

#### Academic's teaching and research activities in Slovenia – findings from the 2018 APIKS survey

Alenka FLANDER (CMEPIUS, SLO) Manja KLEMENČIČ (Harvard University, USA) Sebastian KOČAR (Australian National University, AUS)





#### **Overview of presentation**

- Overview of higher education system and academic profession
- Methodology
- Highlights on:
  - Overall satisfaction
  - Teaching
  - Research



## **Overview of higher education system**



- Slovene population: 2 million
- 3 public and 1 semi-private universities; 50 other HEIs
- 66,000 students in 2017/2018 (99.000 in 2007/08)
- 8588 academic staff employed (5822 in FTE) in 2015;
  3701 non-academic staff ;
- 58% of all students and 51% of all staff in one public university
- decrease in total expenditure on education between 2011 and 2012 – by 13%; increasing since 2016





### Methodology

- No sampling frame or admin data about the population in Slovenia for 2018 (limited info for up to 2015)
- Online data collection using Qualtrics: June 14<sup>th</sup> to July 22<sup>nd</sup> 2018 (up to 4 reminders)
- Email invitations sent to 7859 academics (possible undercoverage), 463 emails bounced, 15% of those who started not professionally active at a higher education institution
- Final sample: 1035 respondents (including 7% partial interviews, 5% 20-<25% of full time)</li>
- Response rate (AAPOR RR2) = 16,4%





#### **Overview of responses**

Respondents by gender	2013	2018	Employment situation in the current academic year	2013	2018
Male	54%	49,5%	Full-time	<b>87</b> %	88,3%
Female	<b>46</b> %	50,5%	Part-time	13%	11,7%

Respondents by rank	APIKS 2018	Admin data 2015 <u>estimate</u>		distribution ender	Admin data 2015 distribution by gender <u>estimate</u>		
			Male	Female	Male	Female	
Full professor	20,1%	19,6%	57,1%	42,9%	71,1%	28,9%	
Associate professor	19,7%	14,2%	54,5%	45,5%	64,7%	35,3%	
Assistant professor	25,3%	20,2%	47,1%	<b>52,9</b> %	56,6%	43,4%	
Junior/Assistant lecturer	20,6%	30,8%	50,0%	50,0%	53,5%	46,5%	
Other	14,3%	15,2%	35,6%	64,4%	42,8%	57,2%	
Total	100%	100%	49,5%	50,5%	57,5%	42,5%	





#### **HIGHLIGHTS ON GENERAL SATISFACTION**



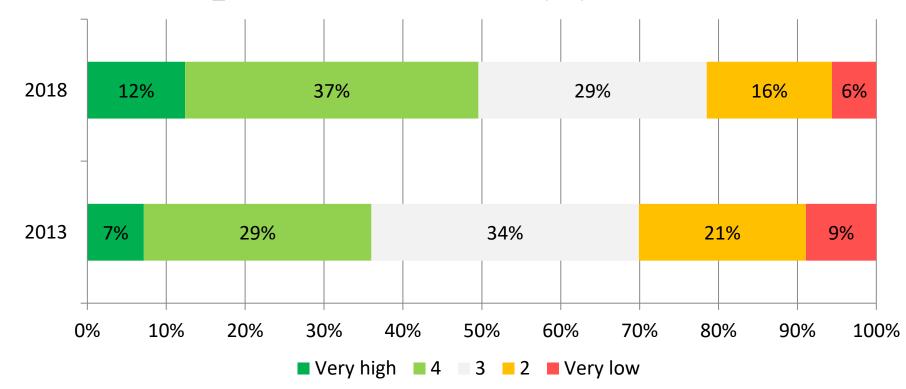


#### B5 How do you rate your satisfaction with current employment and work situation, and overall professional environment







