Report from VR and discussions

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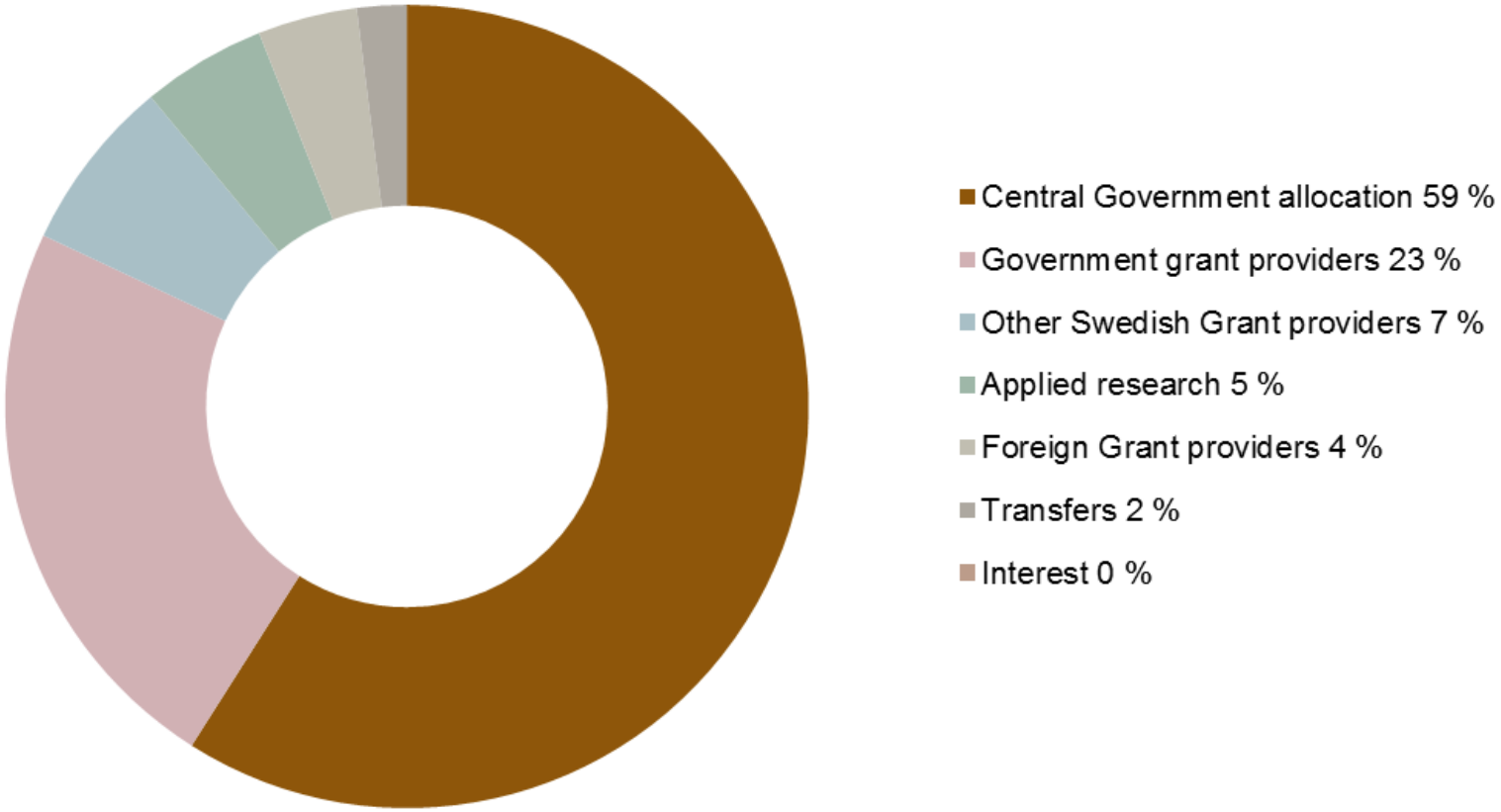
Overview
Typical budget
Main givers
VR Structure
RFI
NT
Grading, tips
Statistics

