

priority2030[^]
leaders are made, not born



MSUFP Development Programme

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Challenges, mission and strategic objective



Global challenges

- The global constraints associated with the pandemic and the global carbon footprint reduction agenda bring to the fore medical and health issues
- UN Sustainable Development Goals cannot be achieved without addressing food, biological and food security



National challenges

- Transition from import substitution to import conversion
- Developing a green economy, seeking alternative sources of raw materials and food as part of the country's bio-environmental development programme
- Promotion of public health, e.g. through the development of healthy savings-based catering programmes
- Improving the quality of drinking water
- Development of conscious consumption culture and environmental education
- Development of personalized and specialized feeding systems



Regional challenges

- The need for a comfortable urban environment
- Support to regional producers through the introduction of healthy technologies using local products



Domestic challenges

- Creation of social mobility means
- Development of research and training infrastructure
- Improving access to higher and additional education
- Establishment of a support infrastructure for start-up projects, including an integrated acceleration system
- Development of the university's digital environment and training for the introduction of digital technologies in the food industry



Mission

Generating new knowledge that creates advanced skills and breakthrough technologies that open up new markets to build an ecosystem of human quality of life – sustainable development through healthsaving, food and biotechnology

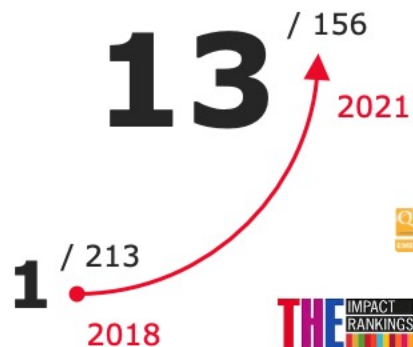


Strategic Objective

To form a self-fulfilling and self-development territory based on the principles of equal opportunities and the use of the best available educational technologies, where science becomes the environment for technological breakthroughs and entrepreneurship

Basis of transformation

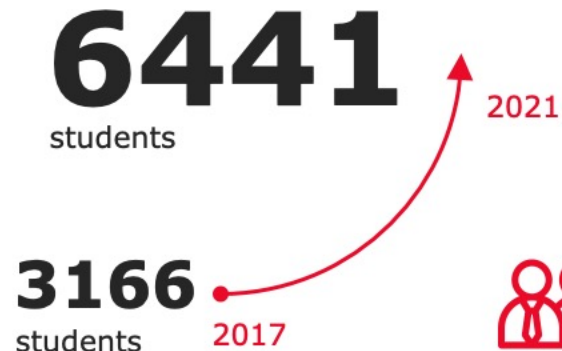
World ratings



USE



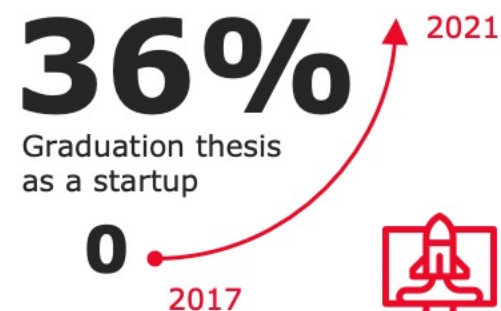
Contingent



Business



Start-up projects



University budget



7-fold

increase in the number of graduate students from 2017 to 2021



2 Test and Research Complexes

in collaboration with Soyuzsnab and Agrovetzashchita

Target model to 2030

University image

REFERENCE UNIVERSITY
in the field of food and biotechnology

Reputable **RUSSIAN CHEMISTRY-
BIOTECHNOLOGY UNIVERSITY**
where science is not an end in itself
but a natural environment for the
development of technological
entrepreneurship

HIGHER EDUCATION ENTERPRISE –
Testing ground for creation of new
markets and generator of proven
«box» solutions

SUSTAINABLE UNIVERSITY for the
realization of equal opportunities and
the final frontier for the preservation
of the cultural code

Tools

- Implementation of strategic projects in consortium (Higher Education Institute-research institutes-Enterprise) in the field of health and bio-ecology
- Education individualizing through networking
- Digital Education Space: Virtual Simulators, Digital Environment, Cyber Classes
- Material and technical base oriented to scientific and project activities
- Development of chemical and biotechnological clusters in education programmes and research in the fields of genomics, genetics, biotechnology, nutrition and ecology
- Startup accelerator as an incentive for scientific activity
- Technological co-workings **Greenfield**
- Seamless Business Training Solutions
- University-based corporate institutes
- Vocational Diagnostic and Skills Assessment Centres
- Creative development ecosystem
- Marketplace socio-cultural projects
- Education programme on conscious consumption
- Accessible education programmes for all groups