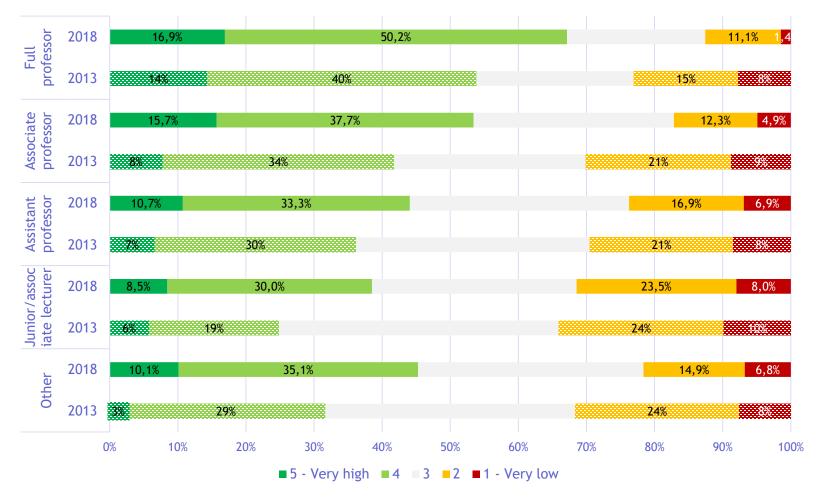


#### **B5\_1** Satisfaction with current employment situation





#### B5\_1 How do you rate your satisfaction with your current employment situation (by rank)?







#### **HIGHLIGHTS ON TEACHING ACTIVITY**



## **Higher education policy development**



- Resolution on the National Higher Education Programme 2011-2020 (2011)
- Strategy for the Internationalisation of Slovenian Higher Education 2016-2020 (incoming/outgoing mobility of staff & students, IaH) (2016)
- Amendment to the HE Act in 2012 enabled universities to modify their study programmes more quickly to improve quality and better respond to the needs of the labour market.
- Amendment to the HE Act in 2016 Increased public funding to reach 1% of GDP; performance bassed indicators; institutional accreditation, performance-based funding model: teaching in foreign languages



# **Teaching and career system overview**

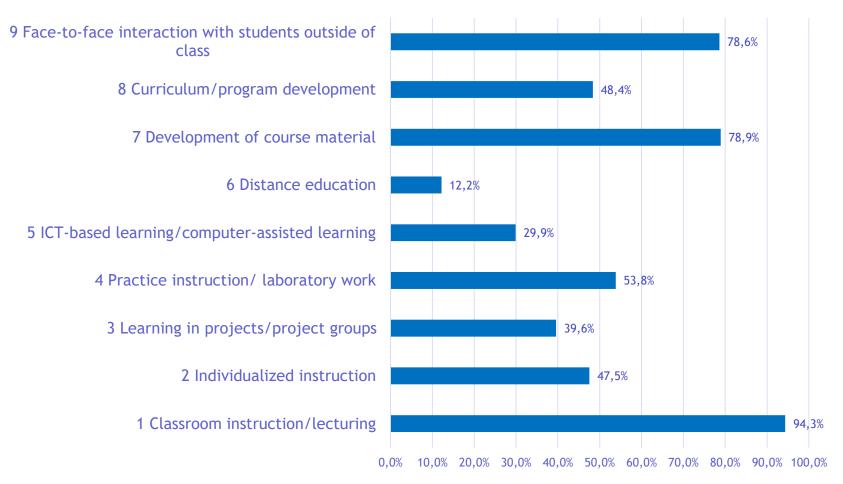


- Status of **public servants**; HR policies autonomy of HEIs
- Direct teaching load specified as a public service by the Higher Education Act;
- **16.8 students per 1 teacher** (in FTE in 2014/2015)
- Women almost 40% of the HE teaching staff in 2014/2015 (23.1% in 2000);
- 42.8% academic staff is between 50 and 64 years old
- Mobility of staff: 7,3% (2017/18); 5,5% in 2014/15
- Since 2014 significant increase in financial support and courses offered for training courses to enhance quality of teaching



#### C2 During the current (or previous) academic year, have you been involved in any of the following teaching activities?







