Noen universitetstrender og samfunnsutfordringer

Colin



Hvis det var opp til deg å endre noe ved forskningen slik den er i dag – hva ville du endre og hvorfor?

«Slik det er nå er administrasjonen allerede i stor grad bundet opp, og det kan være vanskelig å få hjelp.»

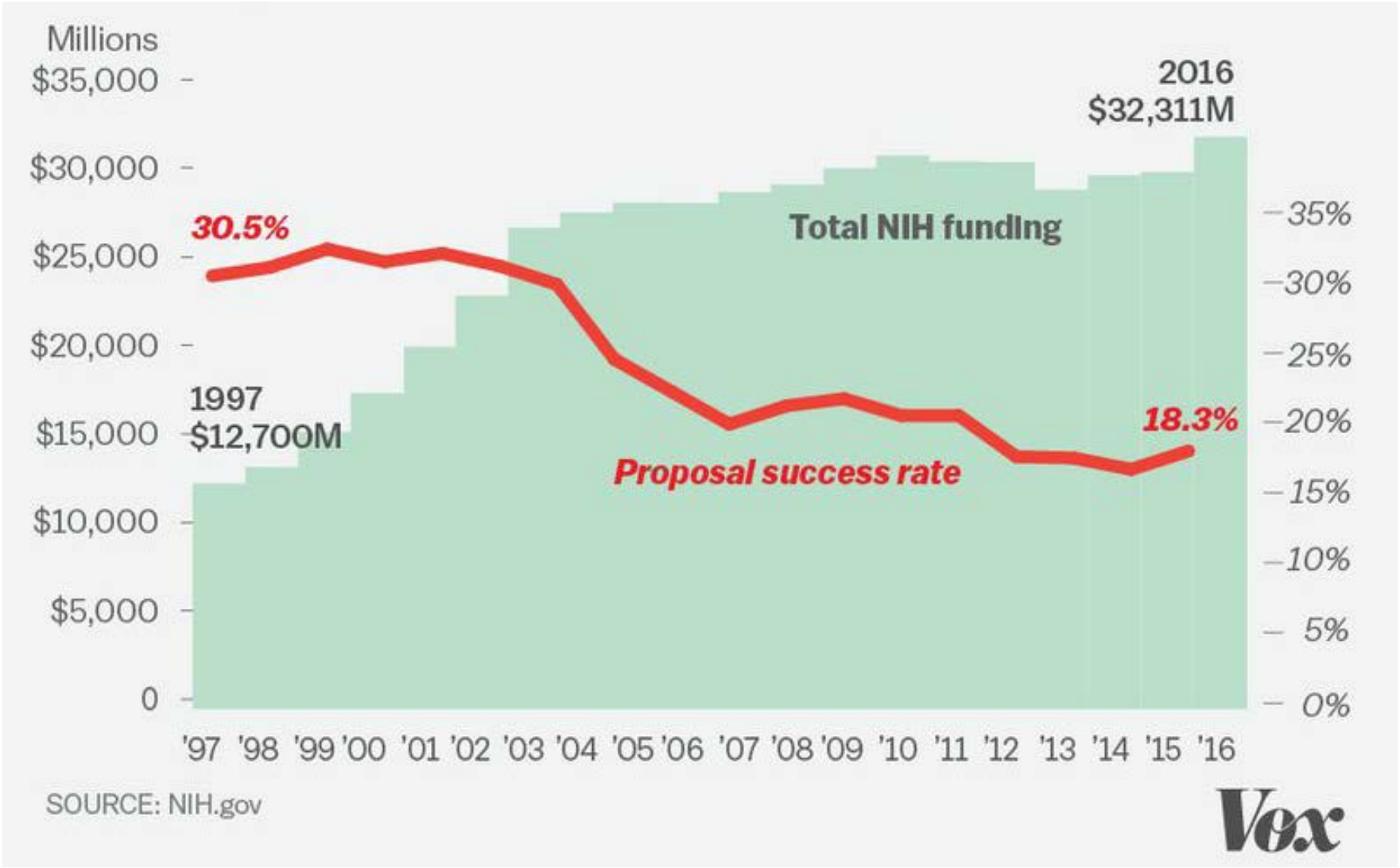
«Jeg vet ikke om vi har så mye støttefunksjoner, folk må stort sett klare seg selv. Man må ta ansvar og klare seg selv.»

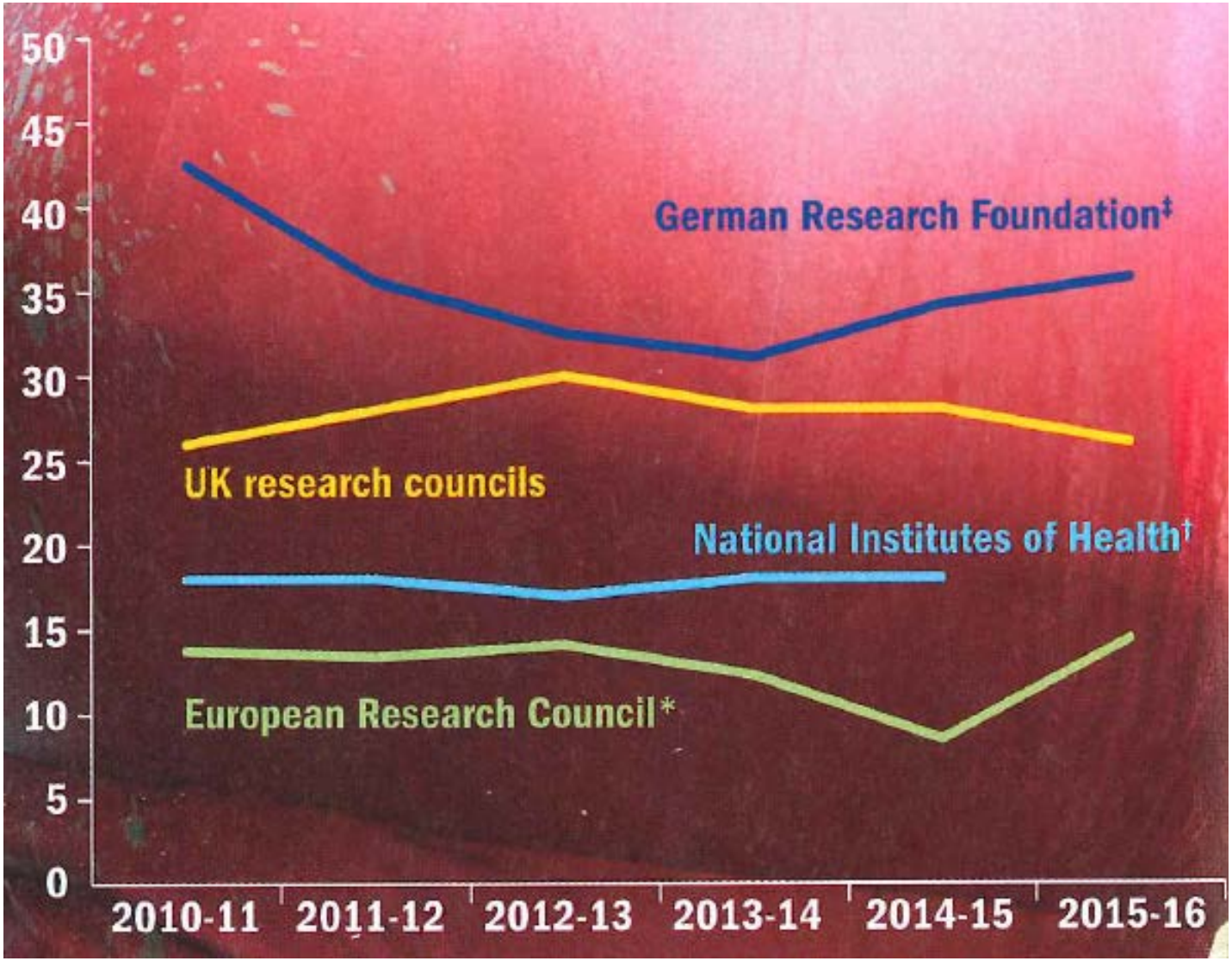
Dybdeintervjuer av forskere og administrativt ansatte ved UMB og NVH, Kurs i kvalitativ metode – høsten 2012. Ansvarlig: Bernt Aarset, Handelshøyskolen

