



MSU Biotechnology Business Incubator



September 2011



September 2013



▶ INITIATORS OF THE PROJECT



**Ministry of Economic Development
of the Russian Federation**



**Lomonosov
Moscow State University**

▶ INNOVATION ECOSYSTEM

- ⑩ Life science faculties of Lomonosov Moscow State University:
 - ⑩ Faculty of Biology;
 - ⑩ Faculty of Chemistry;
 - ⑩ Faculty of Physics;
 - ⑩ Faculty of Fundamental Medicine;
 - ⑩ Faculty of Bioinformatics and Bioengineering;

- ⑩ MSU Science Park;
- ⑩ MSU Technology Transfer Center;
- ⑩ The leading biomedical research centers in Russia;
- ⑩ Organizations Academy of Sciences, Academy of Medical Sciences;
- ⑩ Development Institutions (Fund "Skolkovo", RUSNANO, RVC)
- ⑩ Biomedical clusters.

- Realization of scientific and technological potential of the Lomonosov Moscow State University in the field of innovative biotechnological and biomedical products;
- The development of small innovation entrepreneurship in various fields of biotechnology and biopharmaceuticals;
- Commercialization of high-tech projects at Preseed and Seed stages;
- Attraction of strategic investors in very early stages of project development.

Profile – medicine and biotechnology

Total area - 13740 square meters

Number of residents - 20 small innovative companies.