Overview

1. Overview
2. A typical (science) faculty budget
3. Main grant providers
4. VR Structure
5. Rådet för forskningens infrastrukturer
6. NT Ämnesrådet
   - NT Board
   - Type of grants
   - Time frame
   - Beredningsgrupper
   - Bg MN,3
7. Grading, tips
8. Statistics 2012 and earlier

A typical faculty budget

Lund faculty of science: 979 MSEK (2012)



A typical faculty budget

- Lund faculty of science: 979 MSEK (2012)
- The central allocation:
  - Bachelor/Master: 129 MSEK (planned 2013)
  - Research/PhD education: 422 MSEK(planned 2013)
- The 41% extern is (essentially) all research
- Yes, (undergraduate) teaching is not our major occupation (despite what the extended family thinks)
- This is for Lund, similar for the others
- Lund university as a whole
  - Central allocation Bachelor/Master: 1887 MSEK (2012)
  - Research/PhD education: 2166 MSEK(2012)
  - External: 2232 MSEK (2012)
  - Other: 600 MSEK (2012)

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Main grant providers

- Swedish government
  - Vetenskapsrådet = Swedish Research Council
  - Vinnova: Innovation: (very) applied research
  - Rymdstyrelsen: Space research
- Swedish private
  - Wallenberg
  - SKB (via nuclear power programs)
  - Nobel
  - Göran Gustafsson
  - Crafoord
  - Strategiska stiftelsen
- EU via framework programs and ERC
- Many more small players

VR: main structure

Board and general director:

- NT: Science and technology
- M: Medical
- HS: Humaniora and social sciences
- RFI: Research infrastructure
- Education science
- Development research
- Art research (konstnärlig forskning)