Ja, de penga….



USA: Grunn til bekymring





Figur 2. Tilslag på forskningssøknader (advanced grants) i prosent, 2011 – 2015

Horizon 2020: Også en bekymring

- Total 31115 søknader til 100 calls - Totalt 4 315 søknader innvilget
- Samlet suksessrate ca. 14% sammenlignet med 20% for hele FP7.

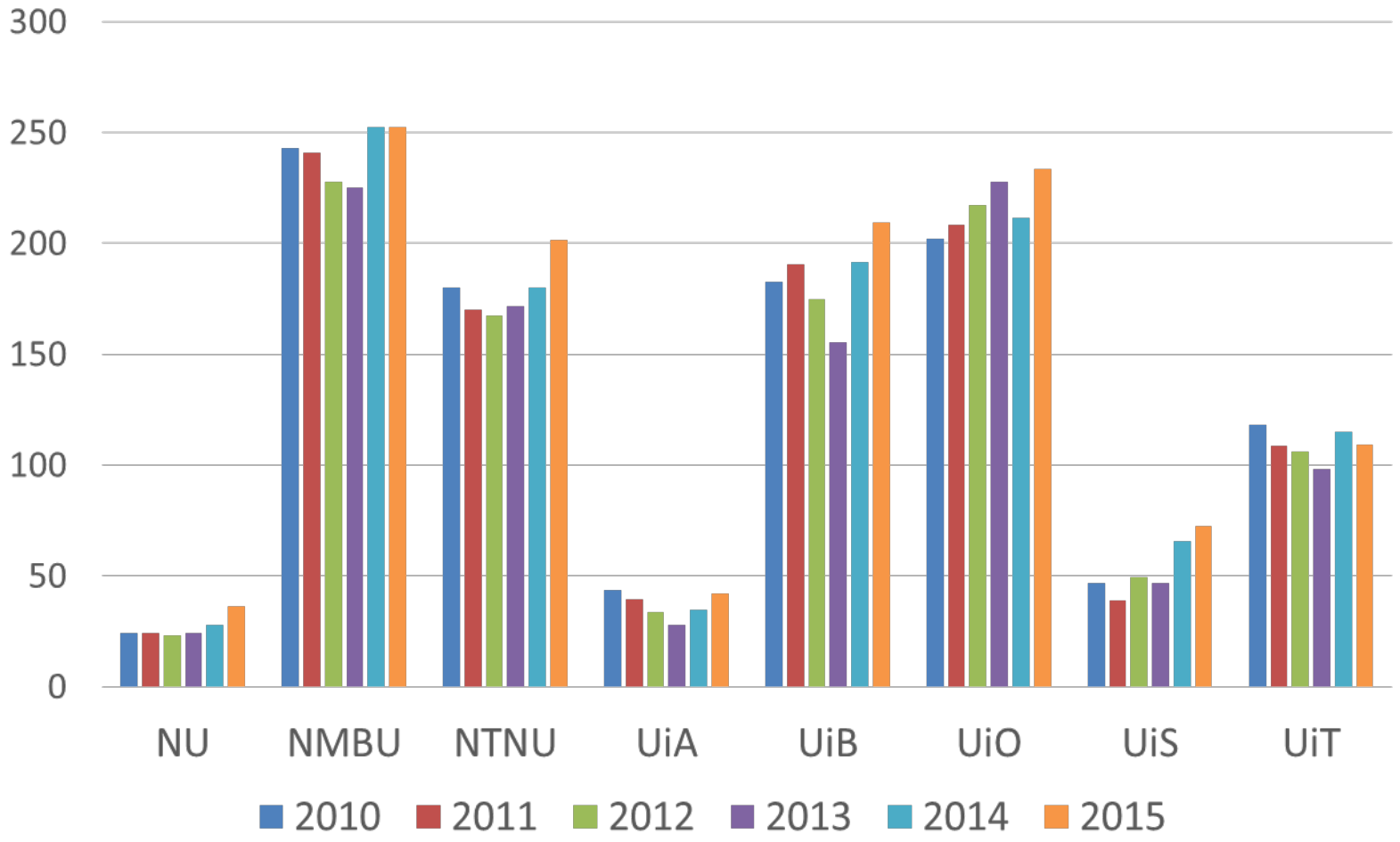
Andel innvilget søknader				EU-STØTTE			ANT. KOORDINATORER	
			Suksessrate deltakelser	i søknader (mill. euro)	i innstilte prosjekter (mill. euro)	*Finansiell suksessrate*	i søknader	i innstilte prosjekter
UiO			*10,1%*	321,9	31,0	*9,6%*	186	21
NTNU			*10,6%*	253,2	25,8	*10,2%*	154	14
UiB			*16,3%*	148,3	19,6	*13,2%*	75	9
UiT			*13,4%*	67,0	4,1	*6,1%*	41	3
NMBU			*7,0%*	47,2	4,5	*9,6%*	27	2
UiA			*10,8%*	22,3	2,2	*10,1%*	6	1
UiS			*9,1%*	23,3	2,3	*9,8%*	12	1
UiN			*8,3%*	7,3	2,0	*27,4%*	5	1
Totalt:			***11,3%***	**890,6**	**91,5**	***10,3%***	**506**	**52**

Forskningsrådet: noe å klage på?

