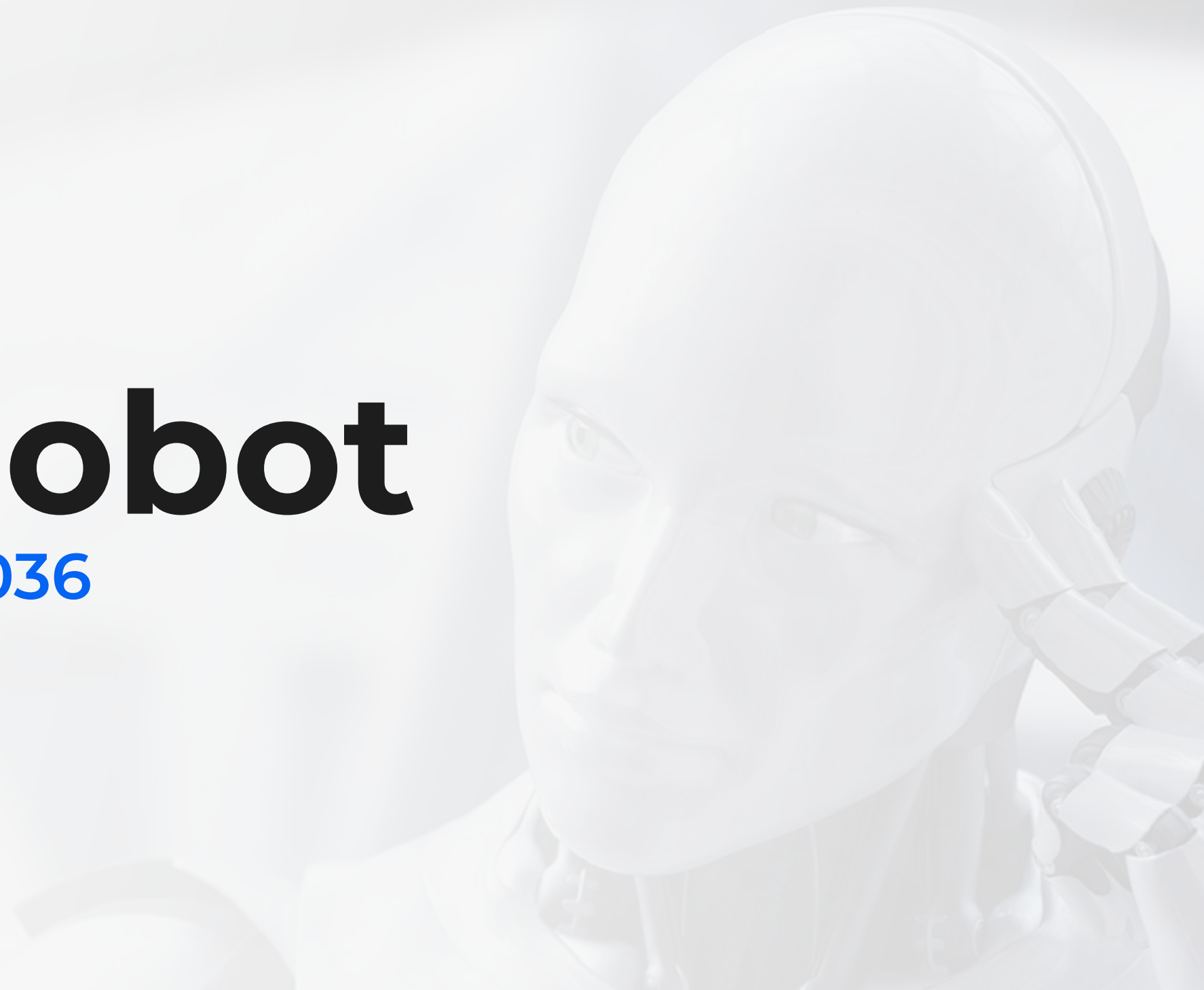




Promobot

Vision 2022-2036

promo-bot.ai



Future 2036: Advances

Generation Alpha*

- The biggest generation of all time (2 billion)
- A superficial approach to the perception of information
- Low basic household skills
- In pursuit of happiness

+6.5 years

Increase in life expectancy since 2000

>50% of newborns

- Nigeria
- Tanzania
- Angola
- Pakistan
- Congo

* Generation Alpha, born in the period 2010-2025



Future 2036: Advances*

Social stratification

Huge inequality gap,
the negative trend

National self-determination

The ideas of national
self-determination replac
the ideas of a common social
space and democracy

