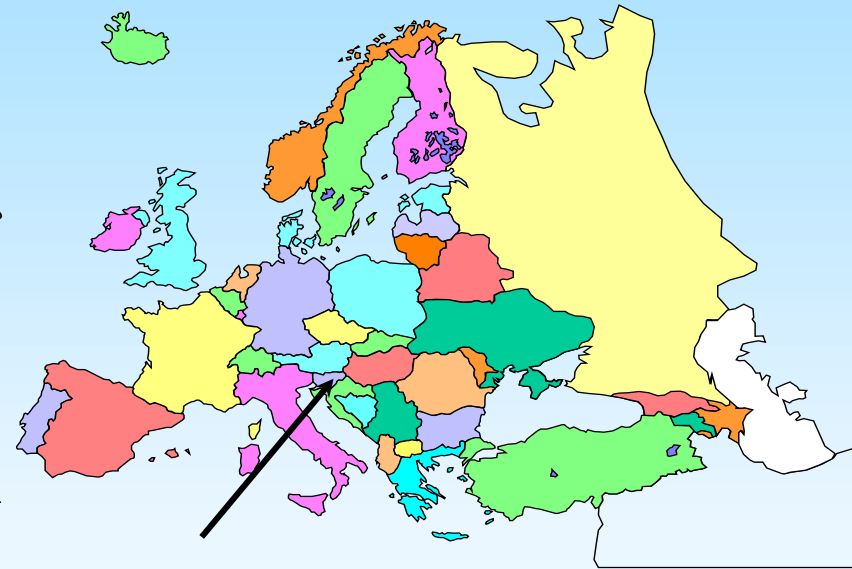


SLOVENIAN RESEARCH AGENCY

Use of Information Tools for Evaluation of Research Activities

The Case of Slovenian Research Agency

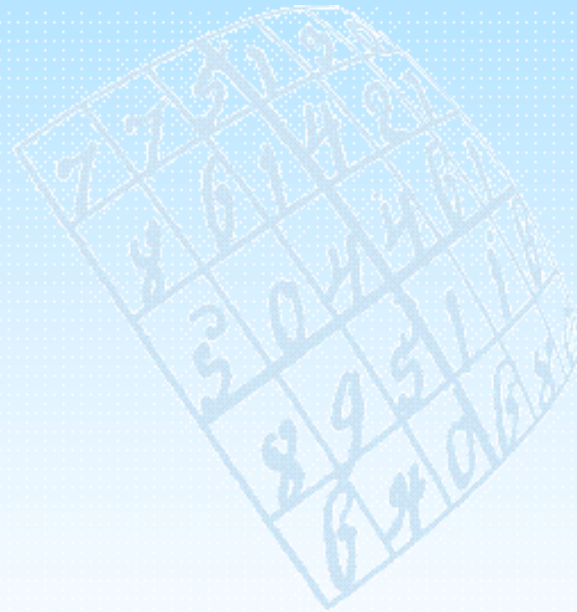


dr. Tomaž Boh

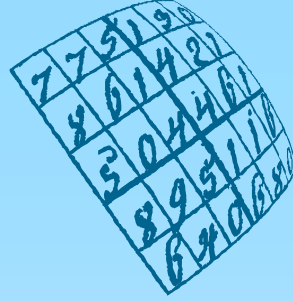
Tomaz.boh@arrs.si

March, 2008

Some basic facts about the SRA



SLOVENIAN RESEARCH AGENCY



SLOVENIAN RESEARCH AGENCY

- **Establishing:** November 2004, Government of the Republic of Slovenia
- **Status:** a legal person of public law; indirect user of the budget of the Republic of Slovenia
- **Budget:** 148 million € per year (2007)

