

3D technologies used in the lifecycle of intellectual property (IP)

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Republic of Tatarstan

Key numbers

17th

place among Russian universities in the world ranking Round University Ranking

29th

place in the annual Forbes ranking of the best universities in Russia

4th

place in the ranking of Russian universities in engineering sciences (Scimago Institutions Rankings, 2023)

top-25

in the category Joint international scientific publications of the U-Multirank rating of 2,000 participating universities

1 540

students from 31 countries

59

academic partners with universities-leaders of ratings and CERN from 25 countries

113

scientific and pedagogical staff from 15 countries with experience in IT industry

116

maximum h-index of university professors



Full cycle of innovation implementation

- Oil and gas
- Health care
- Manufacturing
- Energy
- Agriculture
- Transport
- Urban infrastructure
- Construction
- Finance
- Education

AI ROBOTICS XR VR
BIG DATA BLOCKCHAIN
UNMANNED TECHNOLOGIES

Projects

502

commercial and grant projects in the portfolio

337

leading russian companies in partnership

48 017

people trained in the framework of the Personnel for the digital economy federal project

TECHNOLOGY TRANSFER ECOSYSTEM IN RUSSIA



GOVERNMENT ASSISTANCE



MINISTRY OF SCIENCE
AND HIGHER EDUCATION OF
THE RUSSIAN FEDERATION

13

national
projects

42

strategic
initiatives

38

federal level
technology transfer
centers

PROJECT GOAL: formation of infrastructure for commercialization of scientific developments and accelerated implementation of technologies in the real sector of the economy



KEY RESULTS OF TTC IN 2021 - 2024

7 800

licensing agreements
and R&D projects

11 300

RIAs under legal
protection

980
mln ₺

extrabudgetary funds
aimed at the
development of the CTT

31 000
mln ₺

total income from
licensing agreements
and R&D projects

INTERSECTORAL TECHNOLOGY TRANSFER CENTRE



KEY EXPERIENCE

950

RIA on the balance of the University

47

organizations in the internal network

217

licensing agreements

995,1 mln ₺

income from licensing agreements

TEAM

- PATENT ATTORNEYS
- PATENT ANALYSTS
- TECHNOLOGY AUDIT AND CERTIFICATION SPECIALIST
- MARKETING ANALYSTS
- IP LAWYERS
- ACCOUNT MANAGERS



**DETAILED
INFORMATION
ON OUR WEBSITE**

MAJOR ACTIVITIES

PROJECT SUPPORT AT ALL STAGES:

- + patenting of IT solutions
- + registration in the register of domestic software
- + technological audit: assessment of the readiness level of IT technologies
- + training and consulting in the field of intellectual property and technology transfer

ASSISTANCE TO UNIVERSITIES AND SCIENTIFIC ORGANIZATIONS IN PROTECTION AND COMMERCIALIZATION

SERVICE PROVISION:

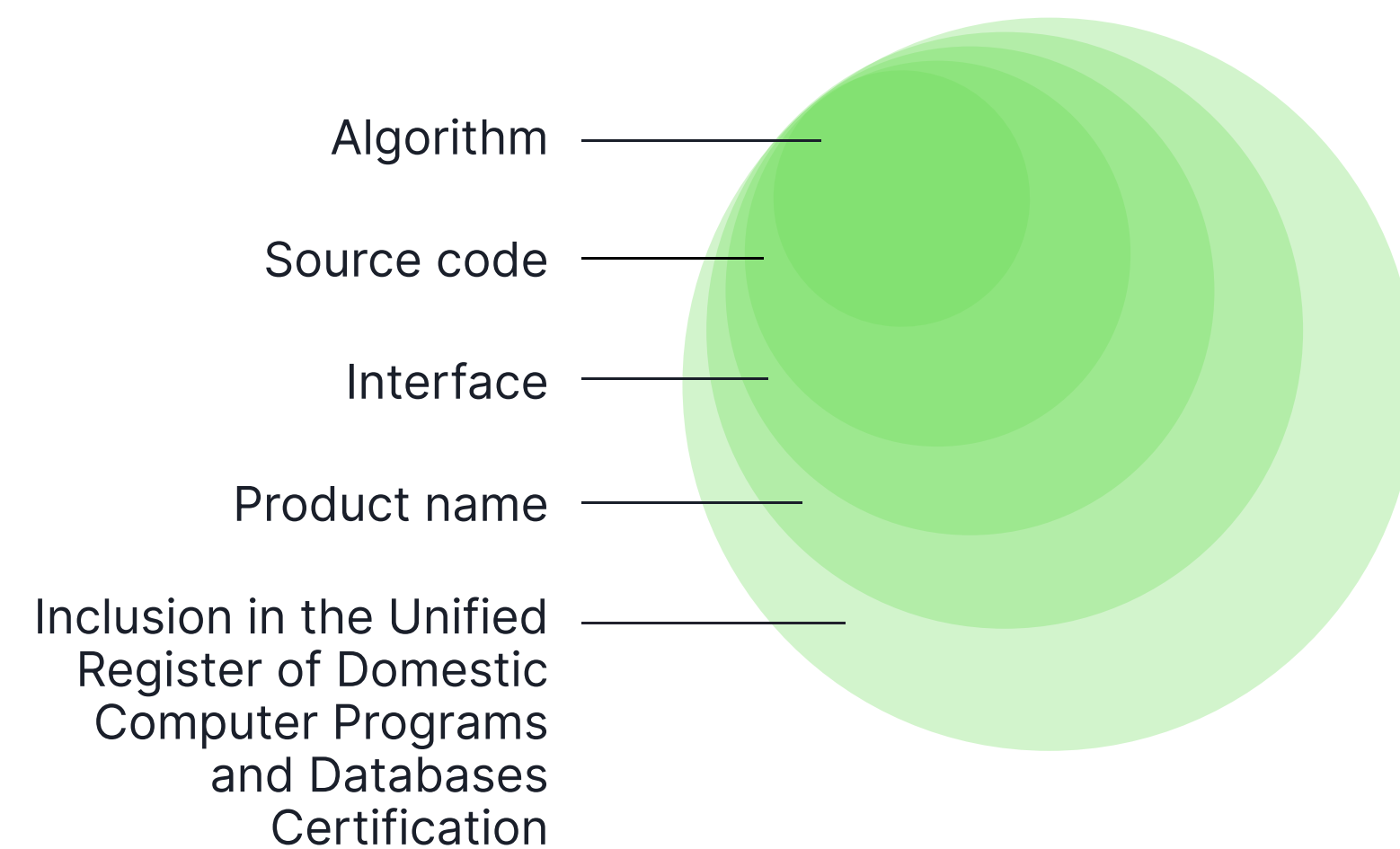
- + patenting and registration
- + training and consulting
- + technological audit
- + analytical research

