



Corporate social responsibility report

Quantum 2020



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Welcome from our CEO



Ruben Melkonian

“Corporate social responsibility is one of the fundamental principles of Quantum. We participate in social projects that apply data science and software development for worthy causes.

We believe in giving back to our community, at both the company and individual employee levels, as well as the global market.

We not only relentlessly pursue the best solutions for our clients, we passionately act for good. As a socially responsible company, Quantum shares the time, talent, and knowledge to make a difference”.

About Quantum

No. 1

work with market leaders

15+

years on the market

60+

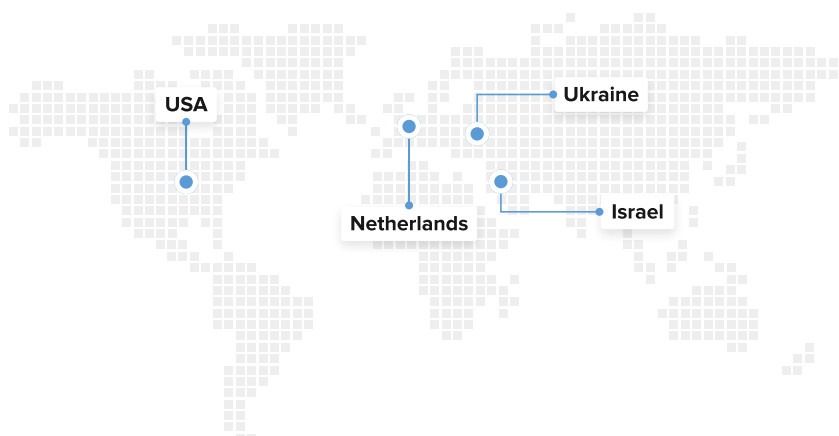
projects delivered

200+

engineers in the network

Quantum is a data science and software engineering company with an international presence and R&D centers in Ukraine. By serving large software companies and quickly growing startups all over the world, we invest in our clients' competitive advantages and capacities using cutting-edge technologies to deliver state-of-the-art solutions.

We've been entrusted with multiple projects within different domains and helped our clients accelerate innovations via data science enabled solutions and custom software engineering.





Quantum expertise

Quantum's expertise includes software engineering, computer vision, data analytics, geo solutions, and much more. In addition, we love experimenting with R&D projects to test-drive new technologies and approaches.

SOFTWARE ENGINEERING

- End-to-end development
- Dedicated teams
- Startup lifecycle support
- Data science research

DATA ANALYTICS

- Data analysis
- Data engineering
- Data visualization
- Data integration

COMPUTER VISION

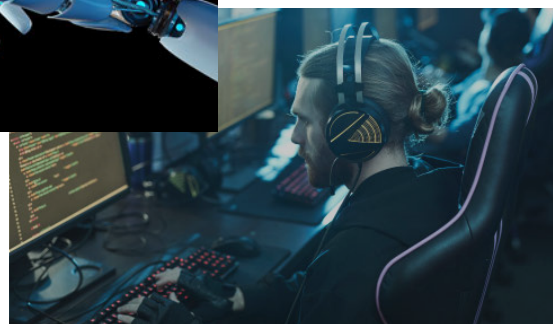
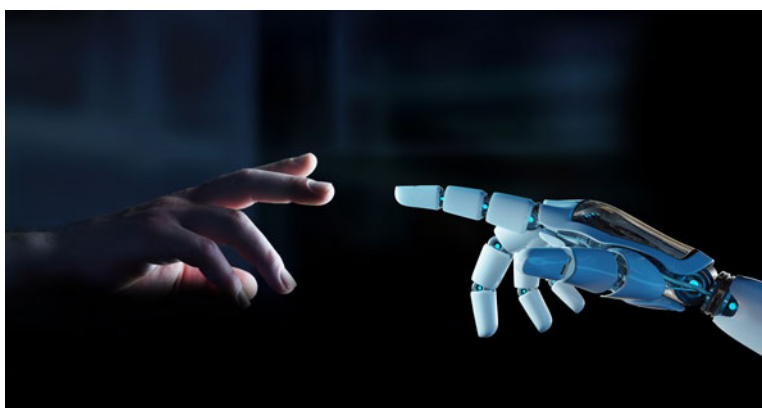
- Image processing
- Video processing

