



JAGIELLONIAN UNIVERSITY
IN KRAKOW

Scientific sources of research financing

Alicja Józkowicz

Department of Medical Biotechnology,
Faculty of Biochemistry, Biophysics and Biotechnology,
Jagiellonian University



R&D personel

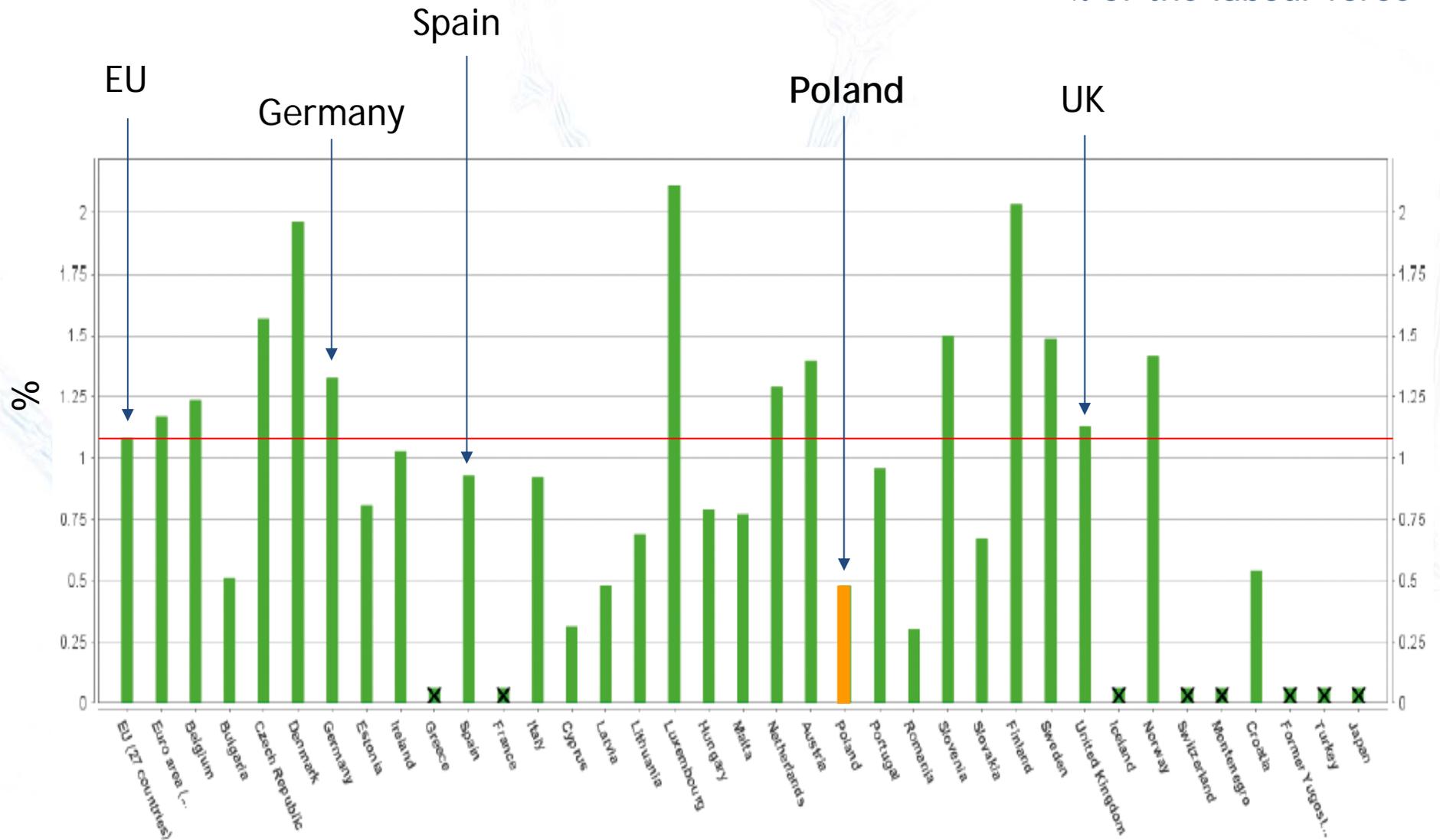
- The number of researchers in the EU has increased in recent years (1.5 million researchers, increase of 34.5% when compared with 2000):
 - * 46% in the business enterprise sector,
 - * 40% in the higher education sector (in Poland: >60%)
 - * 13 % in the government sector.
- R & D personnel from all sectors together made up approximately 1.0% in EU
 - * in Poland: <0.5%
- There were 525 800 doctoral students in the EU, compared with levels of 460 800 in the United States and 75 000 in Japan.
 - * Group of science, mathematics, computing, engineering, manufacturing and construction-related studies accounted for 36.4% (in Japan: 32.2%; in the United States: 38.2%).





R&D personnel

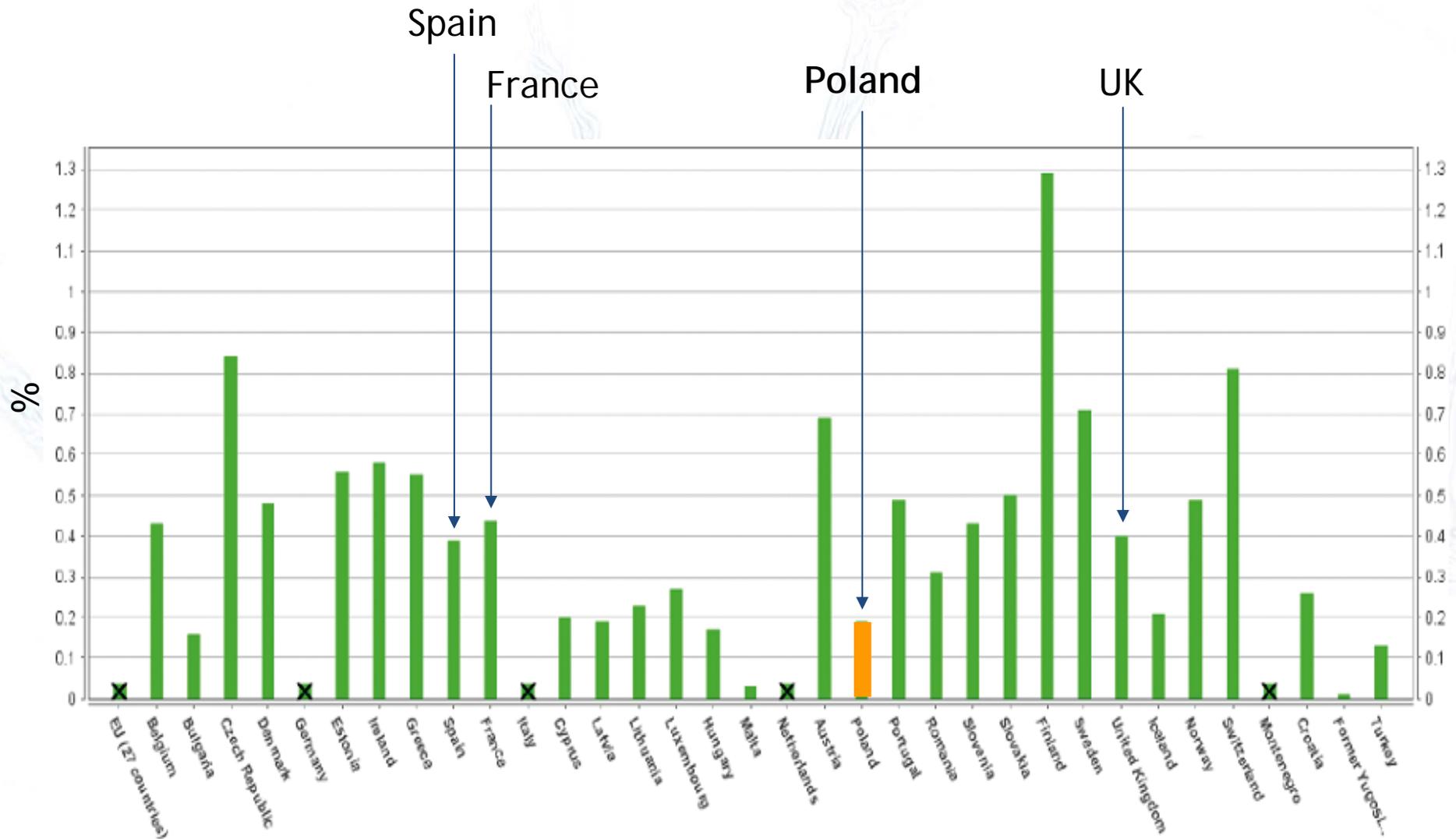
% of the labour force





Doctorate students in S&T

% of the population aged 20-29





R&D personel

| | Total - all sectors | Business enterprise sector | | Government sector | | Higher education sector | |
|-------------------|------------------------|-------------------------------|--------------|----------------------|--------------|----------------------------|--------------|
| | (1 000 FTE) | (1 000 FTE) | (% of total) | (1 000 FTE) | (% of total) | (1 000 FTE) | (% of total) |
| EU-27 | 1 504.6 | 689.9 | 46 | 188.4 | 13 | 608.6 | 40 |
| Euro area (EA-16) | 1 006.3 | 501.8 | 50 | 137.2 | 14 | 354.4 | 35 |
| Belgium | 36.4 | 17.8 | 49 | 2.7 | 7 | 15.6 | 43 |
| Bulgaria | 11.4 | 1.5 | 13 | 6.0 | 53 | 3.8 | 33 |
| Czech Republic | 29.8 | 13.3 | 44 | 7.1 | 24 | 9.4 | 31 |
| Denmark | 30.9 | 19.6 | 63 | 1.2 | 4 | 9.9 | 32 |
| Germany | 299.0 | 178.0 | 60 | 44.0 | 15 | 77.0 | 26 |
| Estonia | 4.0 | 1.2 | 31 | 0.5 | 13 | 2.1 | 53 |
| Ireland | 13.7 | 7.4 | 54 | 0.6 | 5 | 5.7 | 41 |
| Greece (*) | 20.8 | 6.1 | 29 | 2.2 | 11 | 12.4 | 59 |
| Spain | 131.0 | 46.4 | 35 | 22.6 | 17 | 61.7 | 47 |
| France (*) | 215.8 | 118.6 | 55 | 26.5 | 12 | 67.4 | 31 |
| Italy | 96.3 | 36.1 | 37 | 16.3 | 17 | 39.8 | 41 |
| Cyprus | 0.9 | 0.2 | 23 | 0.1 | 11 | 0.5 | 59 |
| Latvia | 4.4 | 0.5 | 11 | 0.9 | 19 | 3.0 | 69 |
| Lithuania | 8.5 | 1.2 | 14 | 1.7 | 20 | 5.6 | 66 |
| Luxembourg | 2.3 | 1.5 | 67 | 0.6 | 24 | 0.2 | 8 |
| Hungary | 18.5 | 7.9 | 43 | 4.7 | 26 | 5.9 | 32 |
| Malta | 0.5 | 0.2 | 48 | 0.0 | 4 | 0.3 | 49 |
| Netherlands | 51.1 | 26.6 | 52 | 6.9 | 14 | 17.5 | 34 |
| Austria | 34.4 | 21.8 | 63 | 1.5 | 4 | 11.0 | 32 |
| Poland | 61.8 | 8.9 | 14 | 12.9 | 21 | 39.9 | 65 |
| Portugal | 40.6 | 10.6 | 26 | 3.3 | 8 | 22.5 | 56 |
| Romania | 19.4 | 6.3 | 33 | 6.2 | 32 | 6.8 | 35 |
| Slovenia | 7.0 | 3.1 | 43 | 2.2 | 31 | 1.8 | 26 |
| Slovakia | 12.6 | 1.6 | 13 | 2.9 | 23 | 8.1 | 64 |
| Finland | 40.9 | 24.1 | 59 | 4.5 | 11 | 11.8 | 29 |
| Sweden | 48.2 | 33.4 | 69 | 1.8 | 4 | 12.9 | 27 |
| United Kingdom | 261.4 | 94.3 | 36 | 8.2 | 3 | 154.9 | 59 |
| Iceland | 2.3 | 1.1 | 48 | 0.5 | 21 | 0.6 | 28 |
| Norway (*) | 24.8 | 12.4 | 50 | 3.9 | 16 | 8.5 | 34 |
| Switzerland | : | : | : | 0.5 | : | : | : |
| Croatia | 6.7 | 1.1 | 16 | 1.9 | 28 | 3.7 | 55 |
| Turkey (*) | 49.7 | 15.3 | 31 | 4.8 | 10 | 29.5 | 59 |
| Japan (*) | 710.0 | 483.7 | 68 | 32.7 | 5 | 185.2 | 26 |
| United States (*) | 1 430.0 | 1 140.0 | 80 | : | : | : | : |