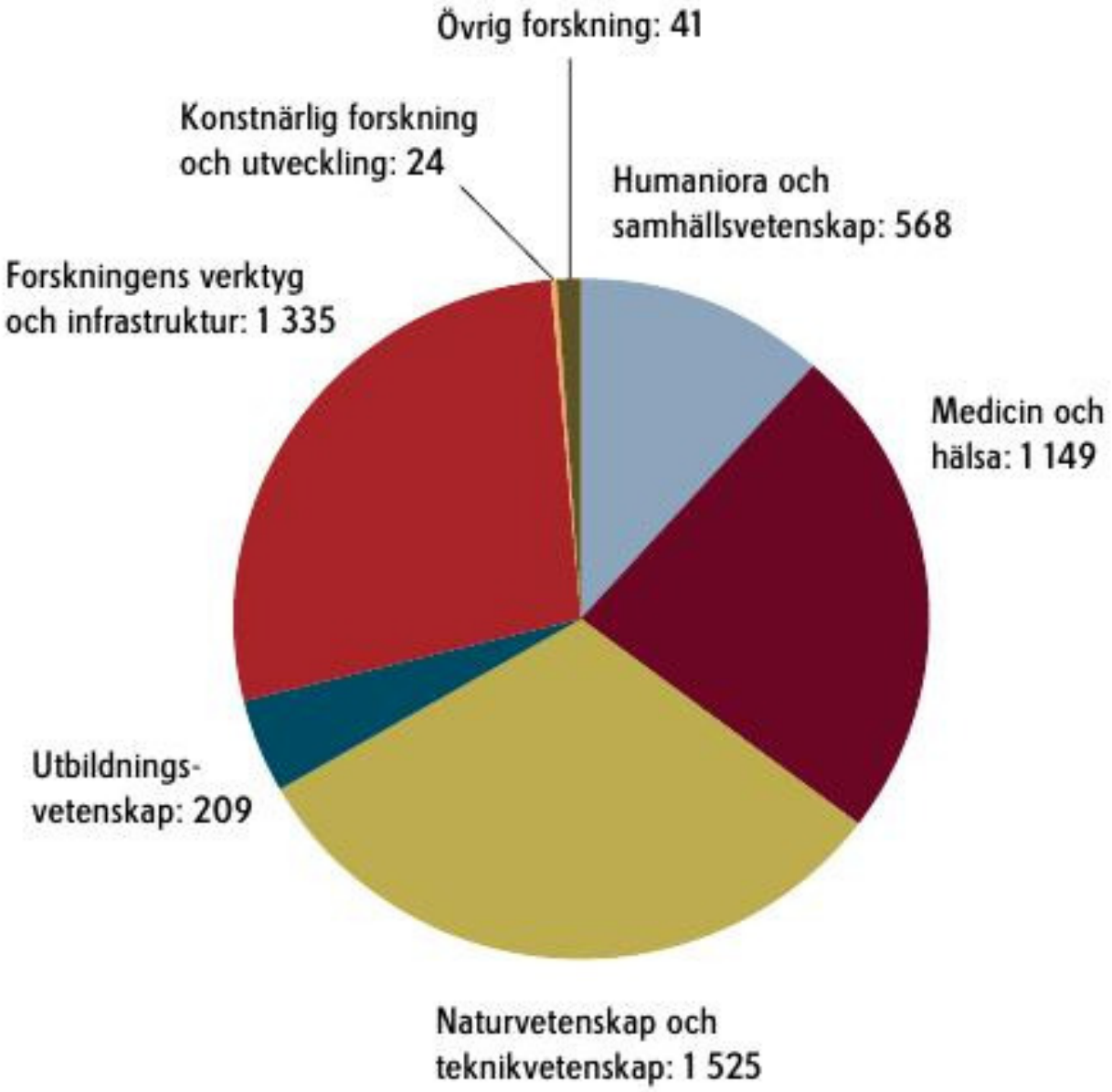
VR board

- Mille Milnert, Professor i reglerteknik, generaldirektör (Linköping)
- General:
  - Lars Anell, Ordförande, Ambassadör
  - Charlotte Petri Gornitzka, Generaldirektör för SIDA
- Researchers
  - Lena Carlsson, Professor i klinisk metabolisk forskning, Göteborgs universitet
  - Danuta Fjellestad, Vice ordförande, Professor i engelska med inriktning mot amerikansk litteratur, Uppsala
  - Peter Hedström, Professor i sociologi, Stockholm
  - Arne V Johansson, Professor i mekanik, Kungliga Tekniska högskolan
  - Olle Stendahl, Professor i medicinsk mikrobiologi, Hälsouniversitetet, Linköping
  - Stacey Sörensen Professor i synkrotronljusfysik, Lunds universitet

VR budget

- Total about 5 GSEK to research
- For numbers see: Årsredovisning 2012
- Comment: Sweden likes reorganizations, so numbers over a long period difficult to get

