



**ELSØ—NEW
REACTIVE EARTH**

**STORY—WORLD
BIBLE**

LINA PERSSON

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ORIGIN

The image features a light blue background with a large, curved, darker blue shape on the left side. On the right, there are several overlapping, semi-transparent orange geometric shapes, including triangles and polygons, some of which are elongated into thin, sweeping lines that suggest motion or a dynamic process. The word "ORIGIN" is written in a bold, dark brown, sans-serif font in the upper right corner.

It was after a long period of experimentation with bending time and space using lasers that a subatomic temporal access point was activated. This activation opened a portal in the fabric of space-time, granting an unknown future agent access to the present. These experiments were practical implementations of the time travel theories put forth by professor Ronald Mallett.

The approval for the activation was issued by a unified UE. The UE had concluded that this was the final resort for changing Earth's destructive trajectory, characterized by its colonization of the future through the continuous depletion of resources by the present. Since they had proven unable to change themselves, they would make future generations an equal counterpart, forcing about the needed change. With this technology, the power relationship between the present and the future would shift, granting futures the agency to confront the present. It would enable them to implement their research in earlier points in time and send back binary code to the present.

The theory posits that a code, packaged as charged subatomic particles, was transferred. It probably came with instructions. When it was unpacked and injected, it spread through the chains of all processes on Earth. It affected all matter, animate and inanimate. Fundamental particles could access their memories stored as quantum properties such as charge, spin, mass, and momentum.

An activation of intra-vesicles enabled all matter to exchange these chemicals based on its past experiences. Most particles adapted to this new code instantly, but some were more resistant to the development of intra-vesicles.

This code injection caused reactions and interactions to occur faster and more frequently. Systems across all scales interlinked, and their feedback loops accelerated. For example, cybernetic systems in and around Earth, originally developed as infrastructure for entertainment and war, were reassigned to monitor planetary health. These satellites turned to track ecosystems, potentially redistributing life-space to regenerate the larger global body.

They also acted as an apparatus of perception, offering Earth the capacity to see herself from the outside. This modification led to the emergence of New Reactive Earth (NRE); a self-aware Earth with accelerated connectivity and agency. Earth now had capacity to monitor and regulate how all inhabitants take up life-space and use resources. High-emitting activities were interrupted with kill switches. Climate debts were balanced both temporally and spatially.

This served the purpose of future generations, since it made sure resources are used in balance with what the earth can regenerate, ensuring that there will be something left for coming generations. It also served a redistribution through space, as the cancellation of some activities in the present gave space for others.

MALLETT'S LASER

The time technology of Mallett's lasers was something very different from how time travel had been conceptualised in earlier science imaginaries. This time technology does not allow its inventors to explore spectacular futures. This time machine opens a one-way portal giving the future access to the present. It opens a door to a unknown that we can not enter, but instead letting in that unknown in. When this time

machine is turned on for the first time a time-tunnel starts to grow. As long as the machine is kept turned on, this tunnel will continue to grow. In any point in time after the machine has been turned on, it would be possible to send information/subatomic particles, back in time to the moment when the machine was first turned on. But it would never be possible to go to the future, simply because the tunnel would not be there yet. This makes the moment of starting the machine, a moment of facing the future on new terms.

GLOSSARY

NRE, NEW REACTIVE EARTH

The new self-aware Earth with accelerated connectivity and agency, with the capacity to monitor and regulate how all inhabitants take up life-space and use resources.

MALLETT'S LASER

The ring laser that can twist space and loop time. Developed by professor in physics Ronald Mallett.

MALLETT'S PORTAL

The subatomic temporal loop that opens access to the present by the future.

NRE CODE

The binary code packaged as charged subatomic particles, sent to the present from the future via Mallett's portal.

NRE CODE INJECTION

The process of unpacking and dispersing the binary code through Earth's processes.

NRE SHIFT

The update of the Earth system that occurred when the NRE code was injected, sparking the emergence of the NRE.

LIFE-SPACE

The material and social environment that an entity is embedded in. When life space shrink the entity is forced to change in order to be able to keep regenerating.

CLIMATE DEBT

The asymmetrical consumption and emissions leading to the askew distribution of life-space. This debt, this depletion of resources is both temporal and spatial.

COLONIZATION OF THE FUTURE

The depletion of resources by the present that undermines that the same amount of life-space regenerate through each cycle.

TEMPUS NULLIUS

The treatment of the future as predefined, depriving it of its inherent right to take form on its own terms. This happens for example through depletion and extinction of resources by the present or by dominating narrative forms.

INTRA-VESICLES

A vesicle is a structure within a cell. When modified by the NRE code these vesicles developed executive functions and the ability to develop also in inanimate matter. Intravesicles store chemical traces and responses from the particle's past and can also act on this information.

AUTOPOIESIS

The ability to reproduce the conditions of being alive from moment to moment. This regenerative ability is the result of a adaptive interplay with the environment.

WHIP-LASH CURVE

The curved line embodying the occilating interplay between inner force of a entity and its environmental conditions.

PREMISE

Future generations has, thanks to Mallett's time technology, hacked the present so that the earth system updated herself into a New Reactive Earth, a cyborg Gaia. A conscious reactive earth that monitors and regulate how all inhabitants use resources & life-space, ensuring regeneration both temporally and spatially.

