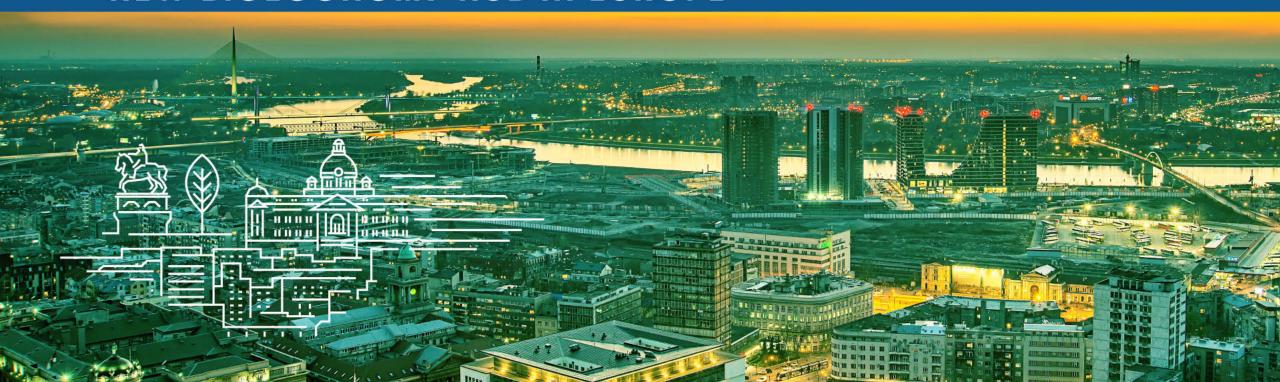
SERBIA TICRES CREATES OPPORTUNITIES



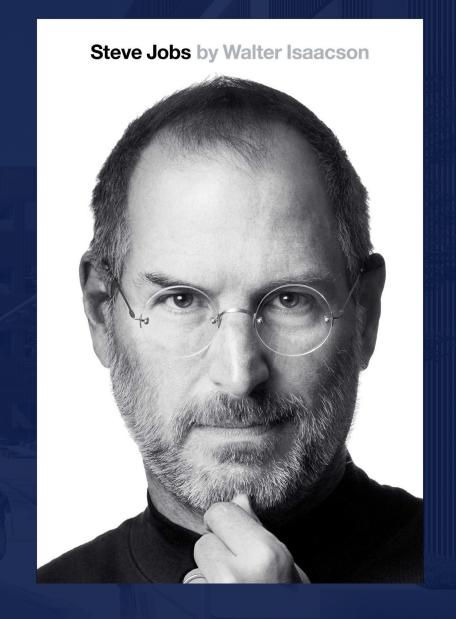
NEW BIOECONOMY HUB IN EUROPE



"I think the biggest innovations of the twenty-first century will be the intersection of biology and technology.

A new era is beginning, just like the digital one"

Steve Jobs, 2011





"Ordinary people may not understand artificial intelligence and biotechnology, but they can sense that the future is passing them by."

Yuval Noah Harari

Located in South-Eastern Europe, Serbia is at the crossroads of the West, the EU, and Asia and open for all

Serbia is one of the few countries in the world where people from the USA, the EU, Great Britain, Russia, China, India, Turkey, the UAE, and other countries can enter without a visa.



Serbia embraced Tech as a top national priority...

Digitalization and the fourth industrial revolution provided a unique opportunity for our country and its citizens to leap forward.

And we have achieved a lot in all areas - education, public administration, economy and setting up infrastructure for further development. We have succeeded in our goal of beginning this important transformation of our society and our economy.

We know that Serbia can do even better.

Join us to continue building on our mutual success.