Elements

Significant quantitative changes
in performance indicators

- **100%** of educational programmes and strategic projects are implemented through consortium
- **100%** of IET* learners of total full-time EB learners
- **90%** of lecture rooms have been upgraded to meet new teaching formats (laboratories, application centres, technology collaborators)
- Increase in the share of employee publication activity in Scopus and WoS databases by **28%** by 2030
- At least **3%** of teachers with PhD
- **75%** of students are involved in research activities
- **100%** of teachers have information technology skills (digital twins, simulation programmes) and digital education programmes
- Creation and integration into the educational process of **100** simulators, **5** cyber classes, **10** sites with the necessary conditions for free use of virtual and augmented reality technologies
- **100%** of students realize graduation thesis in the form of «**Startup as a diploma**»
- **60%** of students participate in student projects and creative associations
- **7** education programmes for sustainable development
- **3** international environmental research projects
- **80%** of sorted waste on university campus

Institutional transformation of the University

University management system

- Academic freedoms
- Decentralization of institutions, autonomy
- Establishment of corporate enterprise institutions
- University Development as an Intellectual Corporation - Groups of Innovative Companies

Research policy

- Establishment of problem science laboratories and centres
- The transition from life sciences to science for life
- Development of scientific and technological co-workings

Education policy

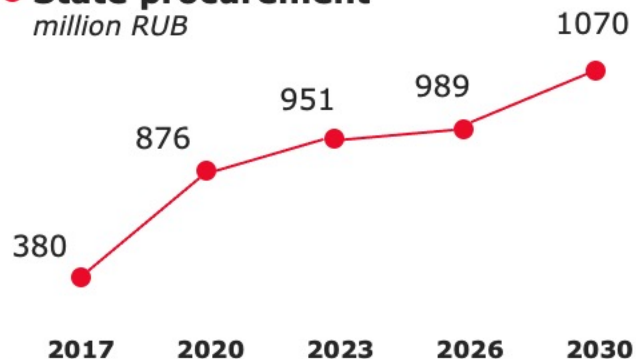
- Moving from translation to acquisition of competence
- Formation of Industry Educational Market Place
- Development of Individual Educational Programmes



Budget:

State procurement

million RUB



International policy

- Development of a digital support platform
- Localization of educational chains through the establishment of world-class technology clusters and research laboratories

Youth policy

- Introduction of «social mobility means» technologies to attract talented youth
- Promotion of volunteerism and intercultural communication
- Development of mentoring and coaching
- Increasing Creative Spaces

Technology entrepreneurship policy

- Technological co-workings chain
- Development of a startup accelerator system

Human capital management policy

- Implementation of a human resources reserve system for university and partners
- Increasing the number of PhD teachers

Financial policy

- Increase in extrabudgetary income, e.g. from research activities and effective start-up projects
- Implementation of the fundraising system (endowment)

Digital transformation policy

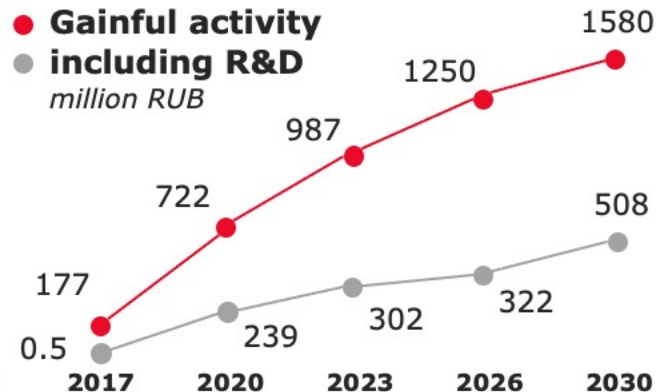
- Translation of humanitarian and lecture blocks into figures
- Digital transformation of both education, research and administration and management

Campus and infrastructure policy

- Building a unified architectural and spatial environment not only for students but also for urban residents
- The development of the affiliate network through the establishment of bio science cities
- Full transition of the university to green formats (Green University)