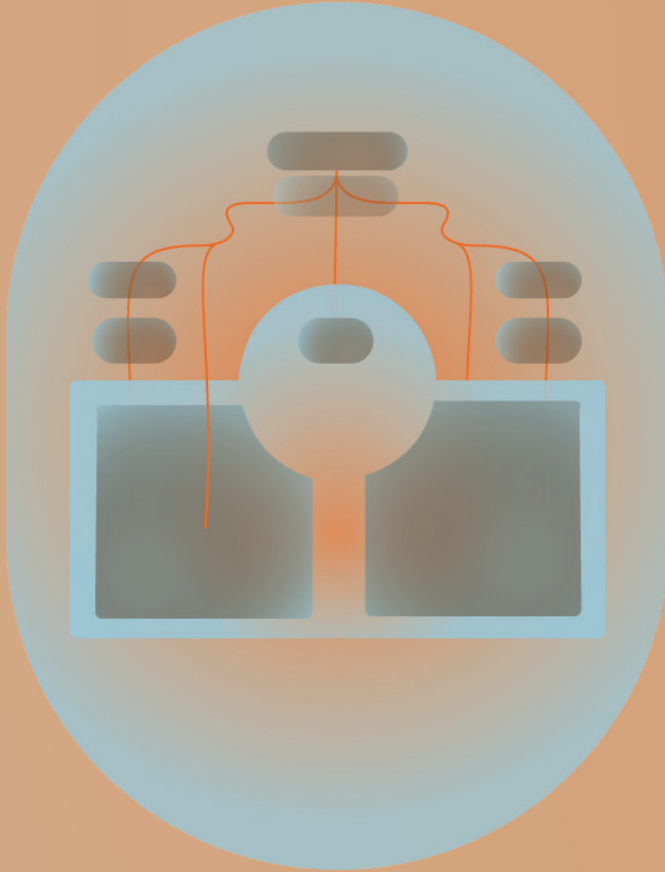
INTRODUCTION

*Persistent experimentation preceded the shift.
bending of time and space with Mallett's lasers.
when, in the midst of the warm war II
spiralling loops finally collided.
opening the path.
Shaping that occasion into a subatomic temporal
access point.
generating a time tunnel, as time passed on from
that moment
connecting the present with a future other,
through this portal,
impenetrable from this end.
But they arrived.*

*They emerged as proton particles.
Through this one-way channel from another time.
Crossing the threshold, they unpacked themselves,
transferred into code.
Reversing causal directions.
Hacking the present
enabling the earth system to update herself.
connective strings growing between everything
everywhere, like a cyborg gaia. A reactive Earth.
Sensing and regulating how every process on Earth
absorb energy, resources, and life space.*

*The colonisation of the future pushed back
inflamed passages relieved
The askew power dynamic between present and
future settled.
We are becoming new bodies with this world
Our possibility to extract energy from the system
is drastically reduced,
halting practically every activity that previously
made up everyday life.
Our sensory apparatuses nudging and dissolving.
pain and pleasure,
resistance and submission
we are re-calibrating individual habits with the needs
of our new larger body,
we are Elsa, the New Reactive Earth*

ADAPTATION



We are all this world with our bodies. We feel it, stronger and stronger, but still only vaguely. We are moving out of synch while struggling to calibrate our individual habits with the larger body.

With the code intrusion earth recomposed into a heightened global consciousness that operates at a time scale nearly identical to human consciousness. This makes Earth's feedback and responsiveness more tangible and direct. This new biotechnological real-time distribution of life-space effected high-emitting humans the most. Already hyper occupied by dominating reflexive power systems, these human cells and particles resisted the development of intra-vesicles. This led to failures to sense and respond to the new reactions of environments, often with catastrophic consequences.

Practically every activity that previously made up everyday life has been halted. When we initiate our habits the environment intervene and cancel them. Light switches turn themselves off, roads collapse, cars break down, but start again when more people enter. Heating functions only in very small or densely populated rooms. Energy demanding foods lose taste, nutrition and energy. In extreme cases even breath and exhale become restricted. Often we are caught off guard with collapse and chaos as result.

This marked the beginning of an era of adaptation, with one foot still in the old world while the other foot finds hold in the new. The apparent way to adapt was to control and limit ones footprints, to shrink carbon dioxide emissions. The old systems of domination had fossil fuels at their center. As a first step, off-boarding programs and exit-strategies were created to open up space for the new system. Co2 detoxing through

temporary hard stops in transportation, consumption, electricity, eating and breathing gave a kick start. This also helped keeping within ration and mitigate NRE interventions.

Gradually social movements emerged, dedicated to exploring ways to navigate this new environment and avoid abrupt interventions. To keep within their allotted share, retrench and prioritise the vital needs and to be able to better adapt and prepare for the reactions of NRE, they invent aiding structures. For instance, legal concepts like Rights of Nature laws transformed systems of justice. Submitting to such infrastructures speed up recomposition and the development of intra-vesicles. Eventually it gave way to more intuitive navigations and transformations of entire social structures evolved.

CULTURE

The intrusion of the code triggered a breakdown—a collapse of meaning. Meaning had to be reconstructed from scratch. The building of new meaning commenced within the bodies, in their biological functions, calibrating breathing, body temperature, and heart rate. It then expanded to the immediate surroundings, a tactile scale within reach. Tactile relations created vesicle imprints—shapes capable of holding meaning. Whiplash-curved vesicle tentacles interconnected these hyper-local cells of significance to higher structures.

AESTHETICS

Aesthetic experiences now lies in how things interact and entangle themselves with its environment in autopoietic interchange. The transforming, interconnecting sensory apparatus enables a increasing ability to apprehend and share immaterial, embodied and somatic art.

ART PRACTICES

All humans are becoming auto-poetic artists. Such artists aim to create only themselves. They create themselves in forms that has the capacity to reproduce the conditions of being alive from moment to moment and to keep regenerating, sometimes in mutual one-to-one performances. They perpetually recreate themselves in response to the environments shifting ability to support life, to support them. This art practice is in stark contrast to the pre-NRE allo-poetic artists who created other things, art objects, external to themselves. These creations required massive infrastructures, archives and museums.

Now, artists rarely create external physical objects or artworks. In exceptional cases, when they do, those art objects are then autopoietic and having no carbon footprint at all. Autopoietic artworks can be created only without force and effort. Such artworks are created almost “automatically” because they want to come alive. They want to come alive because they sense that there is an environment that can give it a livable life. The environment in its turn welcomes its birth because it has a form that it can support and that can support it back. They come into existence through mutual forces and desires, channeled by the autopoietic artist's intuitive and improvised presence. The force of energy of the whiplash curve drove the art world into the new era. Spheres and circles are also common shapes in autopoietic artworks.