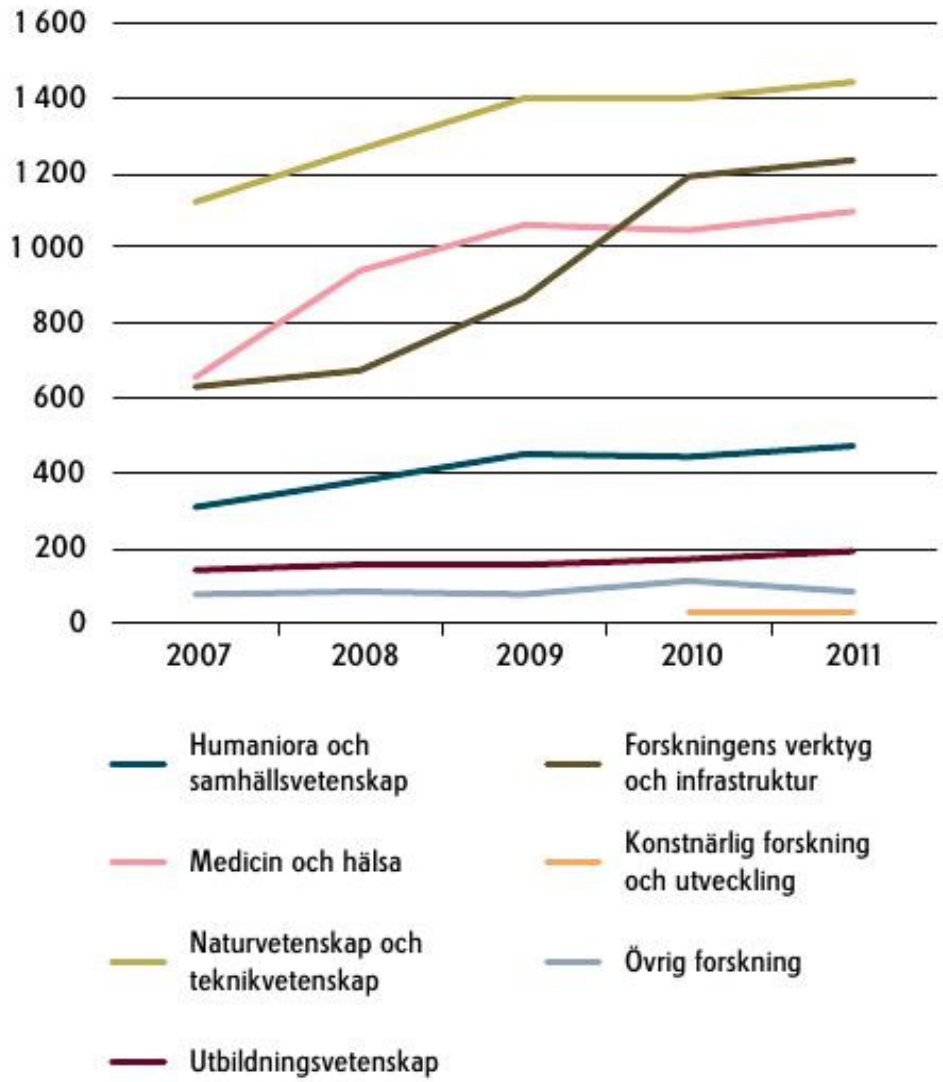
VR budget 2012



VR budget

FIGUR 5. VETENSKAPSRÅDETS FORSKNINGSSTÖD INOM OLIKA OMRÅDEN 2008–2012, MILJONER KRONOR

Källa: Tabell III.



Rådet för forskningens infrastrukturer

Things they do:

- MAXlab, Onsala observatory
- ESS
- SNIC, SUNET, NorduGrid, PRACE
- Sweden's participation in international laboratories: ALMA, CERN, ESO, FAIR, IceCube, ITER, JET, NOT, SKA,...

Rådet för forskningens infrastrukturer

The work is divided into preparation groups:

- Beredningsgrupp 1 - Infrastruktur för astronomi och subatomär forskning
  - Göran Östlin, SU, Ordförande/Chair (astro)
  - Tünde Fülöp (vice ordförande), Chalmers (plasma/fusion)
  - Melvyn Davies, Lunds universitet (astro)
  - Thomas Nilsson, Chalmers (nuclear)
  - Barbro Åsman, SU (particle)
- Beredningsgrupp 2 - Infrastruktur för molekyl-, cell- och materialforskning
- Beredningsgrupp 3 - Infrastruktur för forskning om jorden och dess närmaste omgivning
- Beredningsgrupp 4 - Infrastruktur för e-Science
- Beredningsgrupp 5 - Infrastruktur för individ, kultur och samhälle
- Tillfälliga expert- och arbetsgrupper

Rådet för forskningens infrastrukturer

Type of grants (and often smaller ones, relevant for here)

- Large databases
- Planning grant
- Large scientific instruments (dyrbar utrustning)
- operation grants (Driftsbidrag), e.g. ATLAS participation costs
- National researchers network
- Swdish research links (international collaboration grants)

NT Ämnesrådet

These officially take the decisions on grants (all professors)

- Sven Stafström, Secretary general, beräkningsfysik, Linköpings universitet
- Anders Rantzer (Chair), reglerteknik, Lunds universitet
- Henrik Cederquist, Atomfysik, Stockholms universitet
- Dan Henningson, fluidmekanik, KTH
- Olle Häggström, matematisk statistik, Chalmers
- Kristina Luthman, läkemedelskemi, Göteborgs universitet
- Ellen Moons, materialfysik, Karlstads universitet
- Ruth Palmer, molekylär genetik, Umeå Universitet
- Per Persson, kemi, Umeå universitet
- Anna Qvarnström, zooekologi, Uppsala universitet

