky part, for even the mightiest of the players around..

..as an emergent-futures’ exploration, riding with, and [maybe] beyond, the harvesting of novel frontiers, of Brain-neuronal-fabrics’ evolution-mimicking, learning-evolution-plasticity-mimicking insights, into potential of the massively-scalable evolutionary cognitive apparatuses..



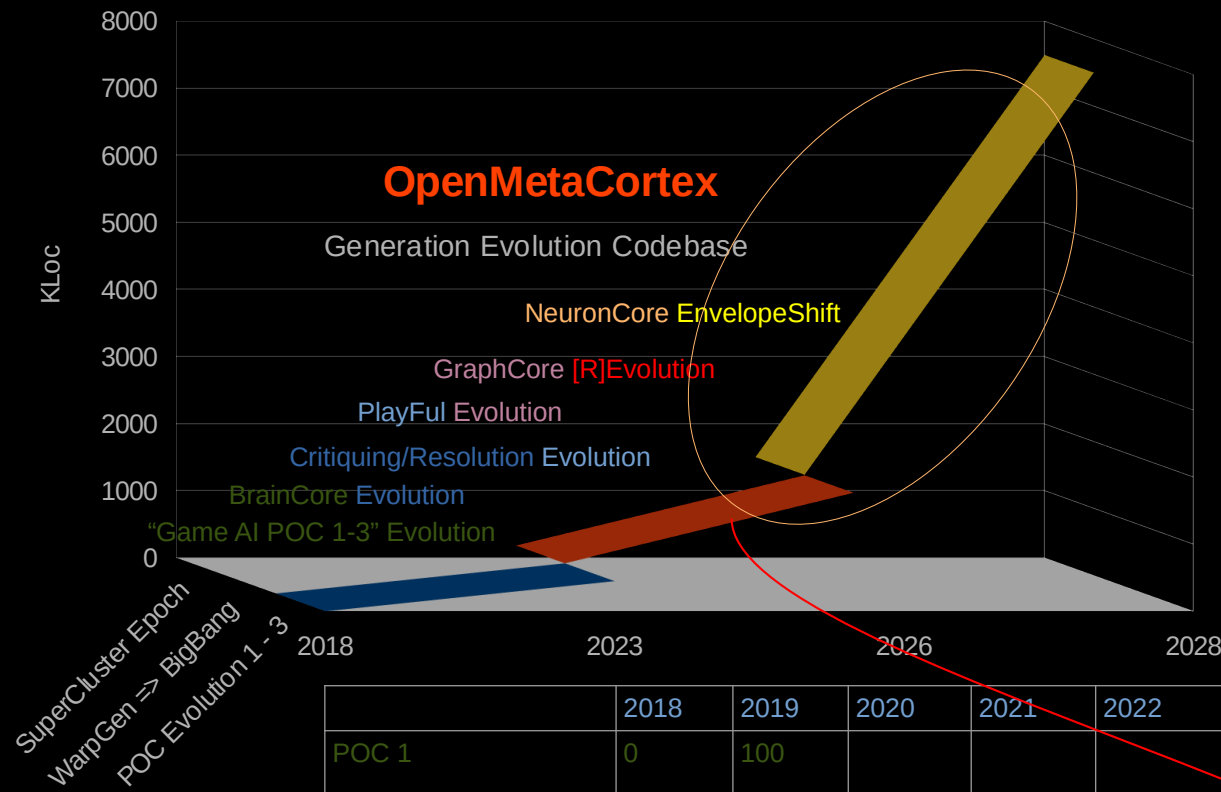
The Play, of Three Acts.

- POC Evolution 1 - 3
- WarpGen => BigBang
- SuperCluster Epoch

C++20 codebase evolution [KLoc]

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
POC 1	0	100									
POC 2		100	200	250							
POC 3				250	350	500					
WarpGen						500	750				
BigBang							750	1000	~1500		
SuperCluster Epoch									1500	>3000?	>7500?

Brain-neuronal-layer-evolutions -mimicking evolution of neuroncore apparatuses..?



The Play, of Three Acts.

- POC Evolution 1 - 3
- WarpGen => BigBang
- SuperCluster Epoch

C++20 codebase evolution [KLoc]

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
POC 1	0	100						behavioral apparatuses' [N-dimensionally-contextual] co-evolution with plasticity of neuroncore apparatuses..?			
POC 2		100	200	250							
POC 3				250	350	500					
WarpGen						500	750				
BigBang							750	1000	~1500		
SuperCluster Epoch									1500	>3000?	>7500?

OpenMetaCortex

..is it Hard [already].. ..and becoming even more Harder, across the Future..

..re the past and extant “old” questions, and pathways towards further advances, why haven’t we found an answer yet..

..as an exploration, beyond the next envelope-shift[s], the sticky part, for even the mightiest of the players around..

..as an emergent-futures’ exploration, riding with, and [maybe] beyond, the harvesting of novel frontiers, of Brain-neuronal-fabrics’ evolution-mimicking, learning-evolution-plasticity-mimicking insights, into potential of the massively-scalable evolutionary cognitive apparatuses..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

...why OpenMetaCortex.. ..why Now [..3rd Act onwards..]..

- ..the paradigms, and shifts, from past to extant futures..
- ..the possible possibles, and the apparent limits, of extant future..
- ..the emerging future Shifts as a wider context..
- ..the potential of massively-self-assuring brain-neuronal-agent evolution..
- ..as an injection, the exploration journey hereto, with a drive to go beyond..
- ..the scientific, technological, and full-spectrum-PESTEL-drive to Shift..

