

The Voice of the future



Models of the future



Model 1. Climate

- + Climate conservation is provided by innovative technologies in AI and genetic engineering



The situation until today & Trends

- + global climate change of anthropogenic origin;
- + the rejection of carbon-based energy sources and the transition to renewable and alternative

Problems & Threats

global
warming

desertification

eutrophication

greenhouse
gases

deforestation

thinning of the
ozone shield

extermination
of species

population
growth

Perspectives & Decisions

settlement the moral
and ethical issues of
AI and genetic
engineering

rational use of
production and
agricultural resources
due to AI control

adoption and
employment of
atmospheric methane

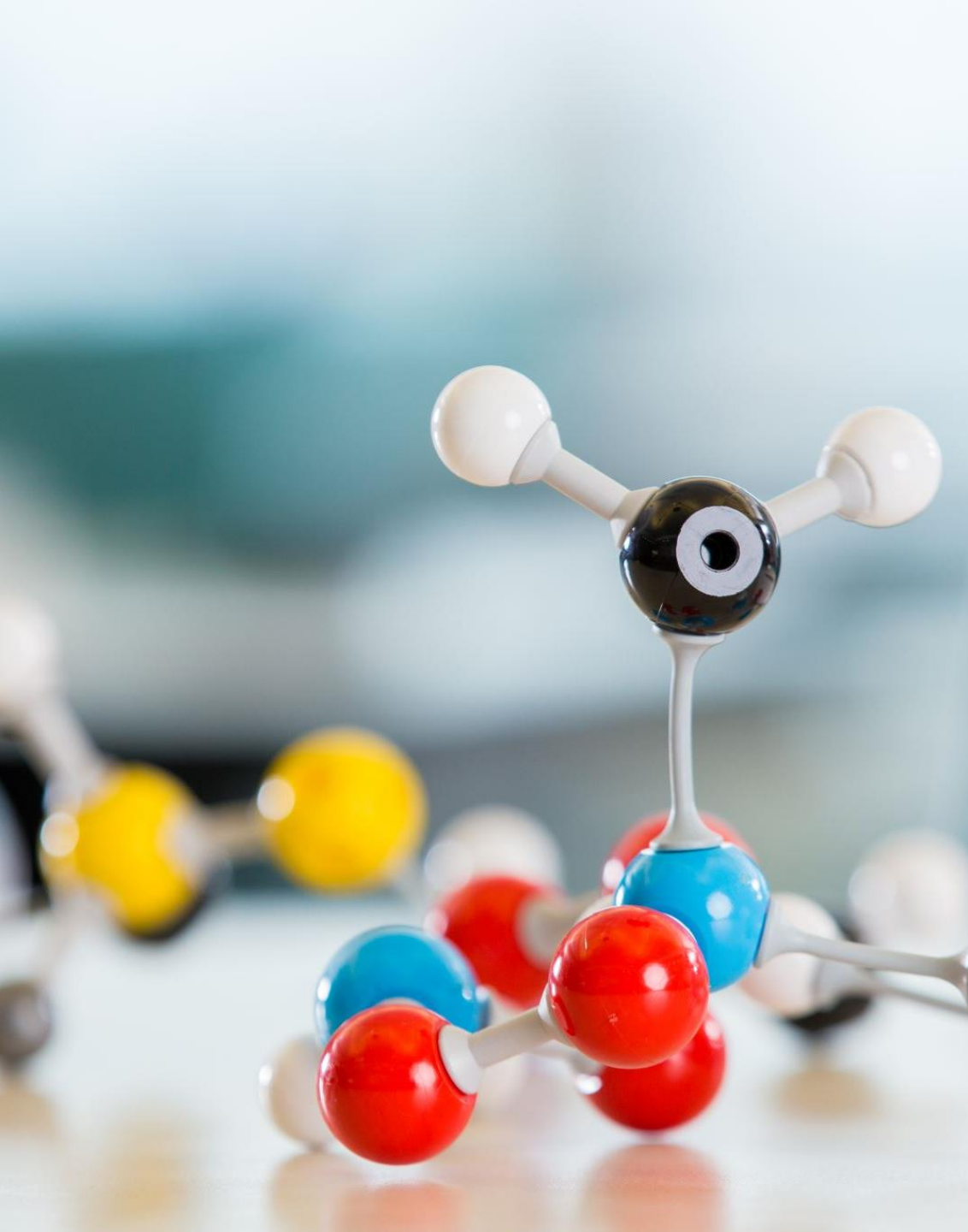
creation of new
biological chains that
balance the climate

