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Cyborgs R Us: The Bio-Nano Panopticon of Injected Bodies?

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ABSTRACT

A survey and critical analysis of literatures in biotech, nanotech, and materials science can yield important insights on major threats facing humanity in a world divided largely by highly compartmentalized epistemic communities. Interdisciplinary research on the well-documented problems posed to human beings by the injectable mRNA platforms claiming to address COVID-19 medical complications reveal surprising, if not deeply troubling, new evidence of apparent fraud and deceit. Analysis presented here bolsters both the reported laboratory studies of blood samples from injected subjects and experimental work exploring the potential reasons for observed phenomena relating to electromagnetic properties exhibited in human bodies. The impetus for this cross-disciplinary study was current reports from a substantial proportion of injected subjects who emitted alphanumeric signals in the frequency range corresponding to Bluetooth communications networks. Discussion of these bizarre phenomena are framed by a wider historical context in nanotechnology as an emergent industry and by recent commentary emanating from noteworthy public figures concerning surveillance under the skin and the disappearance of civil and human rights.

Keywords: BioNano Age, Bluetooth connectivity, IoB, IoBNT, IoT, IoNT, MAC phenomenon, mRNA platforms, transhumanism

Introduction

This essay extends the cross-disciplinary study undertaken in an earlier article titled "Syllogistic Reasoning Demystifies Evidence of COVID-19 Vaccine Constituents" (Broudy & Kyrie, 2021). In that article, we addressed issues beyond the impaired reasoning that had, apparently, informed development of mRNA "platforms" (Moderna, 2020), which continue to pose as vaccines in mainstream media, and thereby in the public discourse. It was necessary, we felt, to grapple with the countless claims being made in various alternative media that these new injectable platforms were causing, beyond "Sudden Adult Death Syndrome" (Enerio, 2022), bizarre reactions resembling magnetism.

This present study has lead us to conclude that any honest and open analysis of vaccines — or any technological platform pretending to be a vaccine — must also include critical discussion of an even larger agenda at work hardly acknowledged by the mainstream gatekeepers framing and guiding polite conversation. The "vaccines" (hereafter, "platforms") are at the very center of the construction of a global

network of communications needed for the commodification of objects and bodies (Sinclair et al., 2019). The conceptual work that has long guided vaccine development over the decades has clearly given way to entirely new delivery systems of adjuvants (Cao et al., 2020), substances which are drawn today from ongoing research in nanotechnology, biotech, and materials science. The Bio-Nano Age (Bushnell, 2001), therefore, has moved from theory to practice, without the sufficient awareness and consent of a global population largely uninformed about the banking and big business (WEF, 2020, p. 10) forces financializing everything — synthetic and natural. This turn is, furthermore, entirely reasonable in a world dominated by the erroneous belief that the leading concepts of speed, security, safety and efficiency are — beyond all things — more valuable than life itself.

To ground our present analysis of the discourse and to reveal unmistakable signifiers of the Bio-Nano Age, we begin with a somewhat long reference to a key scene in a piece of cinematic art which would, very likely, never appear in theatres today. We find in this scene a newsreader of a major media company, having gone off script and telling the truth to the public, being castigated by the company's president.

You have meddled with the primal forces of nature, Mr. Beale, and I won't have it, is that clear?! You think you have merely stopped a business deal — that is not the case! The Arabs have taken billions of dollars out of this country, and now they must put it back. It is ebb and flow, tidal gravity, it is ecological balance! You are an old man who thinks in terms of nations and peoples. There are no nations! There are no peoples! There are no Russians. There are no Arabs! There are no third worlds! There is no West! There is only one holistic system of systems, one vast and immane, interwoven, interacting, multi-variate, multi-national dominion of Dollars! ... It is the international system of currency that determines the totality of life on this planet! That is the natural order of things today! That is the atomic, subatomic and galactic structure of things today! And you have meddled with the primal forces of nature, and you will atone! ...

(pause)

... We no longer live in a world of nations and ideologies, Mr. Beale. The world is a college of corporations, inexorably determined by the immutable by-laws of business. The world is a business, Mr. Beale! It has been since man crawled out of the slime, and our children, Mr. Beale, will live to see that perfect world in which there is no war and famine, oppression and brutality — one vast and ecumenical holding company, for whom all men will work to serve a common profit, in which all men will hold a share of stock, all necessities provided, all anxieties tranquilized, all boredom amused. And I have chosen you to preach this evangel, Mr. Beale.

What could this impassioned exchange between a corporate media executive and an uninitiated plebe teach us about the world today? First, it is hard to estimate the significance of the meaning of Sidney Lumet's 1976 directorial masterpiece *Network* (Chayefsky, 1976) for contemporary societies contending with the fervent evangelism emanating from the World Economic Forum — a mere child when the film first appeared in theatres. It is likely, too, just an interesting irony that the most articulate evangelist today for the world — as described to Mr. Beale — was born in the very same year of *Network*'s debut. Yuval Noah Harari, hailed by New York Times Chief European Business Correspondent as "the world's most influential historian of the future" (Harari, 2021a), scorns human meaning and purpose with the same sort of zeal that Mr. Beale's antagonist does in the film.

The film *Network* reads today as an urgent message for scholars of communication and propaganda, which may be the most important areas of research, at this moment in time, to deconstruct the processes of political and medical mystification at work around the world. The film is a mirror of the present — both a figurative and literal representation of networked communications, networks of power relations, and networks of injected biological bodies integrated into the "global central nervous system" (Broudy & Arakaki, 2020). It is no exaggeration to say that no other tyranny in human history has hung more heavily

upon humanity and its freedom and sovereignty than the present age — with its manifold forms of highly organized deception, oppression, and dispossession, "brilliantly camouflaged" (Kyrie & Broudy, 2022) under the cynical cover of altruistic medical interventions. This article considers the present messaging and tactics used by this global "business" whose true meaning is unveiled to us, like Mr. Beale in the boardroom.

A Global Network of Medicalized Population Control?

If total dispossession of natural and civil rights is the plan for humanity (Auken, 2020), an organized program of integration and agitation propaganda must work unceasingly to manage perception of the medical simulacrum maintained by the WHO, the CDC, and the FDA, and to preserve media simulations of an idealized world obscuring the empirical reality of corrupted corporate science and campaigns of censorship. Since language and all other "discursive and presentational symbols" (Langer, 1957) form the very foundation upon which meaning is negotiated, the leading symbols must be controlled and directed by these totalizing powers that be (Broudy & Kyrie, 2022).

Marx's call for workers of the world to unite to seize the means of production betrays, we contend, even more fundamental concerns shared across humanity — the natural rights of people to exercise their free will to reproduce life itself. Absent this elemental right, human beings and human purpose can be effectively undermined by the owners of the means of production. Peter Phillips recognized this and expanded on the work of C. Wright Mills in *The Power Elite* (1956) to develop a crucial critique of the new order of power in today's age of globalization. Phillips referred to these new elites as a transnational organization of "Giants" (2018) who effectively hold sway over political, social and economic orders by virtue of their control over the technological levers that bind and guide the world and its resources. In the West, as Oliver Boyd-Barrett notes, these Giants can be located in the activities of the "MICIMATT" — the military-industrial-congressional-intelligence-media-thinktank complex — the "insufferable Incubus that determines foreign policy" (2022).