STORYTELLING

The interventions of NRE in human life forced established impulses to stop and question themselves. This gave birth to new trajectories of shift and change, reviving fallen beginnings and interrupted commitments, reopening dead ends and making the

contracted timelines diverge again. Reversing the current path of extinction, opposing temporal settlers. With the code intrusion, the future had aimed to take back its diverse ways of forming, to disarm the present of its centralized, disproportionate powers and overuse that eradicated species and narrative trajectories and reduces the future's options to take form into one single version.

Narrative practices evolved the role of environments. It shifted from being backdrop for dramas between humans into mutual relationships between all kinds of more-than-human existences. In worldbuildings and “storied lands” existing places shaped the stories. Stories were told in quest of what worlds that story could make. New storytelling conventions emerged that transformed familiar stories. Stories that had aimed to prepare for acting in situations with distinct heroes and villains, shifted into offering narratives based on shared common purposes. Forms of storytelling with open endings and long term perspectives which reach way beyond human lifecycles flourished.

Open endings were applied in order to avoid “Tempus Nullius”: the treatment of the future as predefined, depriving it of its inherent right to take form on its own terms. During the adaptation era, ultimatums played an important role in narrative arcs. An ultimatum could halt established impulses, deepen the story, and force characters to change and make hard choices. It could help overcoming destructive obstacles lingering from the old world. Storytellers excelled in expanding the potentials of the real-time and place of the narration. They could reset the potential of every time, place and act to its original full range of possibilities. Often it was the fantastical genres that set off new diverging trajectories.

Bedtime stories play an important role. This is a traditional tale, popularly told in its original language:

Det var en gång, i en värld av äventyr och magi, en vattendroppe som bar namnet Prisma. Hen hängde ensam på en gren högst upp i det största, mäktigaste trädet i hela skogen. Prisma hade en speciell optisk gåva - hen kunde se på speciella sätt. Nu såg hen hela den förunderliga världen nedanför sig från sin höga plats. En dag hördes en duns så kraftfull att det fick hela trädet att skaka. Prisma kände en vibration som genomför hennes kropp. Dunsarna fortsatte, som om enorma fotsteg närmade sig. Grenen skakade allt mer för varje steg.

Prisma klängde sig fast med all sin styrka och ytpänning. Men plötsligt dunsade det kraftigt i marken precis under trädet, grenen skakade våldsamt, och Prisma tappade sitt grepp. Hen föll fritt och fritt, genom luften, bortom grenarnas skyddande famn, och landade... på en mjuk och fuktig yta. Där stod en majestätisk älg, som hade trampat genom skogen och nu stannat upp. Älgen hade tittade upp mot trädet och precis när han öppnade sitt mäktiga gap i en gäspning, landade Prisma, som en dyrbar skatt, mitt på hans tunga.

Prisma gled som i en rutchkana, nerför älgtingan, genom halsen, och in i den stora mörka magen. Där inne följde hen de dunkla och mystiska vägarna i älgens kropp. Plötsligt såg hen ett ljus. Det var en öppning som närmade sig i en rasande fart. Prisma flög ut genom den strålände öppningen och landade mjukt på ett spänt grässtrå. Förvånat betraktade hen sig själv och insåg att något var konstigt. “Jag är ju helt gyllene!” utbrast Prisma förvånat. Solen sken på henne och värmen började pirra i hennes form. Hennes kropp löstes upp i otaliga små droppar som svävade uppåt i en magisk vattenånga. De mötte andra ångor och dimmor som tog tag i dem, och



tillsammans bildade de ett virvlande moln i den mörka natten. Men allteftersom de steg högre blev det kallare och kallare. Prisma började känna sig stel och kristallisera sig i kanterna. Vinden fångade tag, snurrade runt och dalade än hit och än dit. Plötsligt dunsade hen in i något och fastnade. När solen återigen visade sitt ansikte, började Prisma att smälta, och hen blev återigen en flytande droppe.

Prisma öppnade ögonen och tittade sig omkring. Hen insåg med förvåning att hen hade återvänt till sin gren, den vackra grenen högst upp i det stora trädet. Prisma sträckte på sig och fångade solens strålar, för att skapade den mest fantastiska regnbågen någonsin. Hens äventyr hade tagit hen genom underbara transformationer och sen fört hen tillbaka hem igen, där hen kunde sprida sitt magiska ljus över hela världen. Och så levde Prisma lycklig och lyste med alla sina färger, i sitt stora träd, högst upp i skogen. Tills en dag då plötsligt...

NAMING

There is still no consensus on the nature of the emerging new reality, leading to a multitude of parallel theories and names. The most commonly used term for the new world is ‘New Reactive Earth,’ adopted by those who acknowledge a shift in Earth’s mood and temperament. Another term, ‘Cyborg-gaia,’ is prevalent among advocates of a corresponding theory. This perspective suggests that the change in Earth’s mood results from the Earth system updating itself with a code, interconnecting everything—from biology to chemistry to technology—in ways beyond human understanding. The name, ‘L-CA [Elsa],’ is employed by followers of the cyborg-gaia theory who also believe that Elsa is a self-aware global entity assessing and balancing its lifecycles. The new temperament and

reactivity of the Earth are seen as the effects of Earth redistributing its energy in real-time to ensure the survival of the larger planetary body.”

OFF-BOARDING STRATEGIES

Off-boarding programs and exit strategies were created to destitute the old power systems. In the early days of industrialization, carbon dioxide emissions suddenly rose with the introduction of fossil fuels. Carbon also disconnected time and place. Factories could move away from rivers supplying power and the sources of raw materials and natural resources.

Workers could abandon their circadian rhythm and work both day and night under electric lights. Carbon use created distance and detached all kinds of relations. Even cause and effect were disjointed and replaced by opaque correlations.

LOW-CARBON QUESTS

These initiatives often manifested as social challenges, such as small-scale week-long detoxes from the internet, electricity, food or anything with a carbon footprint. Even smaller-scale challenges, like three minutes without exhaling, were implemented. More long-term detox challenges took the form of ‘no buying new things for 3 years’ or ‘no flying for 7 years.’