Type of grants

(check vr.se to be sure, changes often)

- NT alone:
  - Project grants
  - Project grants, young researchers ($\leq$ 8 years after PhD)
- Together with others:
  - International postdoc (twice a year, PhD less than two years)
  - Excellent young researchers (5 years, 3 MSEK/year, PhD 2001-01-01 - 2007-01-01)
  - Rådsprofessur (10 years, 5 MSEK/year, PhD before 2006-01-01)
  - International recruiting of top researchers (by the rektor)
  - Conference grant (both to organize and to go to)

Time frame (2013)

- 1 april: Alla ledamöter i beredningsgrupperna klara (nominerade)
- 11 april Sista ansökningsdag NT (bilaga S: 16 april)
- 3 maj: Workshop om fördelning av ansökningar på beredningsgrupp
- 8 maj: Samråd med MH, HS och U om ansökningar
- 16-17 maj: NT-rådsmöte (beslut om ledamöter)
- 22 maj: Ordförandemöte
- 27 maj: Stoppdatum för placering av ansökningar i beredningsgrupper och sista datum för flytt mellan ämnesråd
- 3 juni Anmälan av jäv (conflict of interest)
- 10 juni: Stoppdatum för fördelning av granskare på ansökan (interna)
- 26 augusti-17 september: Beredningsgrupperna sammanträder

Overview
Typical budget
Main givers
VR Structure
RFI
NT
NT Board
Type of grants
Time frame
Beredningsgruppe
Bg MN,3
Grading, tips
Statistics

Time frame (2013)

- 27 september: NT-rådsmöte
- 7 oktober: Omfördelningsmöte
- 7 oktober: NT-ID gruppen sammanträder (industridoktorand)
- 9 oktober: Panelen för Statistik i empiriska vetenskaper sammanträder
- 24 oktober: Energimyndighetens energiutvecklingsnämnd sammanträder
- 25 oktober: NT-rådsmöte (bidragsbeslut)
- 6-7 november: Beslutsmöte RFI
- 4 November: NT decisions project + project young public

Beredningsgruppen

- Reorganized every 5-6 years (2013 just a new one)
- 19 Different ones
- Remember NT is 1525 MSEK

Overview
Typical budget
Main givers
VR Structure
RFI
NT
NT Board
Type of grants
Time frame
Beredningsgruppen
Bg MN,3
Grading, tips
Statistics

Beredningsgruppen

1. Matematiska vetenskaper
2. Datavetenskap
3. Subatomär fysik, rymdfysik och astronomi
4. Atom- + molekylfysik, optik + kondenserade materiens fysik
5. Analytisk, fysikalisk och teoretisk kemi
6. Organisk och oorganisk kemi
7. Geologi och geofysik
8. Processer i mark, luft och vatten
9. Biokemi och strukturbiologi
10. Cell- och molekylärbiologi
11. Organismbiologi
12. Ekologi, systematik och evolution
13. Elektronik, elektroteknik,
14. Signaler och system
15. Tillämpad fysik
16. Teknisk mekanik
17. Bioteknik, kemiteknik och miljöteknik
18. Materialvetenskap
19. Medicinsk teknik

Beredningsgrupp 3,MN,M

- 3. Subatomär fysik, rymdfysik och astronomi (since 2013, money from 2014):
  Acceleratorfysik; Astrofysik; Astronomi Astropartikelfysik; Fusion; Kosmologi; Matematisk fysik; Plasmafysik; Relativitetsteori; Rymdfysik; Strålningsfysik (icke-medicinska aspekter); Subatomär fysik
- MN: Subatomär fysik, astrofysik, rymdfysik och fusion (2008-2013)
- M: Subatomär fysik och astrofysik (until 2008)
- Until 2000: NFR subatomär var en kommitee
- Notes for next page:
  - What is counted changes often
  - % even more difficult, what is total changes
  - Money spent in the area, not all in the beredningsgrupp (postdocs,. . .)