In the past, this level of influence appeared largely in the guise of control over the means of production, but today that influence has advanced to unprecedented levels of control over the means of *re*-production. For years, we have seen the leading narratives and claimed imperatives evolve in public forums where the Giants issue thinly veiled threats to curb rising global populations.

While Bill Gates has long been suspected of using his foundation's investments in genetic engineering ventures and vaccine R&D to manage (or check) the fertility of population centers, we can see today industry leaders issuing bold claims about the very meaning and purpose of humanity itself. Such suspicions have likely formed because of Gates's outspoken concerns about populations, his ceaseless reproduction of the myths of over-population, and his self-appointed role as the arbiter of human reproduction. Beyond Gates, more broadly, a formula for recalibrating the value of humanity has become increasingly evident in the gambits of elites: they urge us to make good use of easy and open access to powerful vehicles of mainstream discourse, undertake a program of incubating dehumanizing propaganda that inculcates a widespread sense of self-loathing, and mesmerize human beings into serving as willing recipients of all sorts of technological updates injected or otherwise integrated into their own bodies.

Of Human Trans-formation

The world is in transition — from transformers, transgenders, transhumanists, transplantations, and transnationalism to transathletics, transient communities, and the transmission of disease by new bionano vectors.

Yuval Noah Harari, for example — the historical auger for the World Economic Forum as well as Mark Zuckerberg, Bill Gates, Barack Obama, Harvard, Stanford and many more — has suggested that unadulterated human beings will soon be sufficiently worthless to the transnational Giants that humanity will need to be radically transitioned to re-engineering (Miller, 2018). While the audacity of such a claimed necessity may appear to be on par with the bizarre antihuman world contemplated in "The Obsolete Man" of *The Twilight Zone*, Harari's assertion is not grounded in fiction but, rather, in a global social milieu where "logic is enemy and truth is a menace" (Serling, 1961). In 2016, the famed historian told the Royal Institution (2022) "the ultimate value of human beings will be just as consumers that will do nothing useful at all — but the economy needs consumers. However, you could have consumers which are not humans, which are not conscious" (Harari, 2016).

From this, we suspect machines that consume electricity and petroleum products are not part of Harari's calculus. He further described a scenario in which corporations trade with one another, managed by an algorithm, explaining that "they trade, and they make billions of dollars, and you don't need any humans". Of course, the presupposition that informs this pathological thinking has been effectively deconstructed by Wendy Brown: "... neoliberal rationality disseminates the *model of the market* to all domains and activities — even where money is not at issue — and configures human beings exhaustively as market actors, always, only, and everywhere as *homo oeconomicus*" (Brown, 2015).

The upshot, according to Harari, will be what he has described as a class of "useless people" who are "meaningless — worthless" (Harari, 2015a), with no value under a dominion of dollars, and no inherent right, under the by-laws of business, to exist. He opined in 2015b:

We don't have any answer in the Bible what to do when human beings are no longer useful to the economy. You need completely new ideologies, completely new religions, and they are likely to emerge from Silicon Valley.

The cults of Silicon Valley, moreover, Harari ordains, promise to elevate the masters of the technological universe from the status of transnational Giants to that of gods: "We are really upgrading humans into gods", he said (Harari, 2020a). He boasts that the Giants of the future will

... even go beyond God. Even if you believe in the Bible, the only thing the God of the Bible managed to create is organic beings ... Now we want to create inorganic life ... Divinity is not far enough to describe what we are trying to do ... We are much better than the God of the Bible (Harari, 2017).

Which begs the question: What will the new "better" gods of inorganic life do with us lesser organic beings?

"I think given the immense power of the technologies we are developing", Harari pronounced, "there are two scenarios only":

One scenario is that the technology will destroy humanity. I think it's less likely, but still possible. The more likely scenario is that it will change humanity in a profound way. That we will use AI and bioengineering to change Homo Sapiens and to create new kinds of beings that will be much more different from us than we are different from

Neanderthals or from chimpanzees ... (Harari, 2020b). We are probably one of the last generations of Homo Sapiens (Harari, 2018a) ... If you're not part of the revolution fast enough then you'll probably become extinct (Harari, 2015a).

Extinct? Alter Homo sapiens? Create new kinds of beings? What kinds of beings?

Maybe the most important impact of the new technologies is that they will change the very meaning of humanity, and they will change the basic rules of the game of life. For 4 billion years — that's a very long time — nothing fundamental changed in the basic rules of life. All of life, for this immense period was subject to the laws of natural selection and of organic biochemistry ... But in the coming decades, that is about to change. Science is about to replace natural selection with intelligent design ... Not the intelligent design of some God above the clouds, but our intelligent design, and the intelligent design of our clouds (Harari, 2018b).

The phrase "intelligent design" he noted, "immediately brings to the mind of many people the creationist idea that all life forms are designed by God, and sometimes people tell me 'don't use the term intelligent design'. But it is intelligent design, what we are about to see in the world, it's just not the intelligent design of the God of the Bible" (Harari, 2018c).

Whether intelligent or foolish to seek to overwrite human history by entrusting tech moguls to re-engineer biological life, social relations, and human civilization for the good of the economy is one philosophical question too far for Harari to ponder. As is the question of whether The EconomyTM rather than humanity should change when The EconomyTM no longer serves human beings. Instead, while technological design is actively marketed as "intelligent" — with the advent of artificial "intelligence", "smart" cities, "smart" cars, "smart" bombs, and "smart" phones — the wisdom of Silicon Valley's unnatural designs on humanity is taken as an article of faith. It is the dogma of the cult of technocracy as outlined by Harari. After all, how could anyone argue with the man who actually wrote the book on the Homo sapiens?

But what kind of "intelligent" design does Dr. Harari have in mind?

Now, already today we have the technical ability to start redesigning humanity ... The inorganic way, of linking humans to computers, brains to computers or even creating completely non-organic entities, artificial intelligence — perhaps even artificial consciousness — which is even a more radical change. You can say that genetic engineering is just playing with the same bits and pieces that evolution has played with for billions of years. This is something completely new — to create really inorganic entities (Harari, 2022).

New inorganic entities? Now, already today?

Now humans are developing even bigger powers than ever before. We are really acquiring divine powers of creation and destruction. We are really upgrading humans into gods. We are acquiring, for instance, the power to re-engineer life (Harari, 2020a).

That God-like power, Harari elaborated, resides not with morality nor a grasp on empirical truth but with science. "Science is not really about truth", he said, "it's about power. The real aim of science as a project—as an establishment—is not truth, it's power" (Harari, 2015b).