creation of genetic
parks revived from
the DNA of extincted
animals and plants



Practical evidence

- + the average global temperature directly depends on the concentration of greenhouse gases in the Earth's atmosphere;
 - + since the beginning of the industrial era, the concentration of greenhouse gases has constantly been increasing, and with it, the global average temperature is growing;
 - + one of the leading greenhouse gases in the Earth's atmosphere is carbon dioxide, a product of burning fossil fuels
-
- + According to the UN report <https://www.un.org/ru/sections/issues-depth/climate-change/index.html>
 - + Source: World Data Center for Greenhouse Gases (WDCGG) <https://gaw.kishou.go.jp/>
 - + A. L. Gusev, I. I. Zasursky. The concept of utilization of atmospheric methane for the preservation of the Earth's Climate.//Alternative Energy and Ecology (ISJAEE), Preprint, 2020.
 - + T. N. Veziroglu. MOBILE AIRBORNE AIR PURIFICATION STATION. ince the beginning of the industrial era, the concentration of greenhouse gases has constantly been increasing, and with it, the global average temperature is growing



Model 2. Vector-gradient model



Concept

- + Overcoming the problem of the high mass of rocket modules makes it easier for a person to go into space

The situation until today & Trends



-To ensure the inflow of finance in the field of space exploration



-to achieve consolidation in the search for extraterrestrial life and methods of energy extraction

Problems and threats

The development of new types of energy, including Dark energy

lightening the mass of rockets

overcoming moral and ethical issues

Perspectives, decisions



Finding creatures in space that can absorb cosmic energy



developing technologies based on their abilities



creating technical analogues of biological machines




stimulation of developers of lightweight launch vehicles



introduction to the school course of sciences from the cycle of astrobiology and astrophysics

Practical evidence


In the scientific world community, the prevailing opinion is that the presence of TE is a fact