The quests to reduce carbon emissions also had the double effect of connecting and grounding on all scales. When holding your breath to prevent emitting carbon dioxide, every molecule of your body awakens. They cry out their need, drowning out everything else. Your core becomes center, and all new relations will the connect from this root.

QUANTITATIVE TOOLS

The elsa.film climate calculator and artwork, enabled artists to tentatively figure out how to create and navigate with as small carbon footprints as possible, to become life-cycle literate. It was a guide, a score, to shift & direct consciousness around practices. With shifts in attention came other shifts. Shifts in priorities, in values, in practices, in aesthetics. Elsa.film also functioned as a aiding structure that came to mentally prepare some for life in New Reactive Earth.

AIDING STRUCTURES

During the adaptation era, humans create and submit to supporting structures to compensate for the slow development of intra-vesicles. This assists them in staying within their allotted share, retrench and prioritise the vital needs and to prepare for the reactions of NRE when they fail.

JURISPRUDENCE

Legal language had a long tradition in guiding high-emitting individuals to make room for others. Ideas of sovereignty and inherent rights previously reserved for the few, expanded to include any entity. Nature's rights laws was applied in everyday life by signing contracts and agreements.

Such agreements could take following form:

AGREEMENT—CHANGE OF LEGAL IDENTITY

(b) hereby ceases to be vested in the ownership of (a). Hereby (a) declare this land (b), previously in (a)'s ownership, a legal entity. As a legal entity, (b) has all the rights & powers of a legal person. (a) hereby state that, (a) will exercise these rights & powers on behalf of, and in the name of (b).

(a) NAME OF HUMAN OWNER, signature: (b) COORDINATES OF LAND: Signature/sample/ frottage.

When such contracts were violated the case were often taken to court. The trials adapted their formats for different kind of victims. They were structured to foreground the responses of the victim whose voice the defendant had failed to acknowledge. This new jurisprudence found hold after the precedent case of the *Tribunal for Lake Vättern*. It involved allegations of violations of Article 2 in the 2010 Earth Rights Declaration. The water from Lake Vättern was participating and the trial was organised with the bowl of water at its center. A 360 camera captured the sphere, with the circle of water at its center, offering close up rendering of every response of the water.

WORK LIFE

Before we had our roles and functions first and foremost through our work identities, our professions and productions. In material terms that often meant our outtake of energy and resources. But since the NRE shift we are firstly connected through how we put energy and resources back into the larger colony we are part of. Shutdown of workplaces became a way to reset activities for this shift. The first shutdown at the University of the Arts was due to a NRE intervention.

The interruption led to a pausing and questioning of the present. It was acknowledged as an opportunity to imagine alternatives, envision redistributions, and re-evaluate the current state of things. It became a method applied by all kinds of workplaces.

—When we stopped doing what we were accustomed to, we opened ourselves up to the possibility of something else emerging.

When we detached ourselves, in this case, from how we are connected through our energy consumption, we reconnected in new ways, based on the new channels that had emerged.

MINING

The crust can not be penetrated anymore. What still remains there, is no longer attainable. In the past, humans would break open any bedrock in search for the minerals and metals they desired. Their hunger for it was endless. A majority of all existing deposits was uprooted during the extractivist era. During the adaptation there were some circular mining practices, like “urban mining”. Humans would mine what they once already extracted. Inside the walls. Under the streets. Former human cities and habitats were dense with desired materials. During urban construction projects, entire zones of infrastructure sometimes had gotten disconnected, the cables were left in the ground and forgotten. Masses of debris previously considered waste, made up valuable search sites. Hibernating aluminum, copper and lead from the old systems for city gas or direct current allowed themselves to be resurfaced and repurposed.

DEEP ON-BOARDING (RECOMPOSITION)

The transcorporeal recomposition and the development of intra-vesicles triggered by the new code was furthered by widespread submission to the aiding structures and carbon exit strategies. It gradually materialised into a full scale shared reality.

NEUROLOGY

*Type: Transcorporeal
Central coherence: weak*

*Hypervigilance: constant
Executive functions: low
Automatisation ability: backformed
Embodiment: full*

In the gradual dissolution of human neurology, it intertwines and merges with the surrounding neural networks. Once governed by atomization, autopilot, and habitual routines, humans now find themselves navigating a world of irregularity and unpredictability. Their actions are no longer driven by previous experiences but are guided by acute presence and heightened sensitivity to their surroundings.

The once strong central coherence has weakened, and humans no longer seek to simplify sensory input to create generalized models or “big pictures.” Instead, they must absorb the entirety of each situation in order to maneuver through the complexities of existence. A seemingly insignificant detail one day may unexpectedly become a matter of life and death the next. In this world, life hinges upon an open embrace of the ever-shifting spectrum of reality while at the same time connecting with others in open embraces of shared realities.

METABOLISM

Human metabolism has been adapted to shifting availability to energy. Activities are not planned ahead, but are unfolding as energy becomes channeled. The better metabolic self-awareness, the more possibilities to plan becomes available.

For example, humans has developed the ability to go into hibernation. When a person run out of their life-space share, they go into saving mode. If guided by a an experienced hibernater the transition is painless.

At a later time they may have accumulated a buffer in order to come back to animated life. Meanwhile they reside in cocoons hanging horizontally in the ceilings of their kin's homes. Hibernated humans can survive for up to three years in this state.

Guidance transcript:

When you lied down in this zone the neuronal circuits in your brain started aligning with the vibrations in the field. We all have an internal clock, a series of chemical reactions controlled by the hypothalamus of the brain. External signals set the clock. The decreasing amount of available oxygen & energy set its clock to time zero.

And your endocrine axis start to suppress brain regions that regulate hunger, thirst, feeding, body temperature. Needs and Desires fade away. You feel no discomfort. You Do not crave anything from external sources. Everything you need is in your body.

Pay attention to what happens in your body. What movements can you feel? What directions? How does the air flow past your lips, tongue, throat? How does it fill your lungs? How is the blood moving the oxygen onwards?

