

## Serbia Accelerating Innovation and Growth Entrepreneurship (P170185)

EUROPE AND CENTRAL ASIA | Serbia | Finance, Competitiveness and Innovation Global Practice | IBRD/IDA | Investment Project Financing | FY 2020 | Seq No: 5 | ARCHIVED on 28-Jul-2022 | ISR52329 |

Implementing Agencies: Ministry of Education, Science and Technological Development, Republic of Serbia

#### **Key Dates**

### **Key Project Dates**

Bank Approval Date: 13-Dec-2019	Effectiveness Date: 18-May-2020
Planned Mid Term Review Date: 24-Oct-2022	Actual Mid-Term Review Date:
Original Closing Date: 30-Sep-2024	Revised Closing Date: 30-Sep-2024

#### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project's development objective is to improve (i) the relevance and excellence of scientific research, and (ii) innovative entrepreneurship and access to finance for enterprise growth, as a way of contributing to Serbia's growth and competitiveness.

Relevance of research refers to the potential of research results to be commercialized on the market, thus contributing to the economy, while excellence refers to international recognition of the quality of the research.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

### Components Table

### Name

No

Research Sector Reforms:(Cost \$38.00 M) Enterprise Acceleration:(Cost \$8.00 M) Project Implementation, Monitoring, Capacity Building:(Cost \$2.00 M)

## **Overall Ratings**

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	Satisfactory	Satisfactory
Overall Implementation Progress (IP)	Moderately Satisfactory	Moderately Satisfactory
Overall Risk Rating	Moderate	Moderate

## Implementation Status and Key Decisions

Project implementation is advancing well. To ensure continued timely progress toward the Project Development Objectives, the Bank team is discussing with the PIU adapting current disbursement arrangements to better suit implementation needs. The PIU continues to be effective in coordinating tasks across the responsible agencies and ministries, including those related to procurement, financial management, technical implementation, and overall project management. Over the past months, the PIU has grown in terms of experience and expertise, and has shown great competence and efficiency, dedicating extensive efforts in the RDI transformation component. Considering the scope and volume of work, and the number of RDIs participating in the transformation process, increasing overall capacity of the PIU, particularly building the capacity for Environment & Social (E&S) safeguards, as well as for managing the RDI sub-component, remains a priority. Moreover, all project stakeholders are



expected to further benefit from additional technical assistance, financed by the European Union's Instrument for Pre-accession Assistance (EU IPA) contribution to SAIGE.

Ongoing programs of the Science Fund are progressing well. After the initial delays in evaluation and selection, implementation of the IDEAS Program, the largest program of the SF, is now underway. The Special COVID-19 Program, first to be supported by SAIGE, is on track. A new IDENTITIES Program was launched in March 2022, while two new programs (GREEN and PRISMA) are expected to be launched in June. Administrative procedures have been adapted to enable timely review and evaluation of applications (estimated at around 1000). The SF has made progress in building its institutional capacity, including adding a full time, experienced Financial Manager.

The Katapult Acceleration Program, launched in October 2021, is progressing well. Out of 148 submitted applications, 41 were pre-selected and invited to present their companies to the independent investment committee, before 19 companies were selected for participation in the first cohort. The onboarding week (March 2022) was followed by the in-person Katapult *Residency week* (April), where companies participated in intensive training and matched with over 30 mentors from Serbia and around the world. Following the intensive mentoring and capacity building concourse during the eight-week period, all 19 companies had the opportunity to present their fundraising pitches to over 40 early-stage investment funds and over 20 angel investors, at a brisk, in-person *Demo Days* session (May 2022). This resulted in over 60 post-demo meetings scheduled between investors and participating companies. Three companies are actively discussing terms of possible investment.