Tolerance

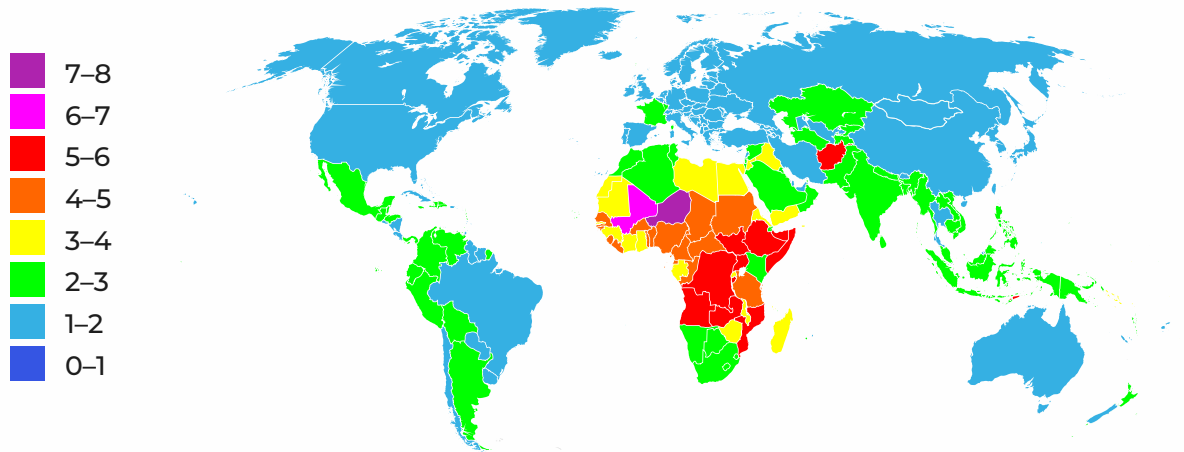
Unprecedented level
of tolerance

*Click the link for more information



World 2036 (2030s / 2040s)

World map of total fertility rates by country or territory in 2020

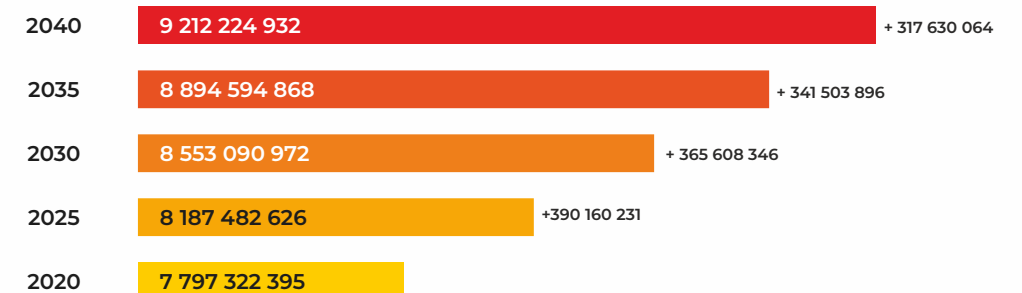


1. The birth rate in Africa is 6-8 times higher than in Europe and North America now. In the future, such a preponderance will become a critical factor. The rise in the volume of migration to Europe, the United States, and developed Asian countries will pose security threats.
2. Between 2035 and 2040, the world's population will exceed 9 billion people, with the dominating Alpha generation children born between 2010 - 2025.
3. Alpha generation will spread all across the world and become the largest one exceeding 2 billion people.

Distribution of the global population by continent and generation (%)

	Africa	Asia	Europe	South America	North America	Oceania
Beta	16	8	6	8	7	9
Alpha	34	22	16	22	17	22
Z	23	21	16	22	20	20
Y	15	21	20	21	20	19
X	8	17	20	16	17	15
BB	4	11	22	11	19	14

Estimated global population growth



The most economically active generation

Alpha will gain most economic power

The main characteristics of Generation Alpha:



Start using smartphones and any gadgets from the age of 3



Practical and mobile



Competent in "adult" issues



Enter the economy and start earning money early



"Digital Natives"



Technology addiction problem



Lost important household skills



The wealthiest and most successful of all generations



Have more than one academic degree



Tolerant



Emotionally hungry



Compete with representatives of the previous and their own generation

Generation Alpha

A young child with dark hair, wearing a white long-sleeved shirt, is holding a tablet computer. The child is looking at the screen, which is out of focus. The background is a bright, slightly blurred indoor setting.