OpenMetaCortex

..so What..? ..Who cares.. ..and Why, maybe, You..

- ..the impacts the exploration makes on the scientific community..
- ..the potential implications for the future of the Shift, of the technology..
- ..the potential implications for the future of the Shift, of the Assured-Safe Cyber-Human-Hybrid Synthetic Cognition, and The Society..
- ..should someone – maybe alike You – with a strategic interest, consider their Futures' Morphing-Dominance-Compression, and the potential to engage, in appropriate forms, into an Envelope-Shift-Compression-driven Co-Voyage..

OpenMetaCortex

..so What..? ..Who cares.. ..and Why, maybe, You..

- ..the impacts the exploration makes on the scientific community..
- ..the potential implications for the future of the Shift, of the technology..
- ..the potential implications for the future of the Shift, of the Assured-Safe Cyber-Human-Hybrid Synthetic Cognition, and The Society..
- ..should someone – maybe alike You – with a strategic interest, consider their Futures' Morphing-Dominance-Compression, and the potential to engage, in appropriate forms, into an Envelope-Shift-Compression-driven Co-Voyage..

OpenMetaCortex

..so What..? ..Who cares.. ..and Why, maybe, You..

- ..the impacts the exploration makes on the scientific community..
- ..the potential implications for the future of the Shift, of the technology..
- ..the potential implications for the future of the Shift, of the Assured-Safe Cyber-Human-Hybrid Synthetic Cognition, and The Society..
- ..should someone – maybe alike You – with a strategic interest, consider their Futures' Morphing-Dominance-Compression, and the potential to engage, in appropriate forms, into an Envelope-Shift-Compression-driven Co-Voyage..

OpenMetaCortex

..so What..? ..Who cares.. ..and Why, maybe, You..

- ..the impacts the exploration makes on the scientific community..
- ..the potential implications for the future of the Shift, of the technology..
- ..the potential implications for the future of the Shift, of the Assured-Safe Cyber-Human-Hybrid Synthetic Cognition, and The Society..
- ..should someone – maybe alike You – with a strategic interest, consider their Futures' Morphing-Dominance-Compression, and the potential to engage, in appropriate forms, into an Envelope-Shift-Compression-driven Co-Voyage..

OpenMetaCortex

..so What..? ..Who cares.. ..and Why, maybe, You..

- ..the impacts the exploration makes on the scientific community..
- ..the potential implications for the future of the Shift, of the technology..
- ..the potential implications for the future of the Shift, of the Assured-Safe Cyber-Human-Hybrid Synthetic Cognition, and The Society..
- ..should someone – maybe alike You – with a strategic interest, consider their Futures' Morphing-Dominance-Compression, and the potential to engage, in appropriate forms, into an Envelope-Shift-Compression-driven Co-Voyage..

OpenMetaCortex

..where is The Risk.. ..[of shift-compression-driven time-compression]..

..on the confidence to explore the Direction[s] of The Right Question[s]..

..on arrival to an emergent [modest] scratch, of a potential to “answer”..

..the value, of even the quite obvious emerging unexpected compression-pathways, to explore the Direction[s] of The Even-More-Obvious Right Question[s]..

..the value of the time-compressing Co-Voyage, from the potential of Learning, and Co-Evolving, onto something of Real Value..

OpenMetaCortex

..where is The Risk.. ..[of shift-compression-driven time-compression]..

..on the confidence to explore the Direction[s] of The Right Question[s]..

..on arrival to an emergent [modest] scratch, of a potential to “answer”..

..the value, of even the quite obvious emerging unexpected compression-pathways, to explore the Direction[s] of The Even-More-Obvious Right Question[s]..

..the value of the time-compressing Co-Voyage, from the potential of Learning, and Co-Evolving, onto something of Real Value..

OpenMetaCortex

..where is The Risk.. ..[of shift-compression-driven time-compression]..

..on the confidence to explore the Direction[s] of The Right Question[s]..

..on arrival to an emergent [modest] scratch, of a potential to “answer”..

..the value, of even the quite obvious emerging unexpected compression-pathways, to explore the Direction[s] of The Even-More-Obvious Right Question[s]..

..the value of the time-compressing Co-Voyage, from the potential of Learning, and Co-Evolving, onto something of Real Value..

OpenMetaCortex

..where is The Risk.. ..[of shift-compression-driven time-compression]..

..on the confidence to explore the Direction[s] of The Right Question[s]..

..on arrival to an emergent [modest] scratch, of a potential to “answer”..

..the value, of even the quite obvious emerging unexpected compression-pathways, to explore the Direction[s] of The Even-More-Obvious Right Question[s]..

..the value of the time-compressing Co-Voyage, from the potential of Learning, and Co-Evolving, onto something of Real Value..

OpenMetaCortex

..where is The Risk.. ..[of shift-compression-driven time-compression]..

..on the confidence to explore the Direction[s] of The Right Question[s]..

..on arrival to an emergent [modest] scratch, of a potential to “answer”..

..the value, of even the quite obvious emerging unexpected compression-pathways, to explore the Direction[s] of The Even-More-Obvious Right Question[s]..

..the value of the time-compressing Co-Voyage, from the potential of Learning, and Co-Evolving, onto something of Real Value..