EU

Germany

Spain
France

Poland

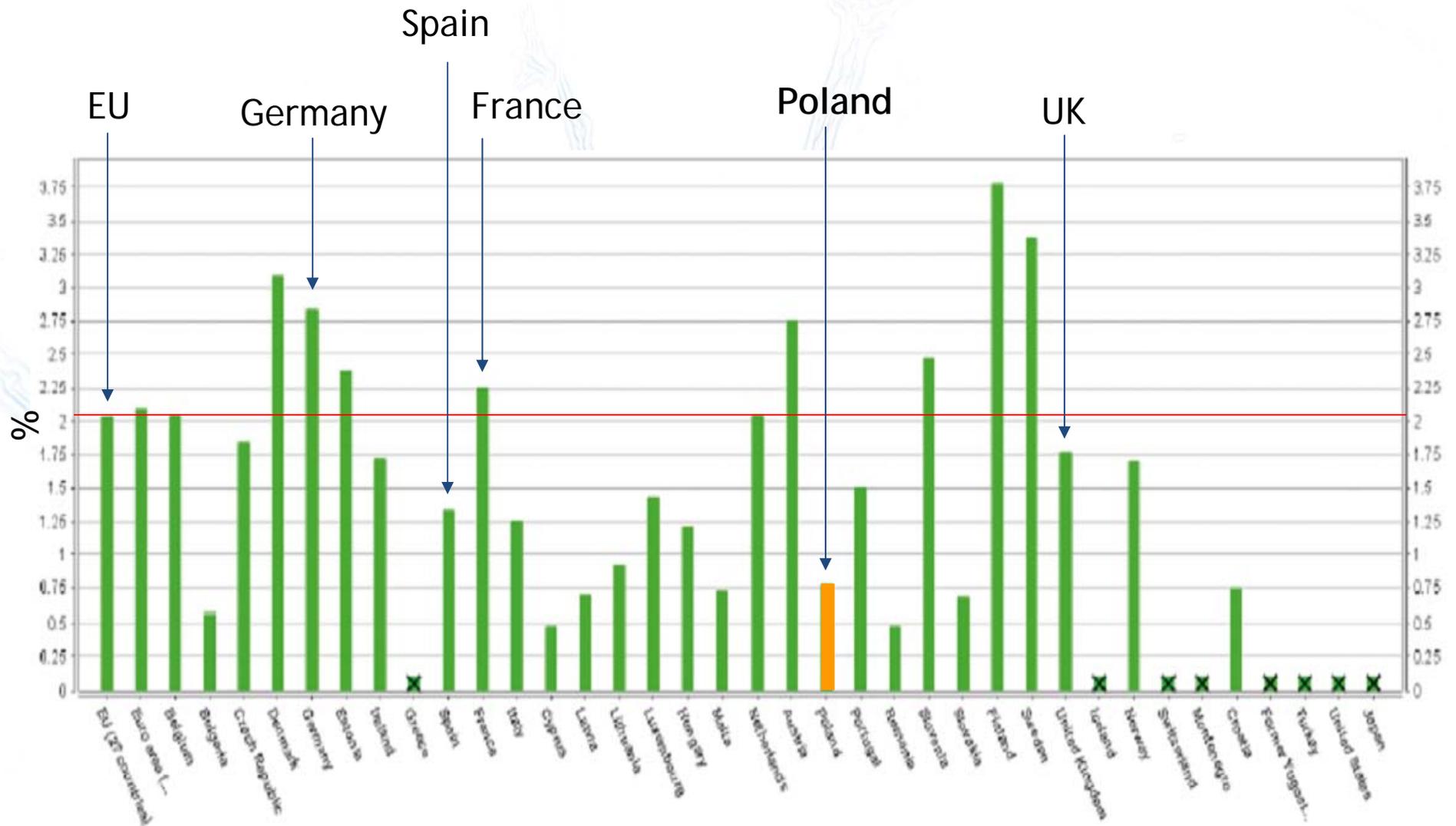
UK





Gross domestic expenditure on R&D

% of the GDP

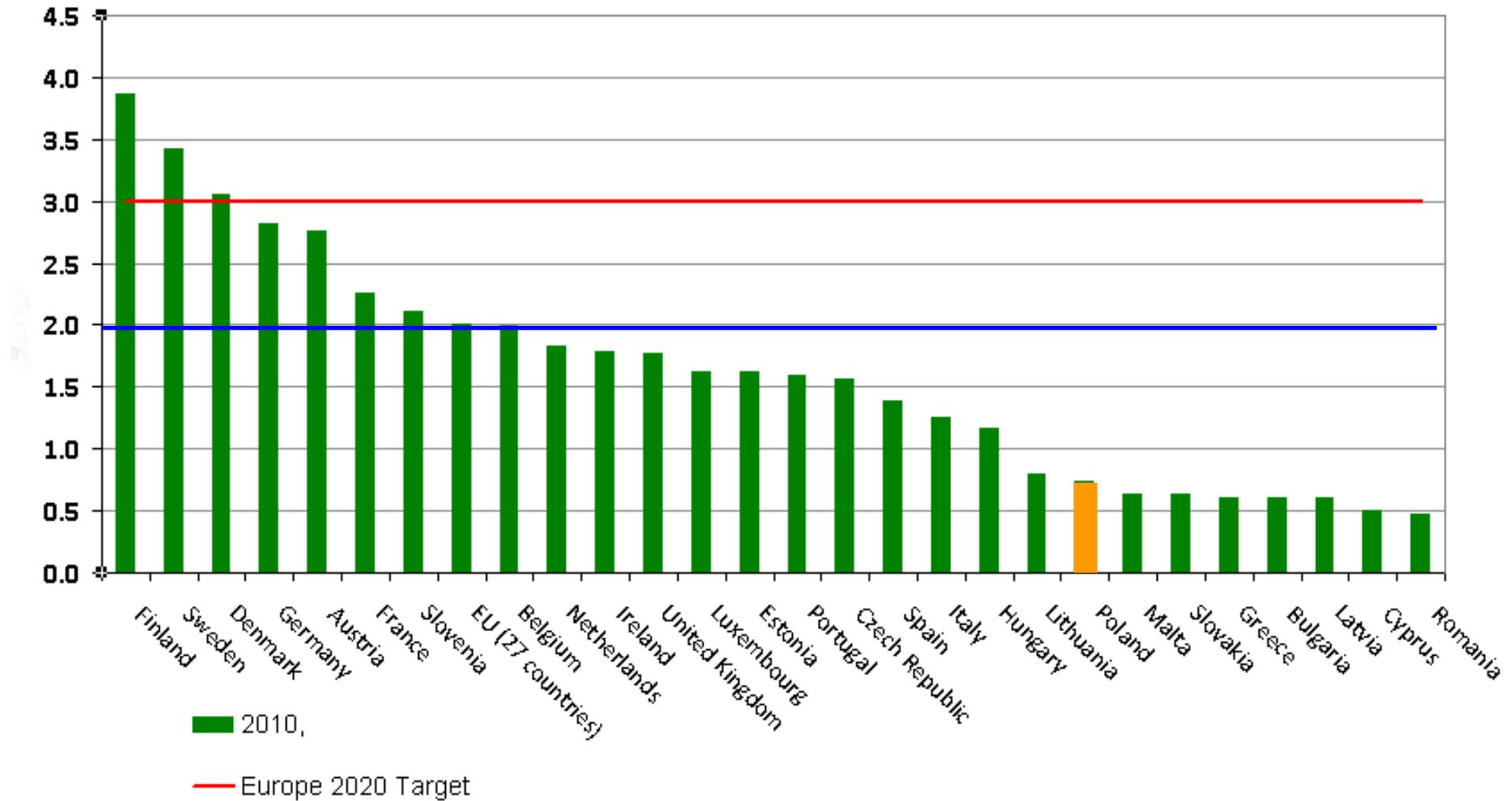




Gross domestic expenditure on R&D

Gross domestic expenditure on R&D (GERD)

Percentage of GDP





Gross domestic expenditure on R&D

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|
| EU-27 | 1.86 | 1.87 | 1.88 | 1.87 | 1.83 | 1.83 | 1.85 | 1.85 | 1.92 | 2.01 | 2.00 |
| Euro area | 1.84 | 1.86 | 1.88 | 1.87 | 1.85 | 1.84 | 1.87 | 1.88 | 1.96 | 2.06 | 2.06 |
| Belgium | 1.97 | 2.07 | 1.94 | 1.87 | 1.86 | 1.83 | 1.86 | 1.89 | 1.97 | 2.03 | 1.99 |
| Bulgaria | 0.51 | 0.46 | 0.48 | 0.48 | 0.49 | 0.46 | 0.46 | 0.45 | 0.47 | 0.53 | 0.60 |
| Czech Republic | 1.17 | 1.16 | 1.15 | 1.20 | 1.20 | 1.35 | 1.49 | 1.48 | 1.41 | 1.48 | 1.56 |
| Denmark (1) | 2.24 | 2.39 | 2.51 | 2.58 | 2.48 | 2.46 | 2.48 | 2.58 | 2.85 | 3.06 | 3.06 |
| Germany | 2.47 | 2.47 | 2.50 | 2.54 | 2.50 | 2.51 | 2.54 | 2.53 | 2.69 | 2.82 | 2.82 |
| Estonia | 0.60 | 0.70 | 0.72 | 0.77 | 0.85 | 0.93 | 1.13 | 1.08 | 1.28 | 1.43 | 1.62 |
| Ireland | 1.11 | 1.09 | 1.09 | 1.16 | 1.22 | 1.24 | 1.24 | 1.28 | 1.45 | 1.74 | 1.79 |
| Greece | | 0.58 | | 0.57 | 0.55 | 0.60 | 0.59 | 0.60 | | | |
| Spain | 0.91 | 0.92 | 0.99 | 1.05 | 1.06 | 1.12 | 1.20 | 1.27 | 1.35 | 1.39 | 1.39 |
| France (2) | 2.15 | 2.20 | 2.24 | 2.18 | 2.16 | 2.11 | 2.11 | 2.08 | 2.12 | 2.26 | 2.26 |
| Italy | 1.04 | 1.08 | 1.12 | 1.10 | 1.09 | 1.09 | 1.13 | 1.17 | 1.21 | 1.26 | 1.26 |
| Cyprus | 0.25 | 0.26 | 0.30 | 0.35 | 0.37 | 0.41 | 0.43 | 0.44 | 0.43 | 0.49 | 0.50 |
| Latvia | 0.45 | 0.41 | 0.42 | 0.38 | 0.42 | 0.56 | 0.70 | 0.60 | 0.62 | 0.46 | 0.60 |
| Lithuania | 0.59 | 0.67 | 0.66 | 0.67 | 0.75 | 0.75 | 0.79 | 0.81 | 0.79 | 0.83 | 0.79 |
| Luxembourg | 1.65 | | | 1.65 | 1.63 | 1.56 | 1.66 | 1.58 | 1.57 | 1.66 | 1.63 |
| Hungary (3) | 0.81 | 0.93 | 1.00 | 0.94 | 0.88 | 0.94 | 1.01 | 0.98 | 1.00 | 1.17 | 1.16 |
| Malta (3) | | | 0.26 | 0.25 | 0.53 | 0.57 | 0.62 | 0.58 | 0.56 | 0.54 | 0.63 |
| Netherlands | 1.94 | 1.93 | 1.88 | 1.92 | 1.93 | 1.90 | 1.88 | 1.81 | 1.77 | 1.82 | 1.83 |
| Austria | 1.93 | 2.05 | 2.12 | 2.24 | 2.24 | 2.46 | 2.44 | 2.51 | 2.67 | 2.72 | 2.76 |
| Poland | 0.64 | 0.62 | 0.56 | 0.54 | 0.56 | 0.57 | 0.56 | 0.57 | 0.60 | 0.68 | 0.74 |
| Portugal | 0.73 | 0.77 | 0.73 | 0.71 | 0.75 | 0.78 | 0.99 | 1.17 | 1.50 | 1.64 | 1.59 |
| Romania | 0.37 | 0.39 | 0.38 | 0.39 | 0.39 | 0.41 | 0.45 | 0.52 | 0.58 | 0.47 | 0.47 |
| Slovenia (4) | 1.38 | 1.49 | 1.47 | 1.27 | 1.39 | 1.44 | 1.56 | 1.45 | 1.65 | 1.86 | 2.11 |
| Slovakia | 0.65 | 0.63 | 0.57 | 0.57 | 0.51 | 0.51 | 0.49 | 0.46 | 0.47 | 0.48 | 0.63 |
| Finland | 3.35 | 3.32 | 3.36 | 3.44 | 3.45 | 3.48 | 3.48 | 3.47 | 3.70 | 3.92 | 3.87 |
| Sweden (5) | | 4.13 | | 3.80 | 3.58 | 3.56 | 3.68 | 3.40 | 3.70 | 3.61 | 3.42 |
| United Kingdom | 1.81 | 1.79 | 1.79 | 1.75 | 1.68 | 1.73 | 1.75 | 1.78 | 1.79 | 1.86 | 1.77 |
| Iceland | 2.67 | 2.95 | 2.95 | 2.82 | | 2.77 | 2.99 | 2.68 | 2.64 | 3.11 | |
| Norway | | 1.59 | 1.66 | 1.71 | 1.58 | 1.52 | 1.49 | 1.62 | 1.61 | 1.80 | 1.71 |
| Switzerland | 2.53 | | | | 2.90 | | | | 2.99 | | |
| Croatia | | | 0.96 | 0.96 | 1.05 | 0.87 | 0.75 | 0.80 | 0.89 | 0.83 | 0.73 |
| Turkey | 0.46 | 0.51 | 0.51 | 0.47 | 0.51 | 0.58 | 0.57 | 0.71 | 0.73 | 0.85 | |
| Japan (4) | 3.04 | 3.12 | 3.17 | 3.20 | 3.17 | 3.32 | 3.40 | 3.44 | 3.45 | | |
| United States | 2.69 | 2.71 | 2.60 | 2.60 | 2.53 | 2.56 | 2.60 | 2.66 | 2.79 | | |