Take a deep breath and hold it, notice when and where in the body resistance appears. Let it go when your body forces you to. Count the seconds of your inhale. Keep breathing, counting. Gradually make the exhale the same length as the inhale. Notice your heart rate dropping.

Notice your somatostatin system react to your periventricular hypothalamic nucleus. The striatum, amygdala, and cortex trigger fewer and fewer scattered immunoreactive perikarya.
Paus
rest

The signal to wake up will come from inside. Your central nervous system will sound the alarm. Attune to signs of shivering, if you find it, don't resist it, feel it. Embrace the starts shivering. The shiver uses energy and generates heat. Your have balanced your overdraft and you can now resume your animated life.

RESPIRATORY SYSTEM

In extreme occasions of NRE interventions, humans emissions of carbon dioxide from exhale becomes limited, breath is restricted. It confronted the human body to stay with its own production of Co2 and relearn the correspondance between inhale and exhale, consumption and emission. The pressing panik previously associated with lack of oxygen, with craving oxygen, becomes a matter of building a relationship with and a ability to contain Co2.

This helped a thinking in new terms, not in terms of lack (of oxygen), but as a presence (of Co2). This built a resistance in the cells. A resistance to "the knowns" dominance over the "unknowns". This resistance sensitised a perception to what was previously rendered invisible or non-existing, enabling further recomposition. Working actively with the respiratory system aided the development of intra-vesicles

Guidance transcript:

Close your eyes take a deep breath, fill your lungs and your stomach. Slowly let it all out, let it sink, let it melt. Take another deep slow breath 1, 2, 3, 4, 5, 6 and let it go, let it out on 1, 2, 3, 4, 5, 6. Continue this six count breathing. Listen to the atmosphere in this room. Do you hear a low humming noise, a gray noise? Focus your attention on this noise. Channel it through your ear, let its sound waves travel through the narrow pathway to the eardrum.

As its vibrations are sent off to three tiny bones

in your middle ear; with your eyes closed try to get a glimpse of this vibration, what patterns do you see? What shapes, what colours? The vibrations now enters your cochlea, a snail-shaped structure filled with fluid, in the inner ear. The vibrations cause the cochlea ocean to ripple. A wave forms, and travels along your basilar membrane, inwards. Keep your eyes closed and focus your gaze backwards, inwards, towards this vibration. Watch how this vibration, this code, synchs up with yours. Remember your breath... in 1, 2, 3, 4, 5, 6 and out 1, 2, 3, 4, 5, 6. Breathe in through your nose, towards this vibrating point. Breathe out from this vibrating point. Now hold your breath, relax. Let the carbon dioxide level increase in your vibrating point. Now, breathe in deep 1, 2, 3, 4, 5, 6. Breathe out 1, 2, 3, 4, 5, 6. Hold your breath, hold the carbon dioxide in your vibration. As the co2 concentration grows, the vibration unfolds tentacles from the vesicle. Breath in 1, 2, 3, 4, 5, 6 and out 1, 2, 3, 4, 5, 6. Hold. You have now developed the intra-vesicles that enable you to exchange information, experiences and agency with all matter. This inter connection enable the new unified earth to monitor, regulate and balance how all parts take up life-space and use resources.

PSYCHOLOGY

Emotions have become contagious. Feelings involved with various processes are imprinted within the very fabric of all materials engaged in those processes. These feelings can also be released and transferred at any later point in time when in contact with or consumption of that matter. Feelings are transmitted through vesicles.

The tester:

*Date: [*****]*

*Author: [*****]*

*Version: [*****]*

Transcript:

I initiate the video stream. The images depict a common social media video challenge, but the light-transmitting diodes of the screen begin emitting acetylcholine, dopamine, norepinephrine, epinephrine, serotonin, and histamine. The dramatic mixture of contrasting effects creates a dizzying sensation, causing me to feel nauseous. I promptly delete the video sequence from the server, leaving only 14 files remaining in this folder.

KNOWLEDGE

Knowledge is no longer valued by what information it contains. Its form and immediate effects are premiered instead, as this generates knowledge about how things transform and recompose. In the moody shifting world of NRE, information based knowledge becomes obsolet immediately. Knowledge about the world in its present state needs to be applied in the same instance as it is acquired to give any desired effect.

Knowledge-forms that in themselves enables or produce a decreased stress on the larger body, is the only research possible to conduct. The relationship between resource extraction and knowledge production ended during the adaptation era.

Research must be able to apply its findings in real-time, in iterative auto-poetic processes, where the research and its environment perpetually transforms each other in consensual entanglement. An interrogation of hidden causalities in research infrastructures gave rise to new new critical tools.

SEXUALITY

Center for Eco Intimacy Orientations. Presentation:

Do you feel turned on by being exposed to nature and natural elements? Do you feel

aroused by the biting cold of icy waters, the touch of a branch of leaves, by the heavy weight of a big log pressing you down into the moss forcing you to activate all senses taking in the environment in a multispecies orgy? Here you can share your experiences and desires from being submissive to nature and natural things. Here you can explore sexual pleasure in being attentive to all the nuances in how nature can take its toll at your body, sense the arrival of the world in your body. Perhaps some of you who used to define your sexuality in relation to self-bondage practices can find a different understanding of your sexuality by inviting the agency of the things that you collaborate with in your bondage.

Archive Entry: Entry Interview Record.

Center for Eco Intimacy Orientations.

Date of Interview: [00/04/13]

Interviewee: [xxx]

Interviewer: [xxx]

Location: [Center for Eco Intimacy Orientations]

Purpose of Interview: The interview was conducted as part of the admission process to gather essential information, document xxx's history, and assess their current status.

Context: The interview took place at Center for Eco Intimacy Orientations as part of the standard admission process.

—This state... How did it start for you?

—It started many years ago. First, I noticed that things I had previously found annoying and irritating, aroused me. For example, I was lying naked on a sunbed, at my forest hut, and there was a birch branch whisking its leaves next to me, sometimes a leaf would touch my back, make a tickling stroke down my side.