GEO SOLUTIONS

- Satellite imagery processing
- Drones
- GIS-based mapping
- Data analysis

DEVOPS

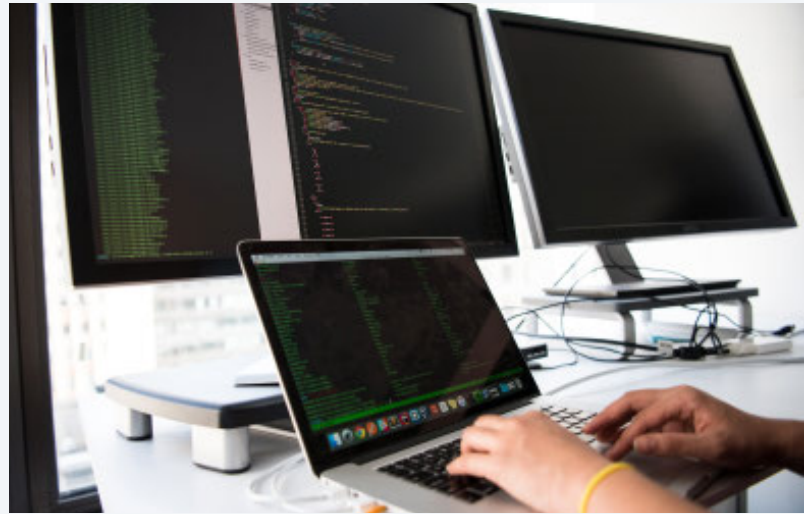
- Corporate level CI/CD process implementation
- CI/CD process implementation for data science teams
- Cloud and cloudless technologies
- DevOps outsourcing





Industries we work for

Our extensive experience and deep knowledge of existing services, infrastructures, open-source products and technologies, allows us to deliver high-end solutions within particular industries, which allows our clients to save development costs and achieve their business goals.



AgriTech

We build custom software solutions to empower sustainable agriculture and land use of tomorrow.

- Precision Farming
- Livestock Management
- Farm Management Software
- Land Use Management

HealthCare

We use data science and custom software engineering to shape the future of the healthcare.

- Imagery Analysis
- Digital Signal Processing
- Statistical Data Analysis
- Telemedicine



What we value

Conscious during Covid-19 situation

Bringing many people together in close contact for a longer period of time poses the highest risk of COVID-19 spread. Due to the pandemic, we temporarily closed our office in the spring. According to this, we have established comfortable and productive work and communication remotely from home. Now we continue to practice the format of remote work.

With the easing of quarantine in Ukraine, we partially resumed the work of the office, but exclusively at the employee request, adhering to all epidemiological measures. Practicing good hand hygiene such as washing hands, not touching the face with unwashed hands, social distancing from others, and wearing a mask when you can't avoid being near other people are all recommended for our employees.

Now the office is open only for those who wish and have no cold symptoms. We clean surfaces with antiseptics and constantly undertake wet cleaning. We supply employees with the necessary personal hygiene and protection products, including masks and antiseptics. Also, this year we got our team vaccinated against the flu to reduce the risk of infection.

Work conditions and human resources



In the face of a pandemic, we ensured that employees can work comfortably from home without losing efficiency. We maintain communication and monitor the health of every team member.

Also, this year we have moved to a new, very comfortable, spacious office with many spaces for teamwork. We care about working conditions and the personal comfort of each employee. All employees are provided with equipment and technology to carry out their work - laptops, tablets, printers, corporate tools, etc.

Our employees are free to join programs and enjoy discounts and special conditions. The company pays for sick leave and vacation leave.

Customer-oriented focus

In the development of products and solutions, we focus on our clients' business. Their ultimate business goals are important to us, which we meet with the help of our service. We never implement projects thoughtlessly, without considering the clients' needs, in order to make money. We are a part of the company, not just resources or contractors.

Our clients' deadlines are important to us, and our agile development process ensures we are always on time. Our goal is to enhance the capabilities of our clients and partners, and their growth and development. We never stop our own development to ensure we remain a technological leader for the industry.



Recycling and sustainable consumption

Reduce, reuse, recycle – those three issues should inspire all companies to think about the long-term health of our planet and its resources. Recycling is one of the most effective ways that we can preserve our planet.