Mill.kr. pr. universitet.	2011	2012	2013	2014	2015	Andel av totalen i 2015	Endring 2011-2015
UiB	370,1	329,6	320,9	449,5	459,1	20 %	24 %
UiO	720,5	685,9	643,6	768,8	783,5	34 %	9 %
UiT	191,3	162,0	156,0	189,7	188,7	8 %	-1 %
NTNU	525,3	504,8	441,4	601,6	611,2	26 %	16 %
NMBU	158,4	172,9	152,0	203,5	201,9	9 %	27 %
UiS	36,4	25,7	26,4	38,8	38,9	2 %	7 %
UiA	14,3	6,3	7,9	11,0	24,3	1 %	70 %
UiN	22,7	17,9	22,5	23,6	29,9	1 %	32 %
Sum:	2 039,0	1 905,2	1 770,7	2 286,4	2 337,5	100 %	15 %

Tabell 1. Forskningsrådets bevilgninger til universitetene 2011 – 2015. Mill.kr. pr. universitet.

Bevilgning fra Forskningsrådet per forskerårsverk (2010 – 2015) i 1000 kr.



Er det noe annet vi kan sette fingeren på?

	NTNU	UiB	UiO	UiT	UMB
Antall potensielle søkere	**1473**	**1903**	**2856**	**781**	**344**
Antall søkere FRIPRO+Programmer	450	499	902	293	131
Andel søkere FRIPRO+Programmer	31 %	26 %	32 %	38 %	38 %

Tabell 2: Antall potensielle søkere som prosjektleder (2007) og totalt antall/andel søkere i perioden 2007- 2011 fordelt på universitetet. Potensielle søkere: professor, 1. aman., forskere, postdoktorer.

Ca. 6 av 10 av alle potensielle søkere - søker ikke som prosjektleder til Forskningsrådet ila av en 5-års periode.

Forskerprosjekter for alle – eller for de få?
Internrapport, Divisjon for vitenskap, 14. januar 2013

«Impact bevegelsen»



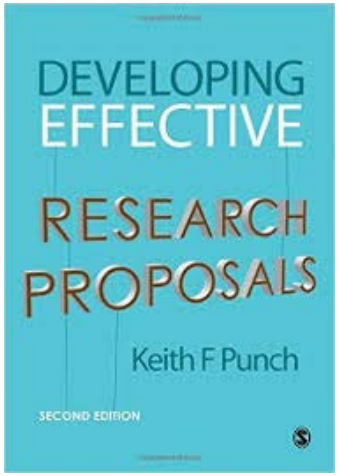
Og hva skal vi gjøre med dette?

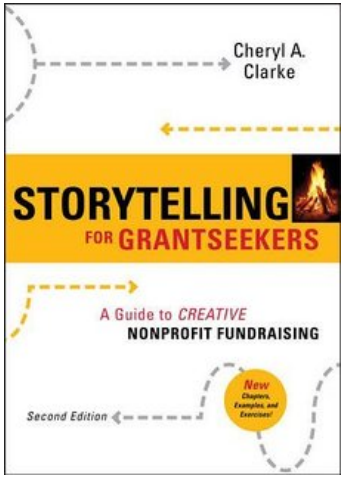
Nordic Centre of Excellence

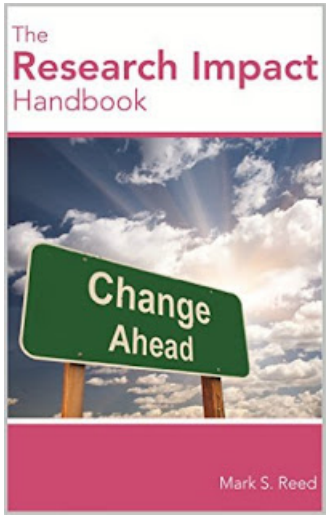
- Nordic added value
- Gender Perspectives
- Contribution to open science
- Dissemination and communication
- International collaboration
- Researcher mobility
- Researcher education
- Research infrastructure
- Gender aspects
- Competence: Project leader
- Competence: Team leaders
- Management and organisation
- Salary specification
- Coordination and administration specification

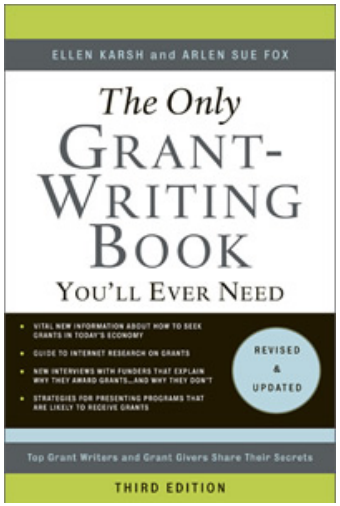
Søknadsskriving

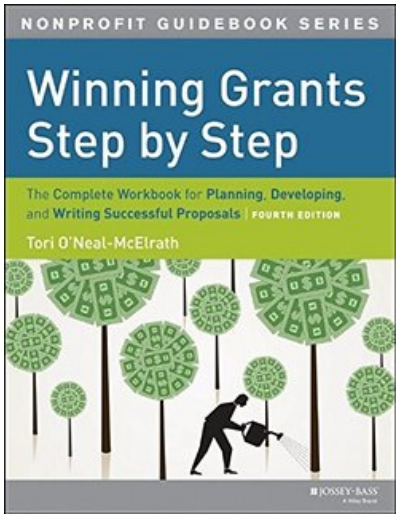


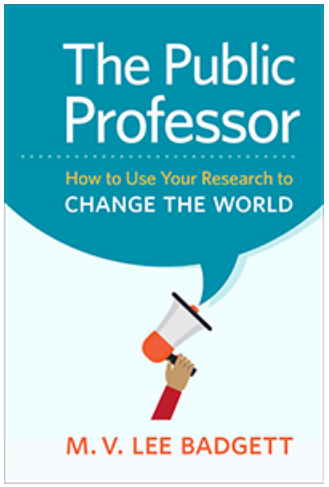














CASE STUDY

Creating More Competitive Submissions for Funding Application Success – Aarhus University