Beredningsgrupp 3,MN,M

	2003	2004	2005	2006	2007
M	59 881	55 245	58 021	55 462	52 675
%	6.09	7.14	7.44	6.61	6.03
	2008	2009	2010	2011	2012
M	52 521	36 202			
MN		19 588	66 914	67 456	69 160
%	5.56	5.59	6.73	6.59	6.69

- We have the smallest average grant
- We have the highest degree of granting
- We have very much salary support (Friköp)
- VR considers all these a problem
- Consequence: "our" share has problems in redistribution process (seems less of a problem recent years)
- Our argument: "VR is all we can get: so getting no is a very big problem" is understood (I think) by NT but not at higher levels (including politicians)

The process

- Grants that run out + some inflation correction + possibly other inputs: determine total budget in area
- Some part goes to redistribution, 2013: 30 MSEK for all 19 groups
- Remainder the group has free disposal over
- Bg 3: 2013: 8.5 MSEK + 2.8 MSEK (young)
- All groups: 156 MSEK + 53 MSEK (young)
- Average grant: wanted over 800 kSEK, BgMN 2012 about 650k
- VR: before was 3 year, this year 75% 4 year, next year all

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Beredningsgruppe
Bg MN,3
Grading, tips
Statistics

We were: (area is my note)

- Lars Bergström, Stockholm (chair), astropartikel
- Hannu Koskinen, Helsingfors, (vicechair), space/plasma
- Susanne Höfner, Uppsala universitet, astro
- Stephan Rosswog, Stockholms universitet, astro
- Johan Bijnens, Lunds universitet, particle/nuclear
- Katri Huitu, Helsingfors, Finland, particle
- Martin Cederwall, Chalmers, particle/string
- Annika Ekedahl, CEA Cadarache, Frankrike, fusion/plasma
- Jouni Suhonen, University of Jyväskylä, Finland, nuclear
- Philip Bambade, LAL Saclay, Frankrike, particle
- Dominique Fontaine, Frankrike, space/plasma
- Jacqueline Bergeron, Institut d'Astrophysique de Paris
- Gert Brodin, Umeå universitet, plasma
- Henrik Cederquist, ämnesrådet NT, observatör
- Kenneth Kaartinen, Vetenskapsrådet
- Emma Olsson, Vetenskapsrådet

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NT
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Bg MN,3
Grading, tips
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What we had

- 107 applications in total
- each read by (at least) three members, final report is from whole group
- 32 Junior project (2.8 MSEK + omfördelning)
- 59 Project (8.5 MSEK + omfördelning)
- RFI
  - 4 Large equipment
  - 6 Operation grant (drift)
  - 3 Planning grant
- 2 Statistics in empirical sciences
- 1 Framework for cooperation with China
- Each reads 20-37 applications, so that's why there are page limits and a size font prescribed

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Bg MN,3
Grading, tips
Statistics