With the power of the scientific establishment at their disposal, Harari foresees a future in which Silicon Valley gods will relegate the human qualities of today — a soul, an identity and free will — to the scrap heap of yesterday's quaint but obscure human anomalies. The process is part of a highly organized program of planned obsolescence writ large that transitions man from organic carbon-based lifeforms to synthetic cyborgs owned in part or whole by the technocratic Giants.

The product this time will not be textiles or machines or vehicles or even weapons. The product this time will be humans themselves. We are basically learning to produce bodies and minds (Harari, 2015a).

In Harari's vision of a techtopia ruled by Silicon Valley gods, those human products will think and act not for themselves, but according to the codes of their manufacturers.

Crucial decisions in people's lives — what to study, where to work, whom to marry, whom to vote for — there is an algorithm out there that can tell you better than what you can tell yourself what to do ... And people think it can never happen. "Humans are too complicated. We have souls. We have spirits. No algorithm can ever figure out these mysterious things like the human soul or free will." But I think that this is 18th century mythology ... Now or very soon we will have the technology to do it (Harari, 2018d).

If you have a good two-way communication system directly between brains and computers, it also means you can connect several brains together, to create an interbrain net ... And nobody has any idea what this means for things like identity. Who am I, when I can access directly the brain of another person? (Harari, 2018c)

Who are we, indeed? And who are we, as nodes on a global inter-brain network, to expect the same rights that we enjoyed as natural beings endowed with personhood? Dignity, autonomy, agency, privacy ...

For the first time in history, it's possible to completely eliminate privacy", Harari told The Athens Democracy Forum, which partners with the New York Times, Microsoft, Facebook and Amazon. "It was just never possible before, and it is now. Something fundamental has changed. I mean dictators always dreamt about completely eliminating privacy: monitoring everybody all the time, and knowing ... not just everything you do, but everything you think, and everything you feel ... They could never do it because it was technically impossible. Now it's possible" (Harari, 2021a).

Now we are told categorically it is technologically possible to erase privacy? How is this so? Why is such a disruption to bodily autonomy promoted with such zeal?

Analysis of the Timeline of Possibilities

On April 14 2020, a mere 13 days after the World Health Organization declared COVID-19 a pandemic, Harari explained that, with the global response to COVID-19, we were seeing "a change in the nature of surveillance. Previously surveillance was mainly above the skin. Now it's going under the skin. Governments want to know not just where we go or who we meet — above all they want to know what is happening under our skin" (Harari, 2020c).

"This was the moment", he later added during a panel discussion with the President of Microsoft, "when everything became monitored. [It was the moment] that we agreed to be surveilled, all the time" (Harari, 2020d).

It was? We did?

Harari told *The Late Show* early in The PandemicTM, on 16 April 2020:

What's happening now, it's really a watershed in the history of surveillance. First of all, we see mass surveillance systems entering and being adopted in democratic countries, which previously resisted them. Secondly, we see the nature of surveillance changing from over the skin surveillance to under the skin surveillance (Harari, 2020e).

By "under the skin surveillance" Harari explained to BBC Hard Talk in May 2020 he meant not merely medical measurements such as temperature or heart rate. Under the skin surveillance, he stressed, would

enable governments and corporations to monitor not just what we do, but what we think and feel while we are doing it, to the extent that they would "know me better than I know myself" (Harari, 2020f).

"Once you have under the skin surveillance you can know that", he said, "because emotions and feelings are biological phenomena, just like fever." Harari added that he thought it was likely that "people could look back in 100 years and identify the coronavirus epidemic as the moment when a new regime of surveillance took over, especially surveillance under the skin. Which I think is maybe the most important development of the 21st century" (Harari, 2020f).

Is Harari some sort of Biblical prophet? What on Earth was he talking about? In April and May of 2020 citizens were still "sheltering in place" to "flatten the curve" and spare the hospital system unnecessary burdens. Or so they thought.

Nevertheless, the "watershed" in surveillance and data collection ushered in under the cover of a COVID-19 emergency, Harari has since stated on numerous occasions, has rendered human beings "hackable animals". All of which makes considerations such as a human soul, spirit, and free will redundant and anachronistic in his view.

Governments and corporations for the first time in history have the power to basically hack human beings ... Humans are now hackable animals," he observed (Harari, 2021b).

The whole idea that humans have, you know, this soul or spirit and they have free will ... that's over (Harari, 2021b).

It may seem puzzling to the casual observer why a scholar of Harari's rank would offer such bizarre claims about human beings — a category of sentient biological lifeforms he appears to belong to still. His descriptions remind us of the Chancellor of the State in the Obsolete Man episode who had pitilessly sentenced the librarian to death, but who was also ultimately judged to be a "ghost from another time" condemned to liquidation. This totalitarian warning brings us to the latest existential threat from today's technocratic order. While integration propaganda has kept populations tightly focused on medical threats and strictly medical answers in response to COVID-19, investigations in the realm of nanotechnology have shed light on the possible meanings behind some of Harari's more perplexing pronouncements.

The particularly bold assertion that COVID-19 sent surveillance under the skin, such that privacy and free will are "over", representing "the most important development of the 21st century", may perhaps be understandable in terms of what has been described as an intracorporeal network, posited to be delivered in COVID-19 vaccines.

Granted, the possibility that technocratic Giants might weaponize science to inject humanity with clandestine transhumanist platforms seems too outrageous to contemplate. A reality plucked so boldly from the annals of science fiction falls more comfortably into the realm of "conspiracy theory" than that of any serious scientific hypothesis.

And yet the fact abides that the "world's most influential historian of the future" enjoys a powerful stage from which to launch assurances to the world's technocratic Giants that the conquest of human biology, and the transformation of human beings into soulless products, is well underway: the human brain now belongs to Silicon Valley, the body to science; Homo Sapiens is all but extinct, and COVID-19 is the "watershed moment" when state surveillance breached the boundaries of the epidermis to engage the

neurological life of the mind. Life is imitating fiction on a world stage. Megalomaniacal fantasies are now the stuff of empirical reality and polity. ScienceTM is power. Power is ScienceTM. Sick is healthy. Healthy is sick. Safe is Dangerous. Separate is together. Captivity is freedom. 1984 was fiction. 2022 is real.

New Ways of Gaining "Social" Connectivity

No sooner did COVID-19 interventions go under the skin than indications of the surveillance to which Harari had referred began to appear in the public discourse. Following anecdotal observations of Bluetooth signals emanating from those injected against COVID-19, in November 2021 an international research cohort investigated these phenomena under controlled conditions (Sarlangue et al., 2021). Their study returned the rather astonishing finding that a substantial proportion of vaccinated individuals emitted alphanumeric signals in the frequency range corresponding to Bluetooth signals. The alphanumeric signals did not accord with those of known manufacturers, were "not constant in time and their appearance [was] brief". The investigators reported "a very clear prominence of signals emitted in an ambient [electromagnetically exposed] environment compared to signals emitted in an environment without electromagnetic activity". In other words, COVID "vaccine" recipients appeared to show signs of Bluetooth technology inside their bodies, which interacted with electromagnetic radiation. Surveillance under the skin?