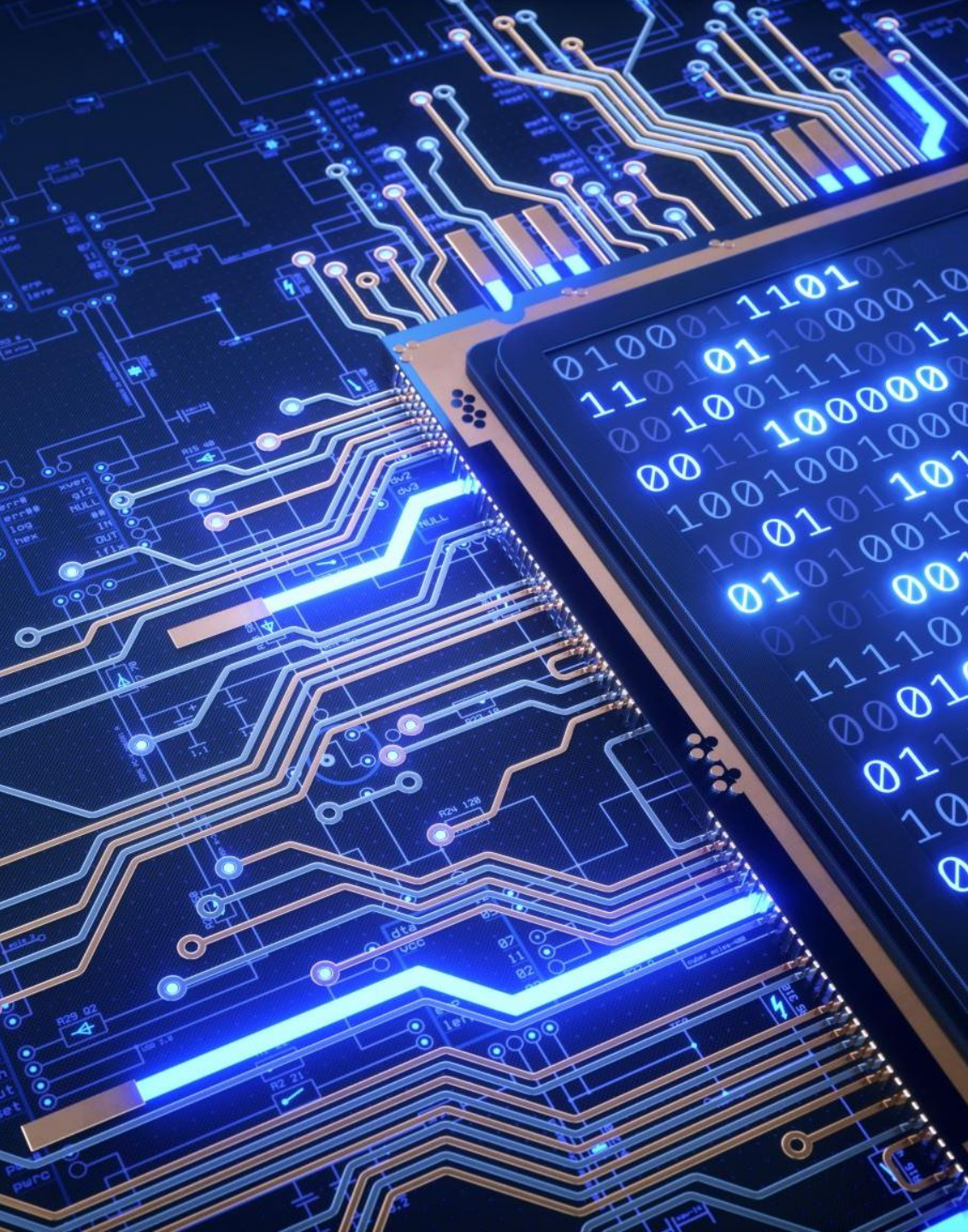
The most reliable indirect confirmation of this is the results of the observation of relic radiation by the Planck Space Observatory in 2013
28 Jan



Evidence of the existence of living beings that exist at the expense of TE or a spacecraft whose propellers transform TE into helpful work for moving in space



The phenomenon of the "Tunguska meteorite" – during an explosion over the earth's surface, there was not single material evidence of a meteorite falling and an increase in the radioactive background



Model 3. Artificial intelligence machine



Concept

- + AI will continue to be a technological innovator for the foreseeable future



The situation until today & Trends

- unmanned delivery service;
- automation of services;
- robotization of production;
- search for a consolidation opportunity of governments.

Problems and threats

- irrelevant and noisy datasets
- legislative regulation
- increasing power of AI
- the statutes governing the policy AI
- the attitude of a person to AI

- spurred job loss
- privacy violations
- 'deepfakes'
- algorithmic BIAS caused by big data
- dark web
- hacking
- spying in IT companies
- socioeconomic inequality
- market volatility
- weapons automatization

Perspectives, decisions

driver of
personalized
medicine revolution

growth of the
number of creative
people

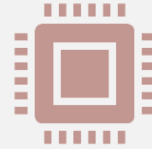
promotion of the
benefits of AI

training in the skills
of working with AI
and creating
machines with AI

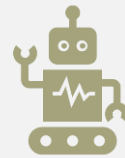
consolidation of
governments in the
general rules of
robotics

a ban on the
creation of combat
vehicles with AI

Practical evidence



Another rapidly growing area market directly related to the Internet of Things and artificial intelligence