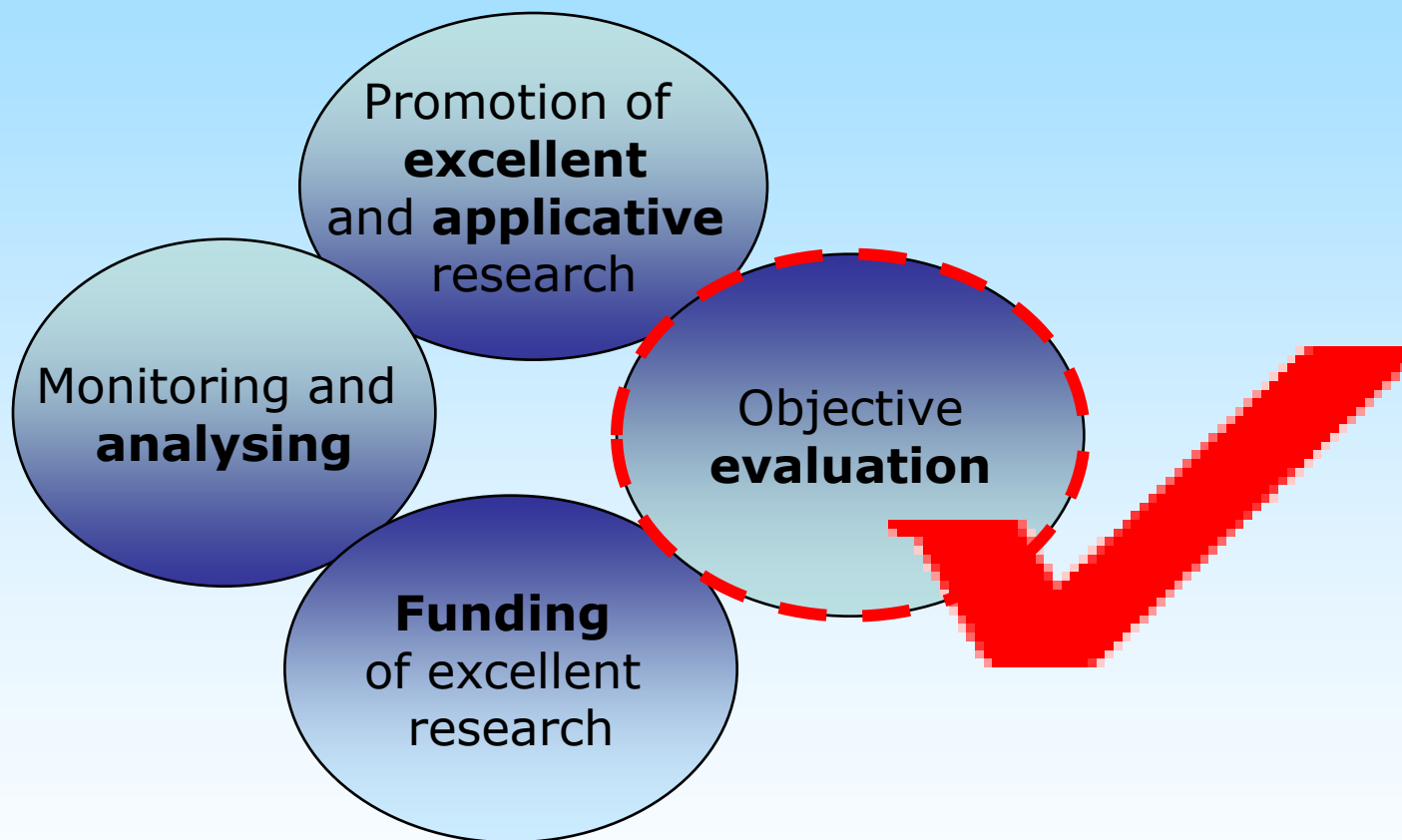


SRA - MISSION

The Slovenian Research Agency as an independent public funding organisation perform tasks relating to the National Research and Development Programme and creation of European Research Area.

- provides framework for scientific research within the national **budget** and other sources
- promotes high **quality** scientific research in Slovenia and its **application**
- fosters internationally comparable **evaluation** standards in Slovenia
- provides the **transparency** of organising research community in Slovenia
- promotes **international** research cooperation
- **analyses** R&D activities and provides science policy expertise

SRA main areas of operation



Instruments included in public call

- Research projects:
 - General and thematic basic and applied projects
 - Post-doctoral applied and basic projects
 - Post-doctoral projects for business sector