Given the backdrop of historical pharmaceutical industry fraud (Anonymous, 2020; Llamas, 2022), the testimony of COVID "vaccine" manufacturing whistleblowers (Thacker, 2021), the existence of vaccine industry immunity from liability for harm (Knightly, 2021), dedicated global VaccineTM brand management operations (Facher, 2021; Rosen, 2022; World Bank, 2022), conflicts of interest throughout COVID policy (Beeley, 2020; Frei, 2021; Matters, 2021), regulatory capture (Kennedy, 2021), and the unequivocal Fourth Industrial / transhumanist agendas of the world's most powerful military-industrial, political and financial actors (Broudy & Kyrie, 2021; Kyrie & Broudy, 2022; Matters, 2021), such a question seems reasonable, if not imperative, to ask. Indeed, the legal system appears to be showing signs of taking such questions seriously, with an Administrative Litigation Court in Uruguay issuing a court order for the Uruguayan Government and Pfizer to provide "documentation on the composition of the vaccines, including the possible presence of 'graphene oxide' or 'nanotechnological elements'" (AFP, 2022).

Meanwhile, the underlying gaps in knowledge papered over by the scientific establishment in defense of transnational Giants have included: What has gone under the skin in the name of COVID-19? What is in the COVID-19 "vaccines", and how does that differ by batch or manufacturer? And what are the implications for human health, human societies, and humanity itself?

With researchers and practitioners around the world reporting undeclared and apparently bizarrely (bio)mechanical nano-contents in COVID-19 injections (Anonymous, 2022a; Anonymous 2022b; Botha, 2021; Campra, 2021a, 2021b, 2021c, 2022; Delgado, 2022; Ghitalla, 2021a; La Quinta Columna, 2022; Lee et al., 2022; Monteverde et al., 2022; Shelton & Gray, 2021; Young, 2021), accompanied by evidence of unidentified inorganic structures in the blood of injected individuals (Anonymous, 2022b; Botha, 2021; Ghitalla, 2021b; Koroknay, 2021; van Welbergen, 2021; Yanowitz, 2022; Young, 2021), combined with reports of apparent Bluetooth connectivity in the vaccinated (Sarlangue et al., 2021), a set of possibilities anchored in relevant scientific literatures has been proposed. In a comprehensively referenced video presentation titled "The MAC Phenomenon" investigator Mik Anderson explains that the alphanumeric sequences documented in vaccine recipients signify what are known as Media Access Control — or MAC — addresses (Anderson, 2022).

The presence of anonymous, transient and EMF-responsive MAC addresses in vaccinated people, Anderson (2022) posits, indicates the existence of an "intracorporeal network" that is designed to use Bluetooth low energy (BLE) frequencies for sending and receiving signals between a person's body and the outside world. The likely underlying hardware, he suggests, is a micro- or nano-interface, described in the scientific literature as technology that enables "communication of nano-machines inside the human skin", using "nano-networks" that are capable of facilitating "body-centric wireless communication" (Abbasi et al., 2016).

The goal of such technology, according to mainstream scholarly literatures, is to expand the Internet of Things (IoT) to an Internet of Bodies (IoB) via an "Internet of Nano-Things" (Akhtar & Purwej, 2020; Gulek, 2022). Nanothings are at the center of what has been called the real "second industrial revolution" (Khan, 2014), and revolve around materials or phenomena that exist on a nanometer (billionth of a meter) scale, spawning nanotechnology whose devices are comprised of single atoms or molecules, with novel properties and behavior such as superparamagnetism (Bao & Gupta, 2011; Chen et al., 2017; Zapotoczny & Kapusta, 2019) that are unique to their nanoscale (for reviews see Akhtar & Perwej, 2020, Arvidsson & Hansen, 2020, and Bayda et al., 2019).

Empirical Evidence of Bio-Nano-Connections

While it has not yet entered common currency, the term "Internet of NanoThings" (IoNT) (Akyildiz & Jornet, 2010) was coined in 2010 to capture the process of ongoing technical developments in "communication between nanomachines" (Suda et al., 2005) and "nanoelectromagnetics" (Rutherglen & Burke, 2008). From the very outset of this research, a leading application of the IoNT was expected to be not only networks of interconnected gadgets but "intrabody nanonetworks" (Akyildiz & Jornet, 2010).

Technologically speaking, human bodies are promising environments in which to develop nanonetworks, as nanomachines on their own "represent small devices or components that are capable of performing only very simple tasks of computation, sensing, or actuation" (Suda et al., 2005). However, "if multiple nanomachines communicate, they may cooperate and perform complex tasks such as nano-scale computing" according to computer scientists from the University of California Irvine, Suda et al., in 2005 at an annual conference on Genetic and Evolutionary Computation. Should that communication occur "by for instance, using signal molecules (e.g., ions, proteins, DNA) in an aqueous environment [such as the human body], [the nanomachines] can perform more complex computing functionality" the group explained. "With the advancement of current research in synthetic biology and in bio-nanotechnologies, it may become relatively easy in the near future to adapt existing components from biological systems (e.g., receptors, nanoscale reactions, communication molecules) to design a framework for molecular communication between nanomachines", they advised. In other words, industry and academia were already poised in 2005 to turn living biological things, such as humans, into walking wireless computer networks.

A keynote speaker at the conference, an MIT biological engineer, placed such developments in context by noting, much like Harari, that, "biology is going through a fundamental transition — from preexisting, natural, and evolving systems, to synthetic, engineered, and disposable systems. Here, I will discuss ... some of the social, political, and risk opportunities and pitfalls worth considering as we begin to systematically engineer the living world" (Endy, 2005).

In that living world in 2022, the IoB and IoNT are now expected to serve "biomedical, environmental, industrial and military" ends, as well as have applications in "other fields such as consumer electronics, life

style and home appliances" (Abbasi et al., 2016) as part of the infrastructure for "smart" cities (Khan et al., 2020). So ubiquitous is the underlying research and development that nanomachines under the skin are essentially taken as a given among electrical engineers and senior members of IEEE — the world's largest professional association representing the field of technology, an organization that produces nearly a third of the world's technical literature in electrical and computer sciences. Such pervasive industry assumptions and revelations about revolutionary nano-communications technologies are of a piece with Harari's pronouncements that the products of the future will be human beings.