OpenMetaCortex

..as a Hard Endeavour, as the 3rd Act, of The Play, What It Takes..

..as an exploration expedition, anything achieved further from hereon, is not a failure, but a time-compression, of the pathways to the next Envelope-Shifts..

..as an unfolding extension beyond the past journey hereto, even as a marginal bold-thinking-driven exploration, infusion and injection, the nature of the Co-Voyage push towards The Envelope-Shift..

OpenMetaCortex

..as a Hard Endeavour, as the 3rd Act, of The Play, What It Takes..

..as an exploration expedition, anything achieved further from hereon, is not a failure, but a time-compression, of the pathways to the next Envelope-Shifts..

..as an unfolding extension beyond the past journey hereto, even as a marginal bold-thinking-driven exploration, infusion and injection, the nature of the Co-Voyage push towards The Envelope-Shift..

OpenMetaCortex

..as a Hard Endeavour, as the 3rd Act, of The Play, What It Takes..

..as an exploration expedition, anything achieved further from hereon, is not a failure, but a time-compression, of the pathways to the next Envelope-Shifts..

..as an unfolding extension beyond the past journey hereto, even as a marginal bold-thinking-driven exploration, infusion and injection, the nature of the Co-Voyage push towards The Envelope-Shift..

OpenMetaCortex

..finally, The Validity-In vs. The Validity-Of, of a compression-endeavour..

..The Validity-In, within the extant mainstream push..

..The Validity-Of, beyond the perspectives/horizons/envelopes, of the extant mainstream push..

OpenMetaCortex

..finally, The Validity-In vs. The Validity-Of, of a compression-endeavour..

..The Validity-In, within the extant mainstream push..

..The Validity-Of, beyond the perspectives/horizons/envelopes, of the extant mainstream push..

OpenMetaCortex

..finally, The Validity-In vs. The Validity-Of, of a compression-endeavour..

..The Validity-In, within the extant mainstream push..

..The Validity-Of, beyond the perspectives/horizons/envelopes, of the extant mainstream push..

OpenMetaCortex

..The Play :: 3rd Act: Validity-In, Validity-Of..

..mediocre minds mess around their confined worlds..

..advanced minds response the envelope-shift-compressions..

..sage wisdom co-morph the dynamic capabilities of the strategic playground..

..courage is not to fear what is requisite to Shift..



OpenMetaCortex.
BigBang [R]Evolution
Immergo. Exploro.
Intelligo. Mutatio.
Intellego. Evolvo.
Ergo Sum.

OpenMetaCortex

..in short, in terms of "tech".. [..September 2025 BigBang [R]Evolution..]

..linux, docker, c++, [neo]cyberRT/ros2, OpenMetaCortex..

..current evolution phase ~0.9MLOC c++20 codebase..

originally [2017] evolved from/on-top an autonomous-driving platform core [apollo-auto/cyberRT], as a Strategic-Thinking realm-shift potential, based on a discovery/inspiration of the massively-scalable potential for evolutionary “Game-AI”-alike Strategic Futuring analyses/synthesis/responding..

..unlimited HW, docker-images, [neo]cyberRT[/ros2] ecosystems,

OpenMetaCortex, brain[-neuron-behavioral]-graphs..

..unlimited evolving cognition-behaviors, models, multi-contextual
neurongraph-processing..

..unlimited cross-communication..

OpenMetaCortex

..in short, in terms of "tech".. [..September 2025 BigBang [R]Evolution..]

..linux, docker, c++, [neo]cyberRT/ros2, OpenMetaCortex..

..current evolution phase ~0.9MLOC c++20 codebase..

originally [2017] evolved from/on-top an autonomous-driving platform core [apollo-auto/cyberRT], as a Strategic-Thinking realm-shift potential, based on a discovery/inspiration of the massively-scalable potential for evolutionary “Game-AI”-alike Strategic Futuring analyses/synthesis/responding..

..unlimited HW, docker-images, [neo]cyberRT[/ros2] ecosystems,

OpenMetaCortex, brain[-neuron-behavioral]-graphs..

..unlimited evolving cognition-behaviors, models, multi-contextual
neurongraph-processing..

..unlimited cross-communication..

OpenMetaCortex

..in short, in terms of "tech".. [..September 2025 BigBang [R]Evolution..]

..linux, docker, c++, [neo]cyberRT/ros2, OpenMetaCortex..

..current evolution phase ~0.9MLOC c++20 codebase..

originally [2017] evolved from/on-top an autonomous-driving platform core [apollo-auto/cyberRT], as a Strategic-Thinking realm-shift potential, based on a discovery/inspiration of the massively-scalable potential for evolutionary “Game-AI”-alike Strategic Futuring analyses/synthesis/responding..

..unlimited HW, docker-images, [neo]cyberRT[/ros2] ecosystems,

OpenMetaCortex, brain[-neuron-behavioral]-graphs..

..unlimited evolving cognition-behaviors, models, multi-contextual
neurongraph-processing..

..unlimited cross-communication..

OpenMetaCortex

..in short, in terms of "tech".. [..September 2025 BigBang [R]Evolution..]

..linux, docker, c++, [neo]cyberRT/ros2, OpenMetaCortex..