EU

Germany

Spain

France

Poland

UK

% of the GDP





EU's framework programmes

- Framework programmes are the main instrument for funding R&D within the EU. The 8th framework programme (FP8) starts in 2014. (for 2014-2020).
- Creative activity: new name "**Horizon 2020**" (instead of FP8, already passe).

"The European Research Area (ERA) is composed of all research and development activities, programmes and policies in Europe which involve a transnational perspective. In December 2008, the Competitiveness Council adopted a 2020 vision for the ERA, which foresees the introduction of a 'fifth freedom' - namely, the free circulation of researchers, knowledge and technology."



- Most European research is funded at the national level, by private and/or public sources.





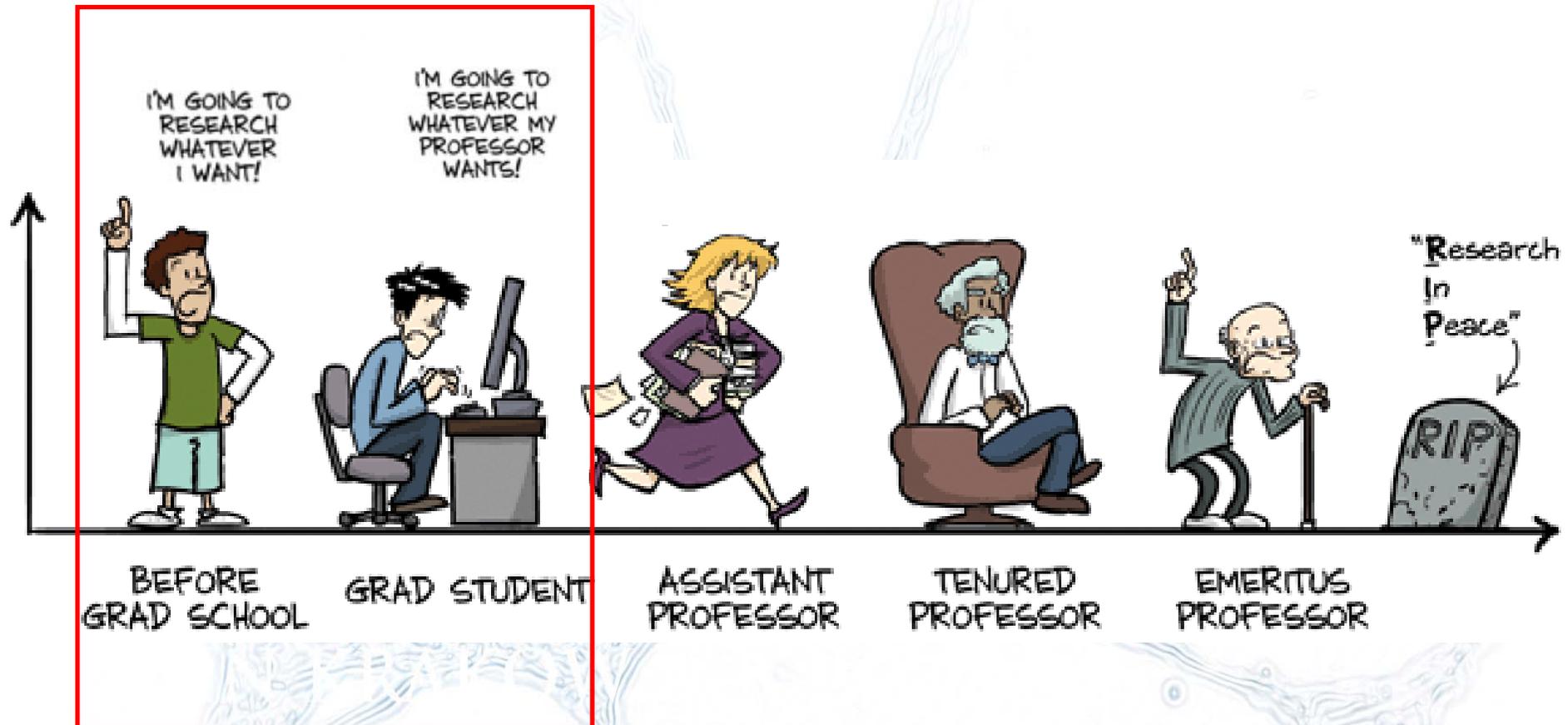
Major sources of research grants in Poland

- National Science Centre
- National Centre for Research and Development
- Ministry of Science and Higher Education
- Foundation for Polish Science
- Companies/business





Very, very early grants





Diamond grant

Ministry of Science and Higher Education



Eligibility: students who completed the third year of a single master and graduates of first degree studies (100 per year).

Aim: Research funding for exceptionally talented students to obtain a doctoral degree faster and shorten the career path.

Criteria:

- The best students, who have already conducted research during the first years of study and want to continue (publications, conference presentations).

Benefits:

- Project: up to 200,000 PLN (including stipend, at least: 2,500 PLN per month for 4 years); overheads: not more than 10%.





Diamond grant

- Research project to be continued under supervision of the promoter.

- Documents required:

- * opinion of direct supervisor
- * CV of supervisor (publications, grants etc.)
- * diplomas, agreements etc.

- Evaluation:

1) Scientific value of the project: 40 points

2) Achievements of the applicant: 50 points

- * publications in peer reviewed journals (at least local) or books
- * involvement in research projects (especially international)
- * patents
- * presentations at conferences
- * international awards
- * trainings abroad (e.g. in the frame of Socrates/Erasmus program)

3) Justification of budget: 5 points

4) Fisibility (e.g. experience of the team, equipment available): 5 points





Diamont grant

(last year: 15 projects for the Jagiellonian University)



Tożsamość (w) brazylijskiej powieści autonarracyjnej

Przewlekła infekcja wirusowa w astmie oskrzelowej

Opracowanie gemm hellenistycznych i rzymskich z kolekcji Konstantego Schmidta-Ciążyńskiego znajdującej się w zbiorach Muzeum Narodowego w Krakowie

Współwystępowanie miażdżycy i żyłnej choroby zakrzepowo - zatorowej u pacjentów poddawanych zabiegom angiochirurgicznym z powodu miażdżycy tętnic kończyn dolnych



Legal luck - traf w prawie. Opis oraz próba oceny

Filozofia prawa Friedricha Augusta von Hayeka

Postdeleuzjańska teoria kina. W stronę politycznych i filozoficznych teorii kina





Girls of the future

Ministry of Science and Higher Education
ELLE

**DZIEWCZYNY
PRZYSZŁOŚCI**
ŚLADAMI MARII SKŁODOWSKIEJ CURIE



Eligibility:

- Undergraduate girls studying in the fields of science and technology.

Aim:

- Stipend funding for talented students who have already conducted research.

Criteria:

- Quality of research project and plans, publication and presentation records.

Benefits:

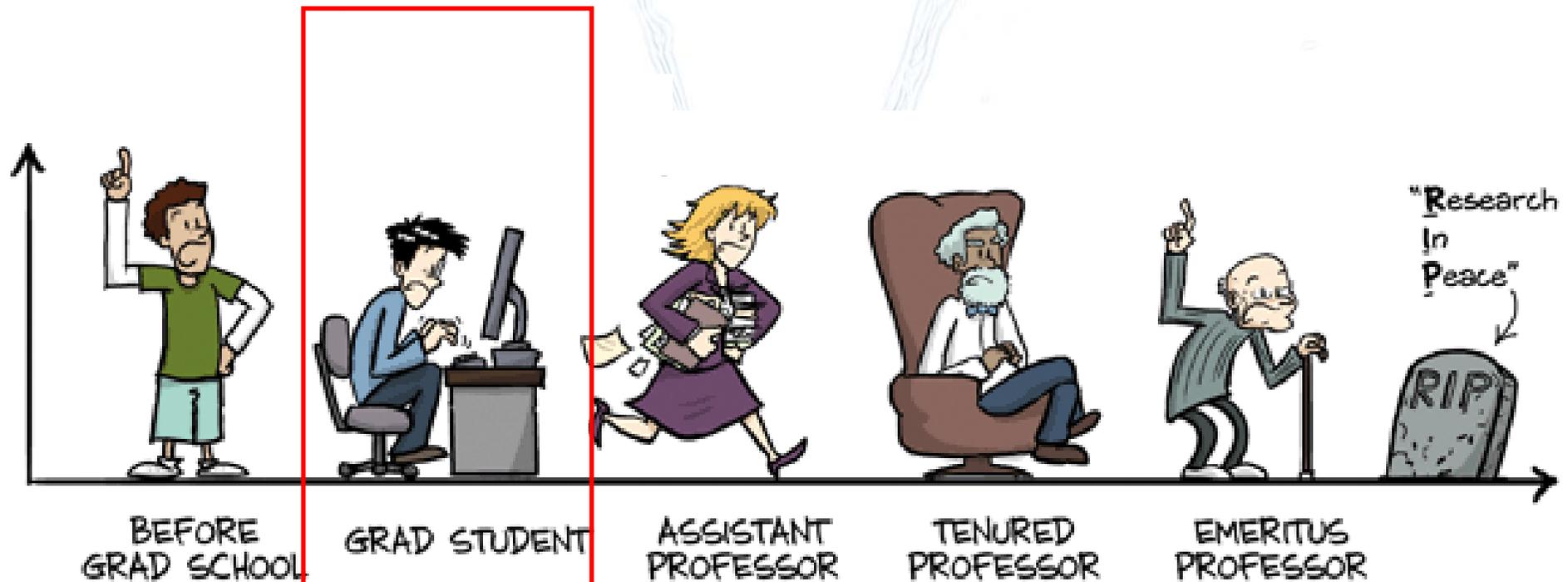
- Stipend of 20,000 PLN (+ covering the costs of international conference).

1 (+5) of 240 applications





Very early grants





FNP: Start

Foundation for Polish Science



Foundation for Polish Science

The programme is directed to young researchers, at the outset of their career, who have already achieved some success in their field.

You are eligible to apply for stipends if you:

- are no older than 30 (or 32 in the case of candidates who have taken maternity or childrearing leave),
- are employees or doctoral students at a research institution
- have scientific attainments, as documented by publications in recognised scientific journals.

Funds: The amount of the one-year stipend is **PLN 28,000**. No money for research.

Candidates will be evaluated on the basis of their scientific achievements and the research plans they submit. Grant can be prolonged for the second year.