Importantly for the credibility of Anderson's (2022) parallel proposals regarding a MAC phenomenon delivered in COVID-19 "vaccines", technology such as nanonetworks has been developing at "triple exponential" rates in recent decades, the Chief Scientist at NASA Langley, Dennis Bushnell, told his national security partners in 2001 (Bushnell, 2001). Nanotechnological developments including nanotags, "borgs", and brain-machine interfaces were well underway as early as 2001 and "no pixie dust", he informed his colleagues in the military-intelligence and environmental science worlds (Bushnell, 2001, 2011). During Bushnell's 2001 presentation, in which he covered the fruits of NASA's collaborations with DARPA, the CIA, the DoD and over 30 other agencies, Bushnell gave the intelligence community what he called a "heads up" that a new era would commence in 2020, ushering in a radically reconfigured technological and social landscape, which he dubbed the Bio-Nano Age.

The Bio-Nano era, Bushnell said, was set to subsist on "social disruption" and to involve the "surreptitious nano 'tagging'" of "everything/everyone" with "microwave interrogation" for "status and identification purposes". In other words, it would see the introduction of covert surveillance under the skin. Bushnell (2001) also foresaw a Bio-Nano future of weaponized viruses and "serious 'Psywar'". While empirical reality may appear to be imitating fiction since 2020, in other words, it is also approximating, very closely, the stated intentions of the national security agency tasked with "creating the future" (O'Keefe, 2002) — namely, NASA.

Boasting more than space exploration to its name, NASA administrator Sean O'Keefe told the Maxwell School of Citizenship and Public Affairs in 2002, "from medical devices to better tires, many of the products we use and experience every day have their origins in NASA technology". Sure enough, by 2021 the Internet of NanoThings had begun giving way to the Internet of BioNanoThings as foreshadowed by NASA, according to a paper posted on the Cornell University website. The internet of BioNanoThings, the authors explained, will open up "a heterogeneous network of nanoscale and biological devices ... communicating via non-conventional means ... in non-conventional environments, e.g., inside the human body." The result will be "close interaction between bio and cyber-domains," they said, enabling "intrabody continuous health monitoring" (Kuscu & Unluturk, 2021).

Based upon existing protocols for (bio)nanonetworks and intrabody monitoring (Akyildiz & Journet, 2010; Balghusoon & Mahfoudh, 2020; Cruz Alvorado & Bazán, 2019), Anderson (2022) proposes that any injectable intracorporeal networks which may have been surreptitiously deployed under COVID-19 EUA likely utilize personal devices, including mobile phones or wearable technologies, as gateways to relay data packets between a person's body and the internet. Such an arrangement would accord with the architecture for integrating intrabody networks with "off-body networks" as described in the IoNT literature (e.g. see Balasubramaniam & Kangasharju, 2013; Balghousoon & Mahfoudh, 2020; Cruz Alvorado & Bazán, 2019). See Appendix A for a selection of diagrammatic representations of anticipated Body-Centric Wireless Networks as in Figure 1.

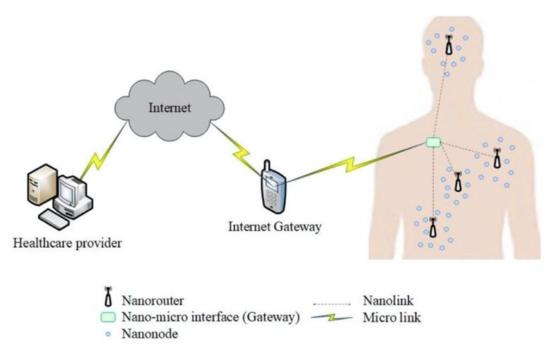


Figure 1. The IoNT architecture in the healthcare system. From A. O. Balghusoon and S. Mahfoudh, 2020, IEEE Access 8, 200724-200748. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

Candidates for injectable components of such a network, Anderson (2022) posits based on the components IoNT architecture (Akyildiz & Journet, 2010; Balghusoon & Mahfoudh, 2020; Cruz Alvarado & Bazán, 2019; Lee et al., 2015), include: a. nanodevices, also termed nanonodes (Cruz Alvarado & Bazán, 2019), a broad category that encompasses technology such as nanosensors (Balasubramaniam & Kangasharju, 2013; Khan et al., 2020; Lee et al., 2015), which can circulate in blood vessels (Figure 5) and harvest energy from the bloodstream or heartbeat (Balghousoon & Mahfoudh, 2020), and/or cross the blood brain barrier to potentially read and transmit neural activity (Taylor, 2021), injectable and "single cell" nanoradios (Burke & Rutherglen, 2010; Dolev & Narayanan, 2019), nanowires (Dambri et al., 2020), nanoantennae (Akyildiz & Journet, 2010; Lee et al., 2015), magnoelectric nanorobots (Betal et al., 2018) and neural-nanorobots, comprising endoneurobots, gliabots, and synaptobots that are capable of interfacing with individual neurons and synapses to create a "human brain/cloud interface" (Martins et al., 2019), among other

nanotechnologies; b. nanorouters, which "act as aggregators of information coming from nanonodes" according to IoNT literature (Cruz Alvarado & Bazán, 2019). See Balghousoon and Mahfoudh (2020) for a review of over 20 nanorouting protocols, including for intrabody applications; and, c. nanointerfaces or gateways, defined by Balghusoon and Mahfoudh (2020) as a "complex hybrid device that integrates the nano world with the external world".

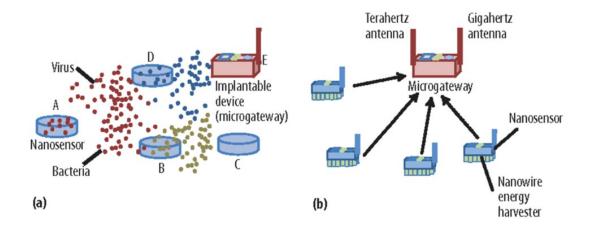


Figure 2. Examples of molecular (a) and (b) nanonetworks to a microgateway. From S. Balasubramaniam and J. Kangasbarju (2013), Realizing the internet of nanothings: challenges, solutions, and applications. *Computer*, 46, 62-68. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

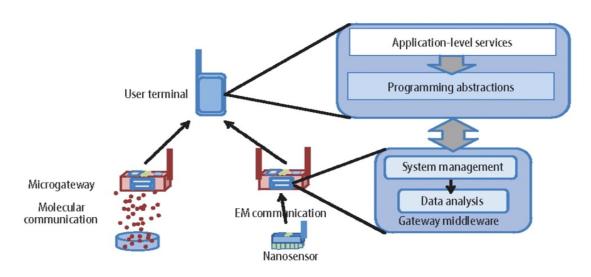


Figure 3. IoNT middleware system architecture. Microgateways contain system management and data analysis modules. On the user end, programing abstractions link to the microgateway middleware, and application services use data from the nanonetworks. The image and preceding text is from S. Balasubramaniam and J. Kangasbarju (2013), Realizing the internet of nanothings: challenges, solutions, and applications. *Computer*, 46, 62-68. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

Balasubramaniam and Kangasharju (2013), for example, describe the following nanocomponents of an intrabody wireless nanonetwork architecture (see Figures 2 and 3) capable of connecting to the outside world, utilizing both bodily molecular and electromagnetic communication: nanosensors, implantable microgateways, external microgateways, energy-harvesting nanowires, and mobile phones. Inspired by the promise of "nanomaterials, such as graphene," Akyildiz et al. (2015) detail the IoBNT paradigm shift in "concealable and non-intrusive" networked communications and computing which have allowed for the development of "techniques for the exchange of information, interaction, and networking within the biochemical domain, while enabling an interface to the electrical domain of the Internet".