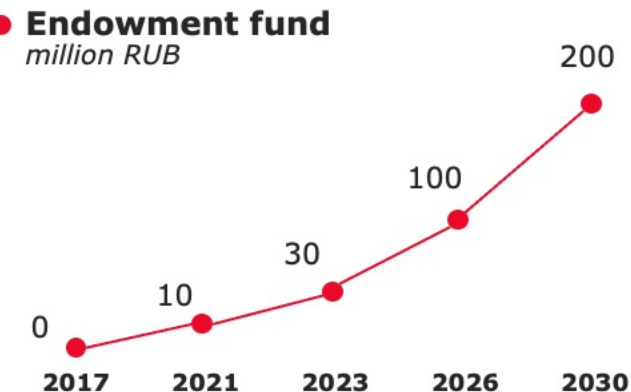
Gainful activity

million RUB



Endowment fund

million RUB





Project objective

Create a social ecosystem model for human health management based on sustainable nutrition, lean production, bio-industry as building blocks of the bio-economy

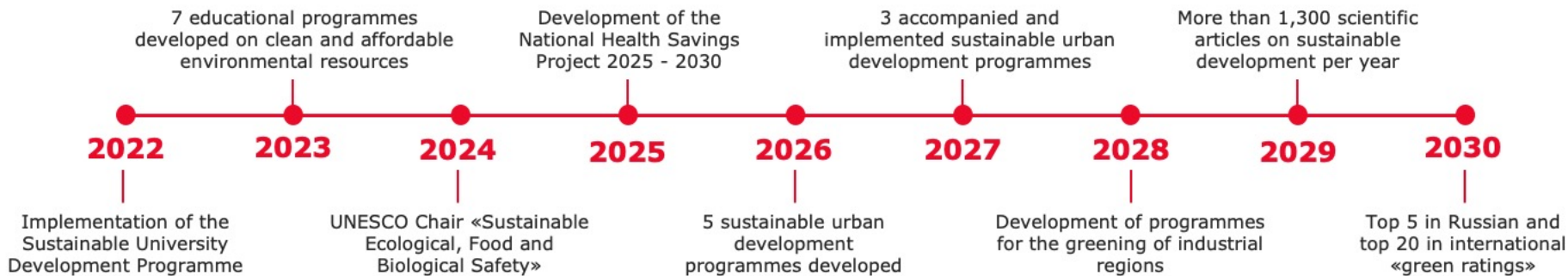


Problems:

- Formation of regional cooperative chains ecosystem for creation and production of fundamentally new generation final Hi-Tech category bio-products
- Launching innovative start-ups and businesses in healthsaving food technologies
- Creation of a digital platform of personalized foods, taking into account the use of local foods
- Introduction of technologies for the bio-products production – specialized foods for population groups, personalized foods, premixes
- Creation of a digital regional/city ecological double
- Establishment of regional competence centres and training in new skills
- Development of new scientific knowledge in the field of sustainable development in the direction of bio-ecological, food and biological security



Indicators (by 2030):



Partners and networking



Systemically important enterprises of Vladimir and Kaluga regions. Working with government and business to build a bioeconomy.

Consortium

Health protection, nutrition, demography

Contents:

- Scientific Research Institute of Nutrition
- Moscow State University of Food Production
- Federal Research Centre for Food Systems named after V.M. Gorbатов RAS
- Russian State Agrarian University - Moscow Timiryazev Agricultural Academy
- Federal Research Centre N. I. Vavilov All-Russian Institute of Plant Genetic Resources (VIR)
- FRC Nemchinovka
- All-Russian Research Institute for the Dairy Industry
- FCTAS RAS
- All-Russian Research and Technology Institute of Poultry Production RAS
- International Academy of Industry
- Russian Federal Research Institute of Fisheries And Oceanography
- Bakery Research Institute
- FSBSO ARHCBAN
- Federal Vegetable Science Centre
- Federal Michurin Science Centre