#### C4: Please indicate your views: comparable answers from 2013 & 2018

In your courses you you you you yoriented emphasize knowledg internatio y oriented e adequate training training teaching teaching teaching teaching teaching teaching teaching teaching teaching skills due skills are o student e sor afor teaching t	2013 2018	28% 37% 24,4% 32,6%	11%
At your Y Institution m there are t adequate w training t for s for s enhancing to teaching d quality	2013	Training courses for teaching	
	2018	14,9% 30,2%	7,3%
Practicall y oriented knowledg e and skills are emphasize d in your teaching	2013 2018	Practical knowledge emphasized in teaching	7% 2/ 4.90
In your courses you mphasize nternatio nal erspective es or content	2013 2018	<b>40% 29%</b> 37,1% <b>33,8%</b>	<b>8%</b>
You In your incorporat courses Practicall e you y oriented discussion emphasize knowledg s of values internatio and ethics nal skills are into your perspectiv emphasize course es or d in your content content teaching	2013	27% 32% 16%	
inco disc and c c c c c c c c c c c c c c c c c c c	2018	30,3% 30,5%	<mark>11,7%</mark> 4,6%
You inform students of the implicatio ns of cheating or or plagiarism in your courses	2013 2018	36% 28% 1: 36 9% 27,4%	3% 63
Your research activities reinforce your teaching	2013 2018	Research enhance my teaching 29%	9% 🐲
Your external activities vour teaching t	2013 2018	External activities enhance my teaching 30% 47,7% 31,0%	10%
ac re		,0% 10,0% 20,0% 30,0% 40,0% 50,0% 60,0% 70,0% 80,0% ■ 5 - Strongly agree ■ 4 ■ 3 ■ 2 ■ 1 - Strongly disagree	90,0% 100,0%

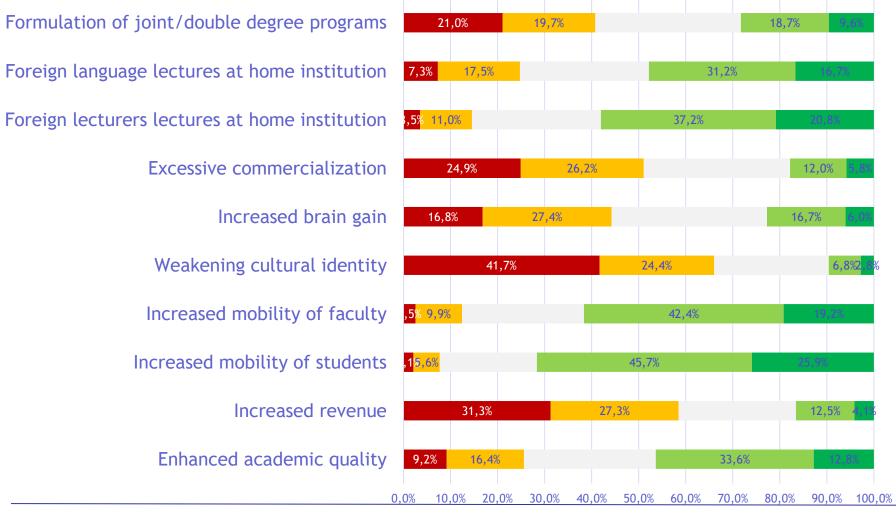


# Highlights on internationalisation of teaching





### F5 To what extent do you observe the following outcomes of internationalization at your institution?



1 - Not at all 2 3 4 5 - Very much



#### F6 Please indicate your views on the following:



My institution encourages the recruitment of faculty members from foreign countries		30,0%		28,8%		<b>11,0%</b> 5,
My institution provides various opportunities/funding for						
visiting international scholars	14,9%		29,0%			<b>16,5</b> % 5,
My institution provides various opportunities/funding for visiting international students	15,8%	6	28,7%			<b>16,4</b> % 6,
My institution provides various international exchange programs for students	8,1%	18,4%			28,8%	18,2%
My institution has a clear strategy for internationalization	9,6%	20,9	%		23,	<b>,2%</b> 9,8%
C 1-Strongly disagree	),0% 2 3	20,0 ■4 ■5-9		0% 60	0,0% 80	0,0% 1



100,0%



#### **HIGHLIGHTS on research**





#### Main policy developments in research

- **Resolution on Research and Innovation Strategy of Slovenia** 2011-2020
- **Research Infrastructure Roadmap 2011-2020, Revision 2016**
- National strategy for open access to scientific publications and research data in Slovenia 2015-2020
- **Program by the Ministry for Education, Science and Sport for** strengthening research and development in area of science 2016-2020
- **Slovenian strategy for strengthening the European Research** Area 2016-2020 (ERA Roadmap)
- Strategy for internationalisation of research and science (2018-2030) 19