Deadline: autumn 2015.





FNP: Start

Foundation for Polish Science



Foundation for Polish Science



DEPARTMENT OF MEDICAL BIOTECHNOLOGY
Faculty of Biochemistry, Biophysics and Biotechnology



NCN: Preludium



National Research Center

Eligibility: Intended for pre-doctoral researchers about to embark on their scientific career. Apart from the supervisor, the team members must not hold a habilitation degree or the title of professor. The number of team members must not exceed 3 persons.

Aim: Only proposals involving basic research may be submitted.

Duration: 12-36 months.

Evaluation criteria: scientific excellence and the innovative nature of the research project, the research portfolio of the PI and his/her supervisor.

Funding: 50,000 PLN for projects lasting 12 months; 100,000 PLN for projects lasting 24 months; 150,000 PLN for projects lasting 36 months. Cost of research equipment may not exceed 30% of the total budget of the project. Overheads: not more than 20%. No salary for supervisor.

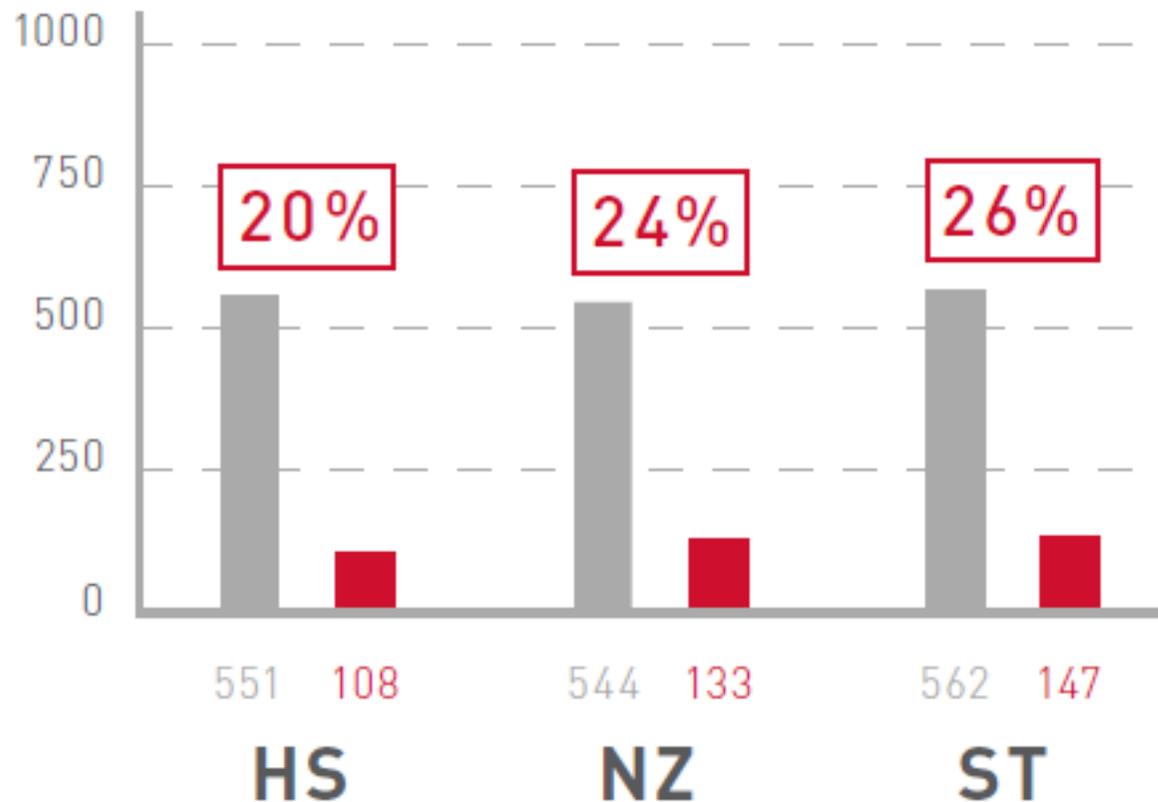
Application: twice a year (next: June 15th 2015).





NCN: Preludium

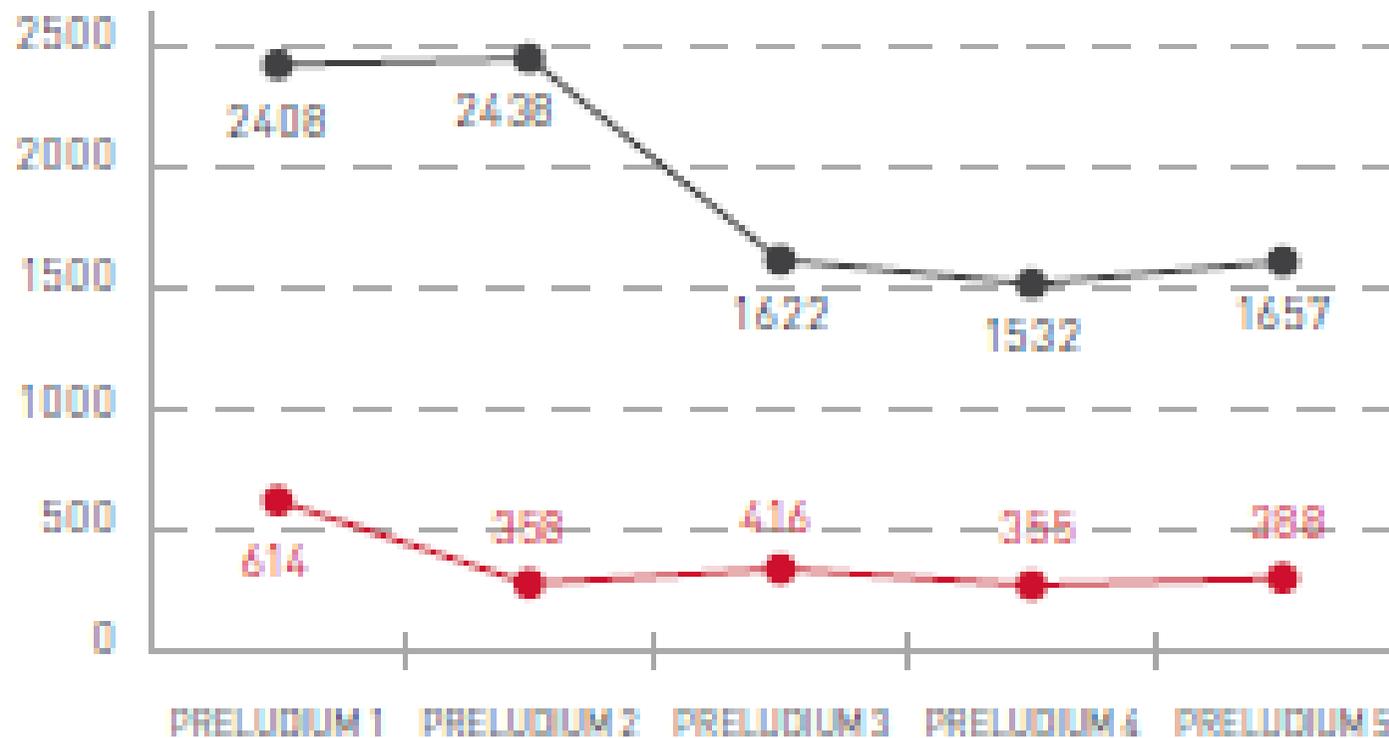
National Research Center





NCN: Preludium

National Research Center





FNP: Ventures

Foundation for Polish Science



Foundation for Polish Science

The overall objective of the programme is to increase the number of projects realized by young researchers which might result in practical application.

Eligible for the competition are the Polish research institutions. The application forms are submitted by the institutions together with a student/graduate or PhD student, being the project leader.

The following items will be financed:

- personal stipend: students and graduates up to 1500 PLN/month; PhD students up to 3000 PLN/month.
- scientific grant: up to 35 000 PLN a year for 1 to 3 years.

The main evaluation criteria: scientific and innovative value of the submitted project, principal investigator's and the tutors' scientific record as well as experience in implementing projects, commercial potential of a project.





NCN: Etiuda

National Research Center



Eligibility: Doctoral Scholarship intended for PhD students with conferment procedure for a doctoral degree. The awardee is obliged to obtain a PhD degree within 12 months of completing the scholarship.

Aim: Only proposals involving basic research may be submitted.

Duration: 12 months, and 3-6 months for an **internship** in a foreign research institution, which may be completed during the 12 month scholarship or within 12 months thereafter.

Evaluation criteria: Scientific excellence of the **project**; **work progress** of PhD thesis; the research portfolio of the **PI** (participation in internships, conferences, publications). The authors of the best applications will be invited for an **interview**.

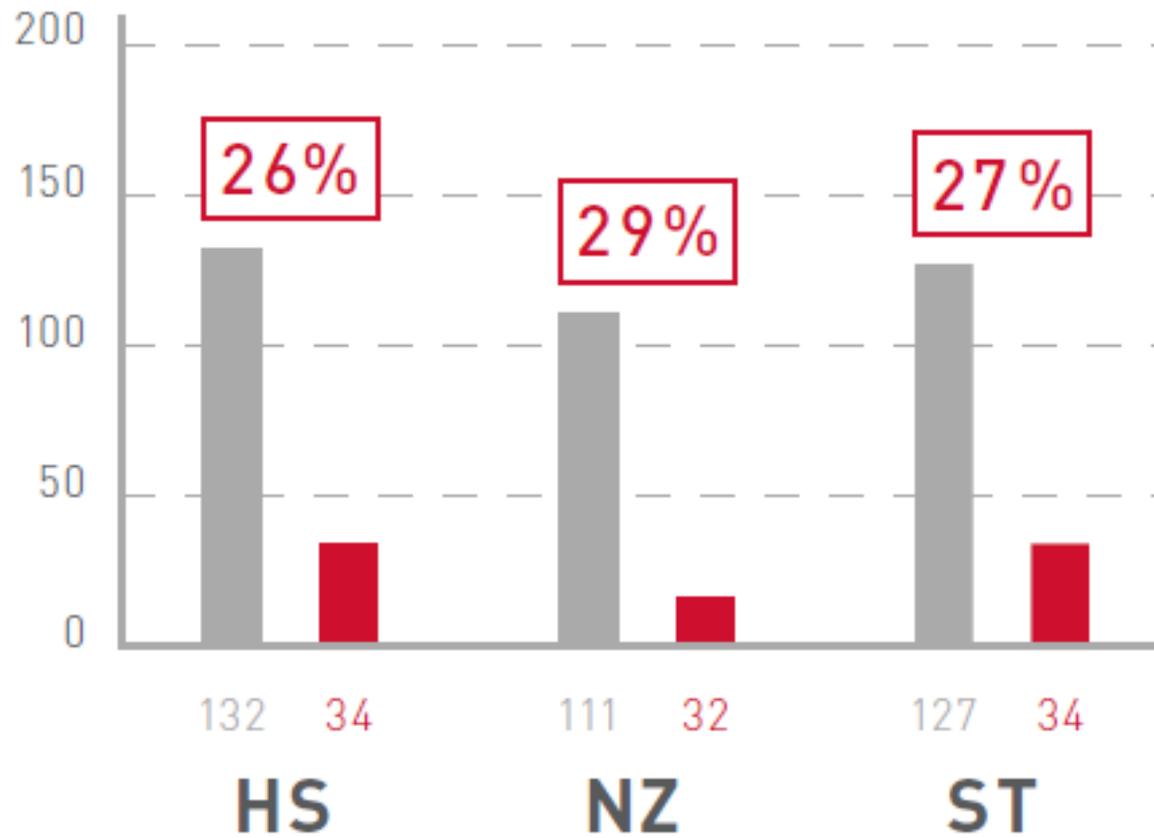
Funding: Monthly salary of **3000 PLN** for **12 months** and **9000 PLN** for a 3-6 month internship abroad (including travel allowance).

Application: once a year.