OUR IP PROTECTION STRATEGY

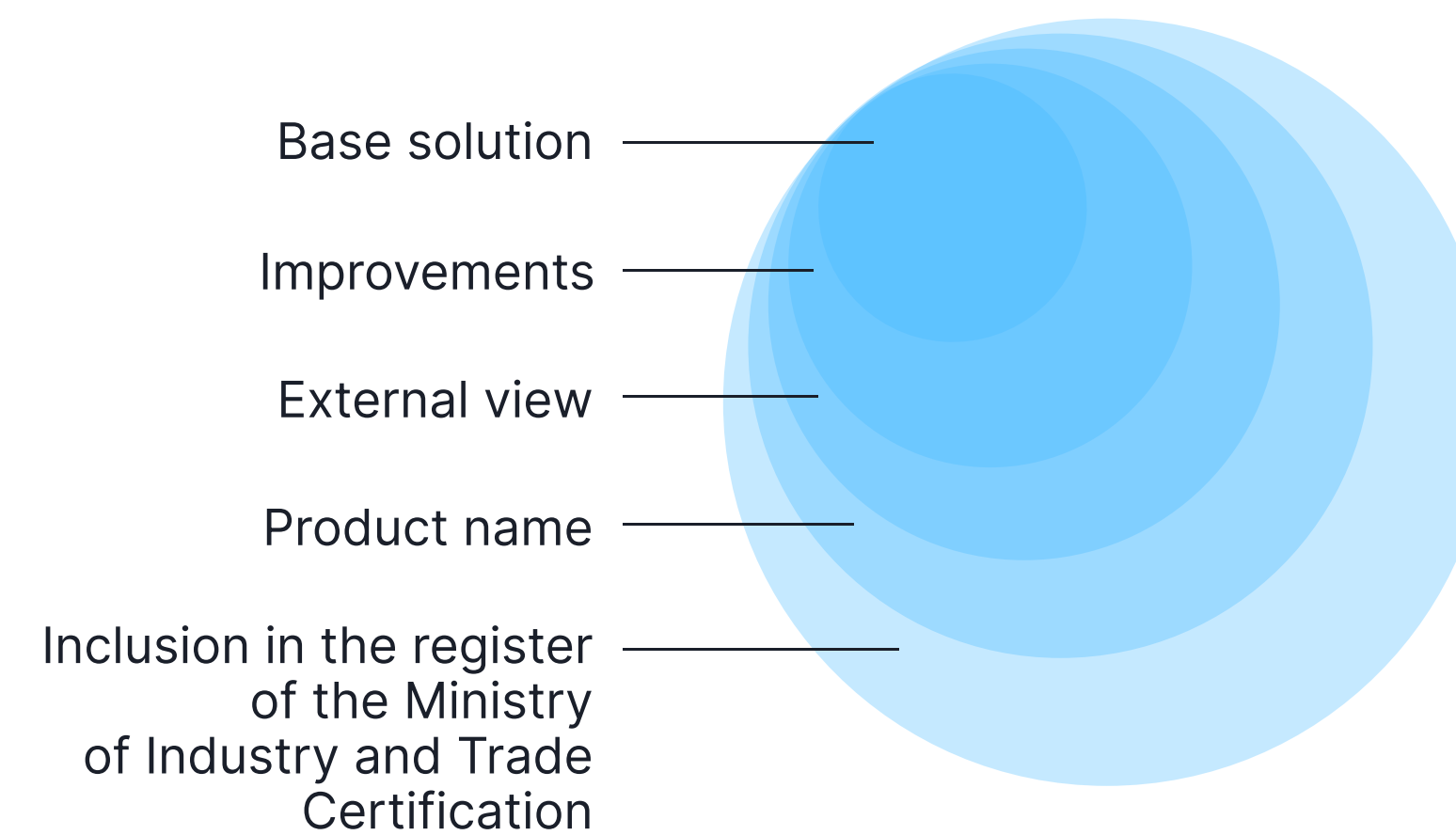


- Software
- Databases
- Trademarks
- Industrial Designs
- Inventions
- Utility Models

Software



Hardware



INDUSTRIAL DESIGNS PATENTING



EURASIAN
PATENT
OFFICE

37
patented industrial
designs in Innopolis
University

+ 20%
increasing in number
every year

INFORMATION CARDS

Protection of a unique visual design, layout of elements, fonts and color schemes

- educational maps
- infographics

INTERFACE DESIGNS

Protection of a unique graphic solution

- mobile app interface
- website interface
- device control panels
- game interfaces

DEVICE APPEARANCE

Protection of body shape, lines, combination of materials

- ergonomics and layout of elements
- body and shapes of products
- product design