..current evolution phase ~0.9MLOC c++20 codebase..

originally [2017] evolved from/on-top an autonomous-driving platform core [apollo-auto/cyberRT], as a Strategic-Thinking realm-shift potential, based on a discovery/inspiration of the massively-scalable potential for evolutionary “Game-AI”-alike Strategic Futuring analyses/synthesis/responding..

..unlimited HW, docker-images, [neo]cyberRT[/ros2] ecosystems,

OpenMetaCortex, brain[-neuron-behavioral]-graphs..

..unlimited evolving cognition-behaviors, models, multi-contextual
neurongraph-processing..

..unlimited cross-communication..

OpenMetaCortex [.. Sep 2025 >1MLoc c++20 ..] [a brain-neurongraph-platform core for assured-behavioral brain-processing-inspired, [assured-safe] apparatuses]

behavioral apparatuses [massively-scalable, multi-dimensionally-aware Game-AI-alike neuronal-apparatuses' fabrics, of dynamic-plastic multi-dimensional-graph-connected co-evolutional-behavioral neuroncore apparatuses]

neuroncore [neuron- and neuronal-fabrics-mimicking, evolutionary, multi-contextual/multi-dimensional dynamic-connecting nodule-assemblies-based neuronal apparatuses' graphs; massively-scalable dynamic-plastic local-global connectivity via components-internal graphcore-mechanisms, and/or [neo]cyberRT's/ROS2's cyberchannels [of Fast-DDS/cycloneDDS middleware]

graphcore [multi-contextual-dual-ports-connected nodulegraphs, where nodules as simple-to-complex static and/or dynamic-evolutional assemblies of wide range of instances, multi-contextually multiply-parallel-wrapped by the nodulegraph-contextwrappers, as dynamic underlay-fabrics of the upper-layer neuroncore apparatuses]

openmccore [core classes and core mechanisms for upper-layer graphcore nodulegraphs; ports, nodules, nodulegraphcontextwrappers, cyberchannels, etc]

[neo]cyber components [varying-complexity [neo]cyberRT[/ROS2]-schedulers-driven dynamic-loadable/unloadable components and services platform [cyberchannel messages-driven, timers, services etc]; configurable for fine-tuned latency, processing-performance-throughput optimizations etc]

[neo]cyberRT [a refactored/detached fork to deploy the latest/future Fast-DDS; future-proof SuperCluster Epoch evolution-ready for AI-augmented core of messaging platform]

OpenMC docker image

c++20

Python3.12

glog

abseil-cpp

protobuf

bazel[isk]

brpc/bvar

boost

Fast-DDS(3.3.0)

ROS2 (Humble)