Prime Minister's Manifesto, October 2020

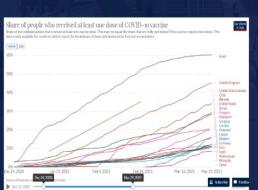


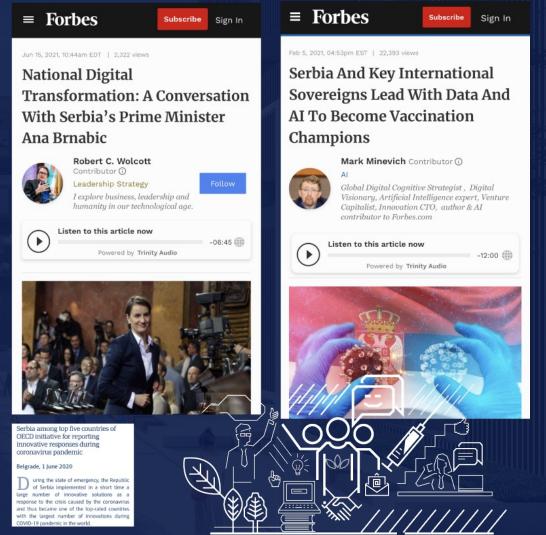
...which hugely paid off during Covid-19.

OECD found that Serbia was among the top five countries in the world in innovative response to the pandemic.









Serbia is **open for business**, and among the best in the world in attracting FDI

Financial Times has ranked **Serbia #1 in the world** in greenfield FDI performance, two times in the last 5 years.

City of Belgrade has been named a **City of the Future** in Southern Europe by the Financial Times.

According to Financial Times: Serbia is "punching almost at 12 times above its weight" in attracting foreign direct investments.

Serbia invested heavily in a strong innovation ecosystem and infrastructure...

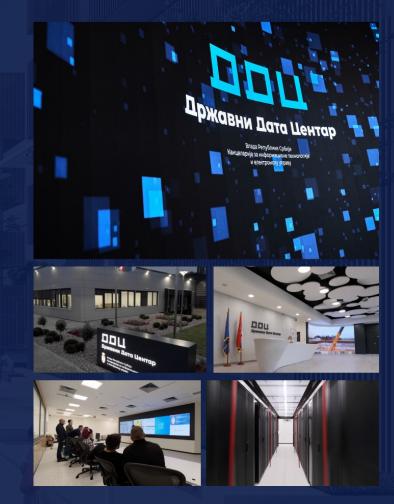
Four Science-Technology Parks: in Belgrade, Novi Sad, Niš and Čačak, offer the ecosystem of product development labs, mentors, investors and potential partners, knowledge sharing and all kinds of assistance for faster growth.





...supported by a state-of-the-art data center with a Nvidia supercomputer...

- The most advanced in the region in terms of technical and security standards
- Hosts key information and communication infrastructure for the Republic of Serbia
- Hosts Nvidia supercomputer with Al platform of the latest generation
- The Center's services are, in addition to state institutions,
 also available to commercial users
- The Center meets the Tier 4 standard, ISO 27001 security standard, ISO 9001 and ISO 20000 quality standards



...and moving in strides in digitalization of healthcare



Health data in Serbia is digital, with already introduced:

- National EHR portal and app
- Central repositoriums of prescriptions and digital imaging (PACS)
- Software based management for Covid 19 testing and vaccinations
- Digital processes for administering the deceised
- Digital administration of clinical studies applications

And many advanced applications, like clinical decision support systems and Al based solutions, in the works.

Recently, Serbia established the first Al research Institute and national Al strategy in SEE...



First country in
Southeast
Europe to
develop a
National Al
Strategy



Established Al Institute with experts from Serbia and the world



Al introduced in two mandatory subjects in elementary schools, and in three subjects in high schools



Invested in 12 Al research groups at universities in Serbia



7 Masters level programs in Al Technology, securing a flow of 300 trained degree holders annually

and, together with **World Economic Forum**, opened Centre for the Fourth Industrial Revolution

Built to **support smart application of new technologies** in two priority areas:

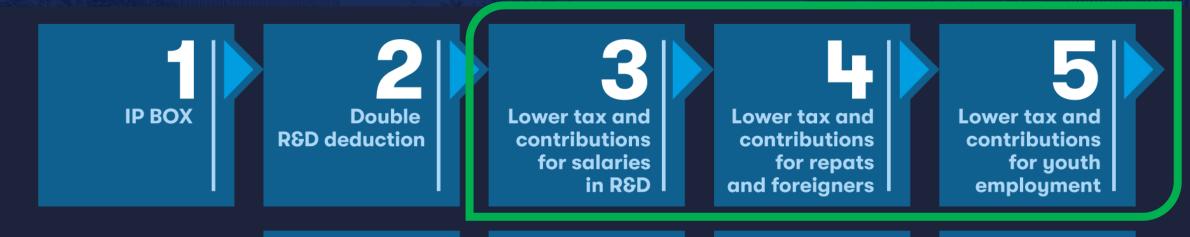
- 1. biotechnology and bioengineering and
- 2. Al in healthcare

The Centre is assigned to develop regulatory and cooperation framework that will enable and boost translation of biotech research discoveries into medical and biosynthetic products.

Genomic and biomedical repository of Serbia is also in development.



New regulations provide **strong tax incentives** for the development of the knowledge-based economy





Favorable taxation of employee share plans

Salary tax and social contributions exemption for startup founders Tax credit for investing in a startup

Tax credit for private individuals for investing in a Venture Capital fund

This **technology-driven ecosystem** has created an attractive environment for foreign direct investment...

















































...and notable acquisitions of Serbian startups are worth





















DMS NS

Serbia now recognizes the revolutionary potential in convergence between life sciences and ICT in at least four key areas of life...

Medicine.

with biologic treatments and personalized medicine

Agriculture

and

food production,

with digital agriculture and personalized nutrition

Energy,

with new sustainable bio-based energy sources

Environment

and sustainability, with custom made microorganisms that will clean the Earth









...driven by new technology advancements, like **synthetic biology**...





Biology is the most advanced manufacturing technology on the planet. We program cells to make everything from food to materials to therapeutics.

...that is quickly becoming mainstream.

BCG Weekly Brief

February 14, 2022

Synthetic Biology: Coming to Disrupt an Industry Near You

McKinsey calls this "The Bio Revolution: Innovations transforming economies, societies, and our lives"

Today's pipeline of applications is a fraction of the far-reaching impacts expected ahead

For this research, a library of about 400 use cases was compiled that already constitute a visible pipeline for the years ahead. The library comprises applications that are scientifically feasible today and likely to be commercially viable by 2050. Over the next ten to 20 years these applications alone could have direct economic impact of between \$2 trillion and \$4 trillion globally per year.

Serbia now builds on its ICT success and strong life science, establishing itself as a **new bioeconomy hub in Europe**

- Serbia will soon be home to the BIO4 Campus, a multidisciplinary R&D complex for life sciences
- BIO4 Campus will be a vibrant concentration of people, knowledge and infrastructure in these fields



The BIO4 Campus will occupy almost 20 hectares of land, focusing on **4 key topics**:

Biomedicine

Medicine based on the application of the principles of natural sciences in clinical practice



Biotechnology

Using living organisms and their derivatives to develop or make useful products and processes



Bioinformatics

Application of computational tools and analysis in capturing and interpreting biological data



Biodiversity

Study of the variety of life on Earth at all its levels, from genes through organisms and ecosystems



The BIO4 Campus will be built in traditional life science area of the capital city **Belgrade**...

- Close to Institute for
 Virology, Vaccines and
 Sera "Torlak"
- And to national regulator for medicines and medical devices



...and will be home to a multidisciplinary set of tenants, creating an ideal ecosystem for innovation ...

Eight scientific institutes

R&D centers of pharmaceutical, biotech, and life science companies

2 Three faculties from University of Belgrade

Extension of Science-Technology Park Belgrade for full support to BIO4 startups

3 Accredited animal facility

Convention and multimedia museum center for fostering collaboration







8 scientific institutes:

Institute for Molecular Genetics and Genetic Engineering

Institute for Artificial Intelligence

Centre for Sustainable Management of Bioresources and Natural Products of the Institute for Biological Research "Sinisa Stankovic"

Institute for Medical Research

Institute for Multidisciplinary Research

Bioinformatics and Biotechnology of the / Institute "**Biosense**"