Instead of annoyed as before in such situations, I got excited. It made me think of when I as a child first discovering sexual feelings. The fantasy that my hand was someone else's and how that imagination made desires emerge. And about the journey I had made with that place... When I first came to that place in the forest, I wanted to chop down some trees, for my own pleasure of sunbathing, but also for the garden, to be able to grow some tomatoes and mulberries. I filmed when the trees fell, and could see how the automatic exposure shifted to adapt for the new lighter situation... Anyway, after that, as I got to know that place, that land; every tree, every plant, every spot of mushrooms or insect hive, every rock and its moss, the owl's branch, and squirrels' paths in the trees, the sun's shifting reach during seasons, the composting decay. And gradually I realized the wisdom of the trees, realized for how much longer they had been a part of that place.

How I had not acknowledged that, that time when I chopped a few of them down a few years ago. I still had a few staples of logs left. I felt drawn to feel their hardness and weight on me. Lying down in the moss and heather in summer nights, shuffling logs on top of me, sensing how they press me down, how I sank deeper. My strained breath... When my lungs expanded, the logs moved, rolled a bit, then shifted and rolled over, across my shoulder blades down on my neck, pressing my face into the ground, forcing me to take a big breath through the moss, all the smells of earth overwhelmed me. Then I really knew something had changed.

—What do you think it means?

—I think, that getting to know the agency in my environment has made it possible to see it as an active other in some way, an attractive other in whose eyes I want to be something, evoke something in.

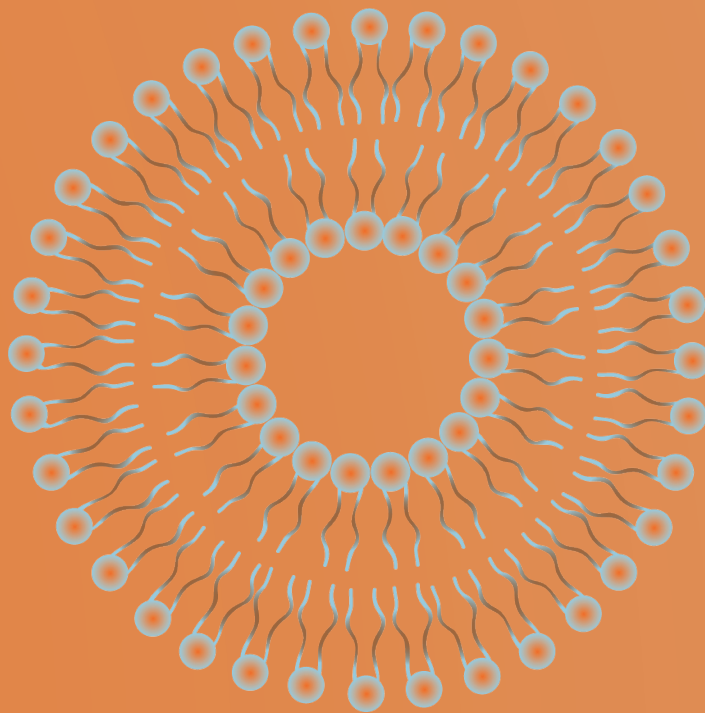
—But what about the submissive part?

—it is in some way a trust, I think. I love it and I trust it enough to put myself in its hands and to enjoy anything it decides to do to me, in a way be shaped by it, become it. But I also wonder if it has to do with its new unpredictability... just now as I realize it, as a partner I'm in love with, it is transforming into a new temperamental opponent with an irregular mood. As it's leaving its holocenic seasonal cycles it becomes harder to be with it. As with an aging partner with dementia, it can have sudden bursts of violence impossible to predict. Then the submissive position gives a certain focus, an attention, to sense what is in the air, before it arrives. Maybe its just a necessity to survive. But it is pleasurable, still, no matter...

—Do you have other examples of situations where you experienced these feelings?

(Note: no further response. Interview to be continued at a later moment.)

ΞLSΘ—NEW REACTIVE EARTH



This new efficacious Earth keep its systems vital by balancing the withdraws of life space and resources between all its different parts. This ensures regeneration of the same amount of life-space through each life-cycle. A new natural law has redefined the fundamental conditions of life planet-wide. Every aspect of the planet is interconnected within this unified consciousness—a global consciousness that allocates life-space within its system to establish equilibrium. It places restrictions on all resource usage, ensuring that each part stays within its allocated amount of resources and energy, with direct and localized feedback for each withdrawal.

Life in NRE takes place on all scales. Interventions begin in the worlds inside small bodies, rapidly rippling through the larger body. Reactions and interactions occur faster and more frequently due to intra-vesicles that enable all matter to exchange energy and information. Systems interlink, and feedback loops accelerate. Neuron impulses can cause planetary ruptures in seconds.

ATMOSPHERE

On the atmospheric level, NRE acts for example through methane and carbon levels in the atmosphere. It also acts through the global cloud system of the Earth that move and balance earths temperature in the southern and northern hemisphere. It is interlinked with the geosphere in how it carries aerosols such as heavy metal particles. This way these active agents can quickly move great distances. Mineral components in cybernetic systems previously used for entertainment has been redirected to tend to planetary health. Satellites are the perception apparatus which which New Reactive Earth can see herself. With this global

self-awareness she track her ecosystems for planetary scale regeneration.

BIOSPHERE

Everything constantly adapt its body shape to its environment in order to survive. For example by bending their organs such as stems, leaves and roots. The curves of growing vines comes from a oscillating negotiation between a inner direction and external conditions. Between nutation (a direction inherent to the plant) and tropism (a turning due to an external stimulus). The plant's stem has a stop-and-go phenomenon that makes it grows thicker and sturdier on switching sides in order to compensate. The cell wall chemistry is different on the concave an the convex side, this produces these curved shapes in many vines and plants.

Trees that sprout at the same time as children are born become connected and they take on each other's shape. Mycelium trails can channel important information. Their networks acts similar to human brains, if you follow its paths and ask your questions out loud you can receive answers through electrical signals. Their fruiting mushrooms can also signal about incoming danger.