In 2017, more than 10 million Household robots were sold to employ AI technologies in one way or another



Especially popular in the last 2-3 years have become systems of the "Smart Home" type, combining household appliances in the apartment and engineering networks



Model 4. Technological structures

- + Operational systems in the state services sector in various fields



The situation until today & Trends

- + formation of innovation system
- + mind sphere technology
- + high technology
- + genetic engineering
- + ensuring the availability of services and keeping pace with their developments

Problems and threats

- + unevenness of services
- + enviromental pollution
- + sound pollution
- + extinction of animals and plants
- + state control of private life

Perspectives, decisions

improving infrastructure in developing countries

nanotechnologies

thermonuclear energy

successes in the search for a cold fusion reaction

growth of tourism

the heyday of the consumer sphere

improving the psychological state of society

to integrate tools which can find psychological and physical problems with the smart home system

to use networks with lower radiations

to cover the entire planet with internet communication

to ensure the integration of private smart systems with governmental to increase the level of security

to create a unified cyber police

to build pollution causing structures in isolated places

Practical evidence

- + In Kharagpur IIT, India, when 5G network was tested for the first time, about 5000 birds had died instantly in the region within a few mins, just because of the radiation
- + Source: <https://www.patrika.com/economy-news/hundreds-of-starling-bird-died-during-5g-network-testing-3801745/>
- + A new HL-2M Tokamak thermonuclear reactor was launched at the Chengdu laboratory in Sichuan Province. This installation replaced the previous model HL-2A, and will allow heating the plasma up to 150 million degrees Kelvin.
- + Source: <https://habr.com/ru/news/t/531810/>

Model 5. Secular stagnation

economic recession is connected with a decrease of intellectual
capacities



The situation until today & Trends

- pandemic situation
- discrimination of undeveloped countries
- increase of costs for receiving higher education due to lack of funds
- fighting corruption
- preservation of the race of physical weapons
- stimulation of developing countries
- the fight against nationalism by creating opportunities for acquaintance with foreign culture
- the fight against religious extremism

Problems and threats

- unemployment
- use of child labor
- low neutral real interest rate
- long stagnation will pass the whole world
- nationalism
- chauvinism
- local wars
- change of democracy to a dictatorship
- refusal to cooperate with the UN
- acute shortage of resources
- unipolar world

Perspectives, decisions

+ expansive/stimulative fiscal policy

+ reducing the level of military tension

+ the International Financial Store - a bank shared among all countries of the world that saves in the event of a decline in the economy and the fight against unemployment

+ game training for everyone

Practical evidence



According to Gerald Crabtree, a geneticist from Stanford University (USA), humanity has suffered at least two genetic mutations that have harmed intelligence over the past three thousand years. There are likely to be several more similar changes in the future. He concluded based on the frequency with which harmful mutations occur in the human genome and the estimated number of "smart" genes.



Source: [https://www.cell.com/trends/genetics/fulltext/S0168-9525\(12\)00158-8?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS0168952512001588%3Fshowall%3Dtrue#%20](https://www.cell.com/trends/genetics/fulltext/S0168-9525(12)00158-8?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS0168952512001588%3Fshowall%3Dtrue#%20)



Scammers have taken \$36 billion in fraudulent unemployment payments from American workers