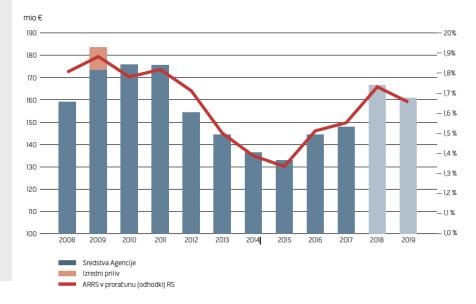
### **Funding of R&D**

**BDP spending for R&D** 

# **CMEPIUS** Funds of the Slovenian Research Agency for research funding

#### Bruto domači izdatki za RRD Dimenzije: VIRI FINANCIRANJA , LETO. Visokošolski sektor. (1000 EUR) 110 000 100 000 90 000 80 000 70 000 60 000 50 000 40 000 30 000 20 000 10 000 2007 2013 2014 2016 2008 2009 2010 2011 2012 2015 Viri financiranja - SKUPAJ Gospodarske družbe Državni viri - - Visoko šolstvo - - Zasebne nepridobitne organizacije - - Viri iz tujine

Sredstva Agencije za financiranje znanstvenoraziskovalne dejavnosti in delež teh sredstev v proračunu RS<sup>1</sup>







#### **Research pool (SRA Report 2018)**

- Number of research organisations: 2011: 221 -> 2017: 169
- Number/FTE of funded researchers in total: 2011: 6879/2434 -> 2017: 5978/1948
- Number/FTE of funded researchers from HEIs: 2011: 3712/1150 -> 3335/876 (less shrinking pool)



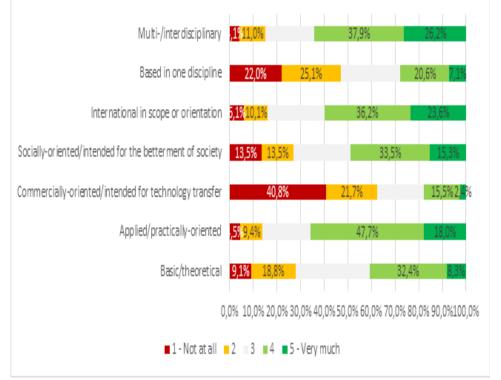
# D2 How would you characterize the emphasis of your primary research this (or the previous) academic year?



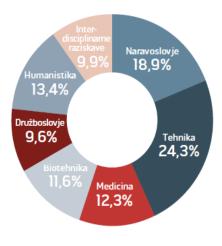
Agencija je v letu 2017 raziskovalne projekte sofinancirala v višini 27,5 milijona evrov. Delež za projekte v celotnem proračunu Agencije je 18,6 % in je za 2,5 odstotne točke manjši kot v letu 2016.

Temeljni raziskovalni projekti: **18,3 mio EUR** Aplikativni raziskovalni projekti: **5,5 mio EUR** Podoktorski raziskovalni projekti: **2,4 mio EUR** Projekti ciljnih raziskovalnih programov: **1,1 mio EUR** Spodbujanje zaposlovanj mladih doktorjev znanosti: **239 tisoč EUR** 