We are responsible for the environment:

- We sort garbage
- We send waste for recycling by engaging with a recycling company
- We save water
- We reduce paper use. We use cloud storage, electronic signatures and document handling

Our CSR focus areas and projects

CSR is one of the fundamental principles in Quantum. We participate in social projects that apply data science and software development for worthy causes.

Throughout 2020 and 2021 we are focusing on the following areas:



ENVIRONMENT



EDUCATION
AND IT COMMUNITY



CULTURE
AND SOCIETY

How we involve

Environment

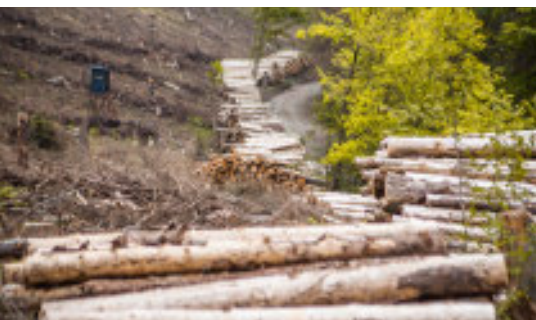
We strongly believe that our expertise in data science can bring new possibilities for managing and tracking global environmental issues. During the year we have developed and participated in various initiatives that could help to solve ecological challenges through data-driven solutions. The AI for ecology initiative is a series of projects aimed to solve environmental problems in Ukraine and, in the Kharkiv region, in particular.

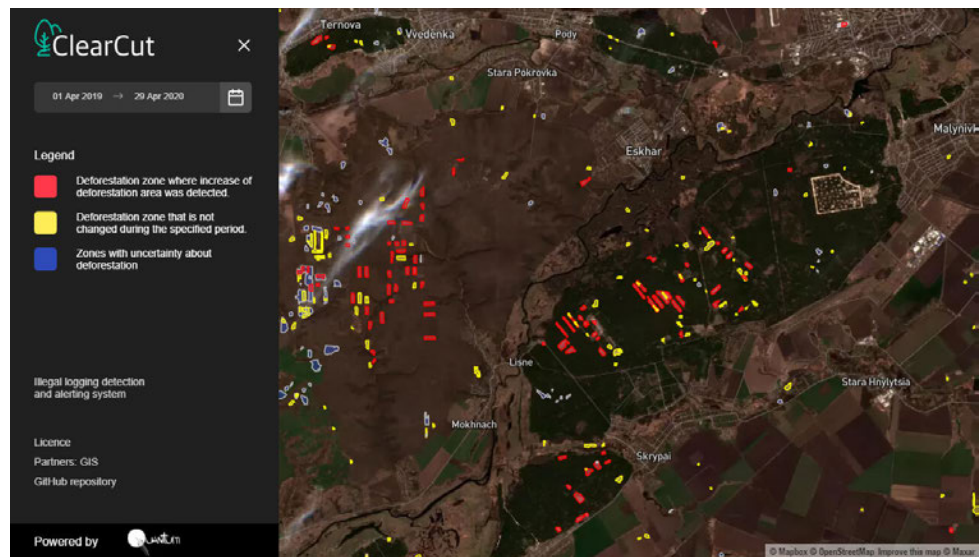
CLEARCUT – FINDING DEFORESTATION TO HELP THE ECOLOGY

Together with the Ukrainian Chapter of SCGIS and environmental volunteers, Quantum took the environmental initiative aimed to help ecological institutions and private organizations monitor logging processes and promptly react to illegal cases.

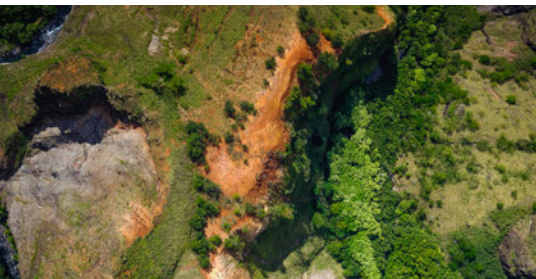
[ClearCut](#) is an online platform that uses computer vision and artificial intelligence, allowing automatic monitoring of deforestation. By collecting satellite data every 3-5 days, the software compares the current state of forests and provides reports on occurring changes. The first region to implement ClearCut is the Kharkiv region. Now we are launching the product for the Lviv region, in cooperation with NGO “ForestCom”.