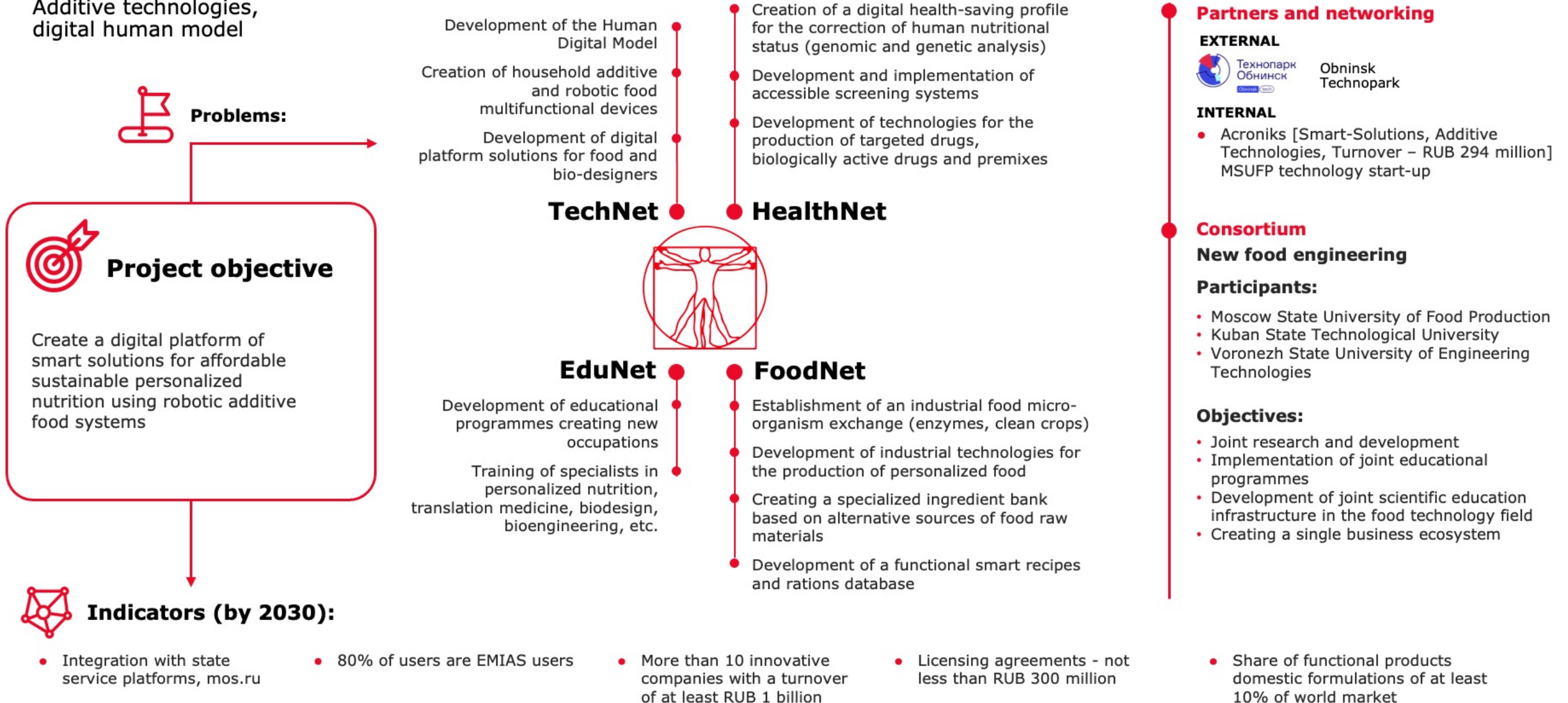
Objective:

- Nutrition rationalization
- Healthy eating ideology
- Alternative sources of the commodity base
- Eco-production technologies
- Massification of organic food
- Active old age

Strategic project

FoodNet additive technologies and ingredients

Additive technologies, digital human model





Project objective

Creating an open, accessible urban cluster of soft technologies for hospitality and entrepreneurship



Indicators (by 2030):

Greenfield

- Development of professional standards for social professions in the fields of healthsaving, dietetics, nutrition and nutririology, and training of professionals
- 5 new programs to develop soft competencies in hospitality, ready for replication
- Adoption of a digital education standard for soft skills



Problems:



Infrastructure

- Development of the co-working network (research, technology, business)
- Establishment of communication hubs on campus
- Development of a startup network
- Expansion and development of the MSUFP Technopark polygons
- «Boiling Point» opening

Tools

- Implementation of Sectoral Competence Centre programmes (partnership with «Russia – Land of Opportunity»)
- Creating soft skills simulators in the HoReCa industry
- Development of a digital education standard for soft skills and its testing in HoReCa

Technologies

- Establishing a service system to support start-up projects
- Development of educational VR and AR simulators
- Introduction of hybrid educational technologies and the meta-group approach
- The seamless link between educational programmes and the social urban agenda
- Educational hub for all categories including persons with disabilities and HIA

Partners and networking

- Government of Moscow: Department of Education and Science of Moscow, Department of Entrepreneurship and Innovative Development of Moscow
- Autonomous non-profit organization «Russia – The Country of Opportunities»

Consortium

- Federation of Restaurateurs and Hoteliers of Russia
- Russian State University of Tourism And Service
- Skillbox