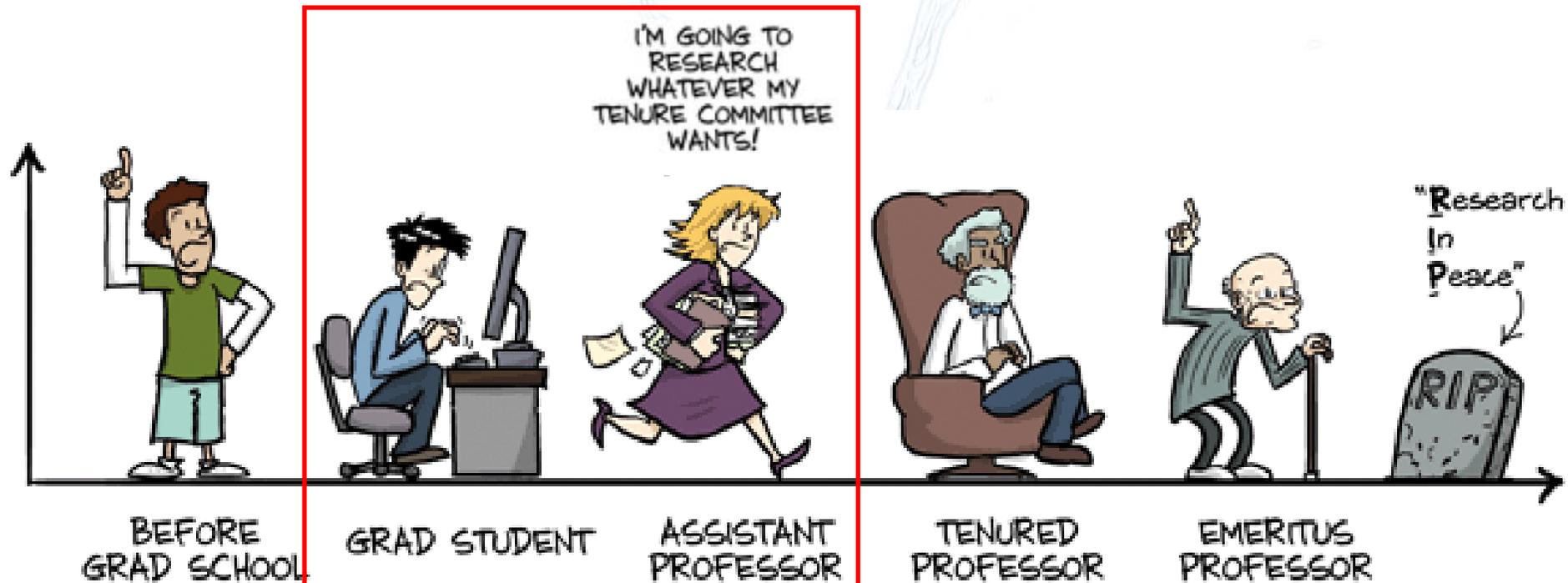


NCN: Etiuda





Very early grants





Mobility-Plus

Ministry of Science and Higher Education



Eligibility: PhD students and postdoctoral fellows employed in Poland.

Aim: Allow for post-doctoral training (or performing experiments for PhD thesis) in best foreign laboratories, under supervision of outstanding scientists.

Criteria:

- Achievements of the applicant (quality of publications, grants, presentations)
- Achievements of hosting institution and foreign supervisor (quality of papers, grants, unique equipment, unique techniques)
- Quality of research project
- Usefulness of fellowship for further development of applicant and for home institution

Benefits:

- Funds for travel and accommodation for the scientist (a lump sum); (e.g. 516,000 PLN for 3 years in Australia) + funds for family. Note: no money for research.





Mobility-Plus

Optymalne historie życiowe w kontekście fizjologicznych i ekologicznych ograniczeń

Matki, babcie, i długość życia: koszty reprodukcji zależne od wieku i warunków środowiskowych

Złożoność obliczeniowa rozszerzania częściowej reprezentacji grafów przez przecięcia obiektów geometrycznych oraz zanurzenia prostoliniowe grafów w płaszczyznę o ograniczonej liczbie nachyleń krawędzi

Kolorowanie grafów przecięć obiektów geometrycznych

Lament w greckiej tragedii antycznej. Monodie żałobne w kręgu psychoanalizy

University of Bristol



The University of Sheffield



Charles University, Faculty of Mathematics

Technische Universität Berlin

University of Oxford, the Ioannou Centre for Classical and Byzantine Studies, Faculty of Classics

(last year: 14 projects to the Jagiellonian University; next call: 15.04.2015)





EMBO: Long term fellowship

European Molecular Biology Organization



Aim: support research visits to laboratories throughout Europe and the world. All fellowships must involve movement between countries.

Eligibility: Doctoral holders, who received the degree within the last 10 years. Applicants must have at least one first author publication in an international peer reviewed journal.

Duration: Up to 2 years.

Funds: The stipend is intended to cover the cost of living in the host country. EMBO provides additional allowances for a dependent spouse and children. For children under the age of six: support for incurred child-care costs up to 2500 euros per year. Travel costs for the fellow and his/her family and costs of relocation.

Evaluation: Quality of application and interview. Candidates may be requested to give a seminar as part of the interview procedure.

Deadlines: 15 February and 1 October.





NCN: Fuga

National Research Center



Eligibility: Post-doctoral internships addressed to scientists holding a doctoral degree to facilitate mobility of researchers between different institutions in Poland.

- The PI is a person with a doctoral degree obtained within the last 5 years.
- The applicant indicates an academic tutor within an institution where he/she intends to conduct the internship.
- The location of the planned internship cannot be the same as the one where the applicant has completed or is completing studies. Neither can it be situated within the same province in which the applicant obtained doctoral degree or is employed.





NCN: Fuga

National Research Center



Aim: Only proposals involving basic research may be submitted.

Duration: 12-36 months.

Evaluation criteria: Scientific excellence of the planned research, the research portfolio of the applicant and his/her supervisor, the academic ranking of the host institution. The authors of the best applications will be invited for an interview.

Funding: The researcher will be employed in the host institution on a fulltime basis (with a salary of ca. 10,000 PLN per month) and may also receive funds to cover the cost of conference participation and the purchase of laboratory equipment.

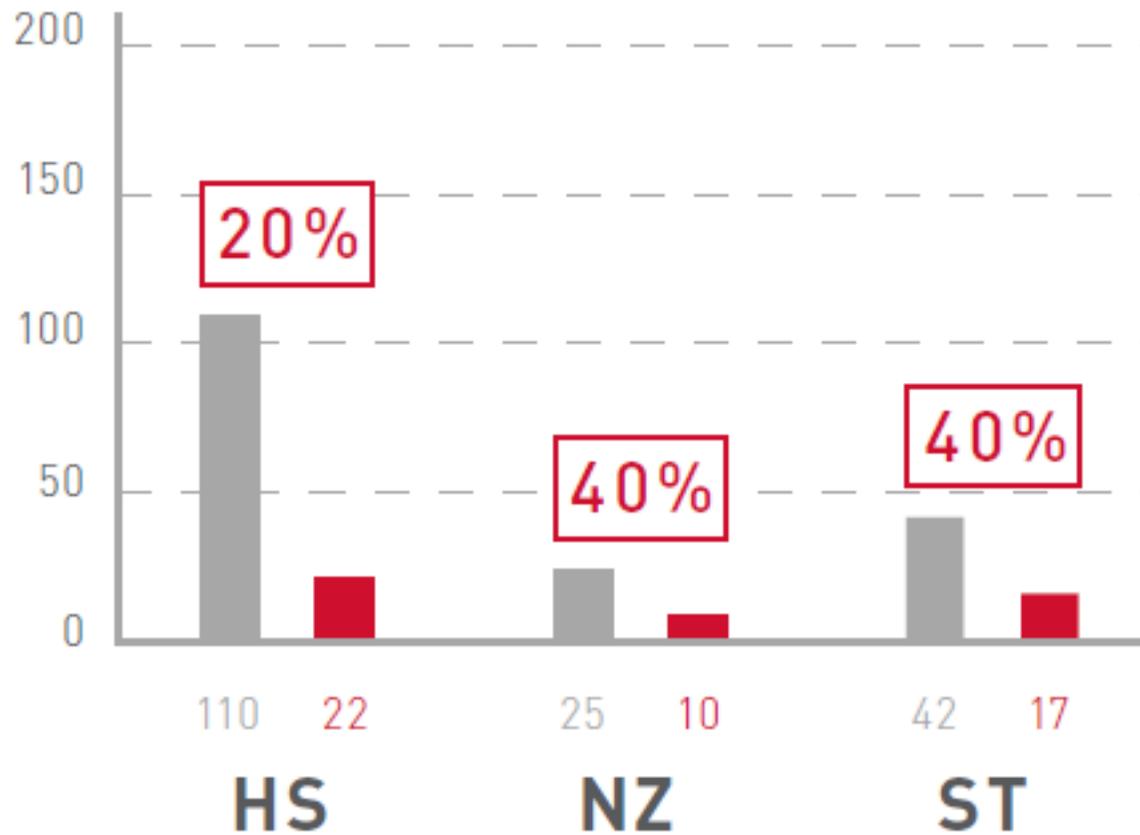
Application: once a year.





NCN: Fuga

National Research Center



Krakow, Warszawa, Szczecin, Poznan, Gdansk, Lodz





NCBiR: Leader

National Centre for Research and Development



Aim:

- To help young scientists to plan research on their own, manage and lead their own research team while carrying out projects likely to be implemented on the market.
- Encouraging scientists to cooperate with businesses while performing economically valuable and implementable studies.

Eligibility: Young investigators under 35 years of age (can be prolonged on the period of maternal leave), employed in the research institution, with doctoral degree obtained within last 5 years, or without the degree but with good publication/patents track. Cooperation with commercial partner is required.

Funds: Up to 1.2 mln PLN.





L'Oreal for women in science

L'Oreal
UNESCO
Ministry of Science and Higher Education



Aim: to support women preparing doctoral or habilitation theses.

Eligibility: Women working in the field of life science at the age below 35 (doctoral fellowship) and 45 (habilitation fellowship), who will continue scientific career.

Duration: 1 year.

Evaluation criteria: Scientific quality of the research project, record-track of the publication and research activity.

Funds: Monthly stipend: 2200 PLN (doctoral) or 2600 (habilitation).

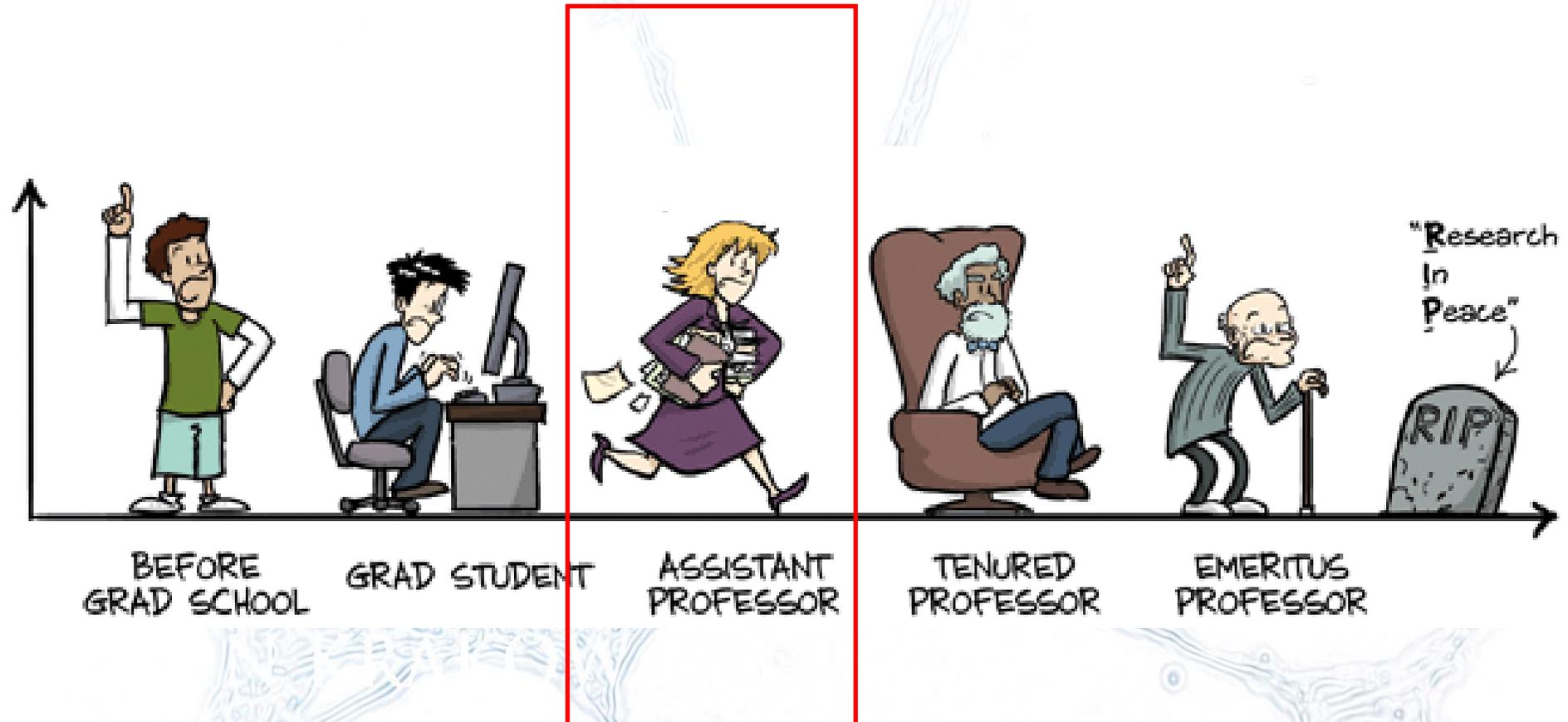
Deadline: 31.05.2015

Success rate: <5% (for men: 0%)





Early grants





Iuventus Plus

Ministry of Science and Higher Education



Eligibility: Researchers at the age *below of 35*, who have published their results as a main author in recognized international journals.

