

DeepTalk

a teacher's digital double

AI-based technology

CDO Global – EdTech solutions developer



included into the register of the Ministry of Digital Development, Communications and Mass Media of the Russian Federation



we have a license from the Federal Security Service of Russia for development, manufacture and distribution of encryption (cryptographic) devices



our products have won IT events awards

> 10%

of all Russian universities use our solutions

200+

successful projects in the field of higher and secondary vocational education every year



> 20

partners across Russia



53.3 billion rubles

Russian online education market share

IT

- ✓ *Testing Engineer*
- ✓ *Frontend Developer*
- ✓ *Java Developer*
- ✓ *Python Developer from scratch*
- ✓ ...

Marketing

- ✓ *Internet Marketing*
- ✓ *SMM Manager*
- ✓ *Copywriter*
- ✓ *SEO Specialist*
- ✓ ...

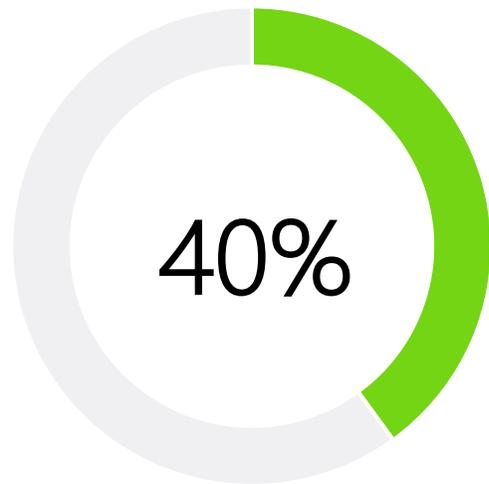
English

- ✓ *Spoken English*
- ✓ *For interviews*
- ✓ *English for beginners*
- ✓ *For travels*
- ✓ ...

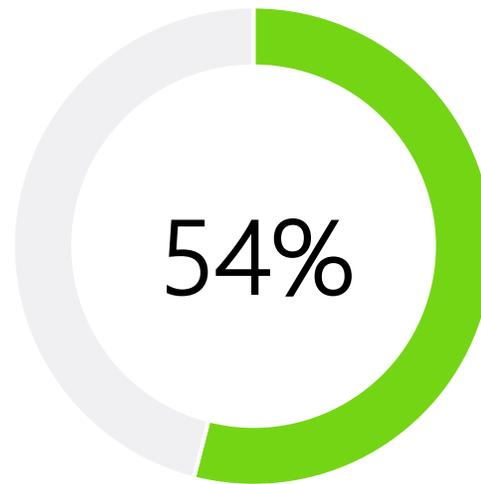
EGE (Uniform State Exam)

- ✓ *Maths*
- ✓ *Russian Language*
- ✓ *Physics*
- ✓ *Chemistry*
- ✓ ...