► INFRASTRUCTURE

2 plug & play GLP-laboratory
to work with eukaryotes

Plug & play GLP-laboratory
of regenerative technologies

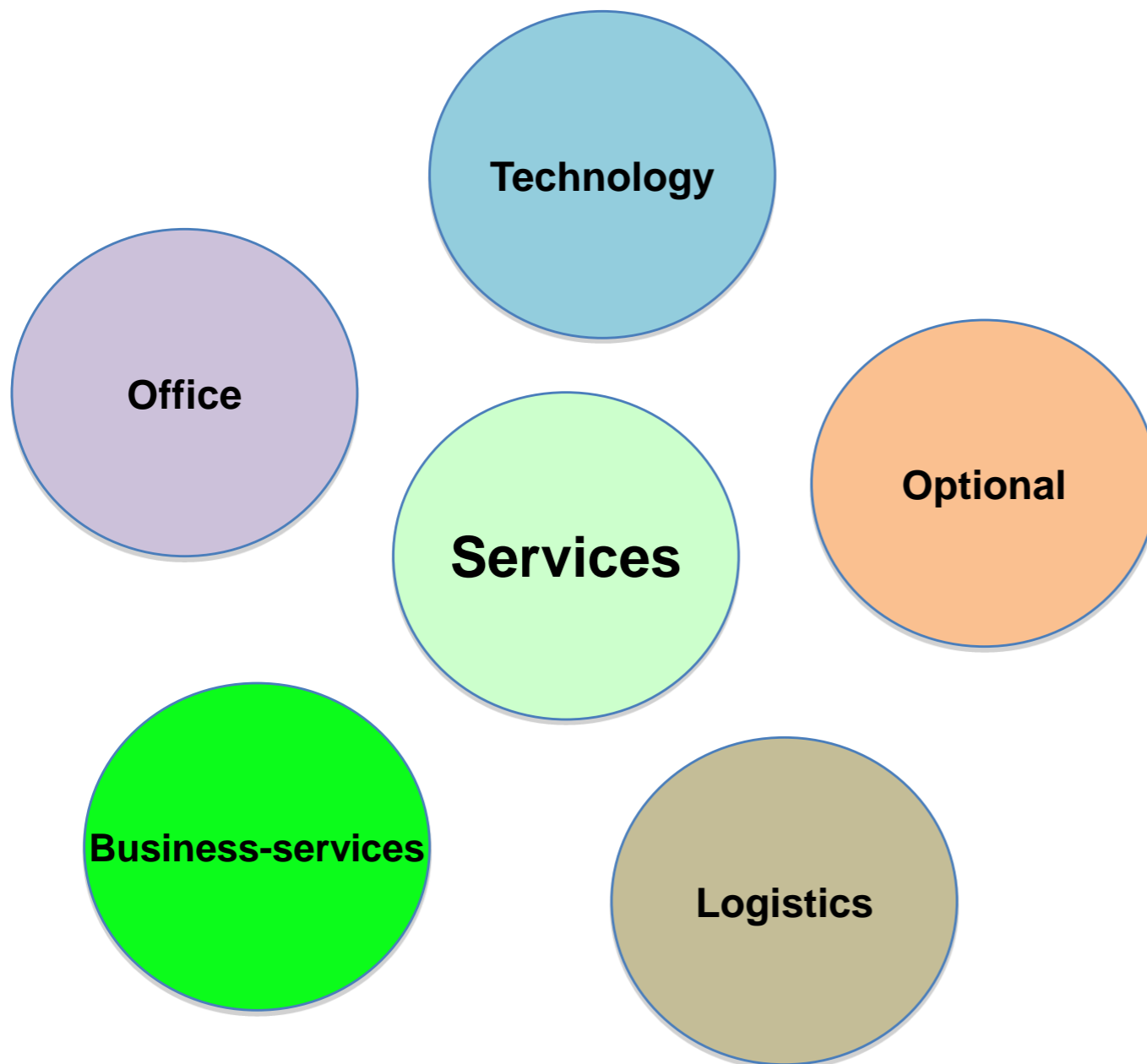
Laboratory of preclinical trials

Vivarium with SPF-animals area

Business center

GMP - production





TECHNOLOGY

- Cellular scaling
- IFA analysis
- Flow cytometry
- PCR-analysis
- Laboratory control

OPTIONAL

- Pre-preclinical trials
- Preclinical trials
- Clinical trials (phase I и II)
- Formation of dossier for the drug
- Formation set of documents for the product certification

LOGISTICS

- Complete and operational research support by necessary reagents and supplies

BUSINESS-SERVICES

- Business consulting
- Attraction of investment at Preseed and Seed stage
- Development strategy of exclusive rights protection
- Project "package"
- Project management

OFFICE

- Secretarial services
- Accounting services

▶ PRIORITIES

NEW DRUGS

- Oncology
- Immunology
- Autoimmune diseases
- Neurodegenerative diseases
- Bacteriophages
- Cardiology
- Veterinary medicine

BIOMEDICAL TECHNOLOGIES

- Regenerative medicine technologies
- Drug delivery technologies
- Genomic and post-genome technologies
- High-technology sequencing

ENVIRONMENT PROTECTION TECHNOLOGIES

- Waste processing
- Wastewater and soil treatment
- Biosecurity

INDUSTRIAL BIOTECHNOLOGY

- Food supplements
- Animal feed
- Bioenergetics

The aim of the project work - formation pool of potential residents by the time of commissioning of the business incubator

▶ RESEARCH DEVELOPMENT PROGRAMS

Comprehensive study of humans, nanomaterials

Development of new
generation thrombolytic

Drug for treatment autoimmune diseases
based on recombinant antibodies to
interferon-gamma

Membrane active photosensitizer based on
borated chlorine for tumor therapy (preclinical
stage)

Development of composite implants
based on hydroxyapatite for bone
tissue regeneration

Biopolymer drug formulation
of the taxane group

► REQUIREMENTS FOR RESIDENTS

- Small innovative companies
- Relevance to the portfolio areas of the incubator
- Business-plan of future development
- Presence of co-investor
- Presence of intellectual property, exclusive rights which are owned by the company

The maximum term of residence - 3 years

Development and training system for new industry professionals

Results:

1. Supplementary education program for managers of venture capital funds "Fundamentals of biotechnology." Partners from the bio-industry - Fund "Skolkovo" Biofond RVC.
2. Continuing education program in the field of biopharmaceuticals - "From the idea to the patient." Partner - Pfizer Corporation.
3. The program of further education in the field of pre-clinical trials of medicinal products based on international standards GLP. Partners – RUSNANO Corporation, Kaluga pharmaceutical cluster.

International GLP Standards

Educational program in the field of pre-clinical trials according to international GLP standards

Goals:

- Training professionals for developing high quality medical products
- Conducting *invitro* and *invivo* research according to GLP OECD standards
- Practical implementation of GLP requirements in specialized research projects
- Internship in world leading research center

▶ PARTNERS



**MSU
Science
Park**

Thank You!