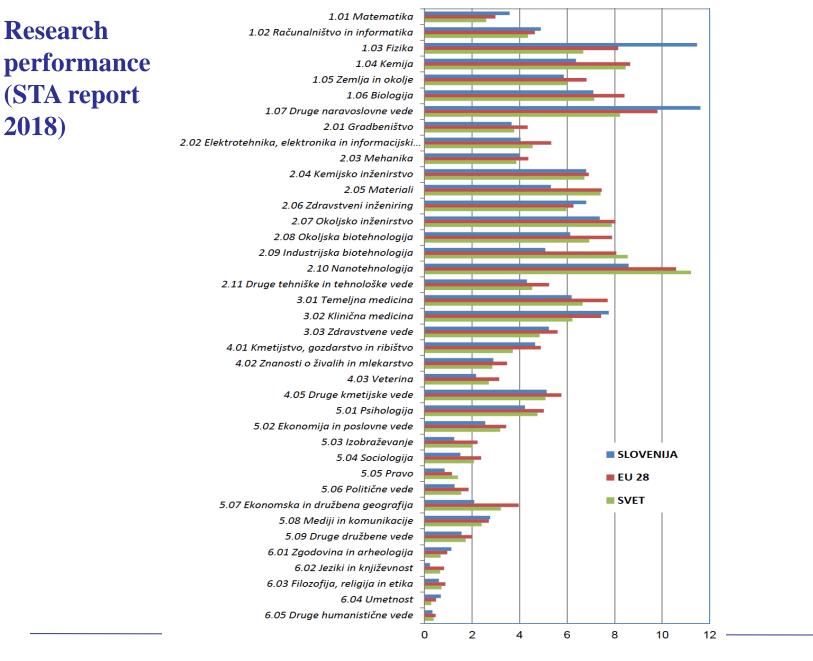




Sredstva po vedah













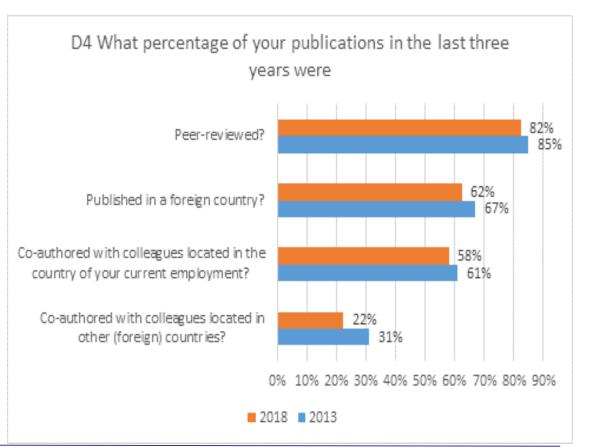
# Highlights on internationalisation of research





#### Internationalisation of research

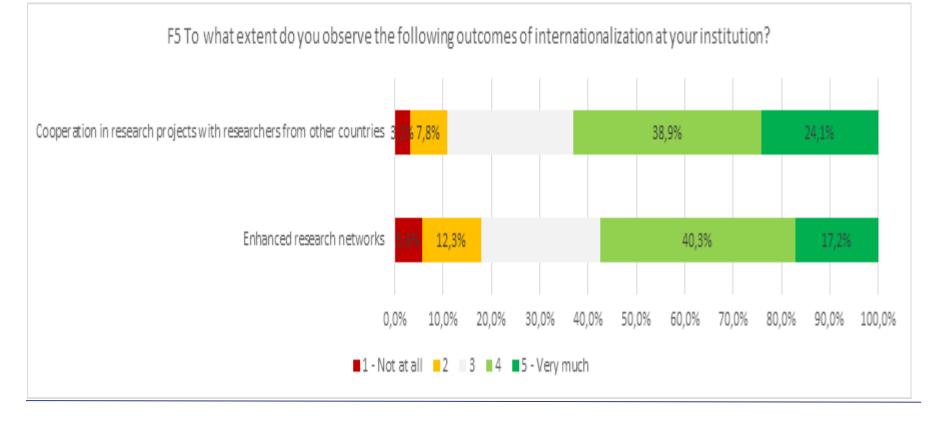
- Share of articles published in coauthorship with researchers abroad (InCites 2018, SRA 2018)
  - 2003-2007 40,8%;2013-2017 58,8%