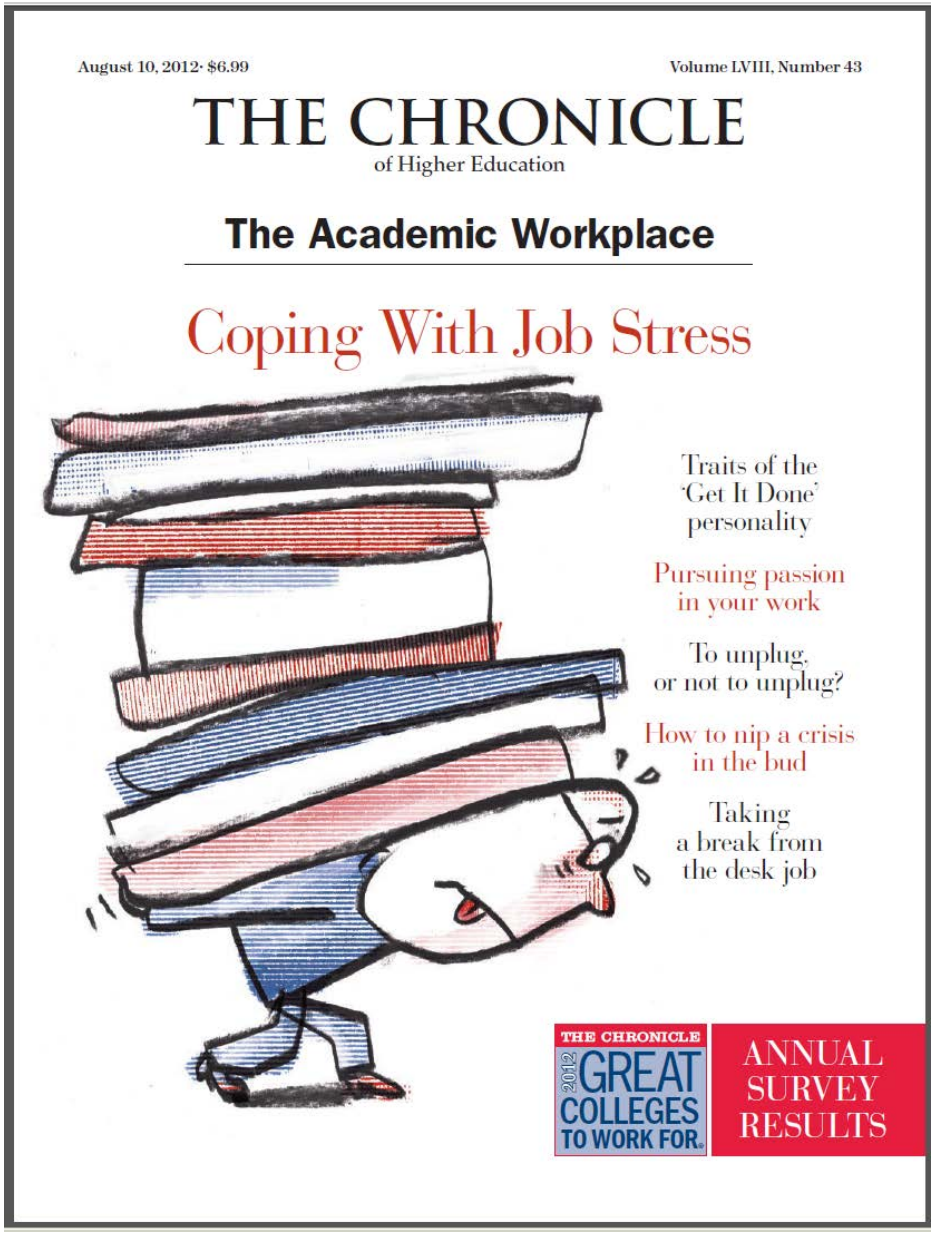


Arbeidsmiljø

- ¾ av tiden stillesittende
- 27% arbeider i helger (10% økning fra 2005)
- 2/3 oppgir altfor stor arbeidsbelastning
- 49% må hver uke droppe en eller flere lunsjer
- 29% oppgir at de føler at deres arbeidsinnsats er utilstrekkelig
- 46% oppgir at arbeidet utgjør en psykisk belastning



Tidstyver og stress problem mange steder



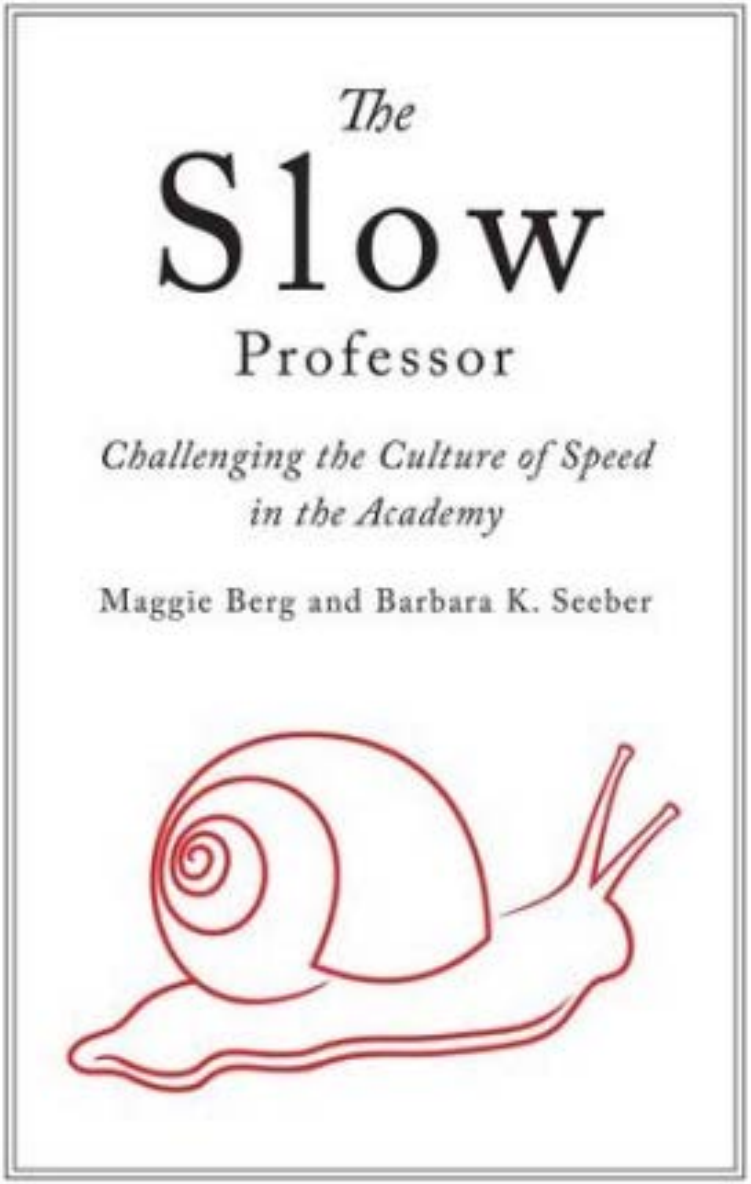
Mer effektivitet?