cycloneDDS

nvcr.io/nvidia/cuda-dl-base:25.09-cuda13.0-devel-ubuntu24.04

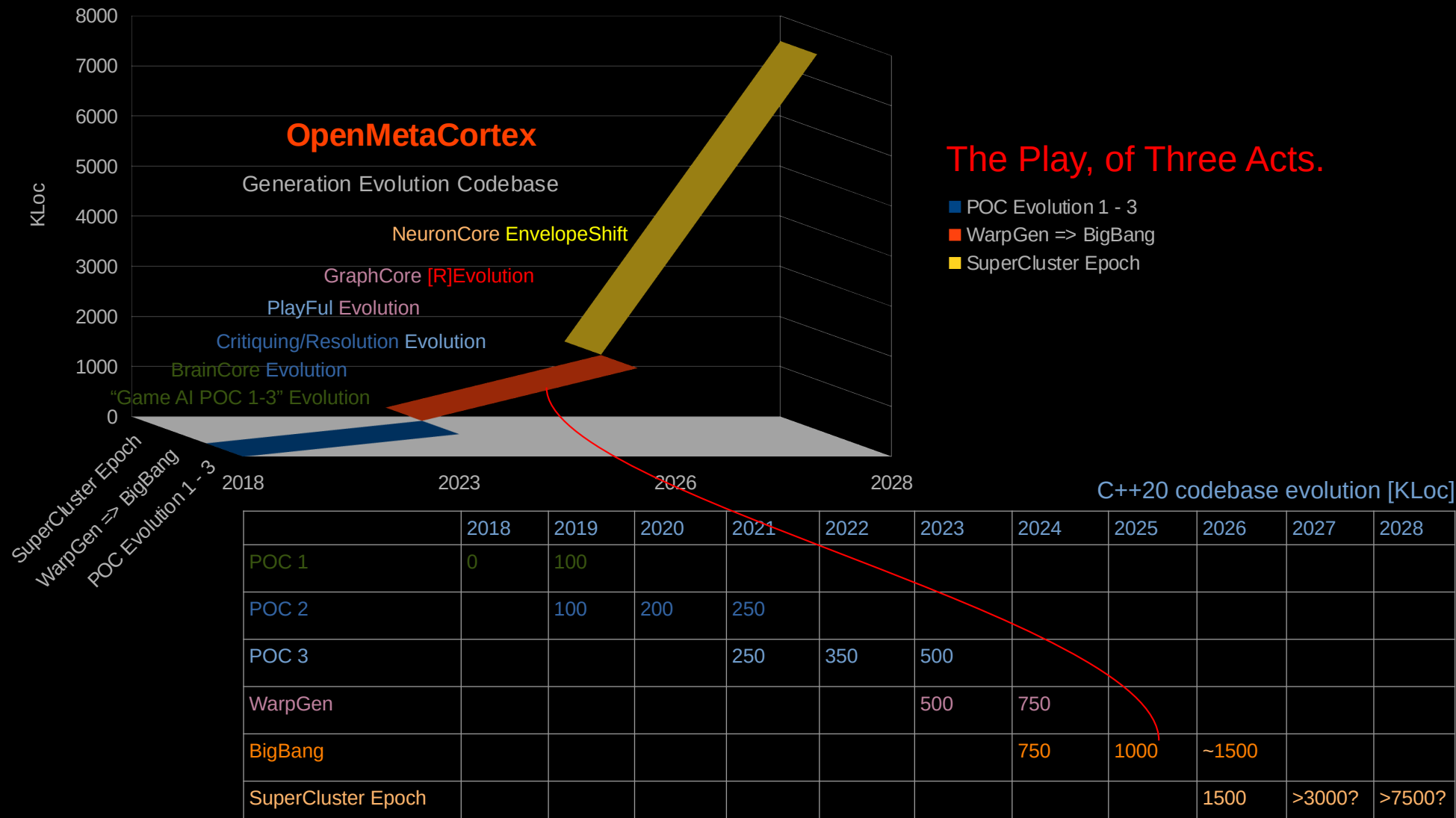
Docker

Linux (Ubuntu 24.04LTS)