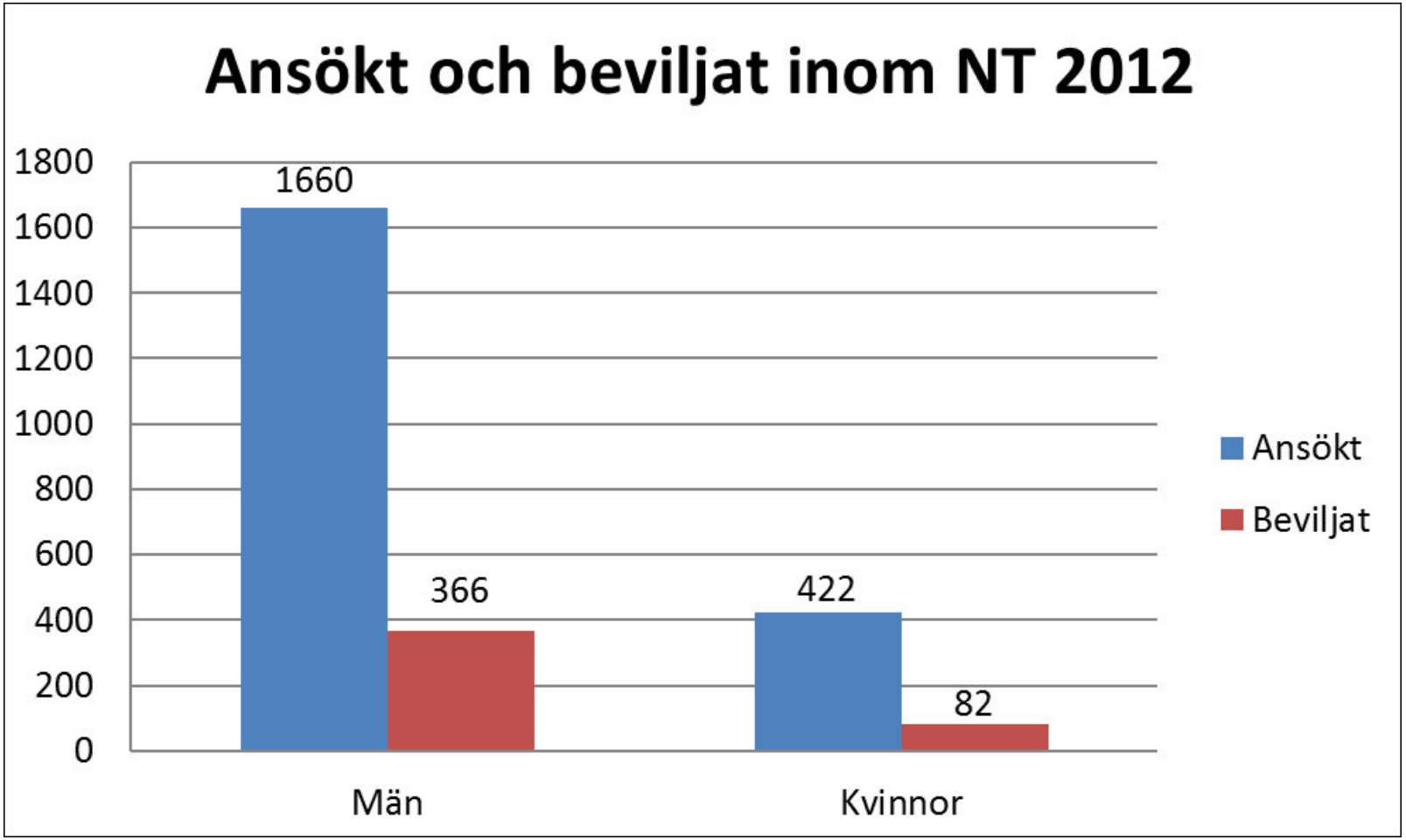
Grading

- 7: Outstanding
  6: Excellent
  5: Very good to excellent
  4: Very good
  3: Good
  2: Weak
  1: Insufficient
- Typically only very few are 1. or 2.
- Instructions for grading: beredningshandboken (is public)
- Rank the applications, till for sure no chance for money
  In frame: directly yes; Remainder to redistribution process
  Ranking is NOT public, only the grades and whether or not money
- New this year: 30% lowest graded not discussed

Tips, tricks,. . .

- A well written application helps very much
- Describe what you want to do, avoid being overly vague, but also an overview, how it fits in the field
- No recommendation letters, the application is the information we have.
- Talk to some seniors when submitting an application
- System is electronic: don't wait till the last day
- Many local requirements: must be satisfied before head of department can sign
- Ansökningar blir allmänna handlingar (can be important for patents)