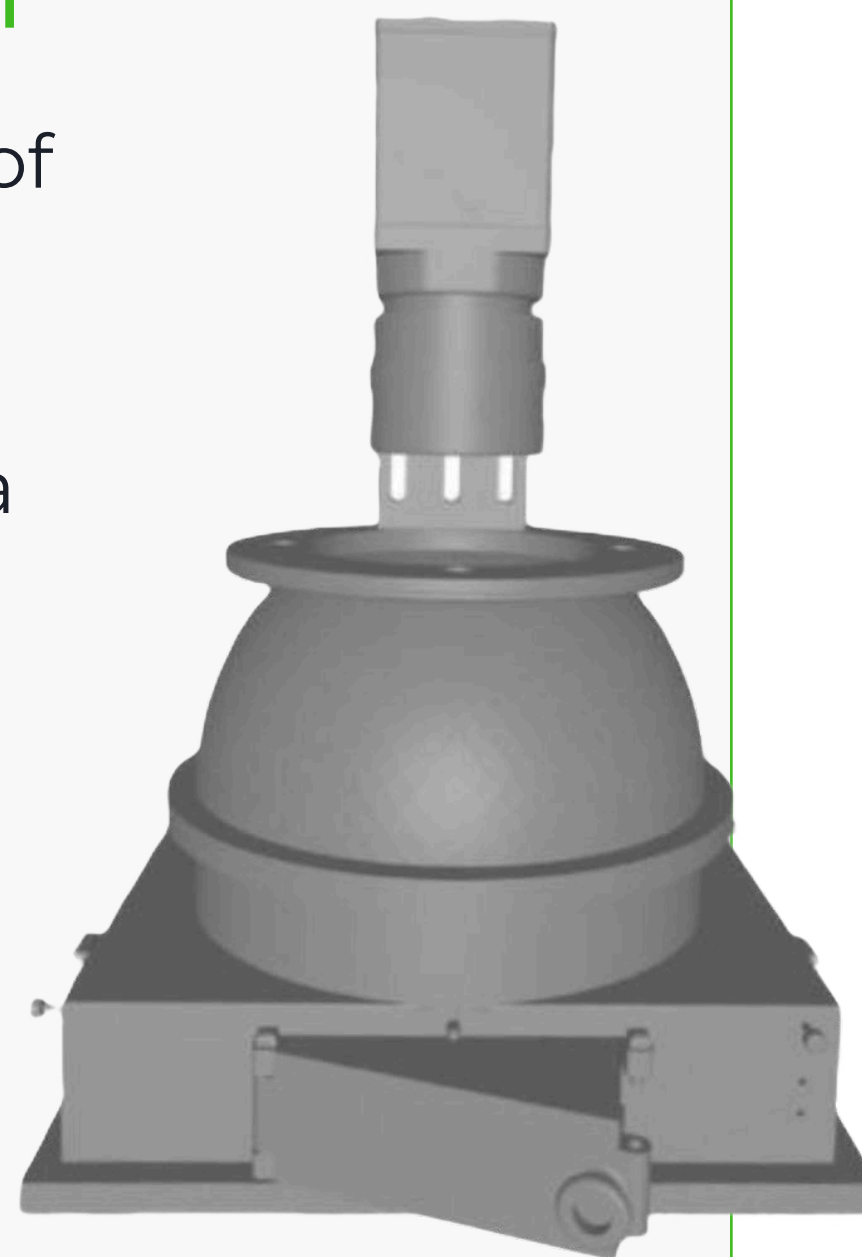
INDUSTRIAL DESIGNS PATENTING



3D MODEL

CONTROL AND MEASURING UNIT

- relates to industrial design of tripod installations;
- contains a light source for illuminating a sample and a video camera for capturing light;
- designed for measuring dimensions and detecting defects in serial industrial parts.



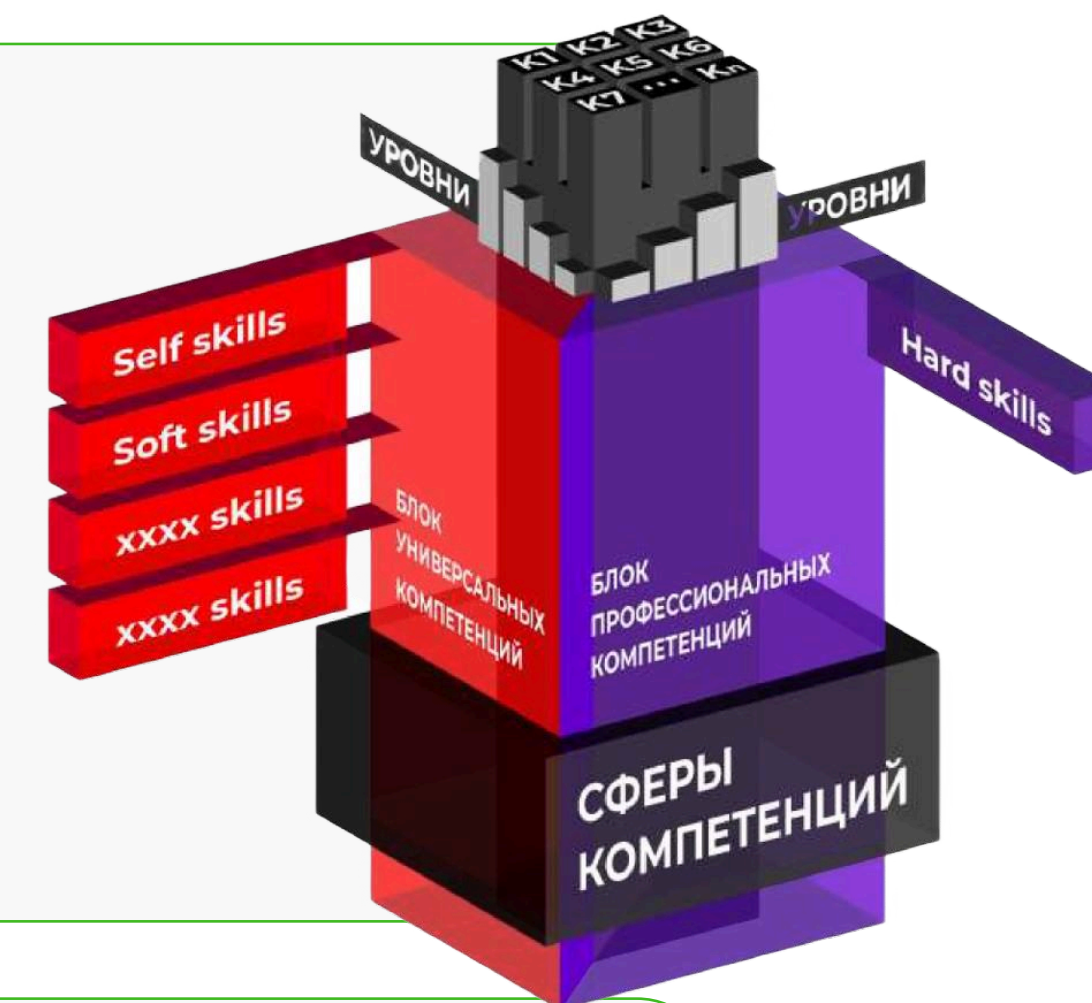
Patent: [RU 134836](#)