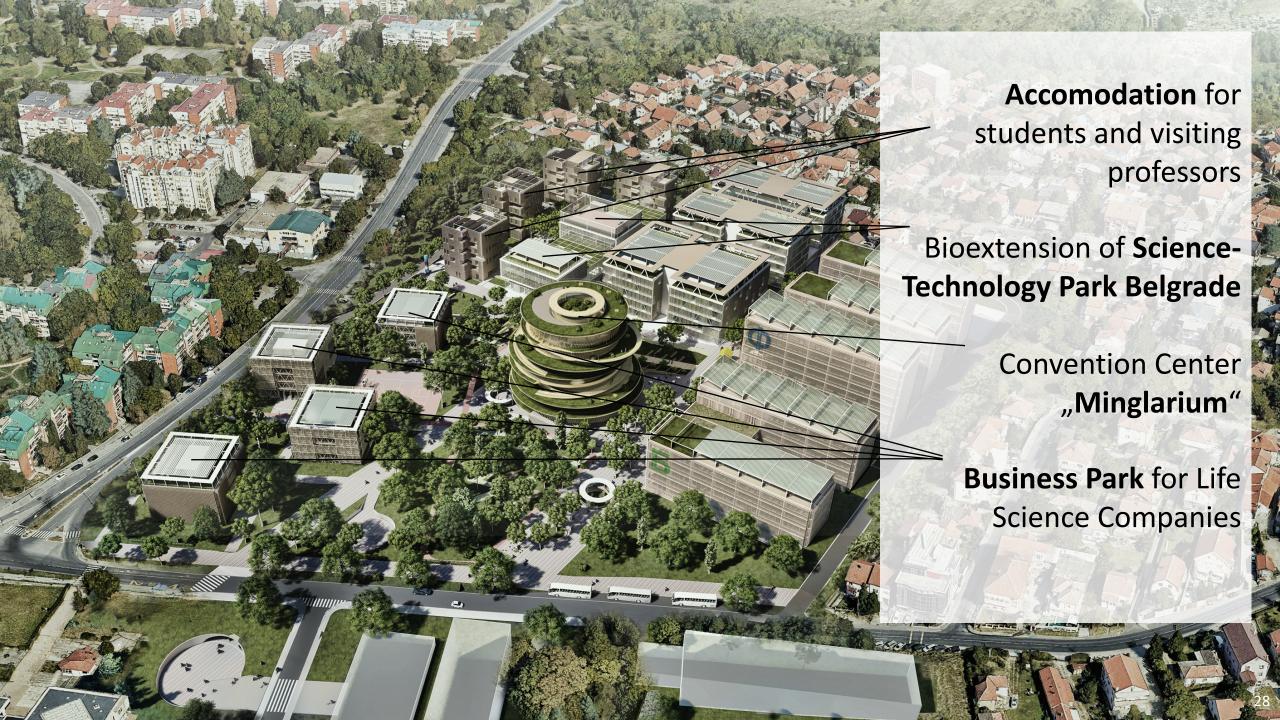
Center of Excellence in Cardiovascular

Medicine of Institute for Cardiovascular

Diseases Dedinje

Institute for Appliance of Nuclear Energy

























Relevant examples of other campuses around the world

- 1. Imperial College London White City Campus
- 2. Skolkovo Biological and Medical Technologies Cluster
- 3. Ecole Polytechnique Fédérale de Lausanne EPFL
- 4. Campus Biotech Geneva
- 5. Massachusetts Institute of Technology
- 6. Cambridge and Oxford
- 7. Barcelona Biomedical Research Park
- 8. The Hadassah Medical Center Hebrew University Biotechnology Park (JBP)
- 9. Biopolis SIngapore



Biopolis at one-north is one of JTC's key projects to boost the biomedical industry as Singapore's next engine of economic growth. As the premier research hub for Biomedical Sciences, it hosts leading public and private biomedical research institutes and organisations, and anchors the development of the entire research and development (R&D) value chain of life sciences. This encompasses basic drug discovery, clinical development and medical technology research. The Biopolis comprises 5 phases, with JTC undertaking the development of Phase 1 in 2003. Subsequent phases were developed by private developers and companies such as Ascendas and Procter & Gamble.