To illustrate how bodily molecular and electromagnetic communication might co-ordinate inside the human body, Khan et al. (2020) depict four arrangements pertinent to "Body Area Networks" with "applications in smart cities" in an image titled "Molecular communication paradigms. (a) Diffusion-based molecular communication. (b) Wired active molecular communication using a microtubule. (c) Bacteria-based wireless molecular communication. (d) Catalytic nanorods in hydrogen peroxide solution without and with applying a magnetic field (A) and (B), respectively" (see Khan et al., 2020, p.7).

The image displays three scenarios showing different methods of molecular communication between a "transmitter nanomachine" responsible for "emission", and a "receiver nanomachine" responsible for "reception", all of which enable intrabody functions such as drug delivery and internal physiological monitoring. In one scenario molecules are shown diffusing from the transmitter nanomachine to the receiver nanomachine via a "fluid medium" as explained in the text. In another, molecules are shown moving from transmitter to receiver nanomachines inside a "microtubule" via a "molecular motor", and in a third bacteria capable of acting as "carriers of nanorobots" are shown moving from the transmitter to the receiver using "flagellum for propulsion", with "DNA based information" inside.

Broadening the scope of possibilities to nanorobots that move autonomously inside the body, a fourth scenario depicts two "catalytic nanorods" in which one rod moves randomly in the absence of a magnetic field, while the other travels in a specific direction under the influence of magnetism. Nanorods such as these have been dubbed "microjets and microrockets" (Mei et al., 2008) in that they can be "wirelessly and remotely controlled" using UV and near infrared radiation, ultrasound and magnetic fields, enabling them to achieve "controlled navigation to targeted locations" inside the body, including "many hard-to-reach tissue locations" (Zha et al., 2018). At their destinations the nanorods can deliver drug payloads, kill unwanted cells and act as "microdrillers" capable of "penetrat[ing] deeply into cells", including achieving "remarkably high average velocities at over 158,000 body lengths per second, providing a strong thrust to deeply penetrate and deform tissues" (Zha et al., 2018).

Canovas-Carrasco et al. (2018) describe a Body Area Nano-network in the hand (Figure 4), consisting of nanorouters and nanonodes in blood vessels, which communicate every 52 minutes, harvest energy from the bloodstream, and send and receive signals via the TeraHertz band. Each nanonode consists of (i) a nanoprocessor, (ii) memory nanomodules (RAM and ROM memories), (iii) a graphene radiocommunication nanosystem, (iv) nanosensors and (v) an energy nanogenerator.

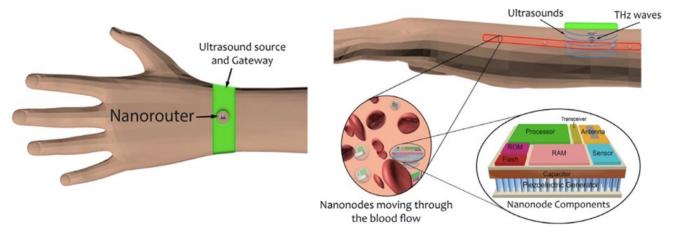


Figure 4. Hierarchical BANN architecture. Image from Figure 1 of S. Canovas-Carrasco, A. J. Garcia-Sanchez, and J. Garcia-Haro (2018), A nanoscale communication network scheme and energy model for a human hand scenario. *Nano Communication Networks*, 15, 17-27. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

Simply put, what is not in dispute is whether the technology, protocols, industry intentions, and government plans to connect human bodies to the internet, and deploy nanorobots inside the body, using a combination of nanotechnology and "smart" technology exist. It is patently obvious that they do. The only open questions are whether that project is, at present, covertly underway, if so how, and whether this is what Harari meant when he said that future generations would look back on "the coronavirus epidemic as the moment when a new regime of surveillance took over, especially surveillance under the skin" (Harari, 2020c). Should Harari's statement refer to the mass injection of intrabody components for a Bio-Nano Internet of Things — a reasonable hypothesis based on the IoBNT literatures — calling that "the most important development of the 21st century" (Harari, 2020c) would make sense.

Regardless, if we are to navigate the oncoming Internet of Bodies and Internet of Bio-Nano Things with our ethics and morality, our bodies and minds, and our societies and humanity intact, research questions such as the following must be asked and answered according to the norms of a science that pursues truth: Was Pablo Campra right in concluding that he found nanorouters in COVID-19 vaccines? Can that finding be reliably replicated by other laboratories? What about other reports of similar findings across nations (Anonymous, 2022a; Anonymous 2022b; Botha, 2021; Campra, 2021a, 2021b, 2021c, 2022; Delgado, 2022; Ghitalla, 2021a; La Quinta Columna, 2022; Lee et al., 2022; Monteverde et al., 2022; Shelton & Gray, 2021; Young, 2021), such as Australian investigators who documented moving structures in COVID vaccine vials, which appeared to light up when nearby mobile phones were turned on, and dimmed again when the mobile phones were turned off (Zeee, 2022)?

If human beings are no more than subjects and potential products in a vast experiment of networked communications for a global market, it is certainly reasonable to be reminded each day by the Gospel of Global Capital to re-charge the batteries of our new synthetic operating systems (Figure 6).

Radical though the reconfiguration of our understanding of what is possible must be, we are forced either to make that psychological and conceptual leap, in line with the "triple exponential" (Bushnell, 2001) speed of technological change, or let self-appointed Silicon Valley gods try to reshape us in their artificially "intelligent" and soulless image.

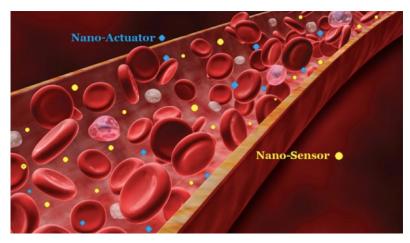


Figure 5. Image from K. Yang, D. Bi, Y. Deng, R. Zhang, M. M. U. Rahman, N. A. Ali, M. A. Imran, J. M. Jornet, Q. H. Abbasi, and A. Alomainy (2020). A comprehensive survey on hybrid communication in context of molecular communication and terahertz communication for body-centric nanonetwork. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 6(2), 107-133. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.



Figure 6. Photograph: Amer Ghazzal/Rex/Shutterstock. Retrieved from https://www.shutterstock.com/editorial/image-editorial/pedestrians-walk-past-covid-booster-poster-campaign-12789515d, July 8, 2022.

Unfazed by the Annihilation of Humankind?