Alpha will live in the world where everything is tailored for them — news feed, education and services

Generation Alpha is the most financially secure, technologically savvy, and educated one.

They will grow up quickly, start making independent decisions, have higher income and change activities every few years. It will inevitably influence global business and politics.

World 2036 (2030s / 2040s)

Generation Alpha will be assumed to be solvent, though not independent in dealing with domestic tasks

There will be less people performing domestic tasks, since the increased level of tolerance will not allow them to turn others into “servants”. Moreover, the security issues and the global digitalization will permit them from learning how to solve these tasks by themselves.

Such an economically active population will lead a dynamic lifestyle and travel a lot. Due to the ethnic and racial consciousness, unique languages will develop. It will become more complicated to communicate when traveling.

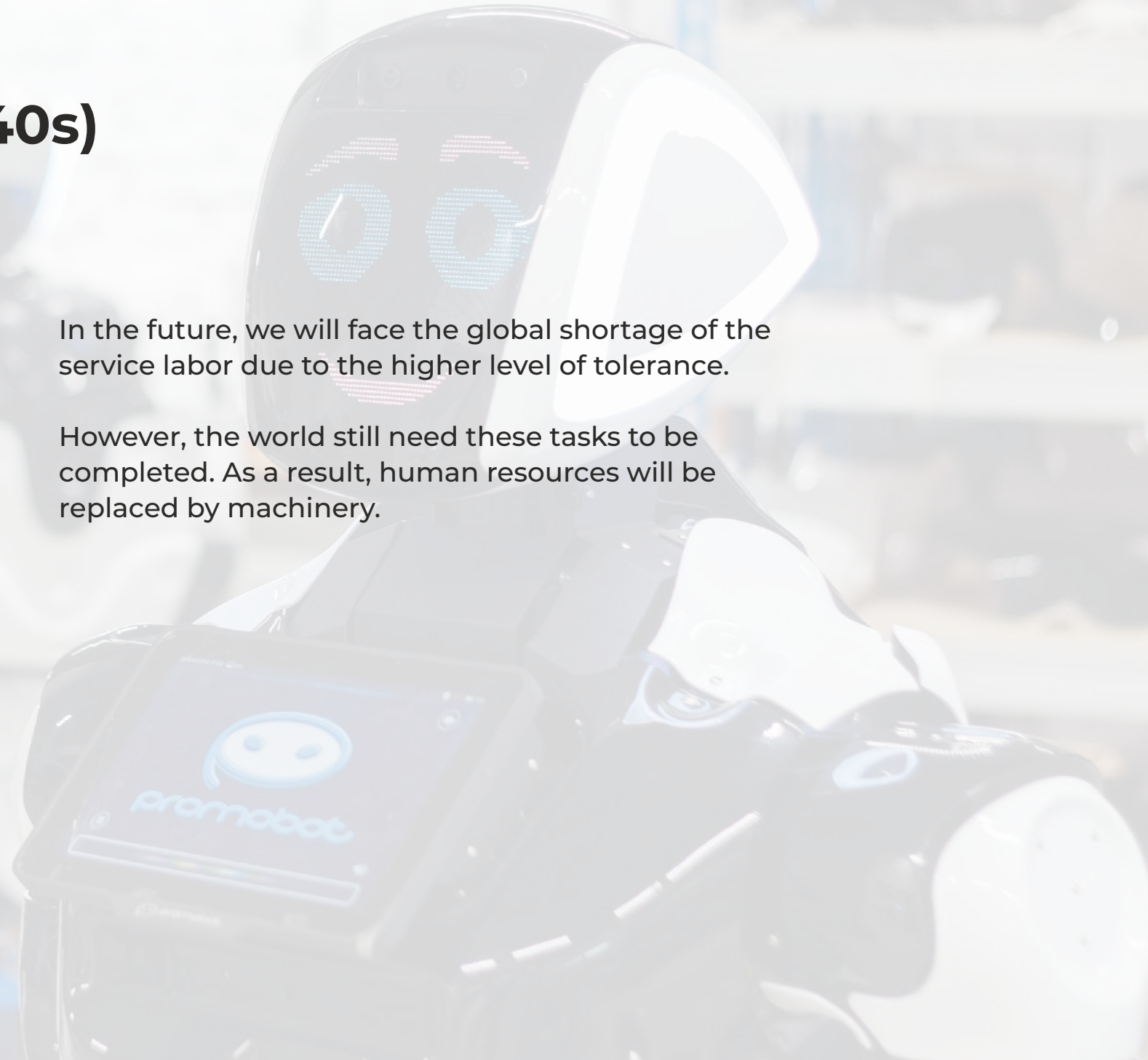
As the BLM-style movements and regional nationalism are gaining strength, and the number of uneducated and unsecured people increases, it affects the world's crime statistics.