# Perceived internationalisation effects on research cooperation





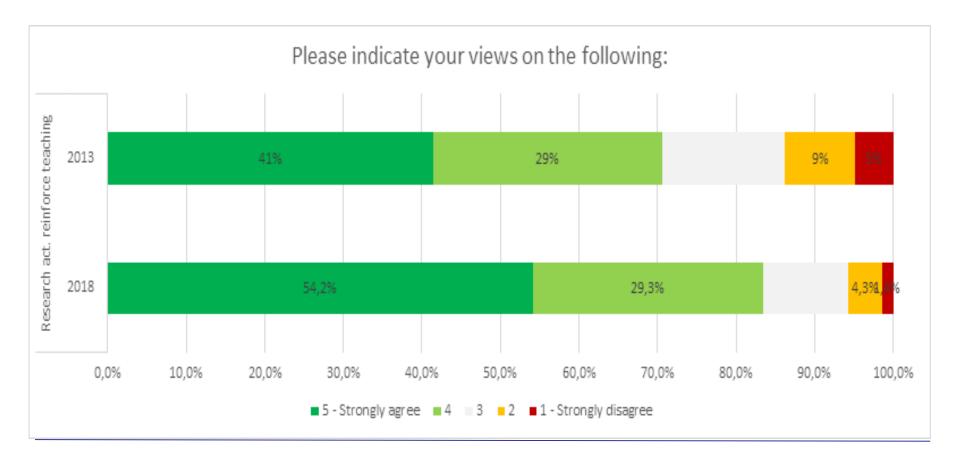


#### **Highlights on RESEARCH-TEACHING NEXUS**



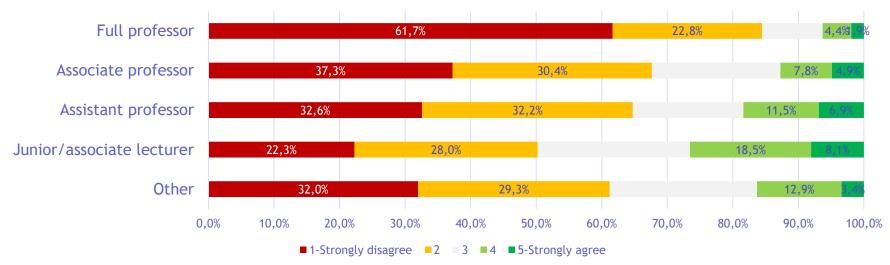


#### **Research reinforces teaching**

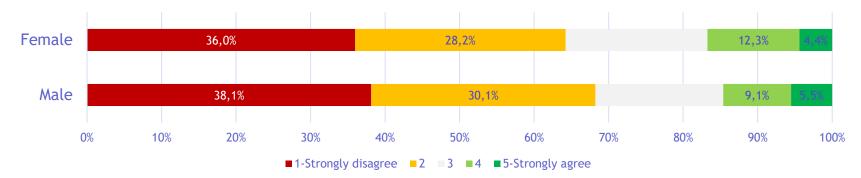




#### B4\_4 Teaching and research are hardly compatible with each other (by rank)

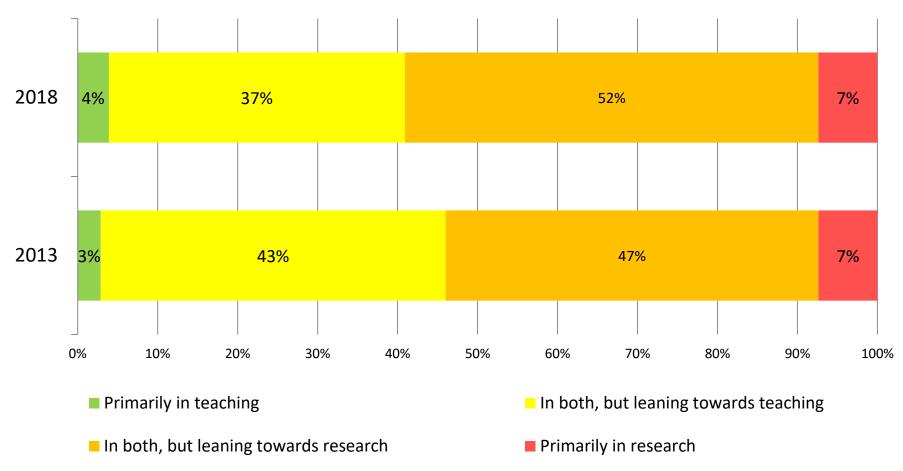


#### B4\_4 Teaching and research are hardly compatible with each other (by gender)









#### Interest in teaching and/or research in regards to personal preferences





#### **Questions & contacts**

alenka.flander@cmepius.si manjaklemencic@fas.harvard.edu sebastian.kocar@anu.edu.au