10 HECTARES

±2 BILLION
INVESTMENT IN OUR
WHITE CITY CAMPUS

£85 MILLION

1,300

CIENTISTS, CLINICIANS ND ENGINEERS ON CAMPL Y THE END OF 2019 The White City Campus is less there miles from our existing So Kensington Campus and just 50 from our campus at Hammersmi Hospital. With three undergrous stations, White City has excelle transport links to the rest of London and beyond It lies.

13 minutes
from the West End by tube

Around
22 minutes
from the City of London by tube

2 miles from Old Oak Common a potential future connect Shinfeld Street
Apartments and
Apart

AstraZeneca moved its headquarters from London to Cambridge campus

AstraZeneca moves HQ to Cambridge in research revamp

AstraZeneca, the drugmaker, is to invest \$500m to build new headquarters in Cambridge to tap into the city's academic talent and expertise in bioscience research as part of a major R&D overhaul.

By Louisa Peacock • 18 March 2013 • 3:17pm





Similar trend of attracting companies can be expected of BIO4 Campus as well, and initial interest is already visible.

Work on BIO4 has already begun, with Campus operations commencing in 2025

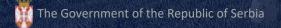
2021 Government approved BIO4 Campus 2021 Nvidia supercomputer installed

2021
Center for
Genome
Sequencing and
Bioinformatics
opened

2022
Construction

development projects 2023-2024 BIO4 Campus being built

Q1 2025
BIO4 Campus
becomes
operational



BIO4 will be the campus, but already is the platform to connect and foster collaboration

We cordially invite:

Companies



Companies, large and small, domestic and foreign, to cooperate with our scientific institutes and establish R&D and CDMO presence

Investors



Investors, to support innovations created in the BIO4 Campus

Real Estate Developers



Real estate developers, to build facilities for companies within the BIO4 Campus



Business meets education and science in various focus areas, like:

Al in Pharma & Healthcare	Molecular Biomedicine	Socio- microbiology	Biochemical Analysis	In Vivo Experiments	Biochemistry	Environmental Protection
Deep Computer Vision	Molecular Biology	Molecular Microbiology	Protein and Gene Expression	In Vitro Experiments	Cytology	Molecular Biology
Natural Language Processing	Human Molecular Genetics	Probiotics and Microbiota- Human Interaction	Cell Culture Studies	Patho- morphological studies	Animal and Plan Physiology	Immunology
Multimodal and Distributed Al	Eco-biotech and Drug Development	Plant Molecular Biology and Biodiversity	Stereology	Microbiologica I Analysis	Neuroscience s	Genetics

Partners and collaborators benefit from a very supportive ecosystem

Access to Skilled Talent

Cutting Edge Infrastructure

Strong Government Support

Highly skilled people, flexible to work on the most challenging projects.

Brand new buildings, labs and ICT infrastructure.

From generous tax incentives to supportive regulation.







Partners and collaborators benefit from a very supportive ecosystem

Access to Skilled Talent

Strong Government Support



Available and skilled researchers

flexible to work on the most challenging projects



Integration with medical system

which enables access to patients for clinical trials, and a comprehensive set of experts in all medical specialties and sub-specialties



Access to the best students

in the field, with an opportunity for joint creation of educational programs and courses in relevant fields



Access to startups

with numerous opportunities for collaboration

Partners and collaborators benefit from a very supportive ecosystem

Access to Skilled Talent

Cutting Edge Infrastructure

Strong Government Support



Comprehensive research infrastructure

Including biobanks, world-class data center, supercomputer, genome sequencing center etc.



Access to facilities

designed for collaboration and innovation



Accredited vivarium

with zebra fish, mice, guinea pigs, snakes etc.

Partners and collaborators benefit from a very supportive ecosystem

Access to Skilled Talent

Cutting Edge Infrastructure

Strong Government Support



IP security in place

with a strong regulatory ecosystem that incentivizes R&D and provides legal protections of intellectual property



Strong tax incentives

including lower tax and social contributions for employees in R&D, diaspora returning home, foreigners and youth employment



Government's commitment

to supporting development of the biosciences sector