None of the facts we have presented here should surprise readers. The warnings of an approaching technocratic order in which hegemonic social control is achieved over everything and everyone at all times have been explicitly articulated over decades from the highest realms of influence. Most notably in the postwar era, President Dwight D. Eisenhower spoke in the plainest terms of a technocratic dystopia he observed in the context of an emerging "military industrial complex" (Broudy & Arakaki, 2020), wielding massive unwarranted influence. "We must also be alert," he cautioned, to the danger that "public policy itself could become captive to a scientific technological elite" (Eisenhower, 1961).

Aldous Huxley had forewarned the world four years prior to Eisenhower in an interview with journalist Mike Wallace. Huxley's description of a coming era foretells a time when communications controlled by the technocratic Giants would co-opt our capacity to reason and, like a Trojan Horse, open our minds to consent to attacks on our human rights, agency, and sovereignty. Huxley begins with the maxim, elaborated by Walter Lippmann in the 1920s, that officials must "manufacture [the] consent" (1922) of the people they lead:

... if you want to preserve your power indefinitely, you have to get the consent of the ruled, and this they will do partly by drugs as I foresaw in Brave New World, partly by these new techniques of propaganda (1958).

Earlier in the decade, Bertrand Russell lectured on "Scientific Technique in Oligarchy" and discussed a time in the future when a technocratic elite would deploy new tools and techniques to acquire wider control over societies. An effectively propagandized public is central to societal consent to the technological and pharmacological interventions foisted upon citizens:

Diet, injections, and injunctions will combine, from a very early age, to produce the sort of character and the sort of beliefs that the authorities consider desirable, and any serious criticism of the powers that be will become psychologically impossible. Even if all are miserable, all will believe themselves happy, because the government will tell them that they are so (Russell, 1951, p. 50).

The propaganda that has worked to normalize the convergence of human beings and technological innovations has persisted for decades. Maybe the most popular network series that entertained audiences and normalized the possibilities of human-machine convergence was the 1970s Six Million Dollar Man. The implicit and explicit messaging of a global trans-human agenda has since continued unabated and has moved from science fiction to scientific facts backed by government funding for the new technocratic normal. Recall Elon Musk's 2019 claim that human beings are already cyborgs (CNBC, 2019).

Conclusions

What we have synthesized in this survey of scientific literature, experimental data, and discourse extends our understanding of the connections and discoveries outlined in our analysis of magnetism (Broudy & Kyrie, 2021) exhibited in people injected with the experimental platforms. We are reminded of Harari's admission that scientific pursuits are, foremost, not about acquiring empirical truth about the world, but about acquiring worldly power. To "trust the ScienceTM" is to trust its agendas and outcomes set by power-hungry people. If we can take care to ponder how political power "must involve itself in the [process of capital] accumulation [by] either mystify[ing] its policies [and] calling them something they are not, or ... try[ing] to conceal them (O'Conner, 2002), as well as how the public must be kept in relative ignorance of

weaponizable scientific research (Miller, 2018), we can then begin to see the actual reasons behind the bionano invasions of human bodies and the proclamations emanating from the Scientific EstablishmentTM.

The Bio-Nano Age demands the financialization and commodification of all biological agents. All levers of power must, therefore, work to manage the human inventory at all available levels of control. It may seem, at present, that human beings are losing the struggle against the dehumanizing forces of anti-human transhumanist tech Giants. But Yuval Harari's grandiose rhetoric can also signify desperation. The antisocial global transhumanist movement, we suggest, is certain to annihilate itself and its adherents. The movement itself reveals how it is determined to fall into the pit it has dug in which to bury others. It appears to be fully blind to its own unwillingness to account for the full scope of human creativity, versatility, adaptability, and collective will to face and surmount threats. When power so intoxicates itself that it abandons rational thinking, morality, and empathy, it embarks on a malignant self-destructive trajectory.

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Appendix A: Diagrams of Body-Centric Wireless Networks in an IoBNT

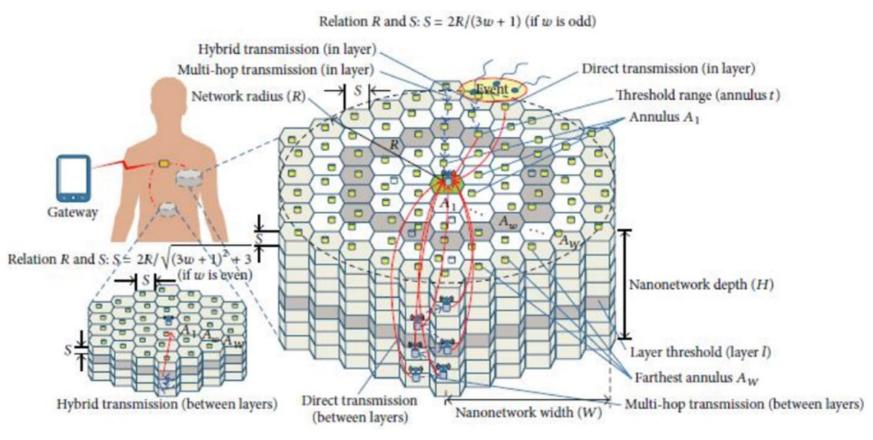


Figure 7. This is Figure 2 titled: "Cylindrical shape 3D hexagonal pole." It is taken from K. Yang, et al. (2020), A comprehensive survey on hybrid communication in context of molecular communication and terahertz communication for body-centric nanonetwork, IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 6(2), 107-133. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

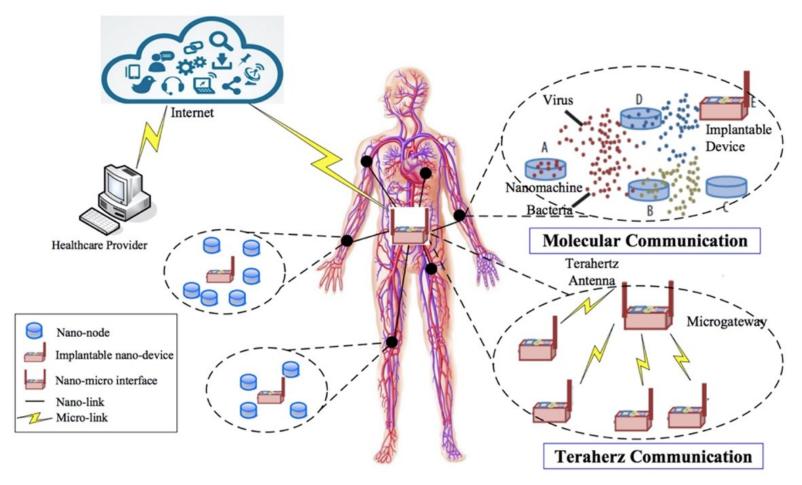


Figure 8. This is Figure 14, "The sketch of the proposed nano-communication network," also from Yang, et al. (2020). Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