The R&D Institutes transformation process is progressing well. The six RDIs selected in the first group signed MoUs in December 2021, and the Agreements with MoESTD, related to the transfer of funds in April 2022, to allow implementation of their transformation plans (TPs). International and local experts and consultants have been engaged to work closely with the RDIs in executing their action plans and meeting the set milestones. The second group of six RDIs completed the external assessment process and developed their respective TPs. Implementation is expected to start soon by four (4) of the six (6) RDIs in this group, following the signing of the agreements with the Ministry. The remaining two (2) RDIs are awaiting budget details from the Government before finalizing their Transformation Plans. The third group of eight RDIs started the external assessment process in May 2022. In addition, several other RDIs and faculties, namely those related to biotechnology and envisaged to participate in the BIO4 Campus, have expressed interest in undergoing the assessment and taking part in the transformation program. This component has surpassed expectations in terms of strong interest from the RDIs, as well as their willingness and readiness to transform and evolve in line with best practices. The Diaspora Facility, aiming to engage the diaspora in the development of research and innovation ecosystem in Serbia, has been limited in implementation and held on hold due to COVID-19 travel restrictions. Despite the challenges, academic diaspora members have been included in diverse roles under both SF and IF calls.

The Bank team was also engaged in high-level discussions about the strategic direction for the Innovation Fund. After a decade of successfully implementing various programs, and expanding the offering of different instruments, there is a sense that this is a good time to take stock and optimize the IF portfolio, especially given that some of the programs overlap in terms of target audience and support provided. The Bank and the IF agreed to continue the dialogue on this, including in the context of the upcoming evaluation of various programs supported by the SAIGE project.

#### Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	Substantial	Moderate	Moderate
Macroeconomic	Moderate	Moderate	Moderate
Sector Strategies and Policies	Substantial	Moderate	Moderate
Technical Design of Project or Program	Substantial	Moderate	Moderate
Institutional Capacity for Implementation and Sustainability	Substantial	Moderate	□Moderate
Fiduciary	Moderate	Moderate	Moderate
Environment and Social	Moderate	Moderate	Moderate
Stakeholders	Substantial	Moderate	Moderate
Other			
Overall	Substantial	Moderate	Moderate



### Results

# PDO Indicators by Objectives / Outcomes

	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	1,000.00	854.00	1,077.00	1,100.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:	community. A time and quality.	ures both the quantity and quali lag can be expected between pr indicator for end-2020 is 1,067 uarter of 2021.	oject activities and their im	pact on publication numbe
Number of collaborati	ve applied research projects (N Baseline	lumber, Custom) Actual (Previous)	Actual (Current)	End Target
/alue	0.00	10.00	291.00	150.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:	number of projects	ures the improvement of releval which include collaborations wit icator will include all such collab	h international researchers	diaspora, private sector
	preneurship and access to finate enerated by participating composition Baseline	panies (USD million) (Number, C		End Target
	enerated by participating comp		Custom) Actual (Current) 0.00	End Target 4.00
► External investment g	enerated by participating comp Baseline	panies (USD million) (Number, C Actual (Previous)	Actual (Current)	

0.00

19.00

Value

0.00

50.00



Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:	participating compa market. Products ar in the Oslo Manual first time, products a components and ma	Id services will be considered for measuring innovation. The and services will qualify if the aterials, software used as par istics." Further, multiple impro-	proved innovative products I to be new or improved if th us, in addition to products o y achieve "improvements in t of the product or service, i	and services introduced to the ney meet the criteria specified r services marketed for the technical specifications,