Aim: Supporting the research activities of young scientists.

Criteria:

- Quality of *publications* track-record (IF of journals where papers have been published, number of citations, HF): 0-50 points
- Excellence of the research *project*: 0-20 points

Benefits:

- Funds for 2 years for regents, travels, equipments, salaries; at least 15% of funds must be allocated for *salary of PI*; overheads: 30%.





NCN: Sonata

National Research Center



Eligibility: Addressed to scientists holding a **doctoral degree**, who obtained a doctoral degree within the **last five years**. The **team** must consist of **no more than one** researcher holding a habilitation or the title of **professor** and on condition that they are from an **institution other** than the host institution.

Aim: Only proposals involving basic research may be submitted.

Duration: 36-60 months.

Evaluation criteria: Scientific excellence of the **research** project, the research portfolio of the **PI**.

Funding: up to 500,000 PLN (for 60 months), funding for research equipment up to 500,000 PLN 😊 for projects in the fields of life sciences, physical sciences and engineering, and up to 150,000 PLN in the field of arts, humanities and social sciences. Overheads: 30%.

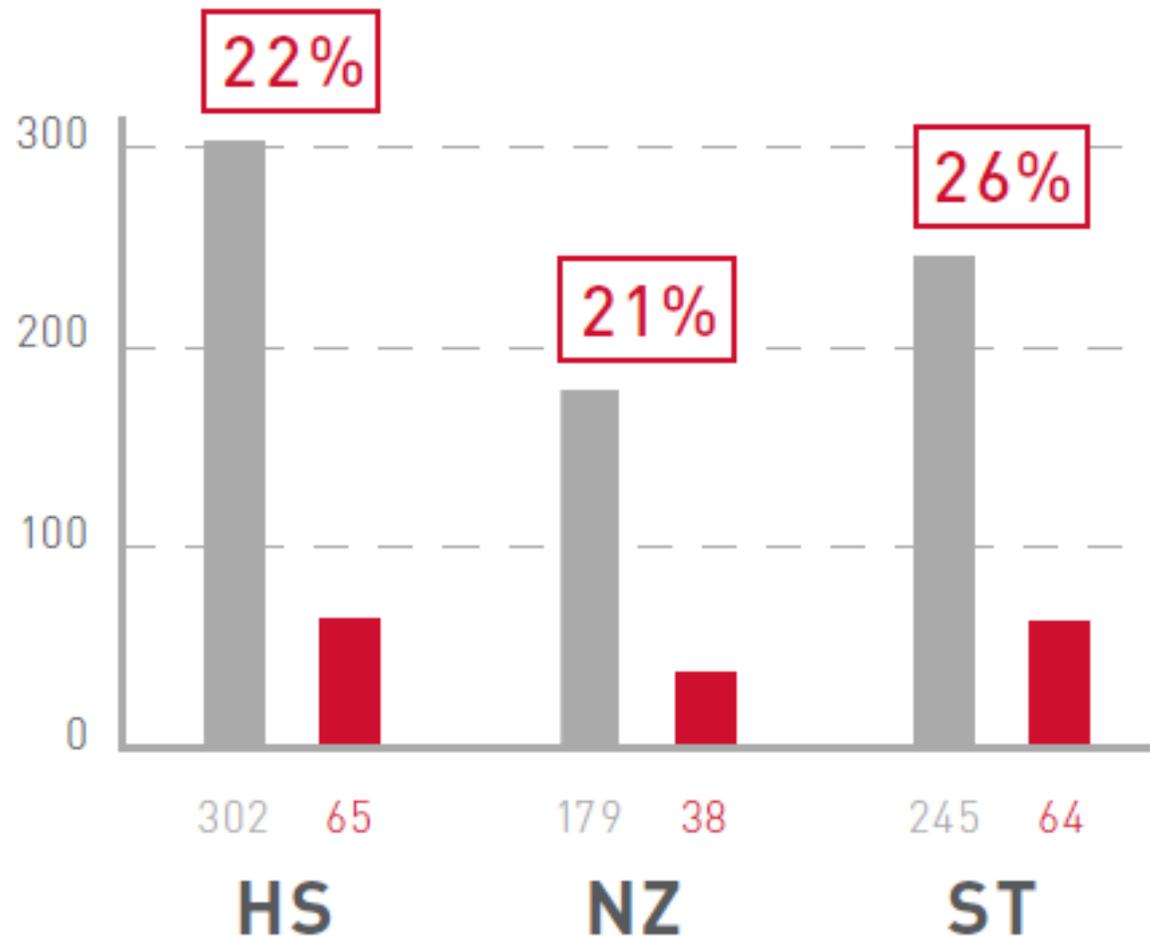
Application: twice a year.





NCN: Sonata

National Research Center





FNP: Homing Plus

Foundation for Polish Science



Foundation for Polish Science

Aim: Encouraging young researchers holding PhD working abroad (Poles and foreigners) to continue their scientific career in Poland.

Eligibility: Researchers holding a PhD:

- up to 4 years after the doctorate (this period is extended for 2 years in the case of maternal or childrearing leave for an uninterrupted period of a minimum 3 months),
- who have been abroad for an uninterrupted period of at least 9 months (conducting scientific research, holding a postdoctoral fellowship or preparing the doctoral dissertation),
- intending to come to Poland within 6 months after the application deadline, or who came to Poland no earlier than 12 months before such date,
- who work in Poland at a unit conducting scientific research, or who have obtained a promise of employment for at least the duration of the project.





FNP: Homing Plus

Foundation for Polish Science



Foundation for Polish Science

Funds:

- **Research subsidy** in an amount of **up to PLN 80,000 annually** (intended solely for realization of the research project, including salary of personnel, purchases of apparatus, materials necessary to conduct research, scientific publications, computer equipment and software, financing of cooperation with foreign partners).
- **Research stipend: PLN 5,000 per month.**
- **Research stipends (PLN 1,000 per month)** for **two students** carrying out their master's thesis under his/her direction, selected in a competition procedure.

Duration: 1-2 years.

The basis for assessment of the candidate is scientific achievement from the **last 4 years**, the **research project** which the candidate intends to carry out, and information about the **team** in which the project will be carried out.

Deadline: 29 March 2013 - last competition in the programme





FNP: Parent Bridge

Foundation for Polish Science



Foundation for Polish Science

Aim: to enable the best researchers who are raising young children to return to advanced research work.

Eligibility: Women with a child up to age 4 (or age 7 in the case of adoption or multiple birth) or men who have taken childrearing leave for an uninterrupted period of at least 6 months. The return to research work occurred no earlier than 12 months before the application deadline.

Duration: 1-3 years.

Evaluation criteria: scientific quality of the research project, record-track of the PI.

Funds:

- a research grant (the salary of PI, research costs, equipment, travels),
- stipends for MSc or PhD students supervised by the PI selected by competition. Their stipends are PLN 1,000 or PLN 3,000 respectively.
- Total amount of financing for both parts is 140 000 PLN per year.

Deadline: 29.03.2015





NCN: Sonata bis

National Research Center



Eligibility: Addressed to researchers holding a doctoral degree, wanting to establish a new research team and become independent research leaders, who obtained a **doctoral degree within 2-12 years**. PI the team cannot consist of researchers holding a habilitation degree or the title of professor.

Aim: Only proposals involving basic research may be submitted.

Duration: 36-60 months.

Evaluation criteria: scientific excellence of the **research** project, the research portfolio of the **PI**.

Funding: up to 2 million PLN (for 60-months); funding for research equipment up to 500,000 PLN for projects in the fields of life sciences, physical sciences and engineering, and up to 150,000 PLN in the field of arts, humanities and social sciences; overheads: 30%.

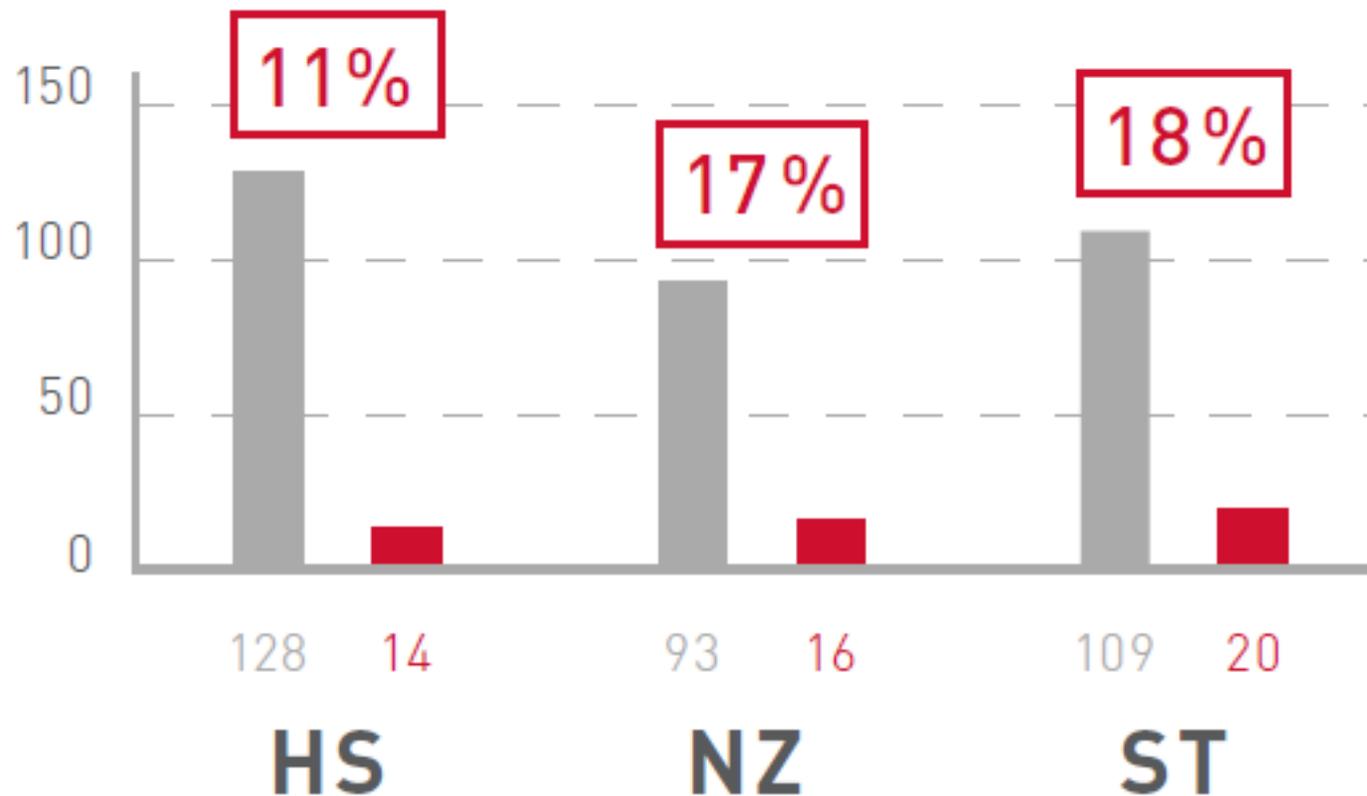
Application: Call for proposals: twice a year.