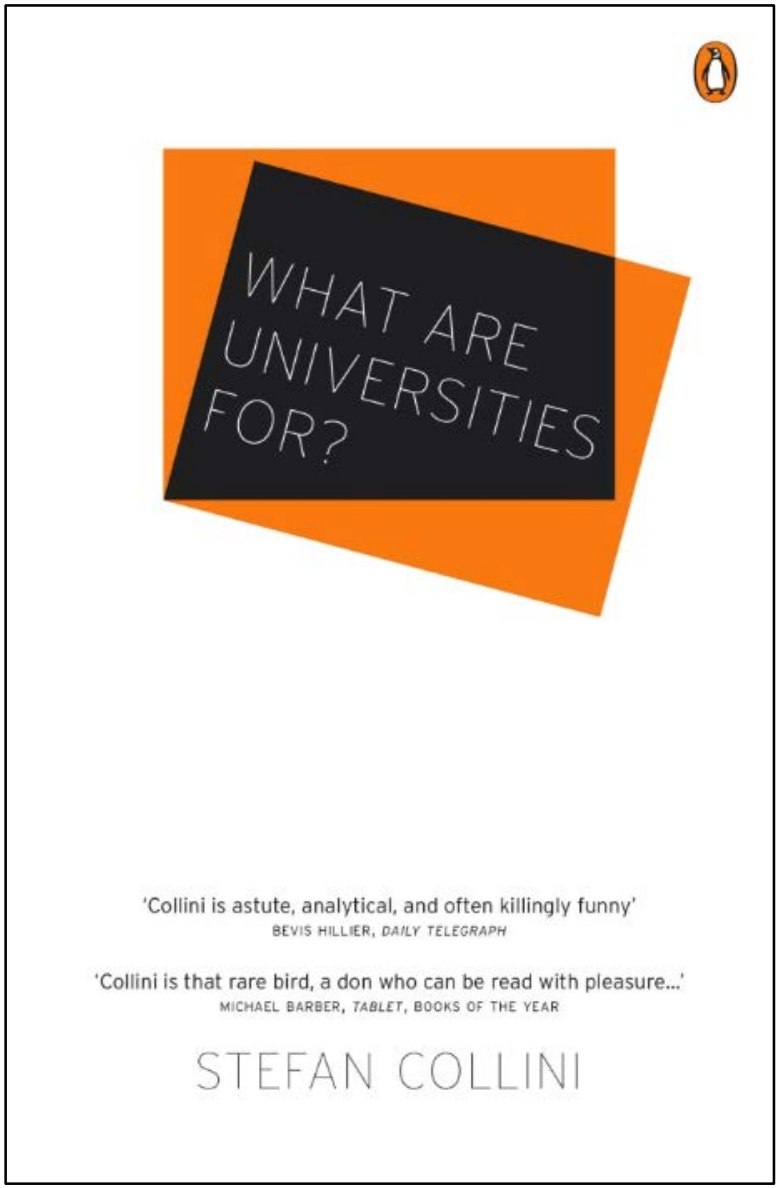


The Successful Academic

People who get things done and accomplish their goals often share these traits:

- **Resilience**
  The ability to recover from setbacks and cope effectively with stress
- **Grit**
  Perseverance and passion for challenging long-term goals
- **Conscientiousness**
  A tendency to be orderly, self-controlled, industrious, responsible, and willing to delay gratification
- **Creativity**
  The willingness to break with convention, challenge the status quo, and come up with new ideas
- **Focus**
  The ability to zero in on one thing at a time, tune out distractions, and avoid multitasking
- **Self regulation**
  An awareness of what matters and the discipline to avoid temptations and see a task through


The
Slow
Professor
Challenging the Culture of Speed in the Academy
Maggie Berg and Barbara K. Seeber


WHAT ARE UNIVERSITIES FOR?
'Collini is astute, analytical, and often killingly funny'
BEVIS HILLIER, DAILY TELEGRAPH
'Collini is that rare bird, a don who can be read with pleasure...'
MICHAEL BARBER, TABLET, BOOKS OF THE YEAR
STEFAN COLLINI

Dårlig på forskningsassistanse

Tabell 4.11 Vurdering av forskningsassistanse. Prosent.

	Utmerket	2	3	4	Dårlig	Totalt
Australia	5	18	24	25	29	100
Canada	6	21	25	24	23	100
Finland	6	23	31	26	14	100
Storbritannia	9	20	27	24	20	100
Tyskland	7	25	27	22	19	100
USA	7	18	26	22	27	100
Norge	**2***	**9***	**19***	**22**	**47***	**100**
Totalt	*6*	*19*	*26*	*24*	*25*	*100*

*Norge er signifikant forskjellig fra gjennomsnittet for alle landene.

Bentley, P., Kyvik, S., Vabø, A. og Erica Waagene (2010) *Forskningsvilkår ved norske universiteter i et internasjonalt perspektiv. En undersøkelse av 7 land.* NIFU-rapport 8/2010

Stefan Grimm's death leads Imperial to review performance metrics

Imperial is to undertake a review of how it uses performance metrics for staff after the death of one of its academics

March 27, 2015

By Chris Parr
Twitter: @ChrisParrTHE





Featured Jobs

Independent Research Fellowship/Lectureship - School of Science and Technology
NOTTINGHAM TRENT UNIVERSITY

Academic Clinical Lecturer in Vascular Surgery
UNIVERSITY OF BRISTOL (MAIN OFFICE)

Solicitor
UNIVERSITY COLLEGE DUBLIN (UCD)

Research Associate and PhD studentship in 3D printing of medical devices
UNIVERSITY OF GREENWICH

Metrics: venn eller fiende?