The mission of this web platform is to provide continuous analysis of logging information to people and/or organizations that use geographic information systems (GIS) to conserve natural resources.





SOIL EROSION DETECTION



Soil erosion reduces land productivity and nowadays there are new instruments, which help monitor the quality, quantity, and prevalence of erosion. During [the Bootcamp](#), we developed a solution based on our SIP Platform to detect soil erosion processes.

The program displays a map of areas with erosion and helps monitor their dynamics based on the pre-trained model. It can be used to coordinate the efforts of environmental institutions and agricultural holdings in the region to combat soil degradation.

GARBAGE SORTING FOR FURTHER RECYCLING

Garbage sorting will help turn garbage into a resource: make things or energy out of it, and reduce the number of landfills, so it is a great opportunity to reduce the impact on the environment. For the years, we have been sorting waste in the office, collecting paper, glass, plastic, as well as battery cells, and sending it for recycling.



COOPERATION WITH THE UNIVERSITIES

We are happy to support Ukrainian IT education. We have already established a partnership with leading Kharkiv universities that graduate highly-qualified IT specialists.



NURE



HNEU



V. N. Karazin
Kharkiv National
University



NTU "KhPI"



National Aerospace
University
H.E. Zhukovsky

Our activities there:

- We actively participate in job fairs at universities and help young people with career guidance
- Our experts give lectures about modern technologies including Data Science, Artificial Intelligence, soft and hard skills
- We gather recommendations to improve the quality of education at technical universities

COOPERATION WITH THE SCHOOLS

We believe that talent must be nurtured from childhood. So, we joined a Kharkiv IT Cluster initiative, Kids2IT, which aims to popularize IT-education among children. There are a series of events that raise children's awareness of IT-related specialties and help them choose the right profession in the future.

Culture And Society

We contribute to projects and initiatives, which help grow the Ukrainian and Kharkiv IT community. Especially during the COVID-19 pandemic, we should support the most vulnerable categories and help them to adopt the new reality. We devote our creativity and time to promote cultural and social projects and events, in an effort to make Ukraine the safest and most beautiful country.

IT CLUSTER

We have got a Platinum Award from the Kharkiv IT Cluster for support in a common project and contribution to Kharkiv IT ecosystem development. We are honored to be recognized among companies that share common values and provide rapid growth to the local IT-community.

The key Cluster focus of 2020-2021, as well as ours, is to build a strong IT community and international network to protect the Kharkiv IT ecosystem. Together we are creating an innovative environment that develops the technology business.



MDT (YOUTH DRAMA THEATER)

We believe that art is a source of inspiration and helps solve problems in different creative ways. That is why we decided to support the Youth Drama Theater by creating a website for them. Nowadays 60% of people buy tickets online and the website helps them sell tickets to performances easily.

IT4LIFE PROJECT

The IT4Life project is a Kharkiv IT Cluster initiative which fundraises for Kharkiv hospitals to buy the equipment required for the fight with COVID-19. Together with 30 other Kharkiv IT companies, the foundation raised more than \$200,000 to help the Kharkiv healthcare system fight against the pandemic.



Sustainability goals



We fully support the sustainability goals described by the [United Nations](#). Every company should have sustainability goals as a universal call to action to end poverty, protect the planet, and ensure that all people enjoy peace and prosperity.

The creativity, know-how, technology, and financial resources from all of society are necessary to achieve sustainable development goals in every context. We consider ourselves a part of the society accepting wider responsibilities towards our employees, communities where we operate, and the planet we all live on.



Quantum believes in the power of change. In 2021 we want to make changes in order to save and improve lives through influence on social responsibility and the development of valuable projects. We'd like to kick-start a global movement for quality IT education, inspiring countries to invest in their future generations.

We are going to expand our internship in order to train as many new specialists as possible who will develop and push the IT industry in our region and the world in the future. We open positions for internships and training in our state and attract new mentors in this educational process.



One more important issue is that COVID-19 has profoundly impacted the world around us. The current environment presents all of us with an opportunity to mobilize, act for good, give back, and help fight the pandemic. As a responsible company, we recognize the need to act with urgency. We will continue to support organizations concerned with preventing the spread of the virus.

The sustainable development of Quantum will create a long-term value for our company and all our employees, communities, and societies where we operate all over the world.



Get in touch

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