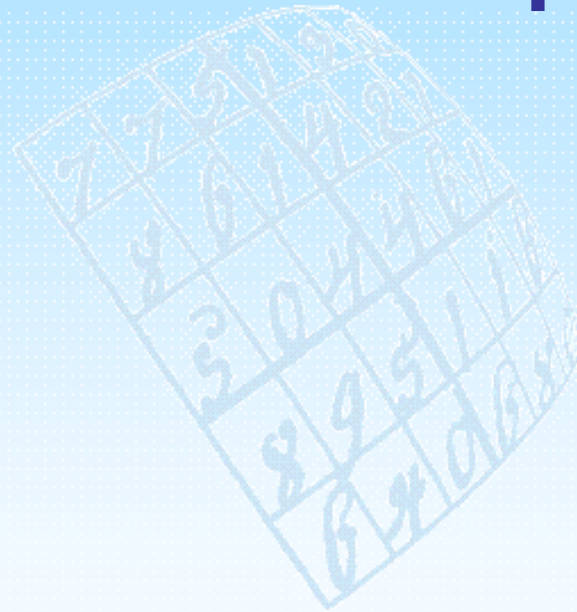
 **indicative budget for projects: € 8.200.000**

- Public tender for mentors of young researchers

 **indicative number of positions for YR: 273 (2M €)**



Main principles of the evaluation process



SLOVENIAN RESEARCH AGENCY

Research evaluation system in Slovenia



CRITERIA	METHODS	INDICATORS
Scientific quality “Quality of proposals”	Peer review	Experts ranking (contents, 5-top outputs...)
Scientific outputs “Quality of research teams”	Bibliometrics	COBISS, citations
Socio-economic relevance	Technometrics	Transfer of knowledge (cooperation with non-academics, contracts - money)