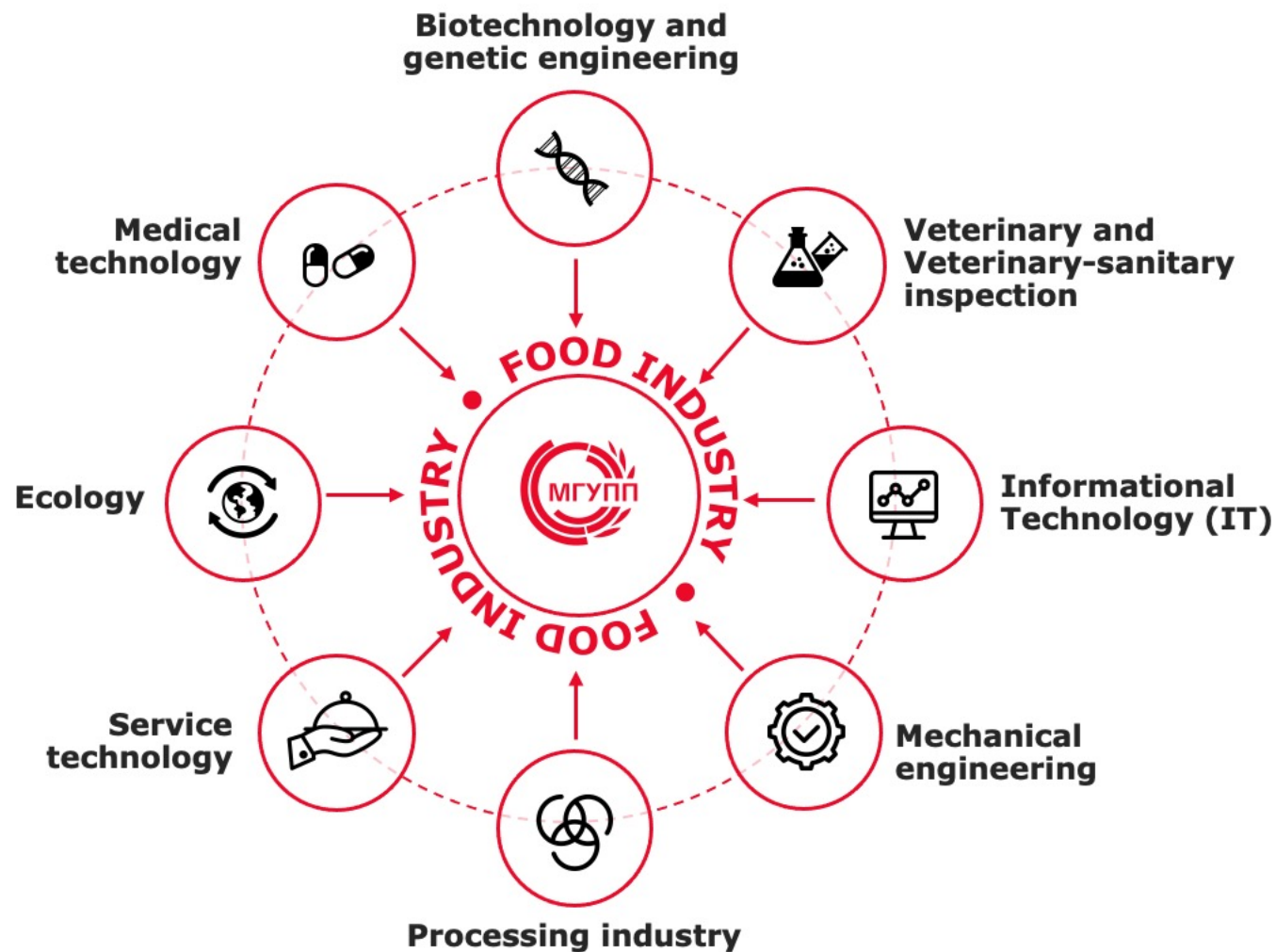
Objectives:

- Training for the hospitality industry
- Formation of new social professions in the field of healthsaving, nutrition and dietetics

In 2020, the capital was visited by 12.8 million visitors from other parts of the country. In comparison, according to Euromonitor International, domestic touring in Berlin was about 11.1 million trips in 2020, in Istanbul - 7.4 million trips, and in Seoul - 7 million trips.



Contribution to long-term development of industry and territory



For the city
Jobs and companies



For regions
Sustainable development



For the country
**Technologies and ethical standards.
New markets**

MSUFP Team



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