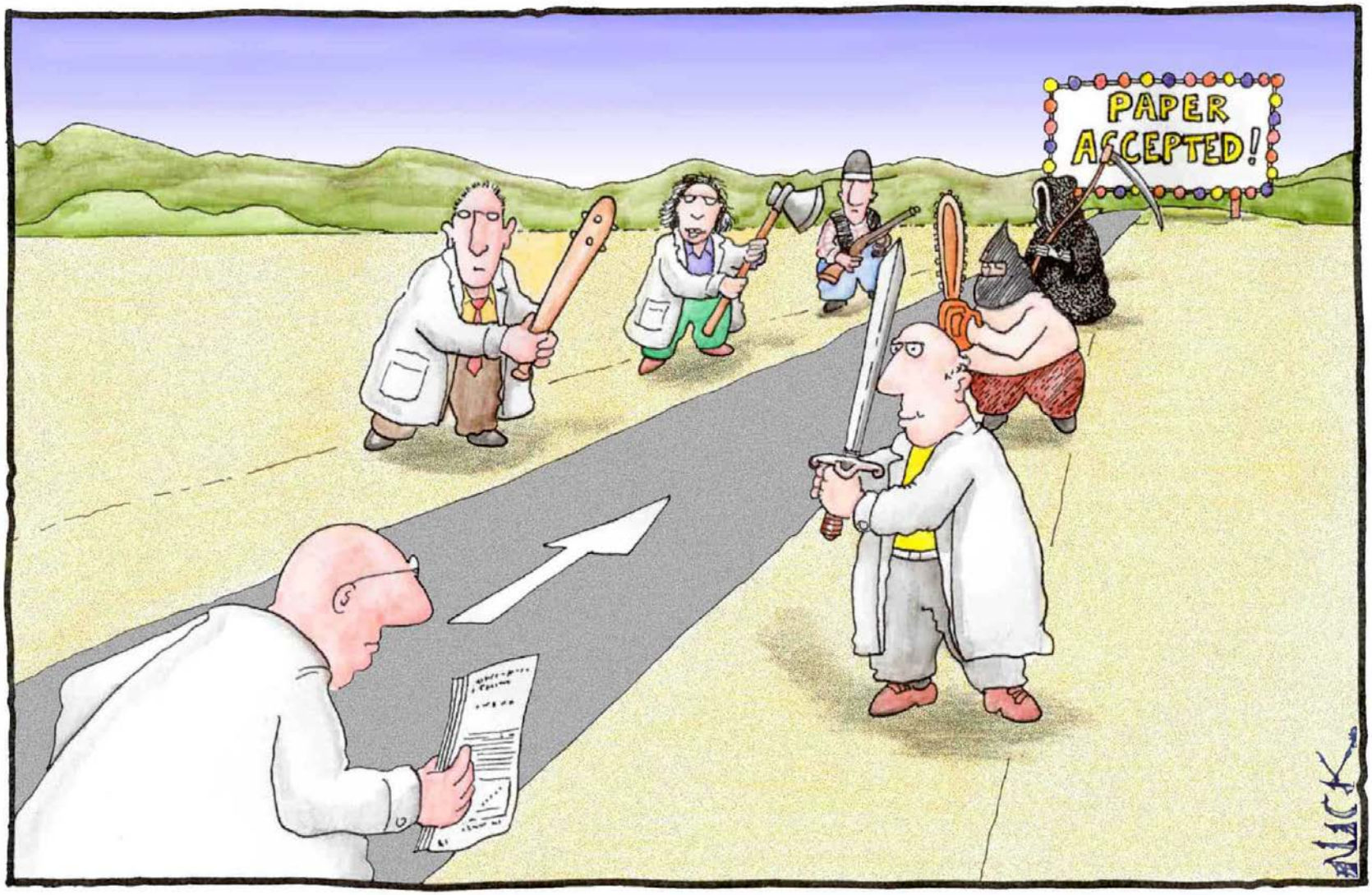
- Økt press utenfra
- Nødvendig med bevissthet mht. valg og bruk av indikatorer
- «Responsible metrics»
- Universitetsansvar
- «Management by metrics»



New public management

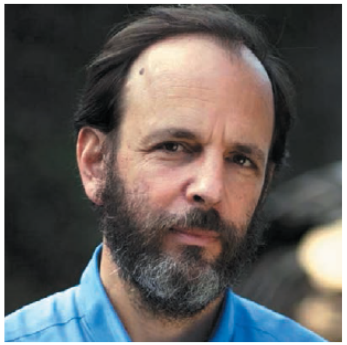
- Sterk fokus på resultater («perfomance»)
- System for overvåking, rapportering og kontroll
- Sterk ledelse, mindre spillerom og selvstendighet for den enkelte ansatte
- Profesjonsnøytral ledelse
- Konkurranse mellom virksomheter, krav til «lønnsomhet» i ulike deler av organisasjonen
- «Kunder» og «leverandører»

Hva skjer med «peer review»



Hva skjer med «peer review»?

WORLD VIEW *A personal take on events*



The pressure to publish pushes down quality

Scientists must publish less, says **Daniel Sarewitz**, *or good research will be swamped by the ever-increasing volume of poor work.*

12 MAY 2016 | VOL 533 | NATURE | 147

Medical research

Tenfold increase in scientific research papers retracted for fraud

Study of 2,047 papers on PubMed finds that two-thirds of retracted papers were down to scientific misconduct, not error

Alok Jha, science correspondent

Monday 1 October 2012 20.15 BST

This article is 4 years old



"*Science, I had come to learn, is as political, competitive, and fierce a career as you can find, full of the temptation to find easy paths.*"



Paul Kalanithi, (1977–2015)

Table 1 | Percentage of scientists who say that they engaged in the behaviour listed within the previous three years ($n = 3,247$)