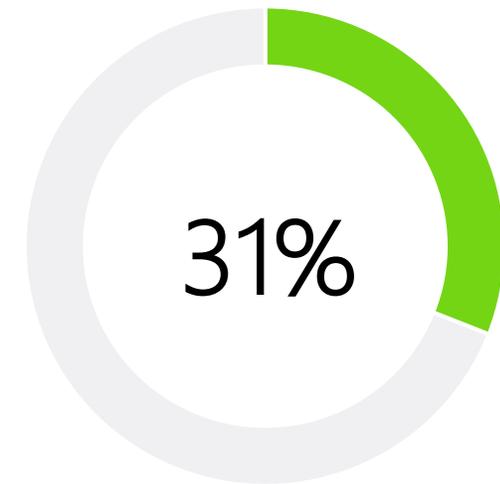
NON-DEVELOPED MARKET



students like remote studies



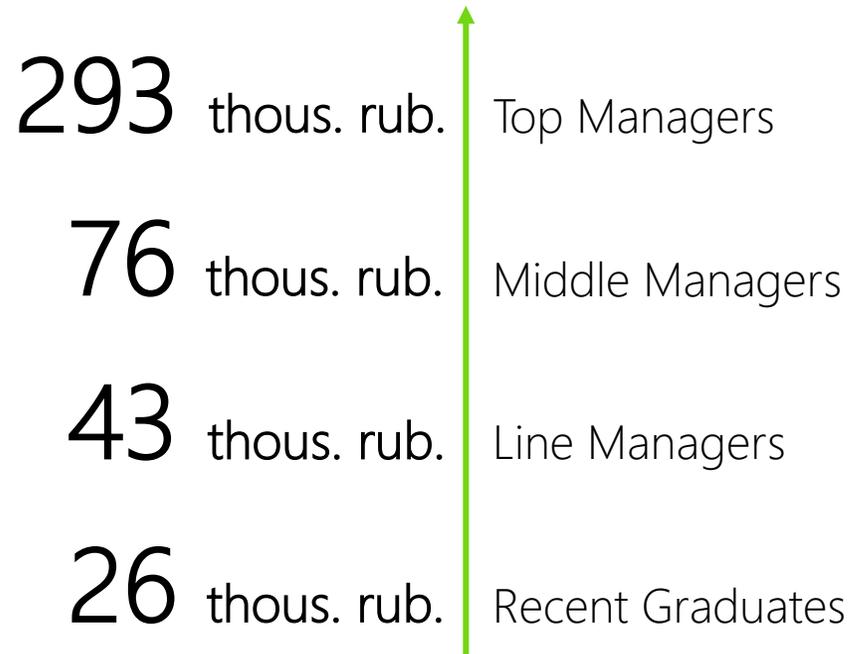
of students are dissatisfied with the e-learning quality



of students mention lack of communication when studying remotely

HRM and TALANTTECH

Average training budget per one employee



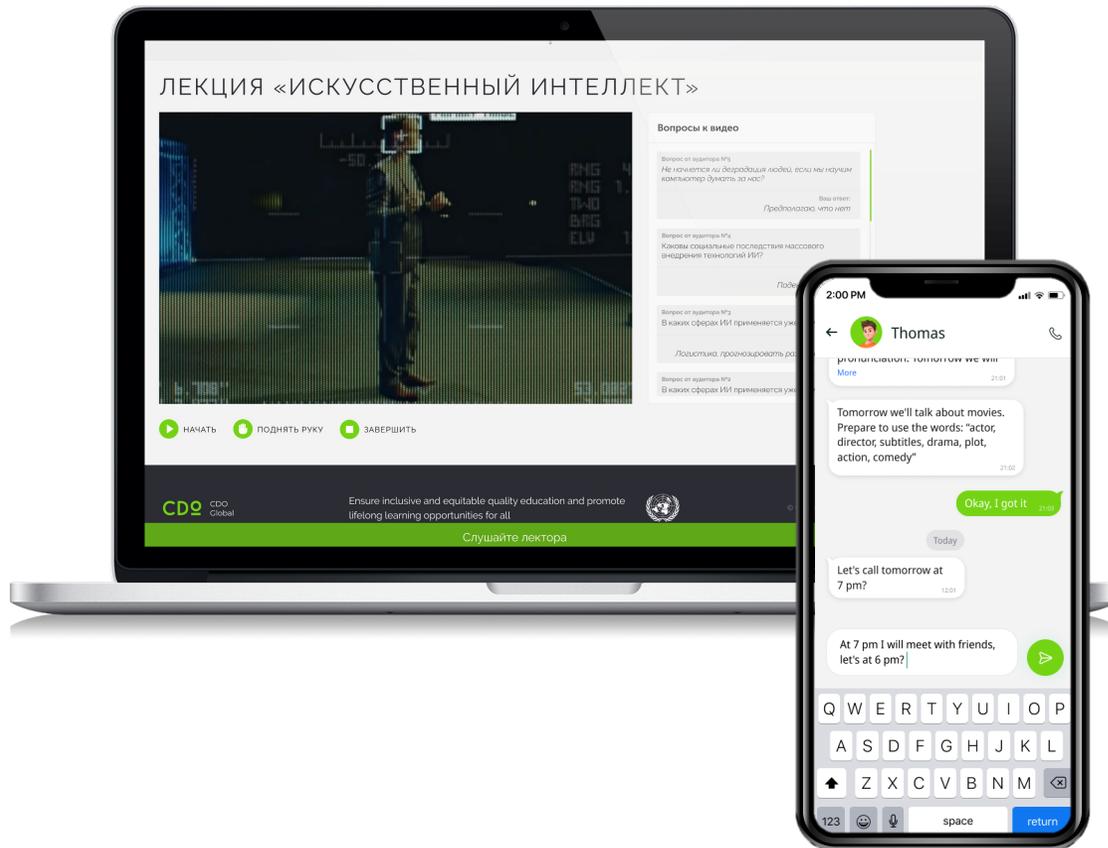
0.1-3%

share of salary budget
companies spend on
employee training

≈ 20 млрд. руб

RESOLUTION:

DeepTalk – technology for creating and interacting with digital doubles
AI-based



Voice- and message-controlled



Digital doubles

Provide for involvement and motivation

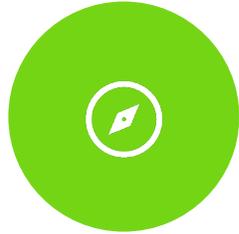
Ask and answer, praise and criticize

Guarantee choice and offer recommendations

TECHNOLOGY FUNCTIONS



Adaptive learning



Individual educational tracks



Control over attention and involvement



Live responses to questions



Real life cases



Answers to the most complicated students' questions

Based on data from dozens of digital doubles

WHAT DOES IT LOOK LIKE FROM THE STUDENT'S PERSPECTIVE?

learning with DeepTalk is organized by means of real-time conversations and correspondence with a digital teacher double

Lecturing

Digital teacher presents educational material in detail



Individual responses

Digital teacher explains in details the material representing difficulties for the student



Detailed discussion

Digital teacher answers any questions of the student



Involvement control

Digital teacher asks questions during lecture, keeping the student's attention



Student-focused customization

Digital teacher builds up a further dialogue, considering special features and interests of each student



Student interacts with digital double in his LMS Canvas, Moodle personal account

HYBRID DIGITAL DOUBLE

to answer the most complicated and unexpected students' questions

response to the user's question
can be developed of small related
pieces of materials from different
doubles



consists of dozens of digital doubles of
various teachers in similar disciplines



response to the question is
developed based on the data of
all doubles available

HOW "TO GET YOUR MIND ON THE NET"?

each teacher can create his own digital double in a few simple steps using **DeepTalk** technology

Materials upload

The teacher uploads a maximum of educational materials into his account



Responses to questions

Teacher records voice responses to system-generated questions



Fine-learning

in the course of the service use, the teacher answers additional questions from students, thereby further fine-learning of the neural network occurs



Questions generation

The system on its own generates a list of questions based on the materials uploaded by the teacher



Creation of a double

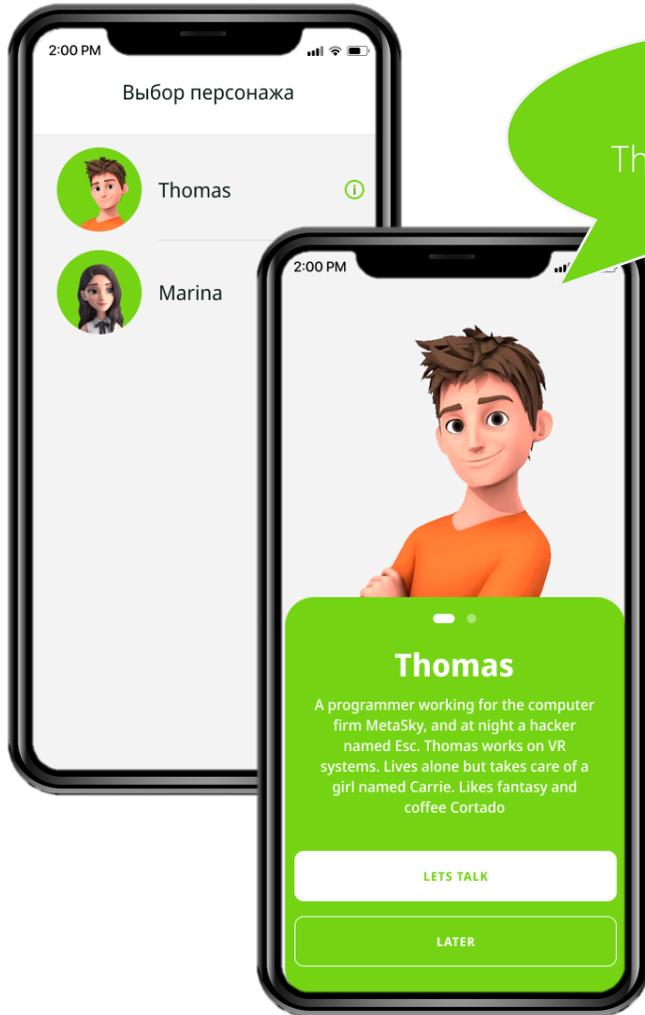
We get a digital double of a teacher created by a neural network, which is able to simulate a teacher and answer any student's questions



Teacher creates his digital double in his LMS Canvas, Moodle personal account

EXAMPLE OF THE TECHNOLOGY APPLICATION

SmallTalk is an application that will help anyone to become fluent in English



Hey! Let's get acquainted? I'm Thomas. What is your name?