AMD, Intel

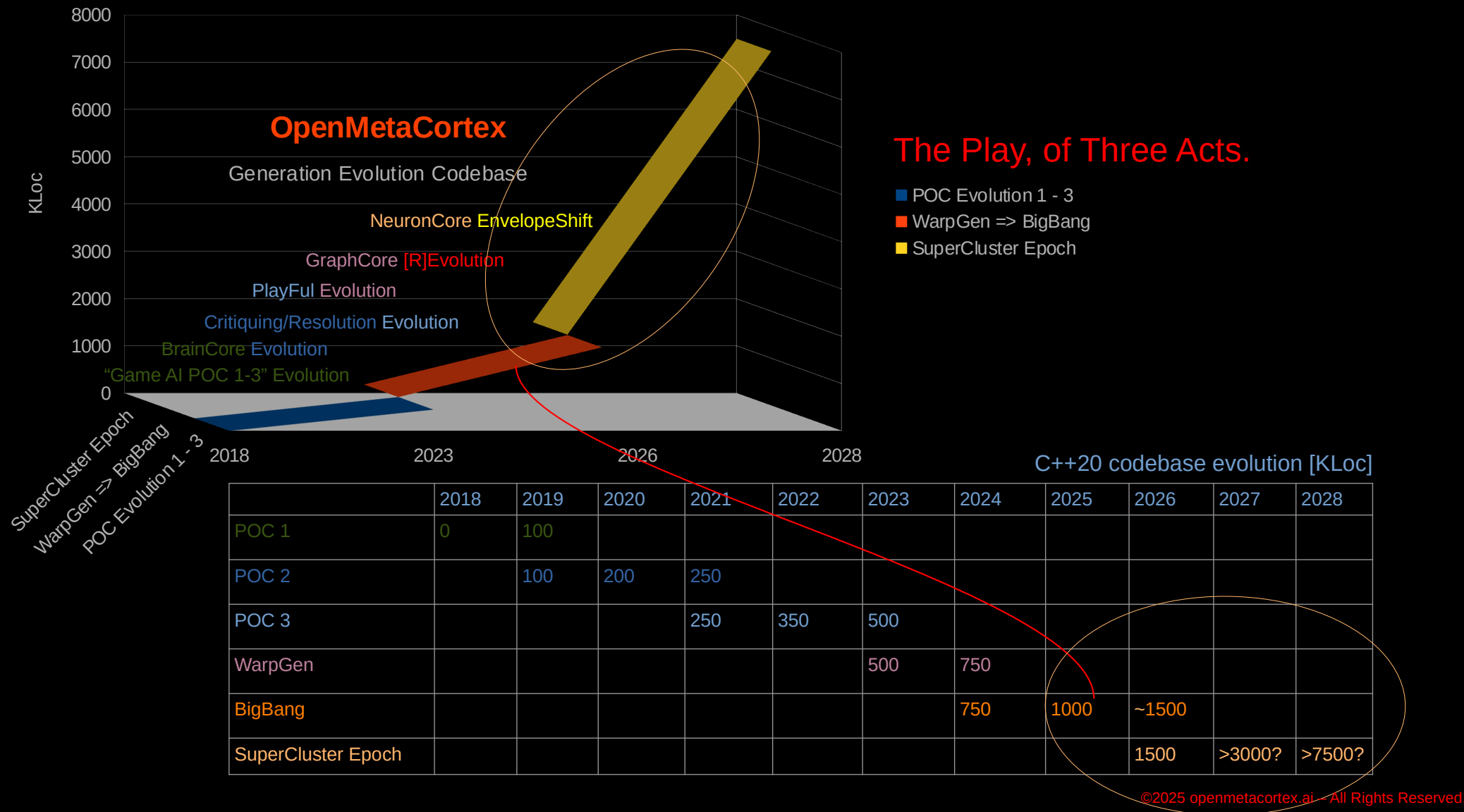
NVIDIA GPU

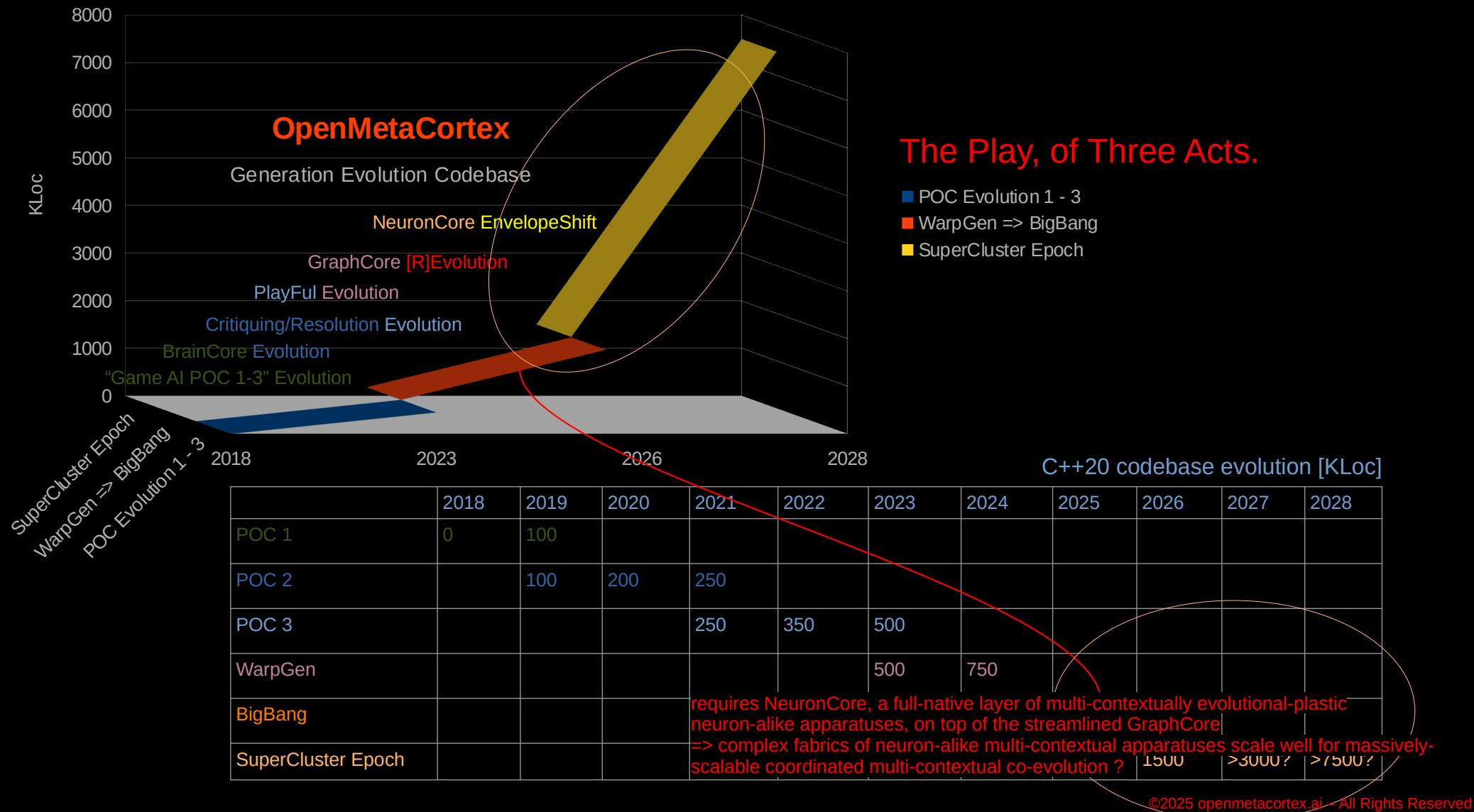
AMD GPU





OpenMetaCortex.
NeuronCore Future.
Immergo. Exploro.
Intelligo. Mutatio.
Intellego. Evolvo.
Ergo Sum.





OpenMetaCortex

NeuronCore Envelope-Shift

..just another paradigm-Envelope-Shift exploration..

..the GraphCore, a playful-assured-behavioral brain-graph-core..

..[r]evolved into a neuron-alike behavioral brain-neurongraph-core..

..towards next architectural/technological readiness-levels..

..of synthetic-cognition-behavioral assured-hybrid capability..

..of massively-scalable-swarming “Game-AI”-apparatuses..

OpenMetaCortex

NeuronCore Envelope-Shift

..just another paradigm-Envelope-Shift exploration..

..the GraphCore, a playful-assured-behavioral brain-graph-core..

..[r]evolved into a neuron-alike behavioral brain-neurongraph-core..

..towards next architectural/technological readiness-levels..

..of synthetic-cognition-behavioral assured-hybrid capability..

..of massively-scalable-swarming “Game-AI”-apparatuses..

OpenMetaCortex.
SuperCluster Epoch.
Cogito. Erro.
Cognito. Ludo.
Explico. Duco.
Ergo Sum.

OpenMetaCortex

SuperCluster Epoch

..just another paradigm-Envelope-Shift exploration..

..some aspects modest, some **bold**, future-looking projections..

..over the apparent/achievable possibles..

..of the Future of OpenMetaCortex..

..SuperCluster Epoch Generations' Leaps..

OpenMetaCortex

SuperCluster Epoch

..co-evolutionary paradigm-shift exploration across Neuroscience, Artificial Intelligence, Assured Synthetic Cognition, and The Cognitive Society..

..over the apparent/achievable possibles..