Bodies, participating in the evaluation process

SRA scientific council
of the discipline

*Nomination
of the body*

Temporary body for
projects evaluation

Selected by the body

Peers

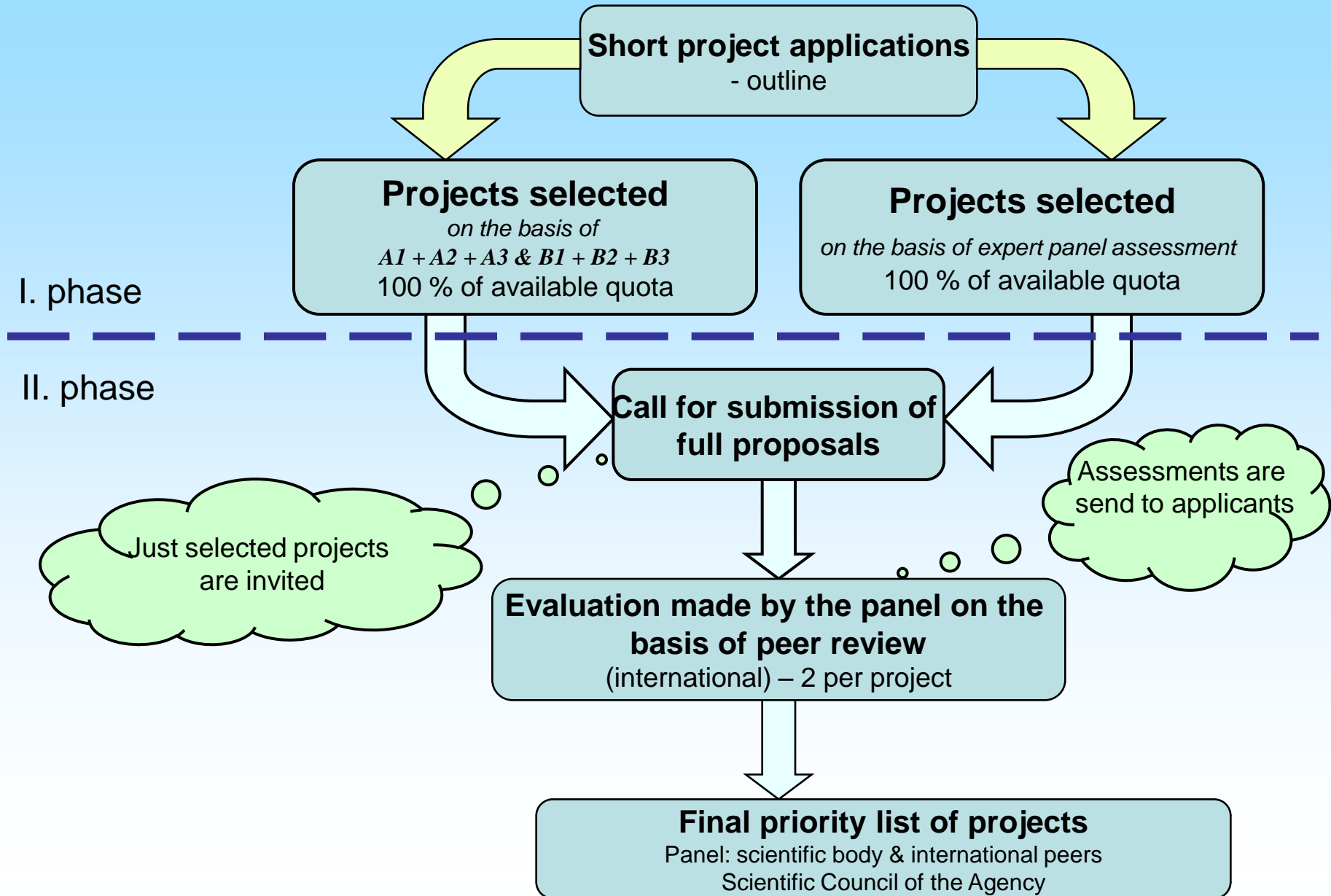
Scientific merit

Socio-economic sign.

Panel of experts



Evaluation system



Main principles of the evaluation - 1

Quantitative criteria

- Quality of scientific records
 - Mark A₁ – publications in last 5 years SICRIS
(cobiss)
 - Mark A₂ – standardized number of citations
(WoS)
- Scientific and socio-economic relevance
 - Mark A₃ – money from sources other than SRA



Main principles of the evaluation - 2

Quality of research proposal – qualitative criteria

- **Mark B₁** – excellence of research results of a mentor/principal investigator (foreign reviewer)
- **Mark B₂** – substance of project proposal or the training programme for YR (Foreign reviewer)
 - **B^a₂** – quality of the proposed training programme/project
 - **B^b₂** – relevance and potential impact of the project
 - **B^c₂** – feasibility of the study (realistic goals)
- **Mark B₃** – results of exceptional socio-economic relevance (domestic reviewer)



Main characteristics of the evaluation process (1)

- Combination of **qualitative** and **quantitative** criteria
 - **Marks A** – bibliometric data - quality of research team
 - **Marks B** – peer reviewers – quality of research proposal
- **National** (economic relevance) and **international** (scientific quality) reviewers (app. 180 foreign reviewers)
- Final list of projects proposed for financing is made by the panel of foreign experts (app. 40 experts)



Main characteristics of the evaluation process (2)

- Methodology for evaluation of research outputs is unique for each field of sciences
- It is approved by the scientific council of the discipline and is constantly improving
- Bibliometric data are used only in the 1st stage of the process
- The database make research results visible

Sources of Quantitative Data - COBISS

The screenshot shows a Mozilla Firefox browser window displaying the COBISS website. The browser's address bar shows the URL http://www.cobiss.si/cobiss_eng.html. The website's main content is in Slovenian, with the title "Kooperativni online bibliografski sistem in servisi" (Co-operative online bibliographic system and services) and the subtitle "Virtualna knjižnica Slovenije" (Virtual library of Slovenia). The central logo features the word "COBISS" in blue, with a globe as the letter 'O'. Below the logo, it says "Virtual Library of Slovenia" and "Co-operative Online Bibliographic System & Services". A button labeled "SLO" is visible, along with the email address cobisservis@izum.si and the copyright notice "© 1997-2008 IZUM".

COBISS.SI

Kooperativni online bibliografski sistem in servisi

Virtualna knjižnica Slovenije

COBISS

Virtual Library of Slovenia

Co-operative Online Bibliographic System & Services

SLO

cobisservis@izum.si

© 1997-2008 IZUM


On-line bibliographic data: COBISS

Tadej Bajd [02813] - Microsoft Internet Explorer

Datoteka Urejanje Pogled Prijubljene Orodja Pomoč

Nazaj Iskanje Prijubljene Večpredstavnost

Naslov http://izum.izum.si/bibliografije/C20060330113807-02813.html Pojdi Links



Tadej Bajd [02813]