# Intermediate Results Indicators by Components

Amount of grant av	vards by SF, cumulative (USD m	illion) (Amount(USD), Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.30	3.11	25.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:		ook at the level of SF disbursem of this funding is allocated to pro		
Percentage of wh	ich going to projects with women	principal investigators (Percent	age Custom Supplement)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value		56.00	56.00	25.00
	0.00	30.00	50.00	20.00
	onal funds attracted by SF suppo			20.00
				End Target
Amount of internati	onal funds attracted by SF suppo	orted projects (USD million) (Am	ount(USD), Custom)	
► Amount of internati Value	onal funds attracted by SF suppo Baseline	orted projects (USD million) (Am Actual (Previous)	ount(USD), Custom) Actual (Current)	End Target
	onal funds attracted by SF suppo Baseline 0.00 31-Dec-2019 This indicator will n additional research	orted projects (USD million) (Am Actual (Previous) 0.00	ount(USD), Custom) Actual (Current) 0.00 07-Jul-2022 ms supported by the SF wi ces (EU and others). A time	End Target 5.00 29-Dec-2023 Il be able to generate e-lag can be expected
► Amount of internati Value Date Comments:	onal funds attracted by SF support Baseline 0.00 31-Dec-2019 This indicator will n additional research between the begins	Actual (Previous) 0.00 10-Nov-2021 neasure how much research tea funding from international sour- ning of the their SF funding and	ount(USD), Custom) Actual (Current) 0.00 07-Jul-2022 ms supported by the SF wi ces (EU and others). A time	End Target 5.00 29-Dec-2023 Il be able to generate e-lag can be expected
► Amount of internati Value Date Comments:	onal funds attracted by SF suppo Baseline 0.00 31-Dec-2019 This indicator will n additional research	Actual (Previous) 0.00 10-Nov-2021 neasure how much research tea funding from international sour- ning of the their SF funding and	ount(USD), Custom) Actual (Current) 0.00 07-Jul-2022 ms supported by the SF wi ces (EU and others). A time	End Target 5.00 29-Dec-2023 Il be able to generate e-lag can be expected
Amount of international value Date Comments:	onal funds attracted by SF support Baseline 0.00 31-Dec-2019 This indicator will n additional research between the begins	Actual (Previous) 0.00 10-Nov-2021 neasure how much research tea funding from international sour- ning of the their SF funding and	ount(USD), Custom) Actual (Current) 0.00 07-Jul-2022 ms supported by the SF wi ces (EU and others). A time	End Target 5.00 29-Dec-2023 Il be able to generate e-lag can be expected
► Amount of internati Value Date Comments:	onal funds attracted by SF suppo Baseline 0.00 31-Dec-2019 This indicator will n additional research between the beginn	Actual (Previous) 0.00 10-Nov-2021 neasure how much research tea funding from international source hing of the their SF funding and	ount(USD), Custom) Actual (Current) 0.00 07-Jul-2022 ms supported by the SF wi ces (EU and others). A time obtaining additional grants.	End Target 5.00 29-Dec-2023 Il be able to generate e-lag can be expected



Comments:		ure the scientific output of SF orted projects. A time-lag of tw		quantity of publications
Number of SF staff tr	rained (Number, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	9.00	34.00	20.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:		ing the intermediate output of ooking at the total number of \$		
ubcomponent 1.2. RD	I Reforms			
Establishment of Inst	titutional Funding of SROs (Text, Cu	istom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Law on Science and	Partially implemented	Partially implemented: new temporary institutional financing	New financing model
value	Research adopted	r aniany implemented	model introduced, being revisited by a working group	implemented
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:		ne establishment of the proper I funding for public SROs.	r legal framework that suppo	orts RDI reforms throug
► Number of internal a	ssessment of RDIs (Number, Custor	m)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	61.00	61.00	20.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:	basis for external asses	ure the number of internal ass sments. previous ISR should be 61, ins		
► Number of external a	assessments of RDIs (Number, Cust	om)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	6.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
	This indicator will measure	ure the appetite for RDI reform	ns by looking at the number	of RDIs volunteering to



	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	0.00	6.00	4.00			
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023			
Comments:	This indicator will me	easure the number of RDIs whi	ch undergo reforms suppor	ted by the project.			
				,			
Number of collabora	tions between participating RDIs	and private sector/internationa	l entities (Number, Custom	)			
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	0.00	271.00	75.00			
	21 Dec 2010	10-Nov-2021	07-Jul-2022	29-Dec-2023			
Date	31-Dec-2019	Comments: This indicator will look at the output of the RDI reforms by measuring the number of collaborations established by RDIs with private sector/international entities.					
	This indicator will loo			per of collaborations			
	This indicator will loo			per of collaborations			