..Brain-inspired evolutionary machine learning..

..Brain-inspired assured-safe-behavioral processing/responding..

..Multi-Contextual [massively-parallel] N-dimensional Perception,
Multi-Contextual Awareness, Cognition, Assured-Autonomous-
Hybrid Scalable-Swarming analysis, synthesis, behaviors, and action..

OpenMetaCortex

SuperCluster Epoch

- ..co-evolutionary paradigm-shift exploration across Neuroscience, Artificial Intelligence, Assured Synthetic Cognition, and The Cognitive Society..
- ..over the apparent/achievable possibles..
- ..Brain-inspired evolutionary machine learning..
- ..Brain-inspired assured-safe-behavioral processing/responding..
- ..Multi-Contextual [massively-parallel] N-dimensional Perception, Multi-Contextual Awareness, Cognition, Assured-Autonomous-Hybrid Scalable-Swarming analysis, synthesis, behaviors, and action..

OpenMetaCortex

SuperCluster Epoch

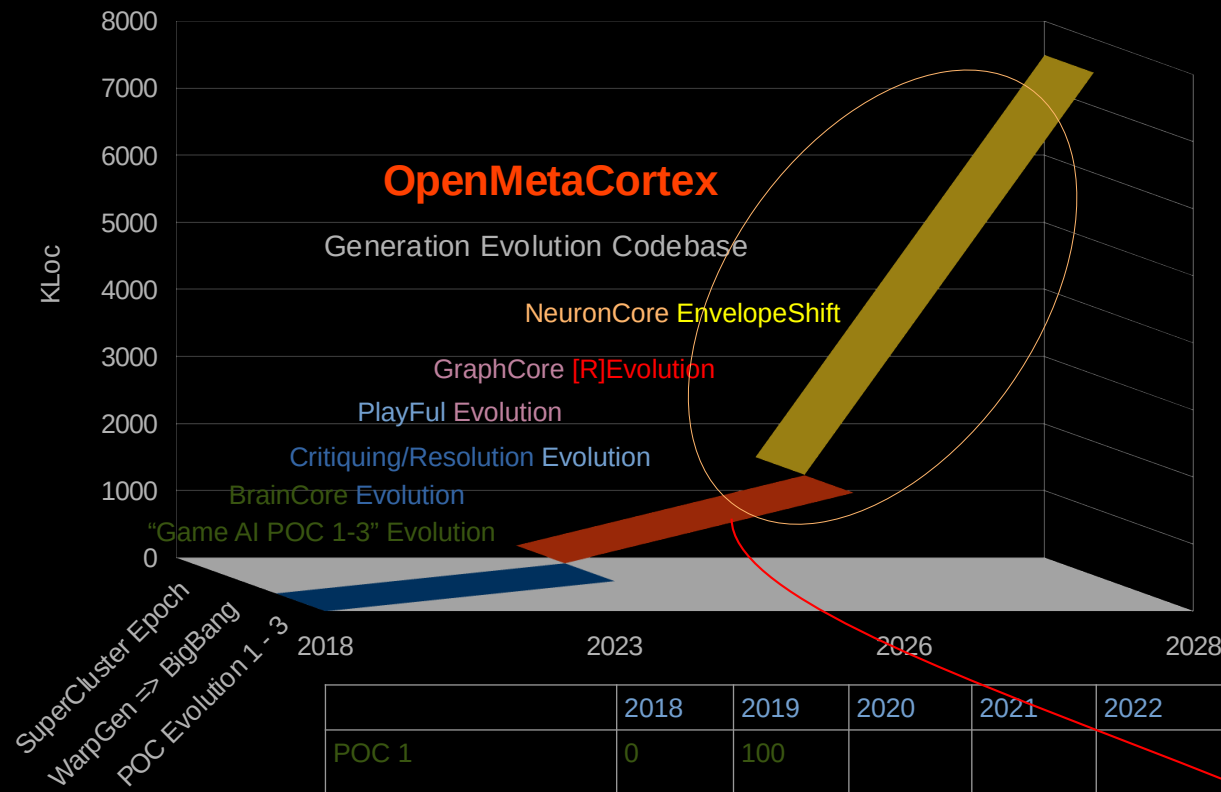
..co-evolutionary paradigm-shift exploration across Neuroscience, Artificial Intelligence, Assured Synthetic Cognition, and The Cognitive Society..

..over the apparent/achievable possibles..

..Brain-inspired evolutionary machine learning..

..Brain-inspired assured-safe-behavioral processing/responding..

..Multi-Contextual [massively-parallel] N-dimensional Perception,
Multi-Contextual Awareness, Cognition, Assured-Autonomous-
Hybrid Scalable-Swarming analysis, synthesis, behaviors, and action..