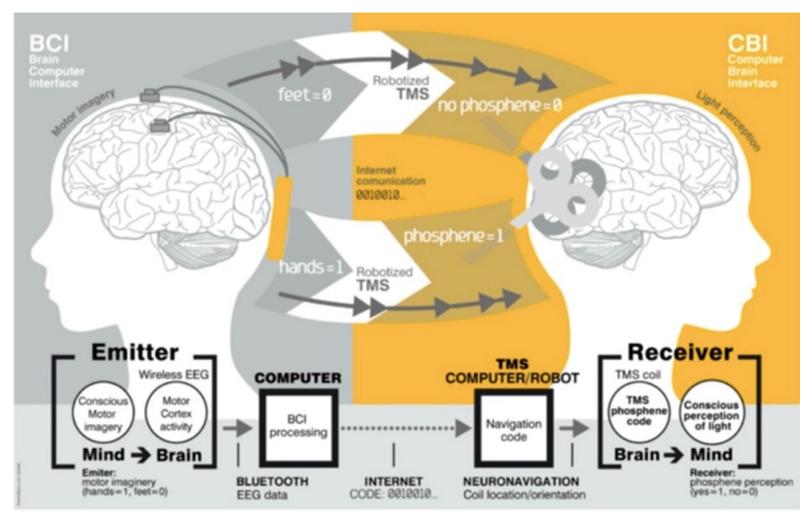


Figure 9. This is Figure 2 from Martins et al. (2019), Human brain/cloud interface, *Frontiers in Neuroscience*, 13, Article 112. https://doi.org/10.3389/fnins.2019.00112 Reissued here under the terms of the Creative Commons Attribution License (CC BY) as permitted by the journal.

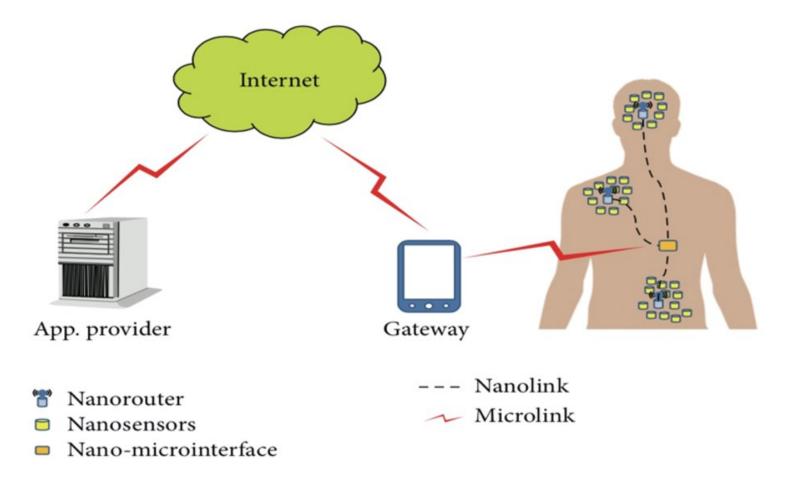


Figure 10. This is Figure 1 from Lee et al. (2015), Design of wireless nanosensor networks for intrabody application, *International Journal of Distributed Sensor Networks*, 11(2), Article number 176761. http://csc.columbusstate.edu/lee/publications/IJDSN_176761-2015.pdf. Reissued here under the terms of the Creative Commons Attribution License (CC BY) which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

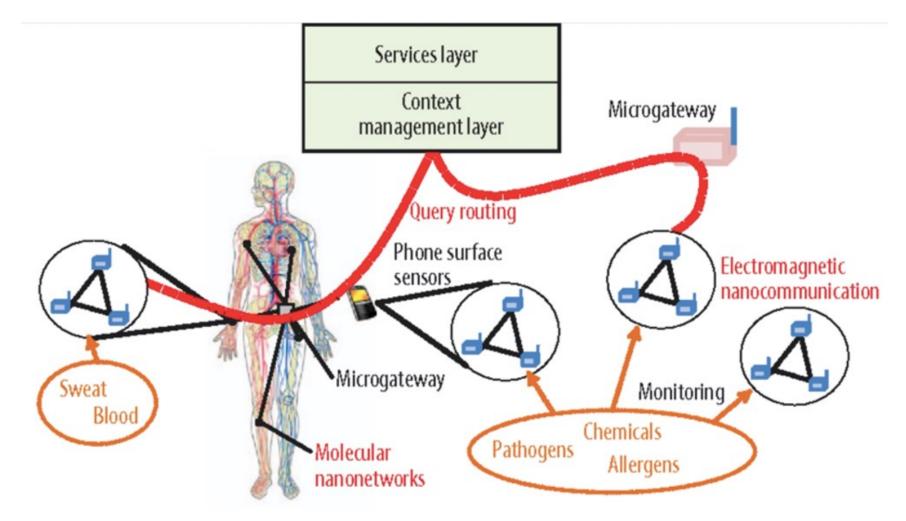


Figure 11. This is Figure 1 titled: "The Internet of Nano Things. The envisioned IoNT includes underlying nanoscale networks connecting a multitude of nanosensors, devices that interact with the nanonetworks and process this information in a distributed manner, and context and service management systems." From S. Balasubramaniam and J. Kangasbarju (2013), Realizing the internet of nano-things: challenges, solutions, and applications. *Computer*, 46, 62-68. Reissued in compliance with the Creative Commons Attribution 4.0 License https://creativecommons.org/licenses/by/4.0/ pertaining to that work.

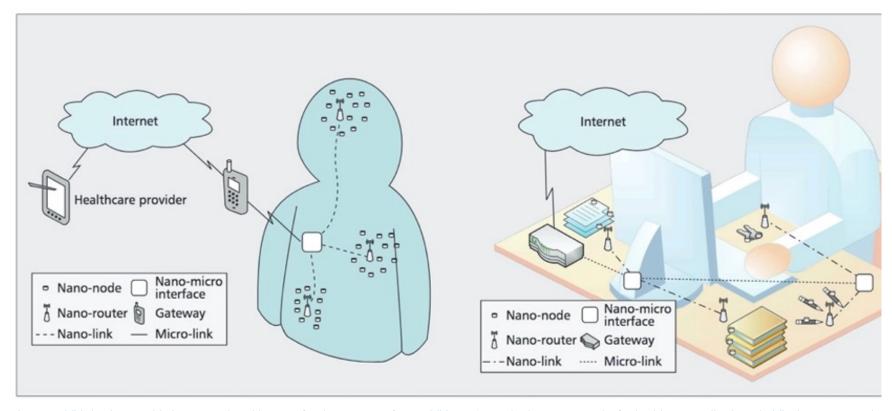


Figure 12. This is Figure 1 titled: "Network architecture for the Internet of Nano Things: a) Intrabody nanonetworks for healthcare applications; b) The interconnected office." From Akyildiz and Jornet (2010), The internet of nano-things, IEEE Wireless Communications, 17(6), 58-63.

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