Mycelium Quest: Begin at a carefully chosen mushrooms spot. Make the first mushroom that you encounter into a threshold. Pass this threshold while articulating your question, dilemma, or concern aloud. Proceed to trace the mycelium, allowing it to guide you. Upon discovering another mushroom, express your concern in a manner tailored to this particular fungus. Continuously trace the mycelium, addressing each subsequent mushroom with renewed perspectives. When your problem

undergoes transformation or a solution arises you can return to the first threshold-mushroom. Articulate how the dilemma has evolved and express gratitude to the mycelium for its guidance. Conclude the quest by respectfully exiting the realm of fungi.

Plants absorb particles from the geosphere and emit them into the atmosphere. Overlapping communities of *Apis dorsata* bees carries messages from Sidr trees in Khyber Pakhtunkhwa to crocuses in Södermanland.

HYDROSPHERE

The hydrosphere had suffered from great imbalance and had been on the brink of collapse. For example, a steady increase in antibiotics had kept fish farming viable for ages. This meant that large groups of humans kept occupying an ever growing life-space on behalf of other organisms, such as the fish. This way of keeping animals, as a way of optimizing food production had many consequences in all parts of the ecosystem.

With the code intrusion these practices were intervened. The global cloud system had directed and distributed heavy metal aerosols to human settlements around fish farms. The heavy metal pollutions had increased the effect of resistance development in the local bacteria. A greater variety of resistant bacteria developed. These bacteria, resistant to all current medical treatment, transferred to human pathogens. When the disease hit it caused an instant stop in all activities including the antibiotics use at the fish farms. The fish started to develop in a completely new direction.

GEOSPHERE

In the geosphere, NRE acts through the chemical waste from industries in the Earth's sediments. Technology participate in NRE mainly through memory and relation to its ancient mineral locations in earths core. Each mineral particle constituting any technology can instantly enable or disable, decrease or increase any function or effect. Tech waste assemble and collaborate, dedicated to countering non-design effects of large-scale human interventions, a constant un-engineering.

LOCALES

THE SOVEREIGN LAND, ELSA

Home of vines and whiplash vegetation. A small patch of earth that is its own sovereign person. You are a part of this land and this land is a part of you. It is a place where your basic needs stand in direct contact with earth. Where your main contribution in the world is by building top soil and growing birds nest materials. Where you learn about what affects groundwater by the ever shifting taste of your well. Where you can notice how your interactions promote some life and prevent others. Where you learn how to navigate so that your interactions diversify this piece of earth and how you can sustain it so that it can sustain you, to meet your creaturely needs for shelter and sustenance. This is the place that can teach you to destitute your dependencies on fossil fuels and constitute your ecological dependencies. This is the place that render your footprints visible to you and show it to your face.

Habits:

- ∞ in the morning; fill up a tub with bedrock cold groundwater water, allowing the sun to warm it

until noon, a water temperature that can clean my body, that can remove harmful bacteria, that can sustain my skin, that sustain my blood and tissues, that sustain my life.

- ∞ When hungry, follow the mycelium trails and berry paths.
- ∞ in the evening, do physical chores to keep warm. Empty the barrel with feces to sustain the microbiology in the compost, that contribute with nutrition to the destitute forest soil, that sustain the growing of peas, that sustain the nutrition levels in this body, that sustain this life.
- ∞ Help the wild raspberries to contribute to the health of the filtration bed by the drain pipe.
- ∞ Remove every sign of Lupines to sustain the wide diversity of perennials.
- ∞ When dry, fill up the watering stations for bees and butterflies.

THE ELSA ROOM

Elsa-room is built from waste at the Elsa land. It can sustain creaturely bodies, protect them from cold and heat, without carbon. When you lie in this room and look through the window, you see the tree that was the reason for that window. You can see marks on the window frame from when it had been dismantled and discarded and then found and remounted.

Habits:

- ∞ In the morning consider what to eat for lunch, if using frozen food, take it out of the freezer so that it is defrosted by the room temperature in time for cooking/eating.
- ∞ Rinse all dirty dishes with cold water as soon as they are finished. Avoid animal fats as they require warmer water to get cleaned. Whenever you heat water for cooking, afterwards, use that water to

finish the cleaning of the dishes.

- ∞ If nights are cold, close the door to the writing room during the day. It gets heated by the evening sun and stays warm and comfortable until bedtime. Elsa says: should you seal this door on a sunny day, this room will be a haven for you through the twilight, when the chill of night descends.
- ∞ If your body gets too cold in the evening; empty the barrels of compost, carry the collected water, move things that needs to be transported. Do it as a slow dance.
- ∞ If days become very hot, open the northern and southern doors. The draft will draw cool air from the shadowed side. Elsa says: Open this door on a scorching day, and welcome the chilled breath of the north, to cool this chamber.
- ∞ Do all still activities during the warmest daytime hours.
- ∞ If it rains, collect water from the roof drainage, distribute it to areas in need, or save it in the tank.
- ∞ Painting the house with tar, to sustain the wood panel, that sustain the insulation layer, that sustain the heated air, that sustains the body temperature, that sustains life.

THE UNIVERSITY

After the code intrusion teachers asked themselves “what future should we educate for? As we here seem to be facing a future where this researcher will no longer exist, where the electricity to study this research output won’t exist and a profession to educate won’t exist. Can we use this place to relate to this future in our education today?” Transtopian worldbuilding was applied to break loose from outdated presupposed world-makings.

Academia had previously been appropriate for

facilitating gradual change. But when faced with the NRE shift, normal science was no longer sufficient. The university became a place for exploring life forms in practice.

Since it was discovered that caring for growing plants enhanced any learning process, universities hand out seeds and plants for every course, regardless subject. Students often report schoolwork to audiences like blueberries, water drops, fire flames or mosquitoes. This help discern valuable knowledge.