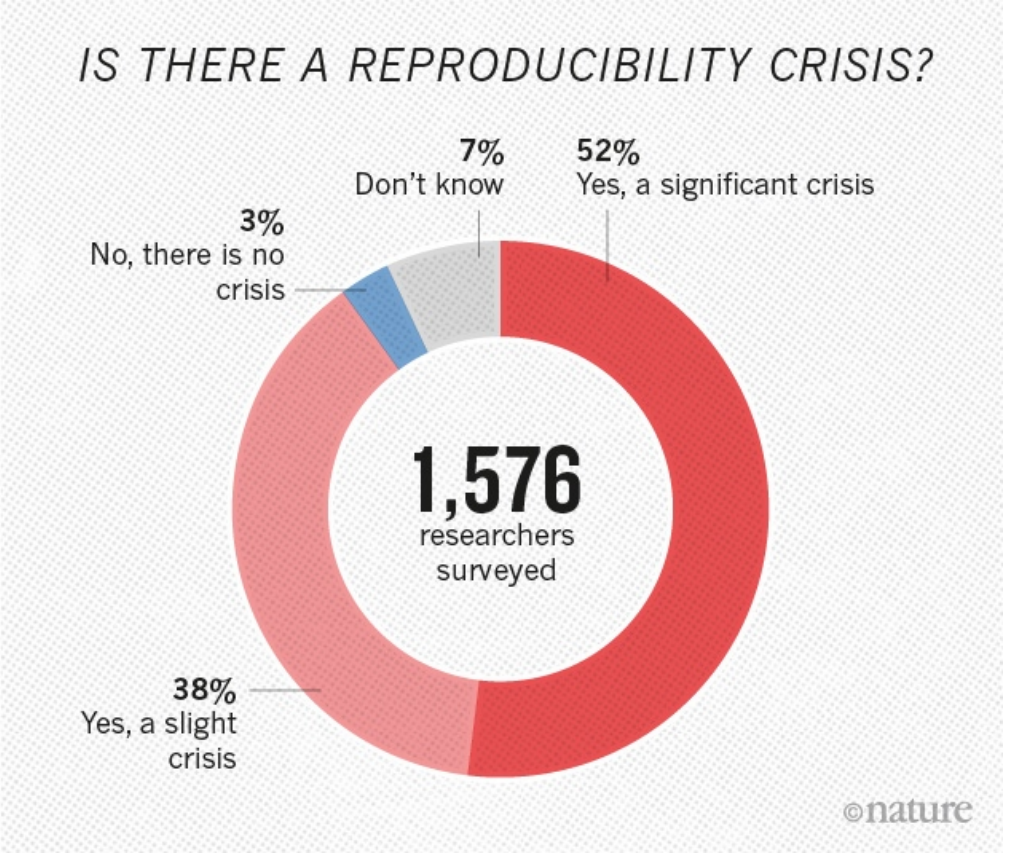
Top ten behaviours	All	Mid-career	Early-career
1. Falsifying or 'cooking' research data	0.3	0.2	0.5
2. Ignoring major aspects of human-subject requirements	0.3	0.3	0.4
3. Not properly disclosing involvement in firms whose products are based on one's own research	0.3	0.4	0.3
4. Relationships with students, research subjects or clients that may be interpreted as questionable	1.4	1.3	1.4
5. Using another's ideas without obtaining permission or giving due credit	1.4	1.7	1.0
6. Unauthorized use of confidential information in connection with one's own research	1.7	2.4	0.8 ***
7. Failing to present data that contradict one's own previous research	6.0	6.5	5.3
8. Circumventing certain minor aspects of human-subject requirements	7.6	9.0	6.0 **
9. Overlooking others' use of flawed data or questionable interpretation of data	12.5	12.2	12.8
10. Changing the design, methodology or results of a study in response to pressure from a funding source	15.5	20.6	9.5 ***
Other behaviours			
11. Publishing the same data or results in two or more publications	4.7	5.9	3.4 **
12. Inappropriately assigning authorship credit	10.0	12.3	7.4 ***
13. Withholding details of methodology or results in papers or proposals	10.8	12.4	8.9 **
14. Using inadequate or inappropriate research designs	13.5	14.6	12.2
15. Dropping observations or data points from analyses based on a gut feeling that they were inaccurate	15.3	14.3	16.5
16. Inadequate record keeping related to research projects	27.5	27.7	27.3

Note: significance of χ^2 tests of differences between mid- and early-career scientists are noted by ** ($P < 0.01$) and *** ($P < 0.001$).

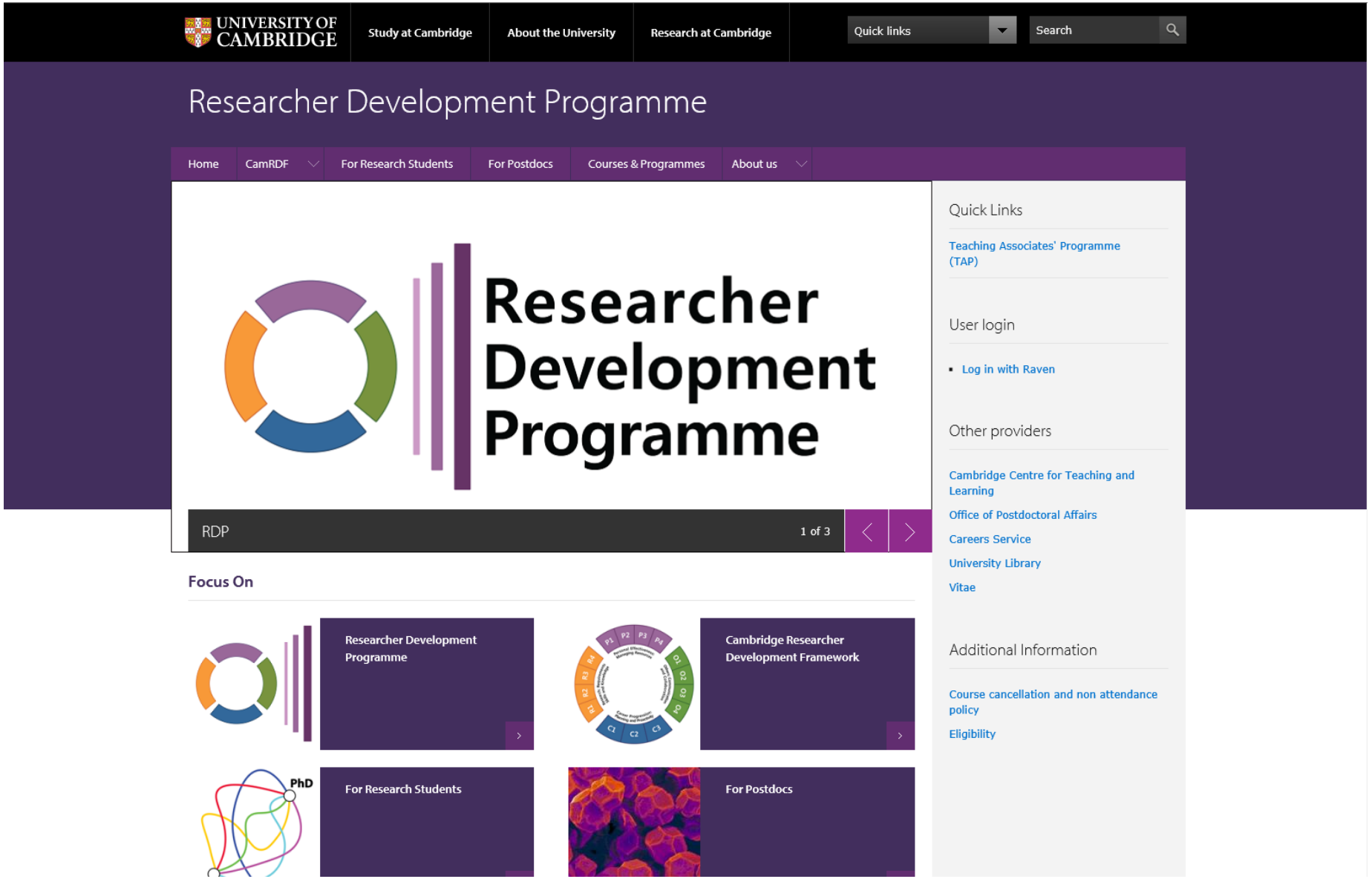
Martinson, B.C., Anderson, M.S. and R. de Vries. *Scientists behaving badly,* Nature, Vol 435, 2005.