SmallTalk is an assistant that uses artificial intelligence and adapts to the user for



discussing any issues



news exchange



communicate day and night

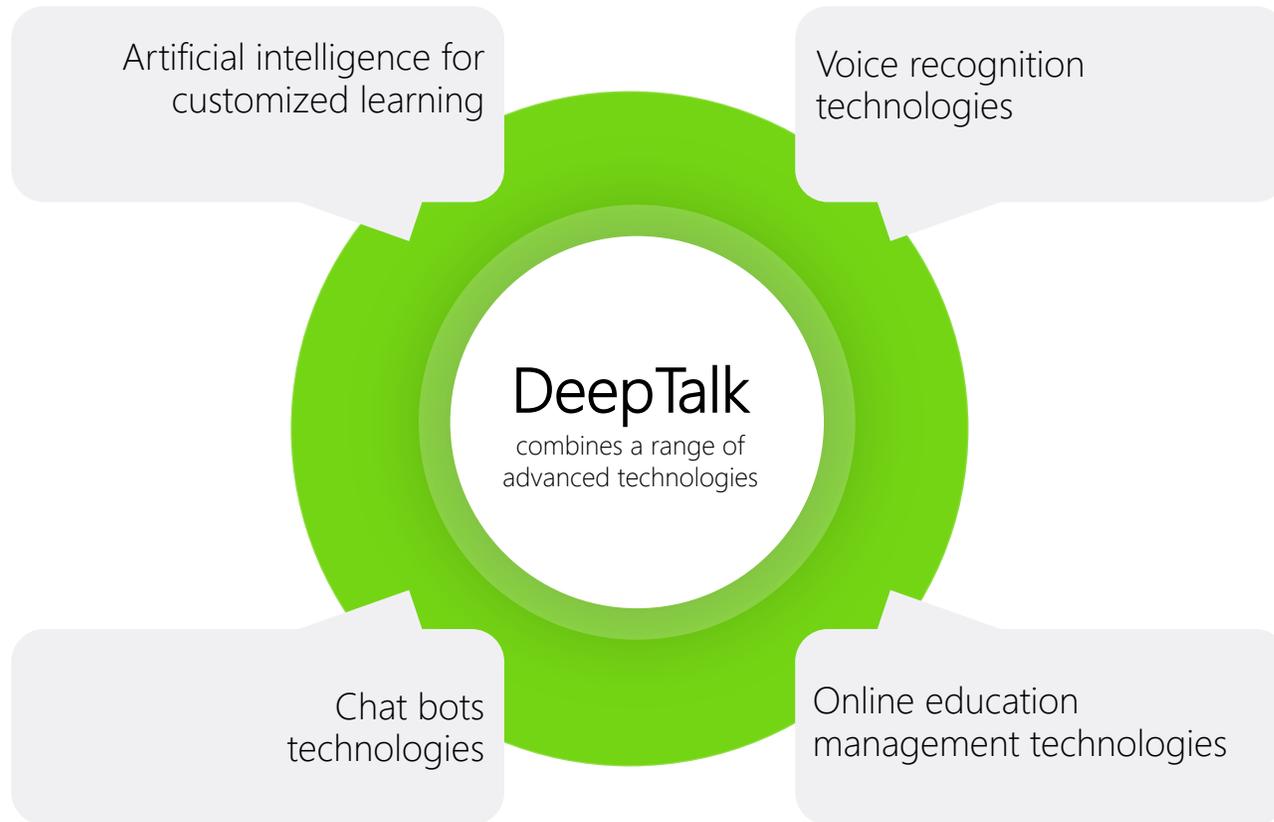


and at the same time teaches to speak English as a native language

*During the very first dialogue, **artificial intelligence** adjusts the DIALOGUE complexity developing an individual learning vector*

UNIQUE TECHNOLOGY

DeepTalk is an artificial intelligence-based technology offering a chance to learn through talking to a personal digital teacher who will adapt to the special features of anyone and answer all questions



"People don't and have never wanted to learn from boring videos. They were forced to. We create digital doubles. They offer involvement and motivation. They ask, answer, praise and criticize Offer a choice and recommend".A.Yu. Kondratyev, General Director CDO

VALUES



State universities



Further vocational education development



Extrabudgetary funding



Improving indicators of the Ministry of Science and Higher Education of the Russian Federation



Private educational facilities



Courses cost reduction



Improving the education quality through individualization technology



Boosting the clients' loyalty through individualization technology



Corporations



Reducing the cost of employees retraining



Control over the lessons learned and knowledge mastered

OPINION



"We expect to make up for the lack of full-time teaching hours in MBA courses through DeepTalk technology." – E. Davydova