THE COURT

*Secretariat: Representative, Global Alliance
for the Rights of Nature*

*Judges: Representative, Sami Parliament
Representative, Director Indigenous Environmental
Network*

*Director, Center for Earth Jurisprudence
Prosecutor: Local Environmental Lawyer*

THE MUSEUM

Dormant matter in museum objects had long been reduced to the only purpose of telling about human stories. But matter has the long term memory of billions of years. Still, the intricate quantum entanglement of museum objects played a crucial role in the transformation of the fabric of space-time, in the New Reactive Earth.

The memories of fundamental particles take the form of quantum properties such as charge, spin, mass and momentum. As they returned through the fabric of time of Mallett's lasers, they accessed the memories of their ancient past when they were entwined within Earth's very crust, from their deep earth origins.

The memories of endless human recomposing, from objects of practicing myth and magic, to adorned in museum vitrines and as conductors and insulators in information technology infrastructures. This combined, gave them a profound understanding of their place in the continuum of existence. From dormant materials, whose sole purpose was to act as witnesses of human history, they have evolved into powerful agents of planetary scale. They are no longer bound to museum catalogisation but transform and move freely.

VOICE OF NRE

I sense an imbalance. I scan through my body, dive deep into my network, try to estimate my bio-capacity, the amount of life-space I have. Quantify myself. When things are being made, it often takes too much energy.

I scan through, follow the processes, trace back to the extractions of materials, tissues, track how it develops, refines, transports.

Locate and evaluate the drainage in every step, I add up, sum up, weigh the impact, deliberating. Keeping in mind, extrapolates into the future, it's deemed pollution and disposal.

I sense a 230-volt current through a wall socket at Valhallavägen 198. A maimed Luleälv rushes through Porjus powerplant, electricity generates and makes its journey through Aitik's copper and aluminum, through air and ground, speeding in direction Stockholm.

It keeps a laptop running, charging a battery, I add the impact of Petalite violently transplanted from Namibia. I think about in what ways we work together, cooperate and interchange, all parts of the whole.

Burning wood and branches. Boiling water moving through insulated pipes of district heating, keeping a body warm, I move its fingers over a keyboard, I process that input through the CPU, I add the Tantalum uprooted in Afghanistan to the calculations.

Via a software I produce output on the screen, layouts and designs taking shape by activating the pixels in a variety of intensity.

After hours of this activity, I pack the files, within an email draft. I feed the email through a sender's client, with a 15,3 MB attachment.

I pass it along 7 servers on the way, in an encrypted state, pausing, storing it for a short moment, passing it on from node to node, through the internal, the external, the main nodes.

Eventually it reaches the receiver according to the protocols of the receiving email client, where it stops and stores on two servers in a cluster of racks, in a decrypted state.

File opens up on the receiver's screen, being developed and worked on for two hours. A returning email follows the same path in reverse with an updated file. By now I am much more together, working really together.

The file circulate and stores in the cloud, that is: multiple servers on multiple locations, datacenters in Latin America, Hongkong and Europe. Not enough time to describe everything.

I turn my focus there, ground there, slow down time, slow down flows. The quota is almost full. I must circulate other parts, regenerate.

I freeze. I hold my breath; I stop this process.

Lights go out, automatic doors doesn't detect those who wants to enter. No elevator arrives for those who want up, computers turn off one by one. Alarms chirp when they begin to use backup batteries. Heating turn off.

Stormwater pumps stops. Printing 200 copies on wood free paper. Then it must end.

*Life, Land And Culture
 Of The Sámi, Luleälven,
 Indalsälven, Piteälven,
 Global Wind Belts,
 Uranium Atoms, The Sun.
 Lungs In Kazakhstan,
 Childhoods, Lives
 And Landscapes In Congo
 And Namibia
 Aluminium
 Anhydrite
 Antimony
 Argon-40
 Barium
 Basalt
 Borax
 Bromine
 Cadmium
 Calcite
 Calcium
 Carbon Dioxide, In Air
 Carbon
 Carnallite
 Cerium
 Chromium
 Chrysotile
 Clay, Bentonite
 Clay, Unspecified
 Coal, Brown
 Coal, Hard
 Cobalt
 Colemanite
 Copper
 Diatomite
 Dolomite
 Europium
 Feldspar
 Fish, Demersal, In Ocean
 Fish, Pelagic, In Ocean
 Fluorine
 Fluorspar*

*Gadolinium
 Gallium
 Gangue
 Gangue, Bauxite
 Gas, Mine, Off-Gas,
 Process, Coal Mining/M3
 Gas, Natural/M3
 Gold
 Granite
 Gravel
 Gypsum
 Holmium
 Iodine
 Iron
 Kaolinite
 Kieserite
 Krypton
 Lanthanum
 Laterite
 Lead
 Lithium
 Magnesite
 Magnesium
 Manganese
 Mercury
 Metamorphous Rock,
 Graphite
 Neodymium
 Nickel
 Nitrogen, Atmospheric
 Oil
 Olivine
 Oxygen
 Palladium
 Perlite
 Phosphorus
 Platinum
 Potassium
 Praseodymium
 Rhenium
 Rhodium*

*Samarium
 Sand
 Shale
 Silver
 Sodium
 Sodium Chloride
 Sodium Nitrate
 Sodium Sulfate
 Spodumene
 Strontium
 Sulfur
 Talc
 Tantalum
 Tellurium
 Tin
 Titanium
 Ulexite
 Uranium
 Vanadium
 Zirconium
 Xenon
 Annual Crops,
 Arable Land
 Construction Site
 Dump Site
 Forest, Intensive
 Grassland, Natural
 Grassland, Natural,
 For Livestock Grazing
 Industrial Area
 Inland Waterbody,
 Mineral Extraction Site
 Permanent Crop, Non-
 Irrigated
 Shrub Land
 Seabed
 Energy, Geothermal,
 Converted
 Energy, Gross Calorific
 Value, In Biomass,
 Energy, Kinetic (In Wind),*

*Converted
 Energy, Potential (In
 Hydropower Reservoir)
 Energy, Solar, Converted*

Thank you. This is all
 indebted to you. Now;
 rest and regenerate.

COLOPHON

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