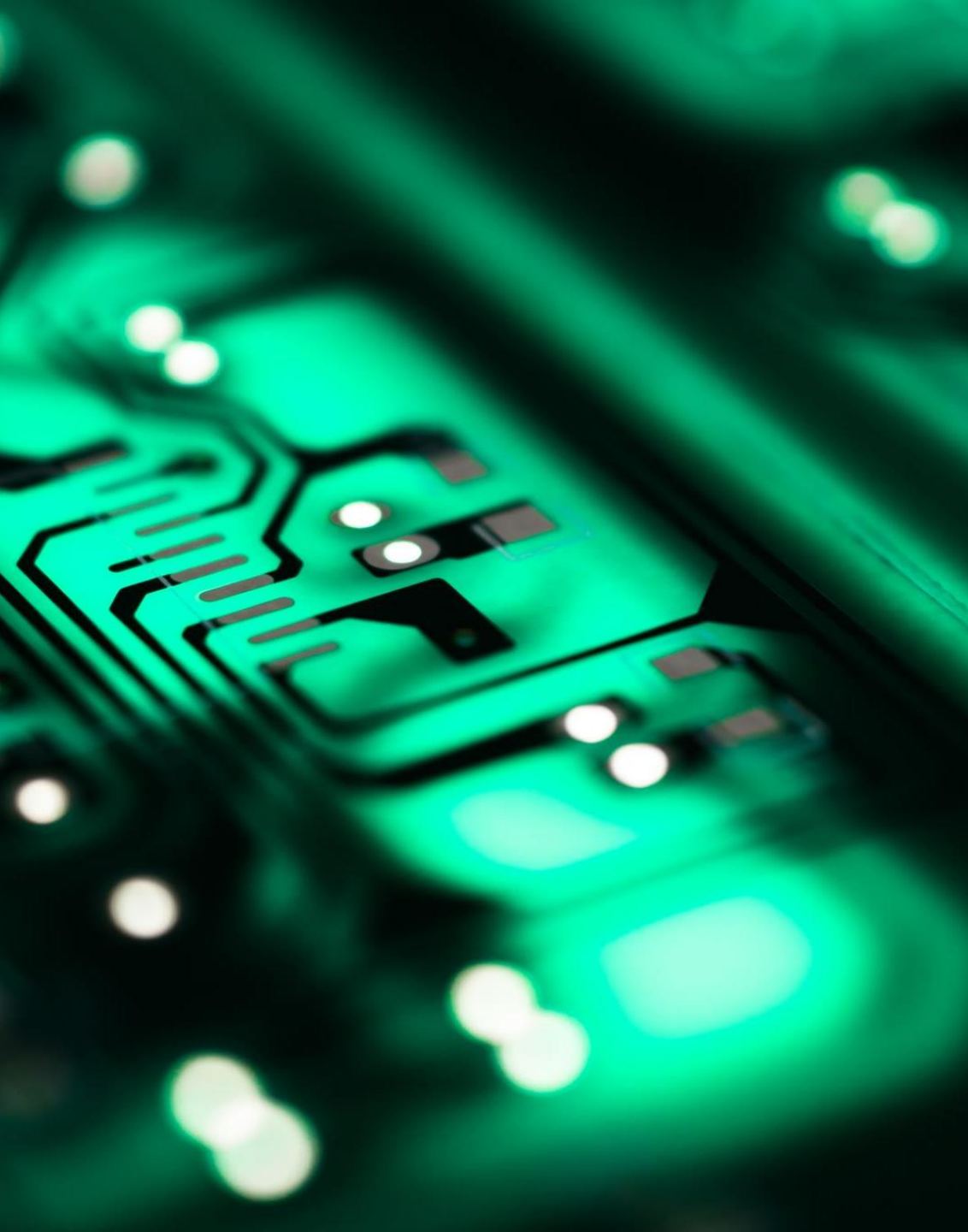
Source: <https://www.cnbc.com/amp/2021/01/05/scammers-have-taken-36-billion-in-fraudulent-unemployment-payments-.html>

Model 6. Industrial Revolution



Concept

- + a major transitional stage
in advanced industries



The situation until today & Trends

- + - a rapid development faster than the development of artificial intelligence due to the competition of industrial companies

Problems and threats

- lack of time to organize the process of moving
- unprecedented widening of the gap between rich and poor
- rapid job cuts
- control under the population