NCN: Sonata bis

National Research Center





WT: International Senior Research Fellowship

The Wellcome Trust

wellcometrust

Aim: fund outstanding researchers, either medically or scientifically qualified, who wish to establish an independent career within an academic institution in one of the seven European countries listed here ("Eastern Europe", India and South Africa).

Duration: 5 years (can be renewed)

Funds:

- salary,
- research programme
- support to attend scientific meetings, in addition to requested essential costs.

In total: up to 3 mln PLN.





WT: international Senior research Fellowship

The Wellcome Trust



Eligibility:

- The applicant should have **5-10 years'** research experience at a **postdoctoral** level and have a **substantial record of publications** in leading international journals.
- Candidates to have spent a significant period of their postdoctoral research career **working outside** their chosen country. Applications are particularly encouraged from outstanding scientists working outside their own countries who wish to **return home**.

Evaluation:

- **Preliminary application** - short version of the project and CV
- **Invited main application** - reviewed by Expert Review Group and shortlisted for interview
- **Interview** - by Interview Panel, with additional peer review from relevant scientific experts.





WT: international Senior research Fellowship

The Wellcome Trust



1400



120



16



(2004)

→ 7

- Czech (1)
- Hungary (1)
- Poland (1)
- India (4)





The IDEAS program

European Commission



- Applications can be made in any field of research with particular emphasis on the **frontiers** of science.
- In particular, proposals of an **interdisciplinary** nature addressing new and emerging fields of research or proposals introducing **unconventional**, innovative approaches and scientific inventions are encouraged.
- Scientific **excellence** is the sole evaluation criterion.
- The ERC particularly encourages proposals from PI based outside Europe that wish to carry out a project with a host institution in the EU.





The IDEAS program

European Commission



Average success rate: 10.6%

Starting Grants

starters
(2-7 years after PhD) up to €
2.0 Mio
for 5 years

Consolidator Grants

consolidators
(7-12 years after PhD) up to
€ 2.75 Mio
for 5 years

Advanced Grants

track-record of significant
research achievements in
the last 10 years
up to € 3.5 Mio
for 5 years

Proof-of-Concept

bridging gap between research - earliest stage of marketable innovation
up to €150,000 for ERC grant holders

Poland: 15 till now





The IDEAS program: starting grants

European Commission



- Designed for young researchers who want to make the transition from working under a supervisor to being independent research leaders.
- The scheme will support independent and excellent new individual research teams.
- Starting Grants can be up to a maximum of EUR 1 500 000 for a period of 5 years (pro rata for projects of shorter duration). Additional EUR 500 000 can be made available to cover start-up costs for PI moving from a another country to the EU or the purchase of major equipment or access to large facilities.
- The PI shall have been awarded their first PhD 2-7 years prior proposal.





The IDEAS program: starting grants

European Commission

Starting grants



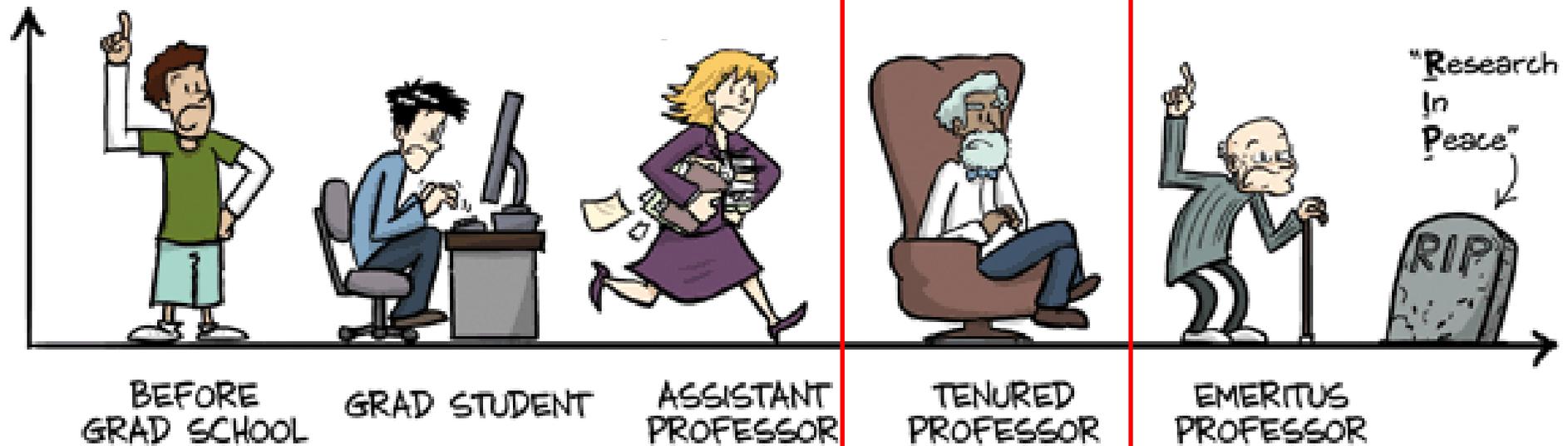
Who has a chance:

- At least one important publication without the participation of their PhD supervisor.
- Track-record of early achievements including:
 - * significant publications (as main author) in major international peer-reviewed multidisciplinary scientific journals, or in the leading international peer-reviewed journals of their respective field.
 - * invited presentations in well-established international conferences,
 - * granted patents, awards etc.
- PI funded through the ERC Starting Grants will be expected to spend a minimum 50% of their total working time on the ERC project.





Advanced grants





FNP: Master

Foundation for Polish Science



Foundation for Polish Science

Aim: to support distinguished researchers with grants designed either to intensify the research they are already conducting or to explore new fields of research.

Eligibility: Advanced researchers whose attainments so far provide assurance of proper use of the funding, and who are able to effectively combine research with training of younger staff.

Funds:

- an individual stipend for the winner;
- funding which the winner may use for stipends for doctoral students and young PhD's, purchasing equipment, research materials, conferences and research travel.
- Total costs: 300,000 PLN. Overheads: 5%.





FNP: Master

Foundation for Polish Science



Foundation for Polish Science

Evaluation:

- Grants are awarded via a closed competition which covers a different field of science each year: a) **Life Sciences**; b) Chemical and Material Sciences c) Mathematics, Physics and Engineering Sciences, d) Humanities and Social Sciences (in 2015).
- **Candidates are nominated** by a group of several dozen distinguished scholars, appointed by the Foundation, who are recognized as authorities in the given field.
- Foundation creates a list of persons invited to participate in the competition. They are required to **submit information about their research** goals together with a plan for use of the grants.
- The **Executive Board** of the Foundation selects the winners, with the help of opinions from reviewers.





FNP: Master

Foundation for Polish Science



Foundation for Polish Science



DEPARTMENT OF MEDICAL BIOTECHNOLOGY
Faculty of Biochemistry, Biophysics and Biotechnology



NCN: Maestro

National Research Center



Eligibility: Designed for advanced researchers wanting to conduct pioneering research, including interdisciplinary research. Projects should surpass the current state of knowledge, lead to the creation of a new paradigm.

Aim: Only proposals involving basic research may be submitted.

Duration: 36-60 months.

Evaluation criteria: scientific excellence and the innovative nature of the research project, the research portfolio of the PI.

Funding: 1-3 million PLN (0.5-3 million PLN for arts, humanities and social sciences); funding for research equipment up to 500,000 PLN (150,000 PLN in the field of arts, humanities and social sciences); overheads: 30%.

Application: twice a year.





NCN: Maestro

National Research Center

Who has a chance:



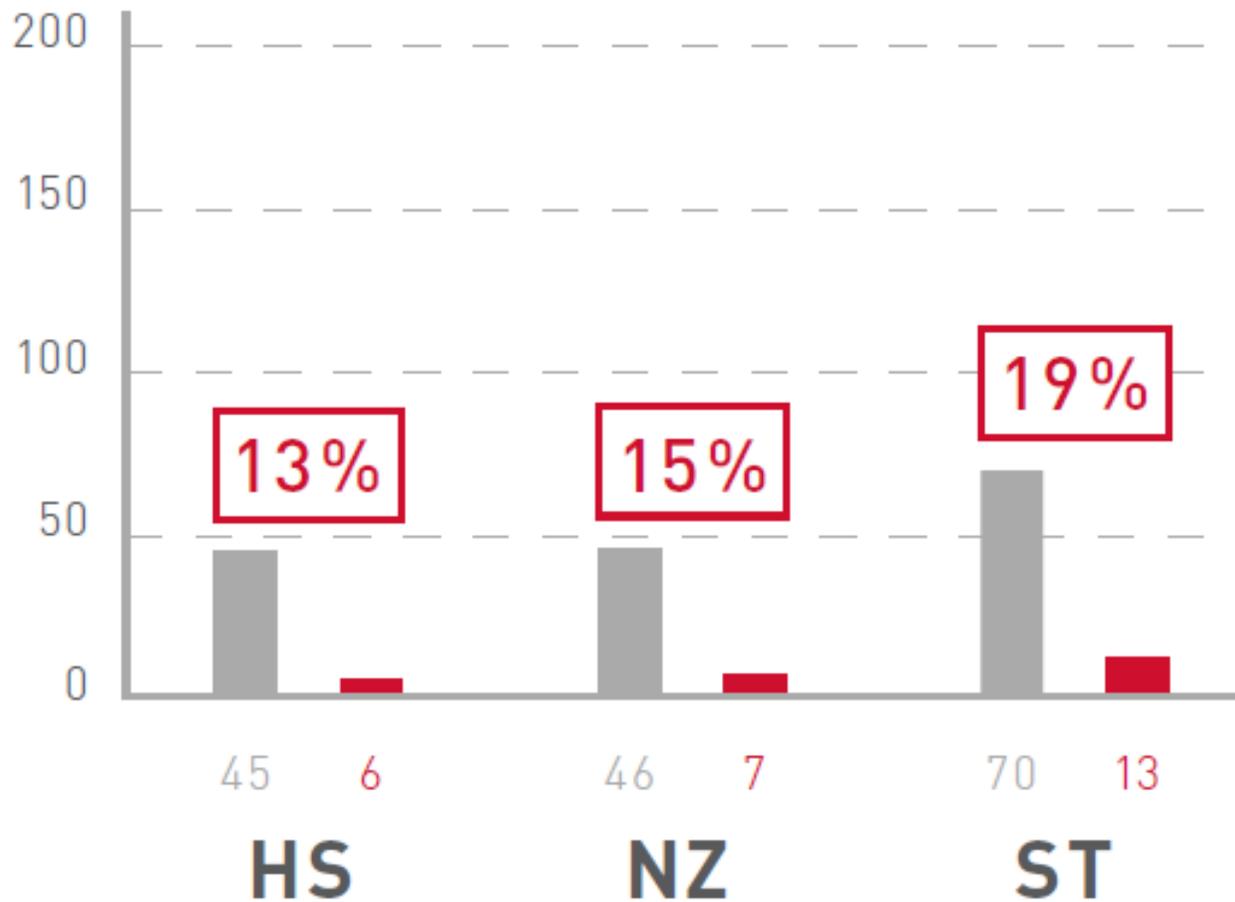
- PI must be an advanced researcher, holding a doctoral degree, who in the past 10 years prior to the submission of the proposal has:
 - * published at least five publications in reputable Polish and/or foreign scientific journals
 - * supervised the implementation of research projects
- PI must also meet at least three of the following criteria:
 - * has published at least one monograph,
 - * has given presentations at well-established international conferences,
 - * has been awarded an international prize,
 - * is or was a member of recognised international scientific organisations,
 - * was a member of a scientific committee of at least one international conference.