World 2036 (2030s / 2040s)

We still live in a world with people delegating routine tasks to other people

In the future, we will face the global shortage of the service labor due to the higher level of tolerance.

However, the world still need these tasks to be completed. As a result, human resources will be replaced by machinery.



2036 Global challenges



◀ Maintaining the comfortable life and improving the living standards of the wealthy groups of the population

Providing care for the elderly

the aged population will exceed 1.5 billion people by 2036, comprising up 16% of the total population



2036 Solutions for the Global Problems



✗ Smart infrastructure

The infrastructure cannot be changed so radically in the near future due to its inert nature

✗ Smart devices

Complete automation of all the processes cannot be achieved due to the "last mile" problem

✓ Robot Servant

Implementing robots performing routine tasks into the human landscape will solve the "last mile" issue

Product 2036

Anthropomorphic robot servant

Application options:



chambermaid



waiter



nanny/nurse



gardener



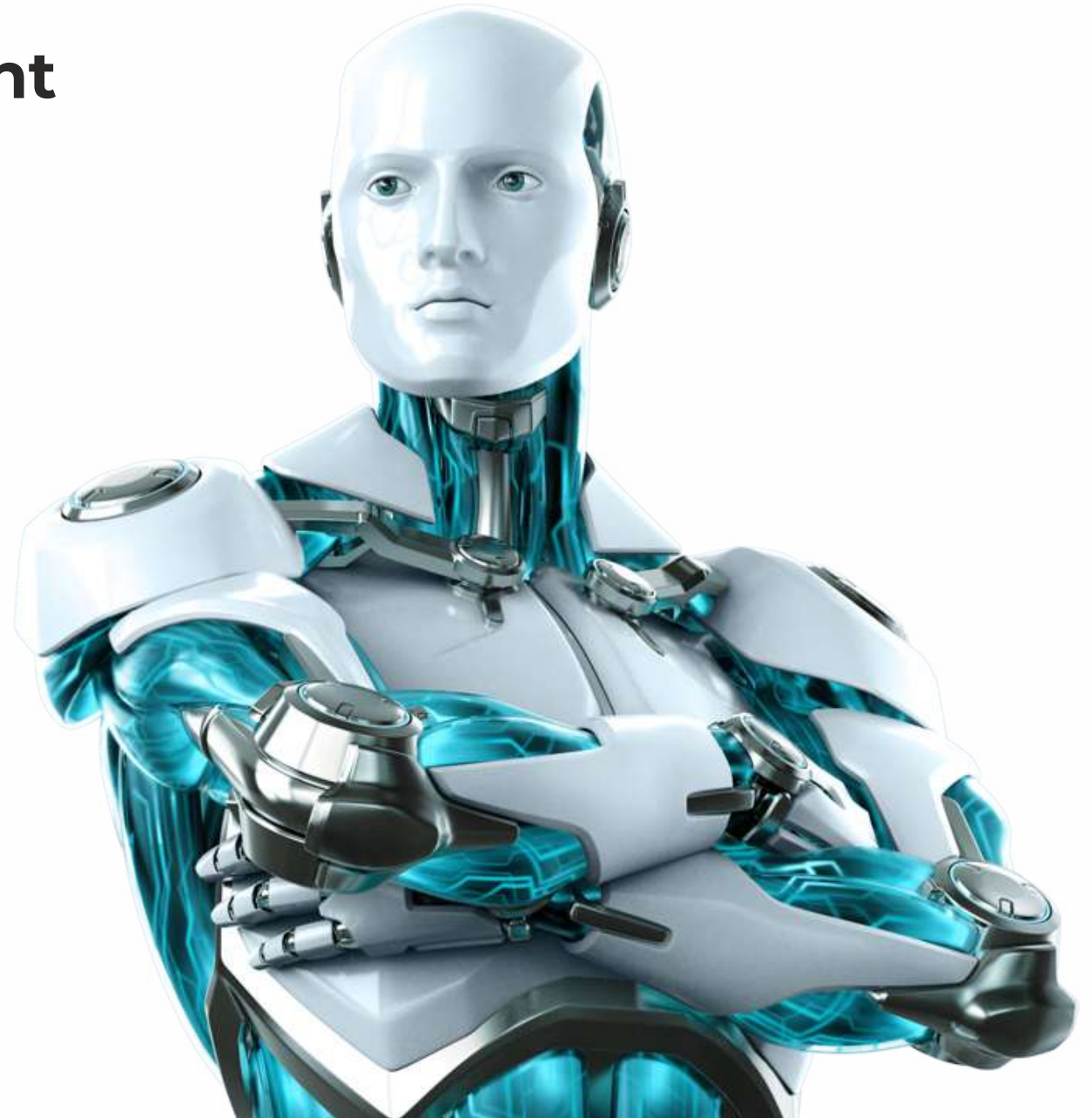
cook



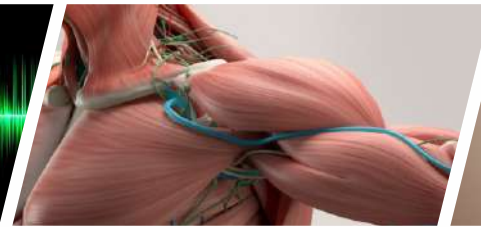
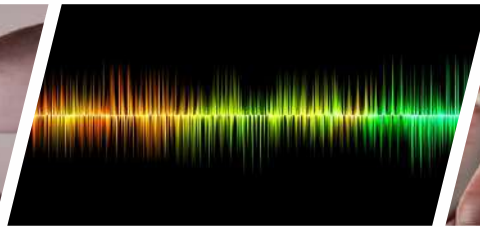
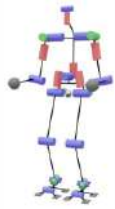
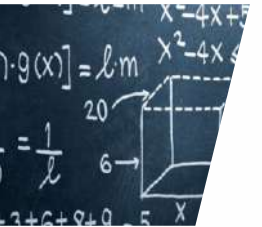
security



doorman



Technologies and stages of achieving the 2036 goal*



2021

- Brushless servo motor
- Electronic stability control
- Multimodal learning

2024

- Magnetic linear motors
- Servos with inertia moment control
- Artificial skin materials

2027

- Alternative power sources
- Real-time speech generation
- Improved algorithms for avoiding obstacles with the use of ml

2030

- Distributed system of artificial muscles and ligaments
- Controlled creation of a person's appearance