Perspectives, decisions

- + international cooperation
- + increased productivity
- + greater worker safety by reducing jobs in hazardous working conditions
- + increasing competitiveness
- + fundamentally new products
- + automation emergency as a cloud over human labour
- + artificial space settlement



Practical evidence

Industrial production (volume)
Index overview

Source: [https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Industrial_production_\(volume\)_index_overview](https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Industrial_production_(volume)_index_overview)

The vision of 21st century



Small, low-cost space rockets help launch to space more, thus building colonies on space



After expanding artificial intelligence significantly on Earth, smart technology projects will begin in space at the beginning of 2050 or



Artificial intelligence enters the world of rockets more widely



After entering smart technologies in education, it will begin to enter a lot of missiles in particular and weapons in general at the beginning of



As the trend has already become due to the covid pandemic as we can see, online or digital mode will be the new norm for education..



Scenarios

Negative version

01

Earth will become almost uninhabitable, and so most humans will live in artificial colonies outside Earth

02

Almost all animals will have gone extinct, and humans will have to keep themselves covered with suits all the time

03

Humans will depend totally on artificial intelligence for surviving and be busy finding a planet suitable for living freely, which would become the only reason for and hope of living

Positive version

The population will have been controlled to the safest extent, and thus, most humans will be living on Earth

They will frequently be roaming around in outer space and maybe even outside our universe to contact other possible life forms

Artificial intelligence will be used in every aspect of life for making works faster and for personal benefits

Humans will become immortal, and crime rates will have declined to zero

Realistic version

Through the industrial revolution birth of new elements of technology happens gradually through time

Problems: The fourth industrial revolution could lead to an unprecedented widening gap between rich and poor

The number of investments in projects engaged in artificial intelligence is growing since their technologies can significantly reduce costs for companies

The industrial revolution needs to contribute to the sector of space exploration in every possible way, so in the future, it plays a vital role in transforming science fiction into reality

The 2100 Year

Agrobots

Biotechnology & Genengineering

Orbital space settlements & Space biospheres

Sequestration plants

Smallest rockets

Implemental threats

- + The production of pollutants can exceed the survival limit of the species before everything that can stop it is invented and refined



Alternatives: Global cooling

- + Decrease in average surface temperature

Practical evidence

Thus, this summer has become the hottest over the past 70 years

In some regions of the country, authorities have appealed to residents and urged them to economize on electricity and replace old air conditioners in homes and offices, because they need a lot of electricity to work

These temperatures are attributed to Kuwait's proximity to the Tropic of Cancer, where the sun is directly perpendicular to it, as well as the seasonal "Indian depression", that is, a tropical cyclone from the Indian Ocean, which also spread to Saudi Arabia and southern Iraq

Though it is artificially possible, different views of people, politics, and international conflicts won't let it happen



Conditions to make it real

- + Positive change in the state of the climate by artificial clouds



Timelines

Agrobots

2021 - Trial project and its presentation

2021 - 2026 - Search for financing

2023 - 2050 - Improvement of AI

2025 - 2100 - Active implementation of the project: sales to developed countries, humanitarian supplies to countries with low agricultural production, provision of equipment rental



Space colonies

2020 - 2035 - The invention of lightweight means of conveyance and innovative fuels

2025 - 2040 - Consolidation of a world government for the construction of the first station

2040 - 2042 - The initial construction of the project

2042 - 2045 - Revision and consideration of the disadvantages of the prior art in space

2045 - 2070 - The establishment of the state of the colonies of different countries and associations

2070 - 2075 - Settlement of legal and self-identification the status of the colonies

2075 - ... - The appearance of colonies developing countries



Smallest rockets

- 2021 - 2022 - Search for missing rocket components
- 2022 - 2023 - Project testing
- 2023 - 2030 - Project presentation and funding search
- 2030 - 2032 - Project modification
- 2032 - 2036 - Final implementation

Thanks for your attention