

# Endless Lifespan by Advanced Technology

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## ABSTRACT

We know every human has a fixed life span. nobody on the entire earth can achieve immortality. Immortality means life which will have no end. Question is, whether a human can be immortal. Science and scientist are trying to find out the possible ways of making human immortal. Most of us have heard about the Egyptian civilization. Egyptian people believed in the concept that one day they will come in life. That's why after their death, people buried with other articles believing when they will come back, they will be required those things. Question is, will a human be immortal. Advancements in technology shows positive sign of achieving this impossibility. different aspects that by this fashion human will have a triumph over the assorted variety of diseases. Now with the advancement in technology shows that physical immortality will no more be a dream. It is going to be achieved in within the time period of 30-50 years. Blue cryobiology could be a combined technology of natural philosophy and blue brain technology. This technology goes to be a lifesaving to whom we tend to love and wish to ascertain him alive.

## 1. INTRODUCTION

Technological immortality by artificial intelligence is of the manner of achieving immortality. This is a future technology. In upcoming 50 to 60 years, this dream will not be a dream. It is a technique under which human body is freezes at very the low-temperature. The freezing point may be between at  $-196^{\circ}\text{C}$  or  $-320.8^{\circ}\text{F}$  or  $77.1\text{K}$ . Cryonics is regarded as a philosophy inside the mainstream scientific community. It is a kind of non-believer science and its exercising is quackery.

This procedure can begin only after the clinical death of a person. Cryonic procedure begin within the minutes of death of a person. After preserving the body process of storing information from a dead person will be initiated with the help of blue brain technology. Blue Brain Technology is a process of storing information. Both techniques will be a base of achieving immortality in future. Don't you think, it will an amazing reality that make the use of intelligence of human brain in the best way? Currently this technology seems to be just like a sci-fi movies thought. Another question is, can we get a person brain if that person dies. Certainly by using this technology, in future we can talk to a person who is not alive. ELBAT is first going to save the information of a human brain with the help of blue gene technology.as after death of a person brain can not retain its information.so it will be necessary to store the information of human brain.

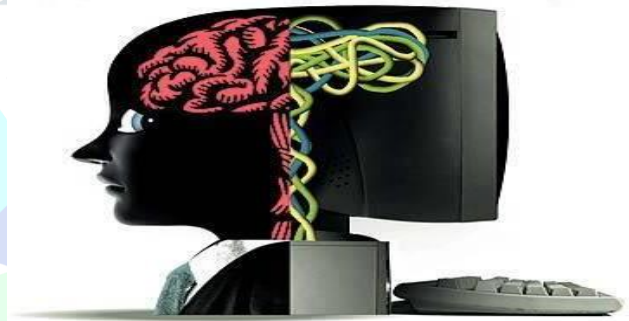


Fig 1.1 Endless lifespan by advanced technology

### Technology Data Conversion

## 2. WORKING OF BLUEBRAIN TECHNOLOGY

To understand entire technology, initial we've to know the practicality of Blue brain technology.

There is a technique known as knowledge acquisition wherever by exploitation neuroLucida package that runs on windows digital computer.for the construction of 3D model of human brain, slices of human brain are being used.

## 3. NEED OF BLUE BRAIN (VIRTUAL BRAIN)

Now the world is very an awful lot developed due to the intelligence we have that is an inborn first-rate and can't be made. Few people inside the global have such satisfactory and because of it, they could suppose as much as a stage or preferred which others cannot do. There is a need of such an intelligence

and sensible brain to the human society however the intelligence gets lost after the dying of the frame and digital mind is the answer for all these.

Everyone is busy in their lives that they've the issue in remembering the events like historic facts, critical dates and much more. Availing a machine known as the virtual mind is a complete answer for all these troubles and relaxes the people with none burden.

The Blue Brain Project has the primary objective of reconstructing the mammalian brain. By reverse engineering.

**3.1 Functioning of a Brain**

The frightened gadget is one of the complicatedly prepared electron mechanisms and it's far like a miracle due to the reality we can not see it however it is miles jogging via electric pulses in our body. Even the engineers aren't able to make the circuit forums and gadgets as correct because the worried device. The three simple features of the mind are:

- ❖ Sensory input
- ❖ Integration
- ❖ Motor input

1. Sensory input: When you maintain the subjects into your brain through senses or from your surrounding environment

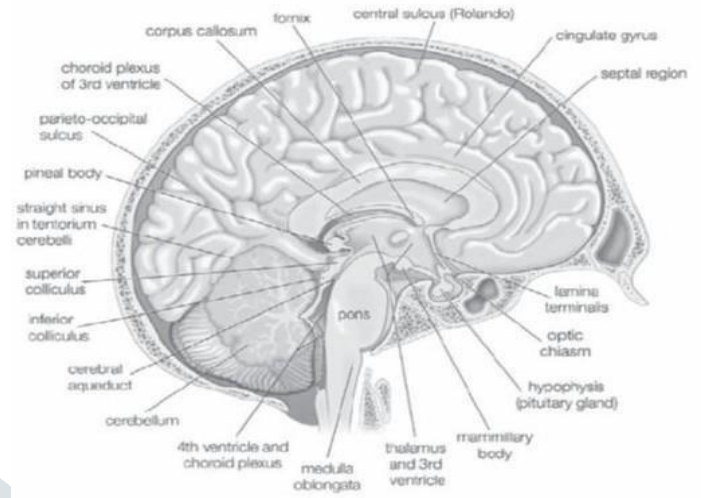


referred to as as sensory input. For example, in case you see anything, touch a warm ground or bloodless floor then the statistics or facts or message is exceeded on your brain thru your sensory cells also called as neurons.

2. Integration: Integration is nothing however the interpretation or explanation of all the topics that we feel, taste with our sensory cells the so-known as neurons into the output that the frame recognizes. This way is accomplished in the mind wherein many neurons participate for understanding the modern nation of affairs environment.

3. Motor Output: If once our mind has the purpose of all of the matters that we learned via our experience then it sends a proper away message through the neurons to the effective gland cells or muscle cells which paintings to reply to a request and act upon

the environment. The example of that is our hearing, smelling etc.



**Fig 3.1 Human Brain Image**

**4. ARCHITECTURE OF BLUE GENE**

BlueGene/L is made up of using machine-on-a-chip generation wherein all functions of a node (except for fundamental memory) are included onto one application-particular microcircuit (ASIC).

**5. Methodology of Endless Lifespan by Advanced Technology**

In essence, there are four more bodily functions that may be exploited to supply cryogenic temperatures and environments: heat transfer, evaporative cooling, and fast expansion cooling (Joule-Thompson impact) and adiabatic demagnetization. The two main ones are widely known in phrases of normal experience. The 0.33 is a smaller documented amount, but is generally used in ordinary refrigeration and air conditioning units, in addition to cryogenic packages. The fourth process is often used in cryogenic packages and provides a way to approach temperature.

Heat conduction is known to all. When the bodies are tuned, heat flows from the upper temperature body to a lower temperature frame. Conduction is a phenomenon that can happen between any sort of material, be it a gas, liquid, or solid, and is essential for creating cryogenic environments and temperatures. The samples might, for instance, be chilled to cryogenic temperatures by submerging them directly in a cryogenic liquid or by using a cryogenic atmosphere cooled by cryogenic cooling. In both cases, the

sample is cooled with the help of heat conduction to its colder surroundings.

The second body system with cryogenic programs is evaporation cooling, which occurs thanks to the fact that atoms or molecules have less power while in the liquid country than in the vapor or gas country. When a liquid evaporates, the atoms or molecules in the soil acquire enough energy from the surrounding liquid to travel to the gaseous nation. The last liquid has an extraordinarily lower power, so its temperature drops. The evaporation technique is used to lower the temperature of a liquid. By continually pumping atoms or molecules out from the liquid, the temperature of the liquid can be reduced in cryogenics, allowing the remaining liquid to cool to the required temperature as a result of evaporation. Once the desired temperature is reached, the pumping is maintained at a reduced level to preserve the temperature decrease.

The third way makes use of the Joule-Thompson effect and presents how to cool gases. The impact of Joule-Thompson includes cooling a pressurized gas by rapidly expanding its volume or, equivalently, developing a sudden fall from stress. The effect was discovered in 1852 through the use of James P. The successful liquefaction of hydrogen and helium depended on Joule and Kelvin.

Blue Brain Technology creates a synthetic mind, which is not really the herbal brain, however, it can act because the mind. It can involve, like the mind, making decisions backed by experience beyond, and answering because the natural brain can do it. It is viable through the use of an extremely good computer, with a huge garage capacity, electricity processing and an interface between the human mind and this synthetic one. It will extract the knowledge of dead humans that can be used in the future after revival of the physical body.

## 6. HOW ELBAT WILL WORK

The cryogenic process is just a miracle that is believed to be the process of cheating with death, people believe that one day they will return to life, when science will have the answer to those things that generally kill humans. Currently, it is the simplest crime to freeze a person when they have just been declared dead. The freezing process should begin as soon as the patient dies to avoid mental damage, with canters currently in Russia, the United States and Portugal.

In the system, the body is cooled in an ice bath to gradually reduce its temperature bit by bit.

Experts then drain the blood and update it with an anti-freeze fluid to forestall dangerous ice crystals forming within the frame.

Cryonicists argue that so long as brain structure remains intact, there's no fundamental barrier, given our current know-how of

physical law, to improving its facts content. Cryonics proponents go similarly than the mainstream consensus in pronouncing that the mind does no longer ought to be constantly lively to survive or keep reminiscence.