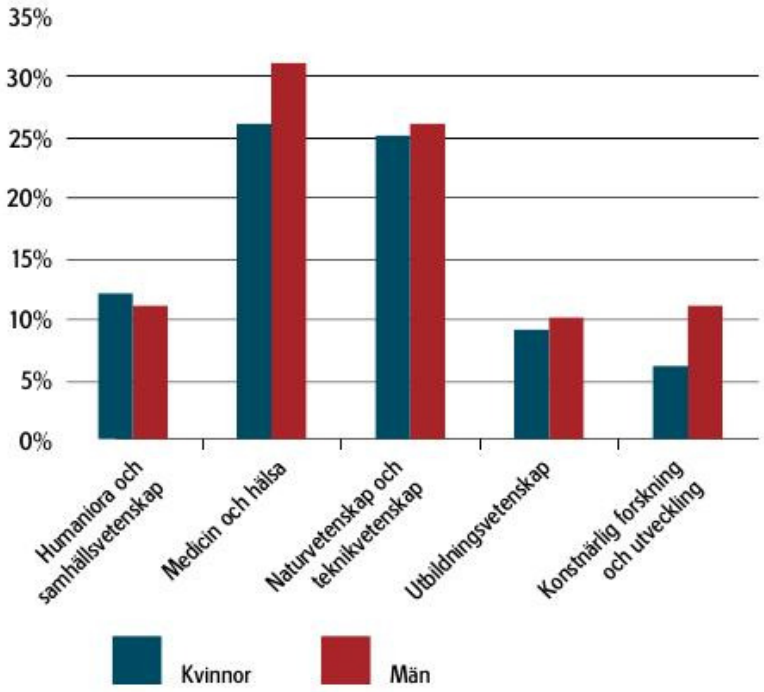
Statistics 2012



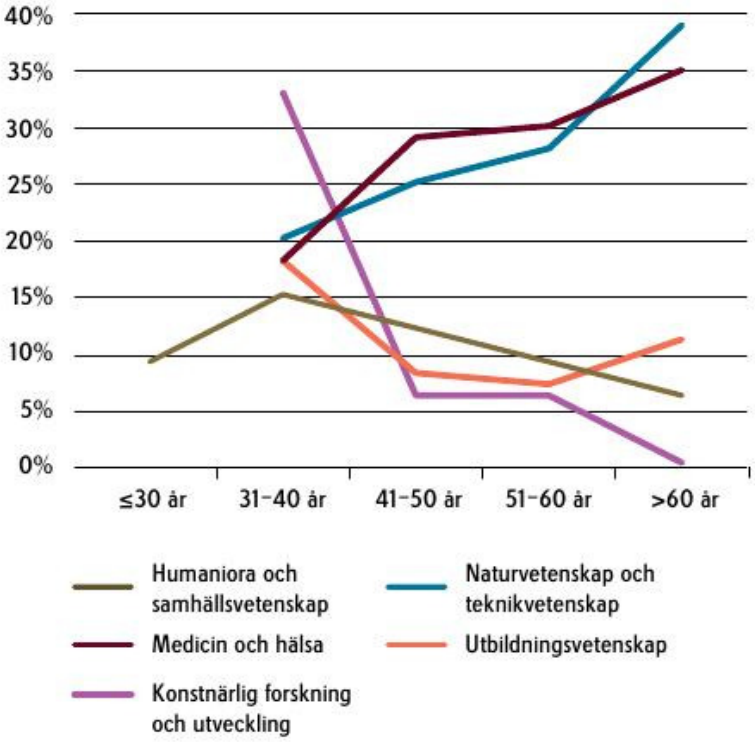
That is 22.0% (men) 19.4%(women) 21.5% (total)

Statistics 2012

FIGUR 9. ANDEL BEVILJADE PROJEKTBIDRAG ÅR 2012 UPPDELAT PÅ ÄMNESOMRÅDE OCH KÖN
Källa: Tabell VI-A.



FIGUR 10. ANDEL BEVILJADE PROJEKTANSÖKNINGAR ÅR 2012 UPPDELAT PER ÅLDERSGRUPP
Källa: Tabell VI-B.



Statistics BgMN: Projects only

	Applications			Granted			
	F	M	Total	F	M	total	"Frame"
2010	11	56	67	3	19	22 (32.8%)	11.6 MSEK
2011	10	63	73	4	27	31 (42.5%)	13.3 MSEK
2012	6	55	61	2	25	27 (44.3%)	12.7 MSEK
2013			59				8.5 MSEK

Notes:

- LHC-K + omfördelning not in "frame" but in the other numbers
- Projects young researchers not included
- Young researchers was earlier Swedish postdoc, FoAss, Rådsforskare
- Decrease due to new grants type related to 'top research' (spetsforskning) and downward fluctuation in number of grants that ran out (partly the 3 to 4 year shift)

Conclusions

- Idea: give you some feeling how things go
- http://www.vr.se