Representative bibliographic units

ARTICLES AND OTHER COMPONENT PARTS

1.01 Original Scientific Article

1. BAJD, Tadej, KRALJ, Alojz, ŽEFRAN, Miloš. Unstable states in four-point walking. *J. biomed. eng.*, 1993, vol. 15, march, str. 159-162. [COBISS.SI-ID [400980](#)]
2. BAJD, Tadej, KRALJ, Alojz, KARČNIK, Tomaž, ŠAVRIN, Rajmond, OBREZA, Pavla. Significance of FES-assisted plantarflexion during walking of incomplete SCI subjects. *Gait posture*. [Print ed.], 1994, vol. 2, no. 1, str. 5-10. [COBISS.SI-ID [402260](#)]
3. BALORDA, Zdravko, BAJD, Tadej. Reducing positioning of objects by robot pushing. *IEEE trans. robot. autom.*, 1994, vol. 10, no. 4, str. 535-541. [COBISS.SI-ID [403284](#)]
4. BAJD, Tadej, MUNIH, Marko, KRALJ, Alojz, ŠAVRIN, Rajmond, BENKO, Helena. Voluntary commands for FES-assisted walking in incomplete SCI subjects. *Med. biol. eng. comput.*. [Print ed.], 1995, vol. 33, no. 3, str. 334-337. [COBISS.SI-ID [401492](#)]
5. ŽEFRAN, Miloš, BAJD, Tadej, KRALJ, Alojz. Kinematic modeling of four-point walking patterns in paraplegic subjects. *IEEE trans. syst. man cybern., Part A, Syst. humans*, 1996, vol. 26, no. 6, str. 760-770. [COBISS.SI-ID [403028](#)]
6. BAJD, Tadej, KRALJ, Alojz, KARČNIK, Tomaž, ŠAVRIN, Rajmond, BENKO, Helena, OBREZA, Pavla. Influence of electrically stimulated ankle plantar flexors on the swinging leg. *Artif. organs*, 1997, vol. 21, no. 3, str. 176-179. [COBISS.SI-ID [394068](#)]
7. BAJD, Tadej, ŠTEFANČIČ, Martin, MATJAČIČ, Zlatko, KRALJ, Alojz, ŠAVRIN, Rajmond, BENKO, Helena, KARČNIK, Tomaž, OBREZA, Pavla. Improvement in step clearance via calf muscle stimulation. *Med. biol. eng. comput.*. [Print ed.], 1997, vol. 35, no. 2, str. 113-116. [COBISS.SI-ID [394836](#)]
8. MATJAČIČ, Zlatko, BAJD, Tadej. Arm-free paraplegic standing. Part 1, Control model synthesis and simulation. *IEEE trans. rehabil. eng.*, 1998, vol. 6, no. 2, str. 125-138, ilustr. [COBISS.SI-ID [1056084](#)]
9. MATJAČIČ, Zlatko, BAJD, Tadej. Arm-free paraplegic standing. Part 2, Experimental results. *IEEE trans. rehabil. eng.*, 1998, vol. 6, no. 2, str. 139-150, ilustr. [COBISS.SI-ID [1056340](#)]
10. KAMNIK, Damir, MATIČ, Damir, BAJD, Tadej. Application of model reference adaptive control to industrial robot impedance control. *Intell. robot. syst.*, June 1998, vol. 22, no. 2, str. 152

Dokončano Local intranet

Sources of Quantitative Data - SICRIS

The image shows a screenshot of the SICRIS website as viewed in Microsoft Internet Explorer. The browser window title is "SICRIS - Microsoft Internet Explorer". The address bar shows the URL "http://sicris.izum.si/default.aspx?lang=eng". The website content includes a navigation menu with "Search", "Log in", "News", and "SICRIS". A dropdown menu is open under "Search", listing "Researchers", "Organisations", "Groups", "Projects", and "Programmes". The main content area features the SICRIS logo, which consists of the letters "SI" in a blue box, a stylized atom symbol, and "CRIS" in a blue box, followed by the text "SLOVENIAN CURRENT RESEARCH INFORMATION SYSTEM". Below the logo is a search bar and a button labeled "Database management: IZUM & ARRS". At the bottom, there is a small Slovenian flag, the word "Slovene", and the contact information "Contact: sicris@izum.si". The Windows taskbar at the bottom shows the Start button and several open applications, including Microsoft Office and Internet Explorer. The system tray shows the time as 16:02 and the network status as "Local intranet".