The cryonics argument that death does now not occur so long as mind structure stays intact and the statistics is theoretically readable has received some mainstream scientific discussion within the context of the ethical idea of mind demise and organ donation.

Cryonics requires unknown destiny generation to revive or regenerate tissue this is often diseased, damaged, or missing. Brain repairs especially would require analysis on the molecular level. This far-future technology is usually assumed to be Nano medicine based totally on molecular nanotechnology. Biological repair methods or thoughts importing have additionally been proposed.

Those who believe that revival may sooner or later be possible generally look within the direction of presently non-existent bioengineering, molecular nanotechnology, or Nano medicine as key technologies. Revival would require repairing harm from lack of oxygen, cry protectant toxicity, thermal stress (fracturing), freezing in tissues that don't successfully vitrify, within the end observed via reversing the explanation for death. In many cases enormous tissue regeneration might be necessary.

After cryonics method will get completed, from the frozen brain data are going to be extracted with the assistance of blue digital brain technology (Blue Brain Technology)

## 7. WHAT'S THE CHANCES OF SUCCESS

Many visionary scientists think that by combining Blue Brain Technology and body preservation technique of Cryonics, in future human preserved body can be brought back to life.

Some scientists have faith that this technique is useless. The way body is preserving can not be used again in future. There are a lot of flaws in the body preservation technique.

Some of the Christians priests have declared it as unethical practice. Also warned that this is against the God's will and nature.

They also say that this technology is just to make human fools.

## 8. HOW MUCH DOES IT COST?

Cryonics is based on the evidence of rising technologies which may be in improvement today. This includes nanotechnology, which involves controlling specific atoms or molecules.



consider will within the end permit mankind to construct or repair surely any bodily object, consisting of human cells and biological tissue.

Now a days it is a very costly technology. Even for the preservation of the body has a lot of costing.

maintenance method of any human frame remains very costly, but are often in destiny. This generation seems to be available at very low cost.

Also costing of making virtual brain with the assist of (Blue Brain Technology) is likewise very excessive. If costing of both generation combines, then it'll be a really big investment for any human. This technology still a long way from folk . Even in near destiny it'll have an out sized cost.

## 9. OBSTACLES IN SUCCESS

### Preservation Damage:-

Current preservation technique itself a threat.as Ice crystal may create a problem in the normal functioning of the organ. Ice crystal can damage organs. If it happens then the organs can not be reused.Large vitrified organs have a bent to extend fractures at some point of cooling, a hassle worsened by the large tissue loads and really low temperatures of cryonics.As right now there is any standard guidelines for the preservation of the human body.

### Revival:-

Reactivation would require the repair of damage due to loss of oxygen, cryoprotective toxicity, thermal stress (fracture), freezing in tissues that do not vitrify efficiently, eventually observed to reverse the objective of death. In many cases, a large tissue regeneration may be necessary.

Revival of organs would certainly be a big problem in the future.

### Legal issues:-

Historically, somebody had very little management over however his body was treated when the loss of life, since religion had jurisdiction over the ultimate destiny of his body. However, laic courts began to exercise jurisdiction over the framework and use discretion within the wear and tear of the wants of the deceased. Most nations de jure treat preserved persons as deceased persons due to legal pointers that forbid vitrifying a private WHO is medically alive. In France, cryobiology isn't thought-about a criminal mode of plot elimination; solely burials, cremations and formal donations to technological data ar allowed. However, bodies may be de jure sent to totally different nations for cryobiology physical change.

## 10. MORAL AND ETHICAL QUESTIONS

Now there is a very big question on this technology.

Ethical question is to brought back the dead into life, will be useful for human civilization. Currently the whole world is already over populated, what will happen if a large number of dead people is going to get a new life. What type of impact will this technology have on the population?

As we all know that death is a natural process, every human life has end point that depends on the body strength of the human body. Human is a social animal. Human lives with their love-ones, suppose one day one of the dead is brought back to life, what will be felt by him/her.as he/she will not find his/her relative.also it will be very difficult to cop-up with the present society of that time and civilization.at this time he/she will feel loneliness. Socially there may be a possibility of boycotting by the people of that time. Such a person who will be brought back to life by using ELBAT will not find themselves suitable of that time.

Isolation, loneliness, melancholy and illness could again make them dead.

Ethically, in present time, It cannot be defined what would be the impact of this technology on the people of that time.

## 11. CONCLUSION

We know that, there is a big loss of the society, if society losses intelligent people like Isaac Newton, Albert Einstein, Leonardo da Vinci and many others.as we believe that their thoughts are very useful for the human civilization.so by Using ELBAT technology,It will be beneficial to save lots of the sensible person's mind and use its IQ in research even after his/her death.This generation will progress closer to constructing thinking machines (bottom up approach). Technological immortality by artificial intelligence Technology would be capable of brought back those humans which could be useful for the society

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