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	70.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:	Number of Diaspora mem Diaspora Program.	bers which have initiated coll	aborations with Serbian re	searchers through the

Number of Serbian researchers participating in the program (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	0.00	0.00	150.00	
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023	
Comments:	Number of Serbia of these research	n researchers who have establish ers are women.	ned collaborations with Dias	spora and what percentage	
□Percent of which	n are women (Percentage, Custo	m Supplement)			
□Percent of which	n are women (Percentage, Custo Baseline	m Supplement) Actual (Previous)	Actual (Current)	End Target	
□Percent of which Value			Actual (Current) 0.00	End Target 25.00	
Value	Baseline 0.00	Actual (Previous) 0.00		0	
Value	Baseline	Actual (Previous) 0.00		0	



	0.00	0.00	0.00	20.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:		ures the scientific output of the lag of two years can be expect		the number of joint scienti
Number of internat	ional R&D institutions participating	g in the Program (Number, Cus	tom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	20.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:	This indicator meas program.	ures the interest generated in i	nternational R&D institution	s for participating in the
component 2. Enterp	rise Acceleration			
Number of enterpri	ses completing acceleration progr	am (Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	19.00	100.00
Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
	This intermediate in	dicator measures the number of		e acceleration program. It
Comments:		h percent of these are founded	by at least one woman.	
	also measures whic	h percent of these are founded		
	also measures whic	der (Percentage, Custom Supp	plement)	
□Percentage of wh	also measures whic iich have at least one woman foun Baseline	der (Percentage, Custom Supp Actual (Previous)	blement) Actual (Current)	End Target
	also measures whic	der (Percentage, Custom Supp	plement)	End Target 20.00
□Percentage of wh Value	also measures whic iich have at least one woman foun Baseline	der (Percentage, Custom Supp Actual (Previous) 0.00	Actual (Current) 21.00	20.00
□Percentage of wh Value	also measures whic iich have at least one woman foun Baseline 0.00	der (Percentage, Custom Supp Actual (Previous) 0.00 t 10% annual growth one year a	Actual (Current) 21.00 after the program (Number,	20.00 Custom)
<ul> <li>Percentage of who</li> <li>Value</li> <li>Number of acceleration</li> </ul>	also measures which nich have at least one woman four Baseline 0.00 ated enterprises achieving at least	der (Percentage, Custom Supp Actual (Previous) 0.00	Actual (Current) 21.00	20.00
<ul> <li>□Percentage of wh</li> <li>Value</li> <li>Number of acceler</li> <li>Value</li> </ul>	also measures whic lich have at least one woman foun Baseline 0.00 ated enterprises achieving at least Baseline	der (Percentage, Custom Supp Actual (Previous) 0.00 10% annual growth one year a Actual (Previous)	Actual (Current) 21.00 after the program (Number, Actual (Current)	20.00 Custom) End Target
<ul> <li>Percentage of who</li> <li>Value</li> <li>Number of acceleration</li> <li>Value</li> <li>Value</li> <li>Date</li> </ul>	also measures which which have at least one woman four Baseline 0.00 ated enterprises achieving at least Baseline 0.00 31-Dec-2019 This indicator meas	der (Percentage, Custom Supp Actual (Previous) 0.00 t 10% annual growth one year a Actual (Previous) 0.00 10-Nov-2021 ures the output of the accelerate ompleting the program, been ab	Actual (Current) 21.00 after the program (Number, Actual (Current) 0.00 07-Jul-2022 tion program by looking at th	20.00 Custom) End Target 30.00 29-Dec-2023
<ul> <li>□Percentage of who</li> <li>Value</li> <li>▶ Number of acceler</li> <li>Value</li> <li>Date</li> <li>Comments:</li> <li>▶ Percentage of SF a</li> </ul>	also measures which also measures which baseline 0.00 ated enterprises achieving at least Baseline 0.00 31-Dec-2019 This indicator meas which have, after co after program comp	der (Percentage, Custom Supp Actual (Previous) 0.00 t 10% annual growth one year a Actual (Previous) 0.00 10-Nov-2021 ures the output of the accelerat mpleting the program, been ab	Actual (Current) 21.00 after the program (Number, Actual (Current) 0.00 07-Jul-2022 tion program by looking at the ole to generate at least 10%	20.00 Custom) End Target 30.00 29-Dec-2023 abenumber of enterprises
<ul> <li>Percentage of who value</li> <li>Number of acceler</li> <li>Value</li> <li>Value</li> <li>Date</li> <li>Comments:</li> </ul>	also measures which also measures which baseline 0.00 ated enterprises achieving at least Baseline 0.00 31-Dec-2019 This indicator meas which have, after co after program comp	der (Percentage, Custom Supp Actual (Previous) 0.00 t 10% annual growth one year a Actual (Previous) 0.00 10-Nov-2021 ures the output of the accelerat mpleting the program, been ab	Actual (Current) 21.00 after the program (Number, Actual (Current) 0.00 07-Jul-2022 tion program by looking at the ole to generate at least 10%	20.00 Custom) End Target 30.00 29-Dec-2023 abenumber of enterprises