- Determination of emotions by voice

2033

- New speech synthesis based on a small sample
- Materials that replicate human organs (eyes, skin, muscles, blood circulation)
- Identification of potentially dangerous sound sources

2036

* Every 6 months:

- Monitoring the needs and values of the target audience
- Updating the technologies
- Adjusting the strategy

Developing and implementing new technologies to the market



Variety of functions

each technology is responsible for a specific set of functions that can be used in various combinations to meet the needs of the people



Selecting the technology

we select the necessary technologies for the future product, modify and prepare them for implementation



Verifying the needs

by grouping the needs, we identify the key consumers



Target audience product

the brand-new technology with unique functions that satisfy the needs allows us create and release market-driven products

Product selection methodology

Expert evaluation of products

- Choosing cost-effective solutions
- The choice is based on the technologies for creating a robot-36
- The solutions are based on the needs of generations

The methodology includes:

- 20 stages of information processing and evaluation
- Information from secondary sources, qualitative and quantitative research (PwC, Deloitte, IFR)
- The assessment is carried out bases on 40+ parameters

After the research conducted:

- The results are discussed with the company's top management
- Deciding if the product fits the needs of the market and should be produced or not



The Expectations from Robots by Generations in 2021

A white humanoid robot is shown from the chest up, holding a stack of three cardboard boxes. The robot has a smooth, featureless face and is looking slightly to the right. The background is a light blue gradient.