Sources of Quantitative Data - SICRIS

SICRIS - Microsoft Internet Explorer

Datoteka Urejanje Pogled Prijubljene Orodja Pomoč

Naslov <http://sicris.izum.si/search/rsr.aspx?lang=slv&id=4884>

Iskanje Storitve Prijava Obvestila o SICRIS-u

RAZISKOVALEC / SODELAVEC

03661 Splichal Slavko

STATUS: raziskovalec - aktiven v raziskovalni organizaciji

PREDSTAVITEV ZAPOSLITVE PROJEKTI PROGRAMI

KONTAKTNI PODATKI

TELEFON (01) 580 52 42
FAKS (01) 580 51 01
ELEKTRONSKA POŠTA slavko.splichal@quest.arnes.si
WWW NASLOV

DEJAVNOST

↳ **ARRS KLASIFIKACIJA**
5.06.03 - Družboslovne vede / Politične vede / Komunikologija

↳ **KLJUČNE BESEDE**
Komuniciranje, javnost, javno mnenje, množični mediji, komunikacijske teorije, iformacija.

↳ **BIBLIOGRAFIJA**
[Reprezentativna bibliografske enote / Celotna](#)
[Vrednotenje bibliografskih kazalcev raziskovalne uspešnosti po metodologiji ARRS](#)
Citiranost bibliografskih zapisov v WoS, ki so povezani z zapisi v COBIB.SI ([po letih](#), [Δ-indeks](#), [normirani Δ-indeks](#))
[Podatki za razpise \(13.09.2007\)](#)

ZNANJE JEZIKOV (branje / pisanje / govor)

angleški	osnovno / osnovno / osnovno
srbski ali hrvaški (latinica)	osnovno / osnovno / osnovno
nemški	osnovno / - / osnovno
francoski	osnovno / - / -

IZOBRAZBA

DIPLOMA: diplomirani novinar, 1971
novinarstvo
Univerza v Ljubljani, FSPN, Slovenija

MAGISTERIJ: 1975
komunikologija
Univerza v Ljubljani, FSPN, Slovenija

DOKTORAT: 1979
komunikologija
Univerza v Ljubljani, FSPN, Slovenija

Upravljalca baz podatkov: IZUM in ARRS

<http://sicris.izum.si/search/rsr.aspx?lang=eng&id=4884&opt=1> Local intranet

start 4 Microsoft O... 5 Internet Ex... 4_financiranje... Dokument1 - Mi... Letno poročilo ... Microsoft Excel ... F:\ppt-demšar 3 Microsoft O... SL 15:59

Dr. Slavko Splichal [03661]

Bibliografski kazalci raziskovalne uspešnosti (2003-2008)

Kategorizacija po metodologiji ARRS - družboslovje

(1)	A1	A2	A3	A4	B1	B2	C		D1	D2	E	$\Sigma Z1$	$\Sigma Z2$	NK	TC	CI	NC
1.01	0	0	0	0	0	3	4		1	1	1	9	1	0	5	4	6
1.02	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
1.03	0	0	0	0	0	0	1		0	0	0	1	0	0	0	0	0
(2)	A1	A2			B1	B2	C		D		E						
2.01	0	0			0	2	0					1	0	0			
2.18									0			0	0	0			
2.24											0	0	0	0			
(3)	A				B		C1	C2	D		E						
1.16	0				2		5	1	0			7	1	0			
2.20											0	0	0	0			
(4)										D		E					
1.06									0		0	0	0	0	0	0	0
1.08									0		0	0	0	0	0	0	0
Str.d.																	41
TC - število citatov v WoS, CI - čistih citatov, NC - normiranih citatov:															5	4	6

Točke

(1)	A1	A2	A3	A4	B1	B2	C		D1	D2	E	$\Sigma Z1$	$\Sigma Z2$	ΣS
1.01	0	0	0	0	0	120.00	120.00		20.00	20.00	10.00	280.00	10.00	0
1.02	0	0	0	0	0	0	0		0	0	0	0	0	0
1.03	0	0	0	0	0	0	24.00		0	0	0	24.00	0	0

Točke

(1)	A1	A2	A3	A4	B1	B2	C		D1	D2	E	$\Sigma Z1$	$\Sigma Z2$	ΣS
1.01	0	0	0	0	0	120.00	120.00		20.00	20.00	10.00	280.00	10.00	0
1.02	0	0	0	0	0	0	0		0	0	0	0	0	0
1.03	0	0	0	0	0	0	24.00		0	0	0	24.00	0	0
(2)	A1	A2			B1	B2	C		D		E			
2.01	0	0			0	100.00	0					100.00	0	0
2.18									0			0	0	0
2.24											0	0	0	0
(3)	A				B		C1	C2	D		E			
1.16	0				60.00		112.50	20.00	0			172.50	20.00	0
2.20											0	0	0	0
(4)									D		E			
1.06									0		0	0	0	0
1.08									0		0	0	0	0
														SU
Str.d.														157.50
SKUPAJ												576.50	30.00	157.50
Vodenje projekta ($\Sigma Z1 + \Sigma Z2$): 606.50												576.50	30.00	
Upoštevano število točk (družboslovje): 606.50												576.50	30.00	