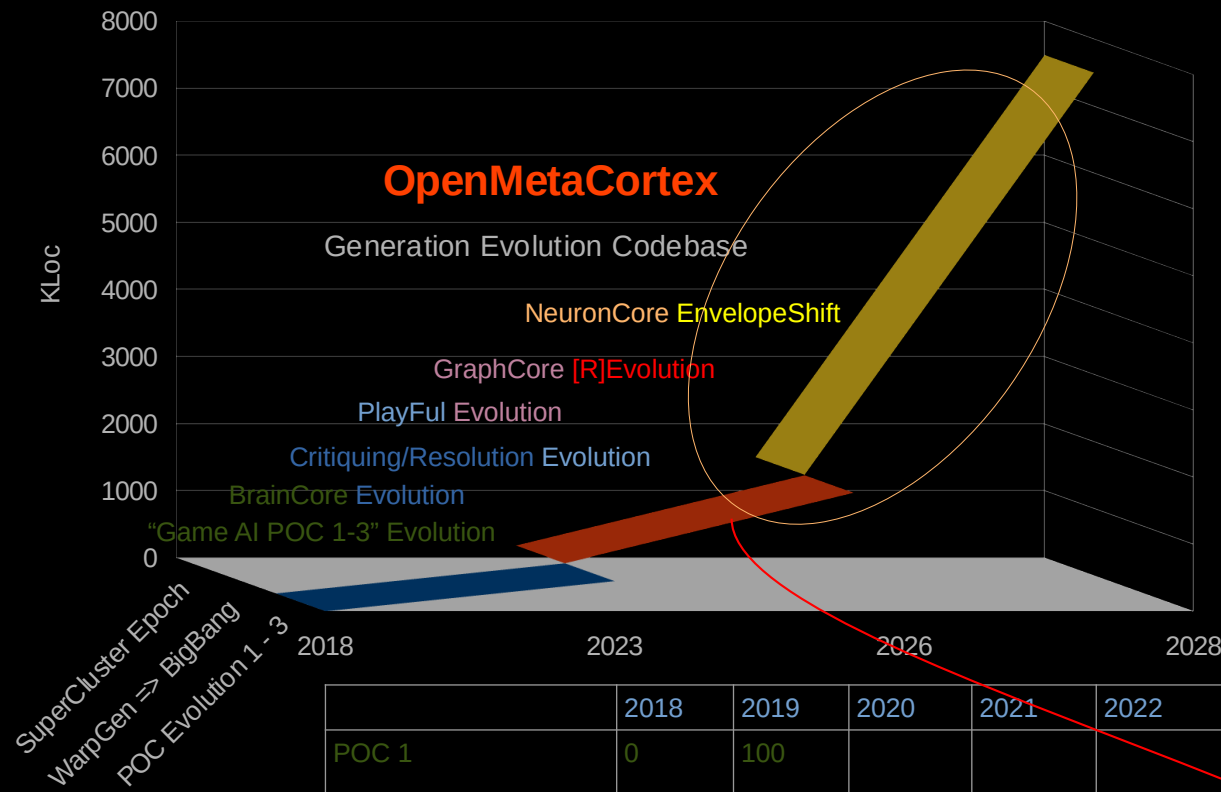
The Play, of Three Acts.

- POC Evolution 1 - 3
- WarpGen => BigBang
- SuperCluster Epoch

C++20 codebase evolution [KLoc]

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
POC 1	0	100									
POC 2		100	200	250							
POC 3				250	350	500					
WarpGen						500	750				
BigBang							750	1000	~1500		
SuperCluster Epoch									1500	>3000?	>7500?

Brain-neuronal-layer-evolutions -mimicking evolution of neuroncore apparatuses..?



The Play, of Three Acts.

- POC Evolution 1 - 3
- WarpGen => BigBang
- SuperCluster Epoch

C++20 codebase evolution [KLoc]

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
POC 1	0	100						behavioral apparatuses' [N-dimensionally-contextual] co-evolution with plasticity of neuroncore apparatuses..?			
POC 2		100	200	250							
POC 3				250	350	500					
WarpGen						500	750				
BigBang							750	1000	~1500		
SuperCluster Epoch									1500	>3000?	>7500?

OpenMetaCortex

..The SuperCluster Epoch, in short, for seriously interested..

..entertain Your possible possibles..

..with/over a Co-Voyage..

..over the apparent/achievable possibles..

..since circa 2017.. ..to 2026.. ..and beyond..

..a time-compressed quantum-leap journey/crucible..

..to, and beyond, the Envelopes-Shifting futures..

OpenMetaCortex

..The SuperCluster Epoch, in short, for seriously interested..

..entertain Your possible possibles..

..with/over a Co-Voyage..

..over the apparent/achievable possibles..

..since circa 2017.. ..to 2026.. ..and beyond..

..a time-compressed quantum-leap journey/crucible..

..to, and beyond, the Envelopes-Shifting futures..

OpenMetaCortex.

..from **BigBang [R]Evolution**

..to **SuperCluster Epoch**

Need..?

..Envelope-Shift Potential!


Audience..?

..Envelope-Shift Morphing-
Compression-Dominance!

Proposition..?

..Evolution-Path Compression!

Competition..? ..Morphing-Dominance Time-Compression!



The Future.
Assured.
Cyber-Human-Hybrid.
Cognitive Society.

OpenMetaCortex




The Future.
Assured.
Hybrid Co-Evolving.
Synthetic Cognition Immersive.

OpenMetaCortex



The Future.
Assured.
Systemic Co-Shifting.
Ubiquitous Co-Immersion-Evolutional.

OpenMetaCortex



OpenMetaCortex

Your Future?
Assured?
Envelopes-Shifting?
Immersion-Compressing?



The Play.
Of Three Acts.
OpenMetaCortex

crucible@

<https://openmetacortex.ai>

OpenMetaCortex



..if a bold thought is entertained..

..in the beginning of the First Act..

..it shall be exquisitely deployed..

..and evolving further..

..by the end of the Third Act..