The study conducted in the 2nd quarter of 2021* revealed the following:

The robot should be multifunctional and autonomous. It should allow people to do the tasks that they do not want/cannot do. Robots are aimed at making the world a safe and accessible place, open new horizons to people.

A robot should not show its emotions rather being a tool controlled by people. Such a tool must differ in its appearance from the owner, and match its functions.

This tool should have no rights as it is the property of a person. Robots can be bought or rented to perform various tasks. For example, helping people take care of their children or elderly relatives.

The robot must be obedient, easy to use, and not stress its owner**

* Promobot/QuestionPro, 2Q2021, 6 countries, 665 respondents

** The study confirms the assumption of the need for robots servants, the development and large-scale production of such a product

Promobot performance



650

active robots

43

countries of operation

Engineering

is a key competence



Slush Startup Superstar

Promobot participated in Slush 2015, the largest European startup and technology conference & expo. Promobot received the audience award and was named Slush Startup Superstar.



Startup Village

StartupVillage is an international innovative startups competition. Promobot won Startup Village-2015 in the "Robotics" category, competing against 2,500 companies.



HKTSP resident

Promobot has been the resident of HKTSP technology park in Hong Kong since January 2020.



Skolkovo resident

Promobot is a resident of Skolkovo IT-cluster since 2015.



Forbes 30 under 30

Promobot founders are included in the European Forbes «30 Under 30» list of entrepreneurs under 30.

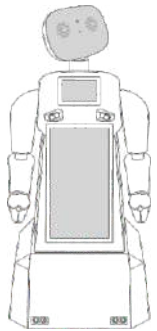


VENTUREOUT

VentureOut alumnus

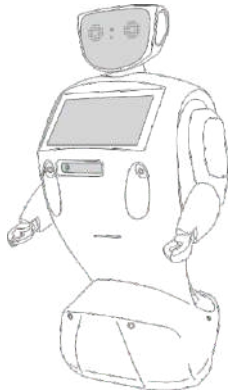
Promobot is the alumnus of VentureOut accelerator in New York from January to March 2020.

Promobot: our journey



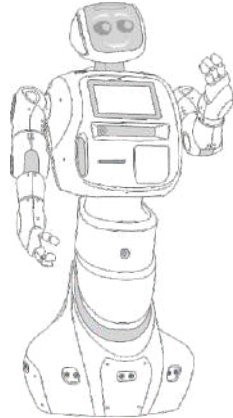
2013

The founders of the company assembled the first robot in a garage on the outskirts of Perm and got the first funding



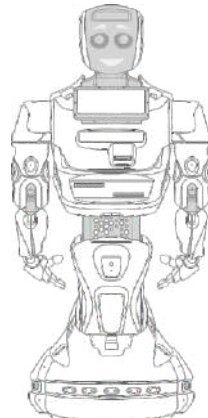
2015

The Promobot V. 2 service robot was developed; the company was founded and became a resident of IT-cluster at Skolkovo Foundation



2016

Promobot V. 3 was developed; the company received the first significant investment from the Internet Initiatives Development Fund



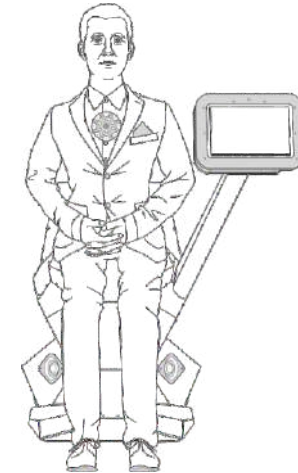
2018

Promobot V. 4 was developed; the company moved to Morion Digital, the largest private technopark in Russia



2019

The company presented a humanoid robot Robo-C, raised 200 million rubles from the SME Corporation, opened an office in Hong Kong



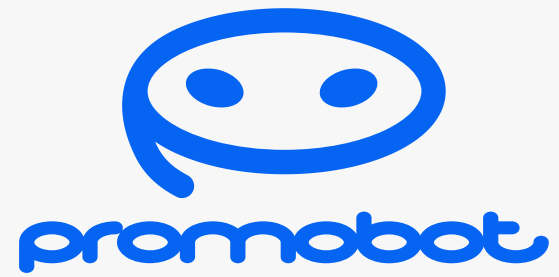
2020

The company have developed 4 new products, attracted 200 million rubles from the Far Eastern Monetary Fund, opened an office in New York



2036

Release of an anthropomorphic robot assistant



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