Legenda:

Metodologija ARRS: [Pravilnik o kazalcih in merilih znanstvene in strokovne uspešnosti](#)

Vir bibliografskih podatkov: Vzajemna baza podatkov COBISS.SI/COBIB.SI

1A1-4 - znanstveni članki v revijah, ki jih indeksira SCI Expanded (glede na faktor vpliva)

1B1,2 - znanstveni članki v revijah, ki jih indeksira SSCI (glede na faktor vpliva)

1C - znanstveni članki v revijah, ki jih indeksira A&HCI ali druga mednarodna humanistična baza podatkov s seznama agencije

1D1 - znanstveni članki v revijah, ki jih indeksirajo druge mednarodne baze podatkov s seznama agencije in izhajajo v svetovnem jeziku (angleški, francoski, nemški, rški, španski)

Končano

Raziskovalec: Dr. Slavko Splichal [03661]

Število citatov po letih (za znanstvena dela):

Leto	Vseh citatov	Avtocitatov	Čistih citatov	Normiranih citatov
2004	3	1	2	4
2005	2	0	2	3
2006	0	0	0	0
2007	4	0	4	6
2008	0	0	0	0
Skupaj	9	1	8	13

After selection – on-line access to data about financial transactions...

ARRS - Poročilo o financiranju 2007 - pogodbeno leto - Windows Internet Explorer

http://www.arrs.gov.si/sl/finan/letpor/Report/fin-por.aspx?Leto=2007

File Edit View Favorites Tools Help

ARRS - Poročilo o financiranju 2007 - pogodbeno leto

Javna agencija
za raziskovalno dejavnost
Republike Slovenije

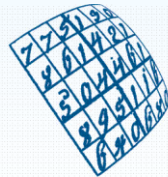
1 of 1 100% Find | Next Select a format Export

0502 - Znanstveno raziskovalna dejavnost

☑ 5719	INFRASTRUKTURNE OBVEZNOSTI	16.838.465,00	98,0%	16.501.332,98
☑ 5826	INFRASTRUKTURNI PROGRAMI	5.856.615,00	100,0%	5.856.613,99
☑ 6037	RAZISKOVALNI PROJEKTI	25.944.152,00	95,7%	24.835.950,87
☑ 21	Temeljno in aplikativno raziskovanje, projekti	23.389.945,80	95,3%	22.281.745,13
J	Temeljni raziskovalni projekti		Prejemnik Tip Veda	9.290.088,40
L	Aplikativni raziskovalni projekti		Prejemnik Tip Veda	8.457.250,75
Z	Podoktorski raziskovalni projekti		Prejemnik Tip Veda	4.534.405,98
☑ 28	Ciljni raziskovalni programi	2.506.217,55	100,0%	2.506.217,09
☑ 30	Poplačila projekti - CRP	47.988,65	100,0%	47.988,65
☑ 6036	RAZISKOVALNI PROGRAMI	42.146.053,00	98,1%	41.356.814,60
☑ 6564	PROJEKTNO RAZISKOVALNI CENTRI	10.209.581,00	99,0%	10.109.580,40
☑ 5706	USPOSABLJANJE IN RAZVOJ ZNANSTVENIH KADROV	27.403.852,00	97,2%	26.637.390,07
☑ 5797	SPODBUJANJE MEDNARODNEGA RAZISKOVANJA O OKVIRU EU	834.585,00	99,5%	830.034,19
☑ 5703	EVROPSKI OKVIRNI PROGRAMI IN MEDNARODNE RAZISKAVE	2.225.000,00	80,6%	1.794.046,76
☑ 5704	RAZISKOVALNA OPREMA	4.172.926,00	93,5%	3.902.747,75
☑ 5722	ZNANSTVENI TISK IN SESTANKI	2.025.552,00	96,8%	1.960.900,71

start Microsoft Power... ARRS - Poročila... Dokument1 - Mi... ARRS - Poročila... ARRS - Poročilo... SL 22:09

Thank you for your
attention!



SLOVENIAN RESEARCH AGENCY