"Using this technology, we'll be able to launch professional retraining events for small groups starting from one person, while maintaining the quality of training and economic feasibility". - A.G. Krokhin



"This is unavoidable future. In any case, we will all soon use such technology for learning. And Innopolis would very much like to be one of the first" - I. Davletbayev



**Казанский федеральный
УНИВЕРСИТЕТ**

"A good PR stunt for educational platforms. This technology will offer 90% of the teaching staff to better during classes without choosing a location". - A.A. Bibik

CDO GLOBAL

Russian Ed-Tech services developer with 10 years of experience



"... they did everything just right.
We were pleased to work with you"



"... with no extra costs, fulfilled all
the obligations on time"



"... a really good work. Everything
is great. We'll keep working!"



"...many thanks to your
organization for meeting deadlines
and great prices!"



"... the project was completed with
no difficulties, we'll keep working!"

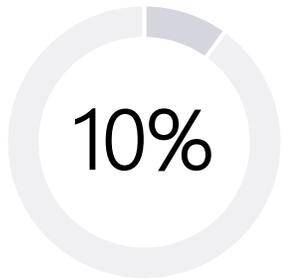


"Appreciate quality work"

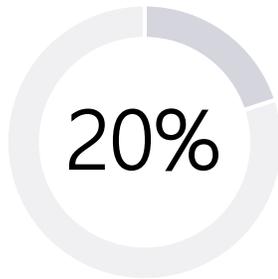


"... we express our gratitude to your
team for your efficiency and
commitments!"

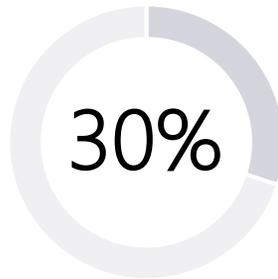
We remember...



... of what we read



...of what we hear



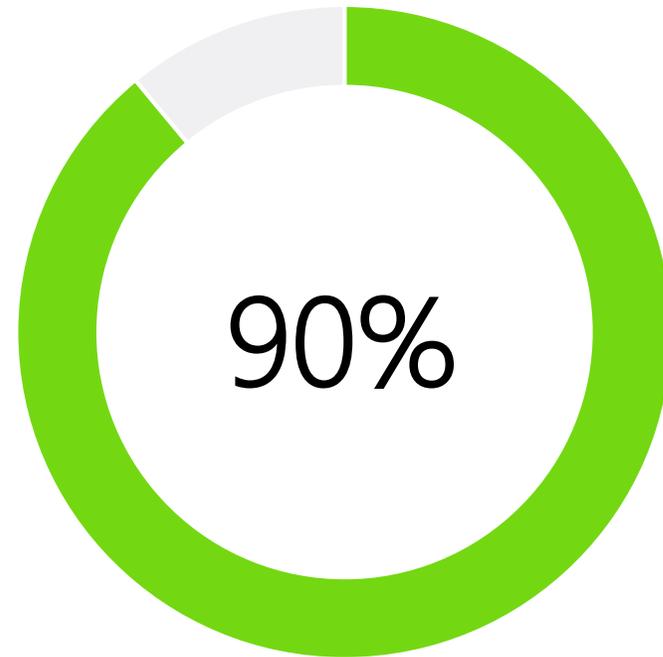
...of what of what we see



...of what we see and hear



...of what we say



...of what we say and do

Example questions

Why does the point of technological singularity pose no threat to humanity?

Why is the instability and volatility of the VUCA world a blessing for humanity?

What are the prerequisites for economic growth as a result of digital transformation?

Why won't artificial intelligence replace natural intelligence?

In future, if all the regions are evenly distributed, according to Wil Gibson, what problems will Innopols face and why?

Do you think the voice assistant really knows everything, or is it a figure of speech relative in nature?

Do you think the educational company Thomas Frey spoke about will operate based exclusively on artificial intelligence?

What do you think is the difference between virtual and augmented reality?

What do you think are the obstacles for the digital economy development?

Why have blockchain technologies turned to be controversial having received controversial publicity?





"...and this is just the tip of the iceberg. We'll make a digital lawyer, economist and engineer who will help to avoid serious errors in projects. I'm talking about a new decision-making assistance system using artificial intelligence". - A.Yu. Kondratyev, General Director CDO

Yerevan, 6 st. Yekmalyan

+374 91116153
+374 91121168
cdo-global.org