Date	31-Dec-2019	10-Nov-2021	07-Jul-2022	29-Dec-2023
Comments:		d IF will conduct one online ction of grant applicants with		programs and this indicator will nt processes.

#### **Overall Comments**

Most of the indicators that have been exceeded are for the RDI component, where interest in reforms by individual RDIs has been exceeded expectations.

Please note that while the Diaspora Facility has been delayed due to the pandemic, there are 22 projects under Science Fund programs with participation of at least one diaspora researcher, funded within IDEAS and COVID-19 programs; there are also 271 ongoing collaborations involving RDIs undergoing transformation, with private sector and international entities.

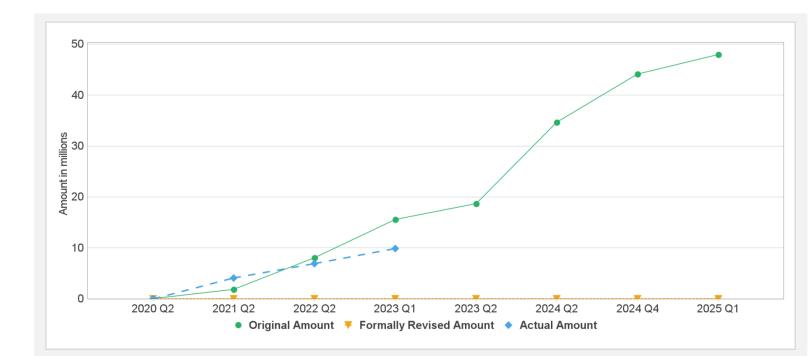
#### **Performance-Based Conditions**

### Data on Financial Performance

### **Disbursements (by loan)**

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disb	ursed
P170185	IBRD-90290	Effective	USD	48.00	48.00	0.00	9.99	38.06		21%
Key Dates (by loan)										
Project	Loan/Credit/TF	Status	Approval Date	e Signi	ng Date	Effectiveness D	oate Orig.	Closing Date	Rev. Closing Date	
P170185	IBRD-90290	Effective	13-Dec-2019	24-D	ec-2019	18-May-2020	30-Se	p-2024	30-Sep-2024	

# **Cumulative Disbursements**



## **Restructuring History**

There has been no restructuring to date.

### Related Project(s)

P174542-Serbia Accelerating Innovation and Growth Entrepreneurship Additional Financing