GRAPHICAL REPRESENTATION

MODEL OF COMPETENCIES RELEVANT TO THE DIGITAL ECONOMY



Patent: [RU 137678](#)

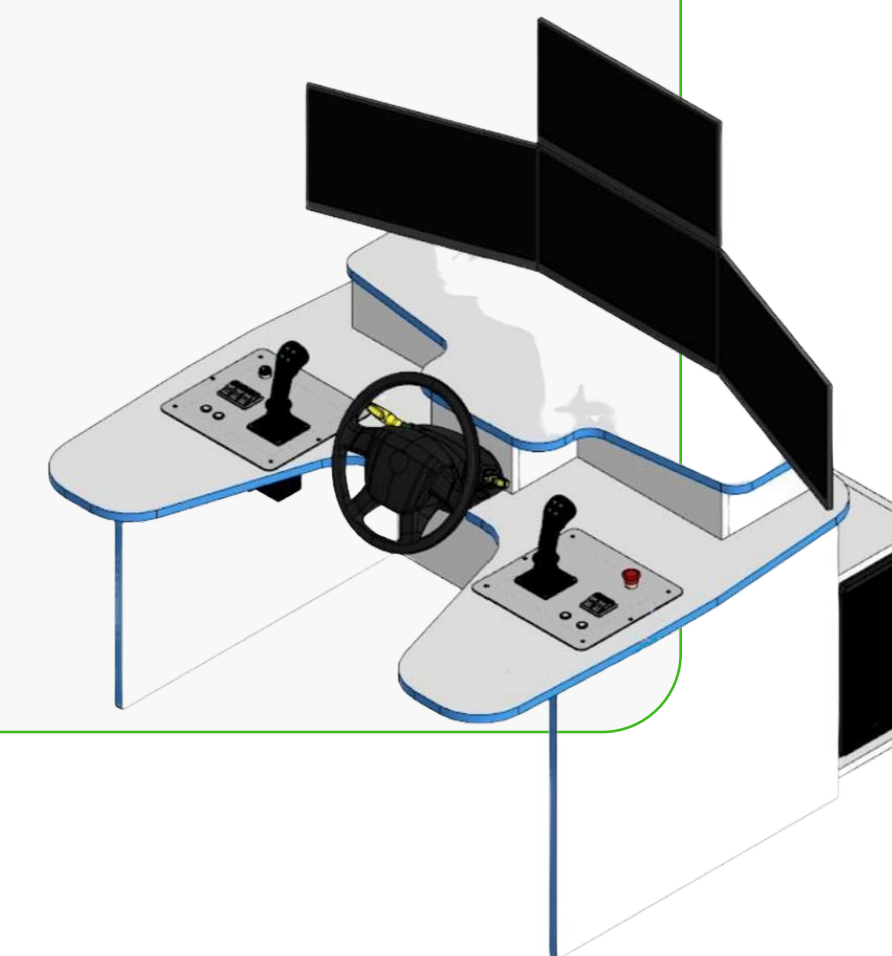


PRODUCT DESIGN

AUTOMATED OPERATOR WORKSTATION



Patent: [RU 139518](#)



INDUSTRIAL DESIGNS PATENTING IN PROSPECT



METAVERSES AND VIRTUAL WORLDS

- digital goods (virtual clothing, avatars);
- architectural solutions for virtual buildings



SMART CITIES AND 4D INFRASTRUCTURE

- dynamic objects (transforming building facades);
- interactive elements of the urban environment (smart benches, light installations)

AUTOMOBILE AND AEROSPACE INDUSTRY

- design of electric cars, drones, aircraft interior elements;
- 3D models for transport customization

MEDICINE AND BIOTECHNOLOGY

- design of prostheses, implants, and surgical instruments;
- 3D models of personalized medical devices



Thank you!