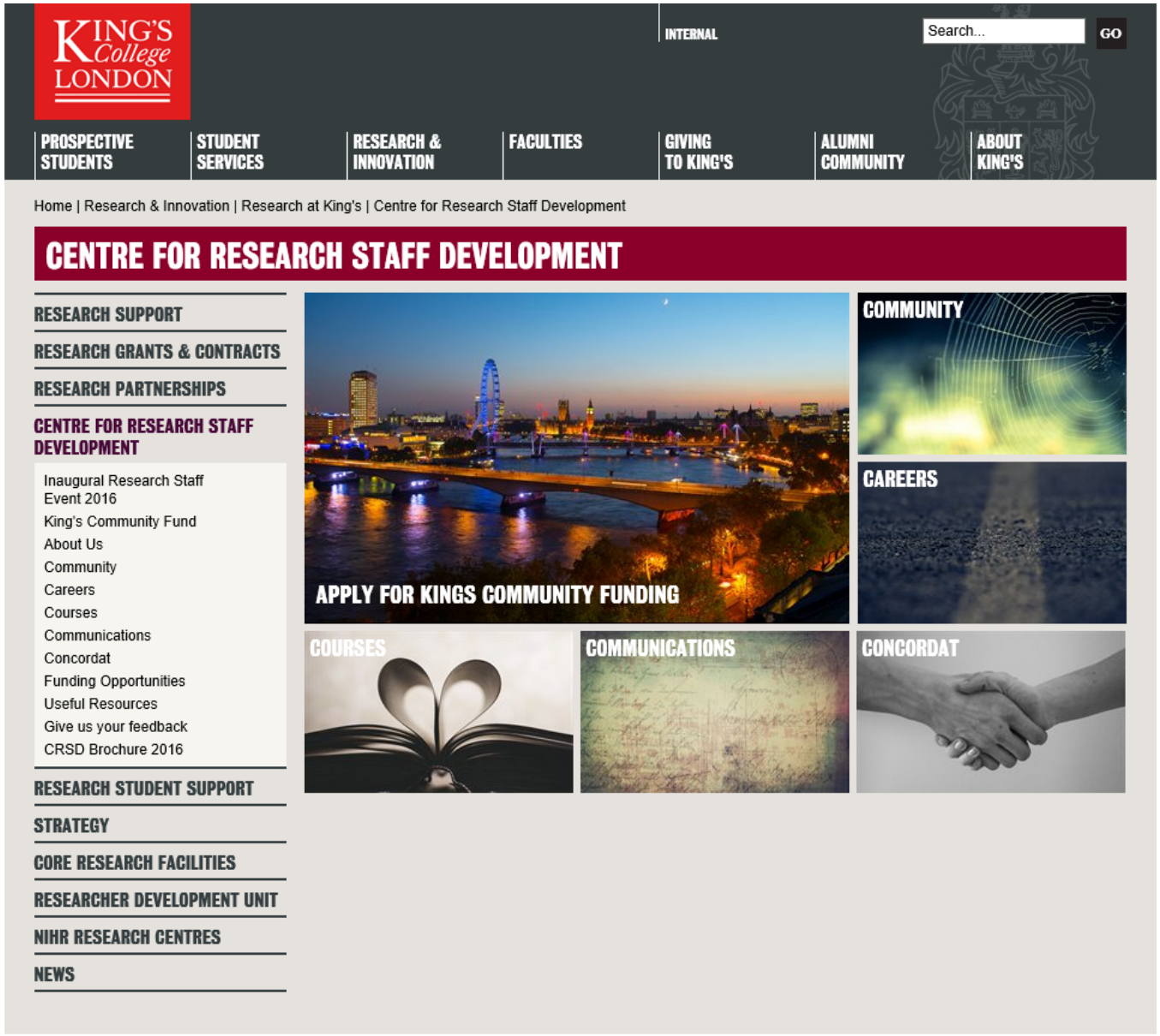
Repliserbarhet

- Ca. 70% har forsøkt, men feilet i å reprodusere en annens forskers resultater
- Ca. 50% har ikke kunnet reprodusere resultater fra egen forskning



Baker, M. *1,500 scientists lift the lid on reproducibility*, News feature, Nature, May 2016, Vol. 533


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RESEARCH GRANTS & CONTRACTS
RESEARCH PARTNERSHIPS
CENTRE FOR RESEARCH STAFF DEVELOPMENT
Inaugural Research Staff Event 2016
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Careers
Courses
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Concordat
Funding Opportunities
Useful Resources
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Take-home message

- Profesjonalisering av søknadsskriving (ikke-vitenskapelige deler)
- Styrke «forskningsstøtte» på grunnplanet
- Gjennomtenkt bruk og håndtering av bibliometri på NMBU (institusjonsansvar)
- Årvåkenhet og sikring av god forskningsmetodikk og –design – kvalitet i «håndverket».
- Etablering av «Researcher development framework» - nasjonalt og på det enkelte universitet



So what will you do?