NCN: Maestro

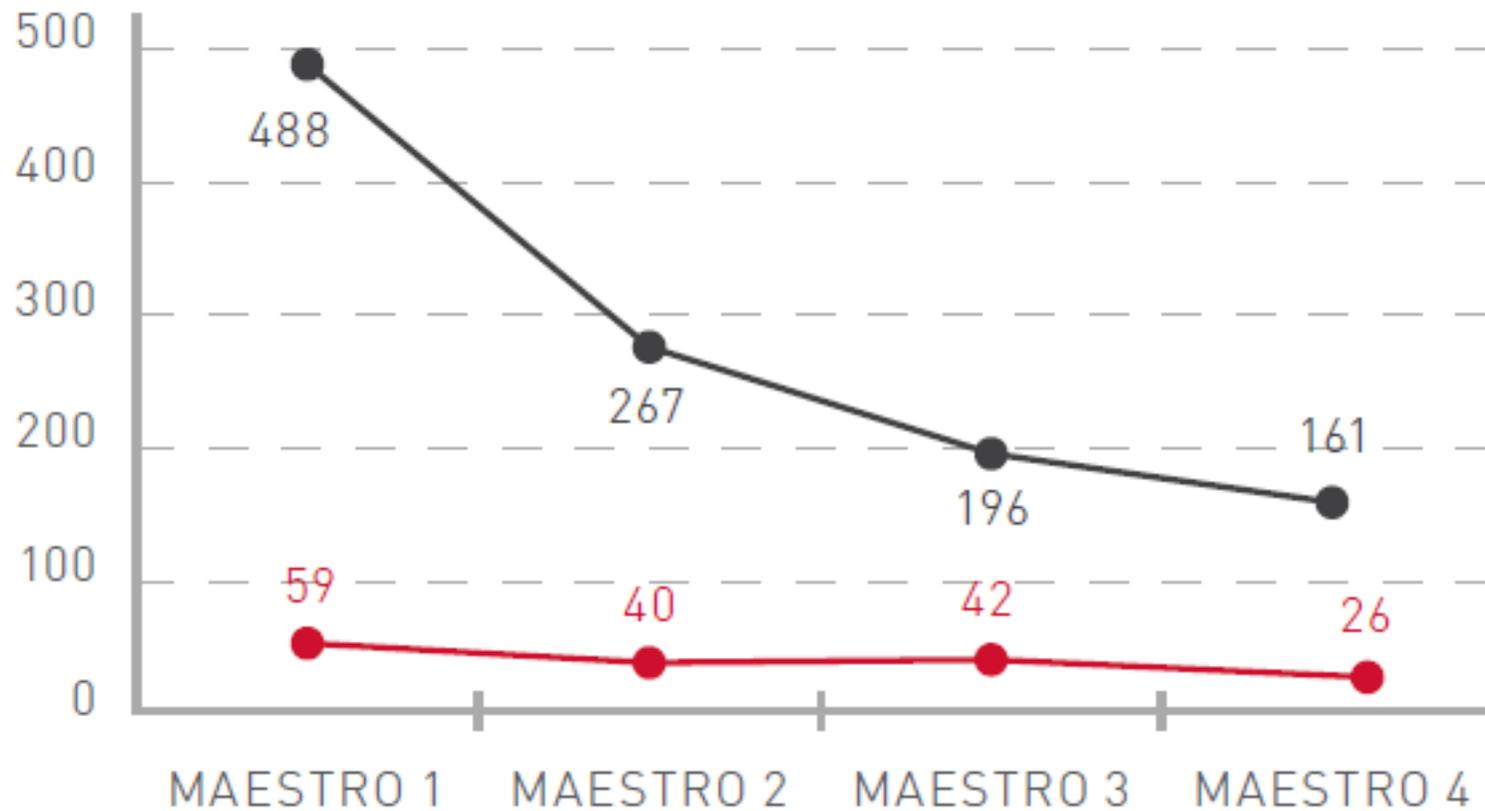
National Research Center





NCN: Maestro

National Research Center





The IDEAS program: advanced grants

European Commission

Advanced grants



- Designed to provide an opportunity to **established scientists** to pursue **ground-breaking, high-risk research** that opens new directions in any field of their choice.
- Advanced Grants are intended to promote substantial advances in the frontiers of knowledge, and to encourage new methods, unconventional approaches and investigations **at the interface between established disciplines**.
- The evaluation will give **emphasis to novelty** these aspects, in understanding that such research has a high-gain/high-risk profile, with a higher-than-normal **risk that the research project does not entirely fulfil its aims**.
- Advanced Grants can be up to EUR 2 500 000 for a period of 5 years (pro rata for projects of shorter duration); up to an additional EUR 1 000 000 can be made available to cover start-up costs for PI moving from a another country to the EU or the purchase of major equipment or access to large facilities.





The IDEAS program: advanced grants

European Commission

Advanced grants



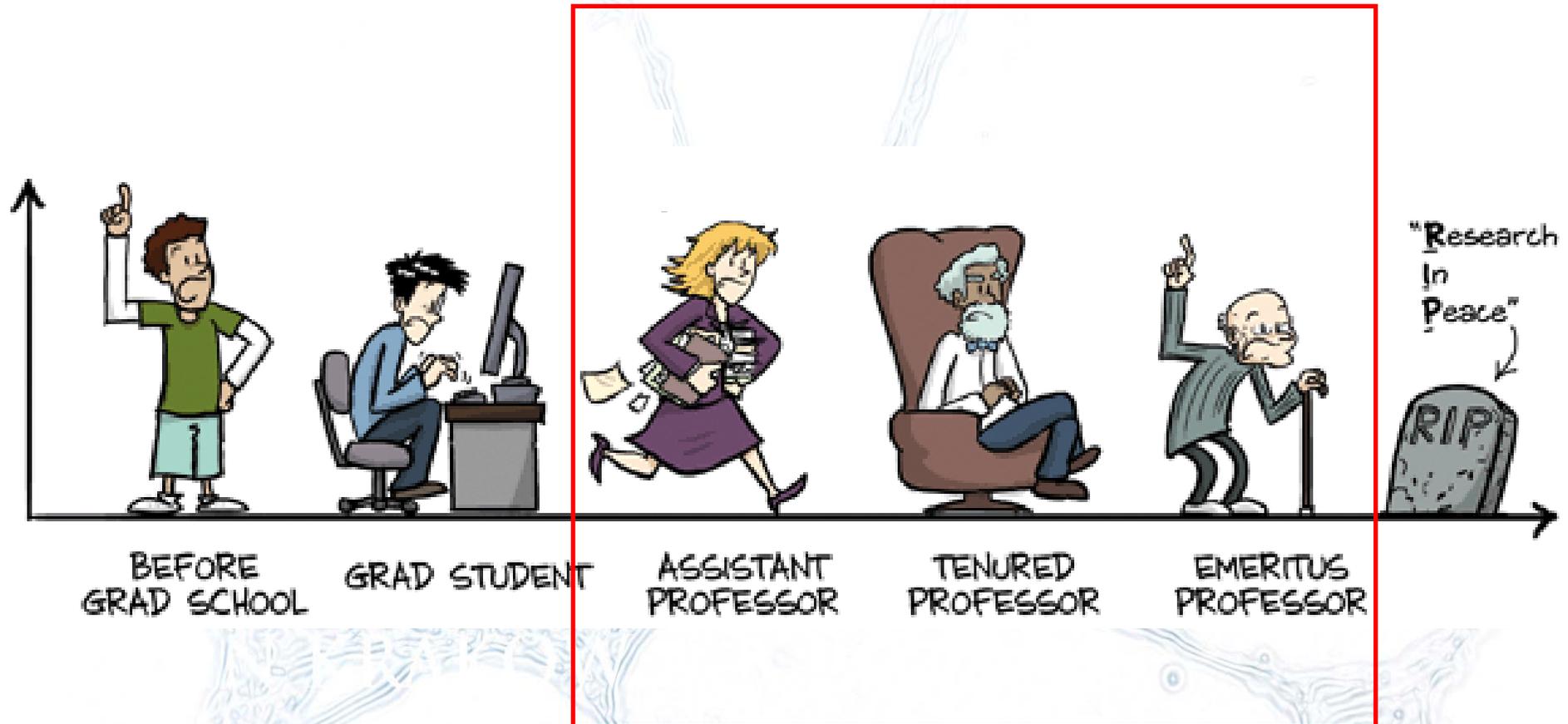
Who has a chance:

- Active researchers with a track-record of significant research achievements in the last 10 years at least matching one or more of the following benchmarks:
 - * 10 publications as senior author in major multidisciplinary scientific journals or in the leading international peer-reviewed journals of their respective field.
[or: 3 major research monographs, of which at least one is translated into another language (in humanities and social sciences)].
- This should be accompanied by (depending on the field)
 - * 5 granted patents
 - * 10 invited presentations in well-established internationally organised conferences
 - * 3 research expeditions led by the applicant
 - * co-organization of 3 well-established international conferences
 - * International recognition through scientific awards
 - * Major contributions to launching the careers of outstanding researchers;
 - * Recognised leadership in industrial innovation.





Routine grants





NCN: Opus



National Research Center

- **Eligibility:** Intended for a wide range of applicants. The research proposal may include the purchase or construction of research equipment.
- **Aim:** Only proposals involving basic research may be submitted.
- **Duration:** 12-36 months.
- **Evaluation criteria:** scientific excellence and the innovative nature of the research project, the research portfolio of the PI and co-investigators.
- **Funding:** The scheme does not have a cap on funding. Applicants may seek funding for research equipment up to 500,000 PLN for projects in the fields of life sciences, physical sciences and engineering, and up to 150,000 PLN in the field of arts, humanities and social sciences. (*average: 330,000 PLN*)

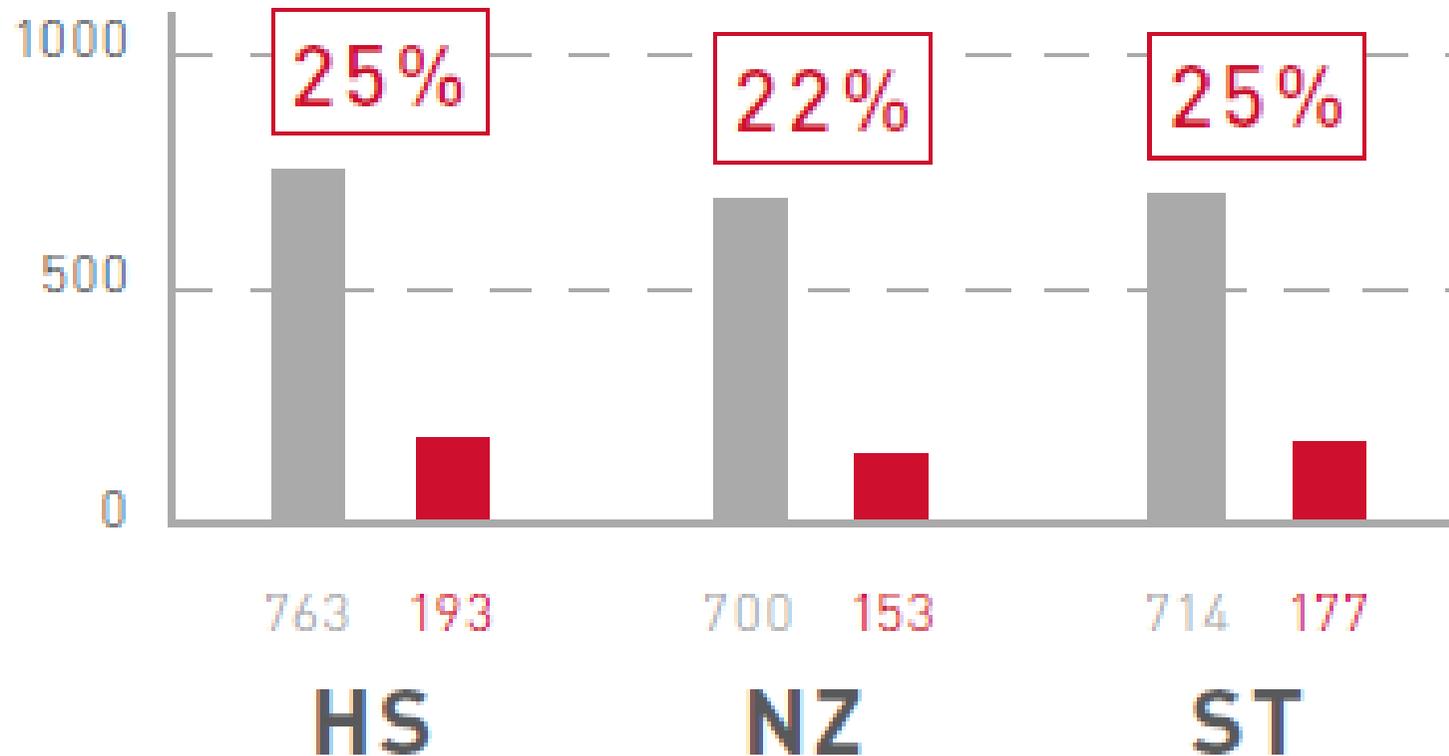
Application: twice a year.





NCN: Opus

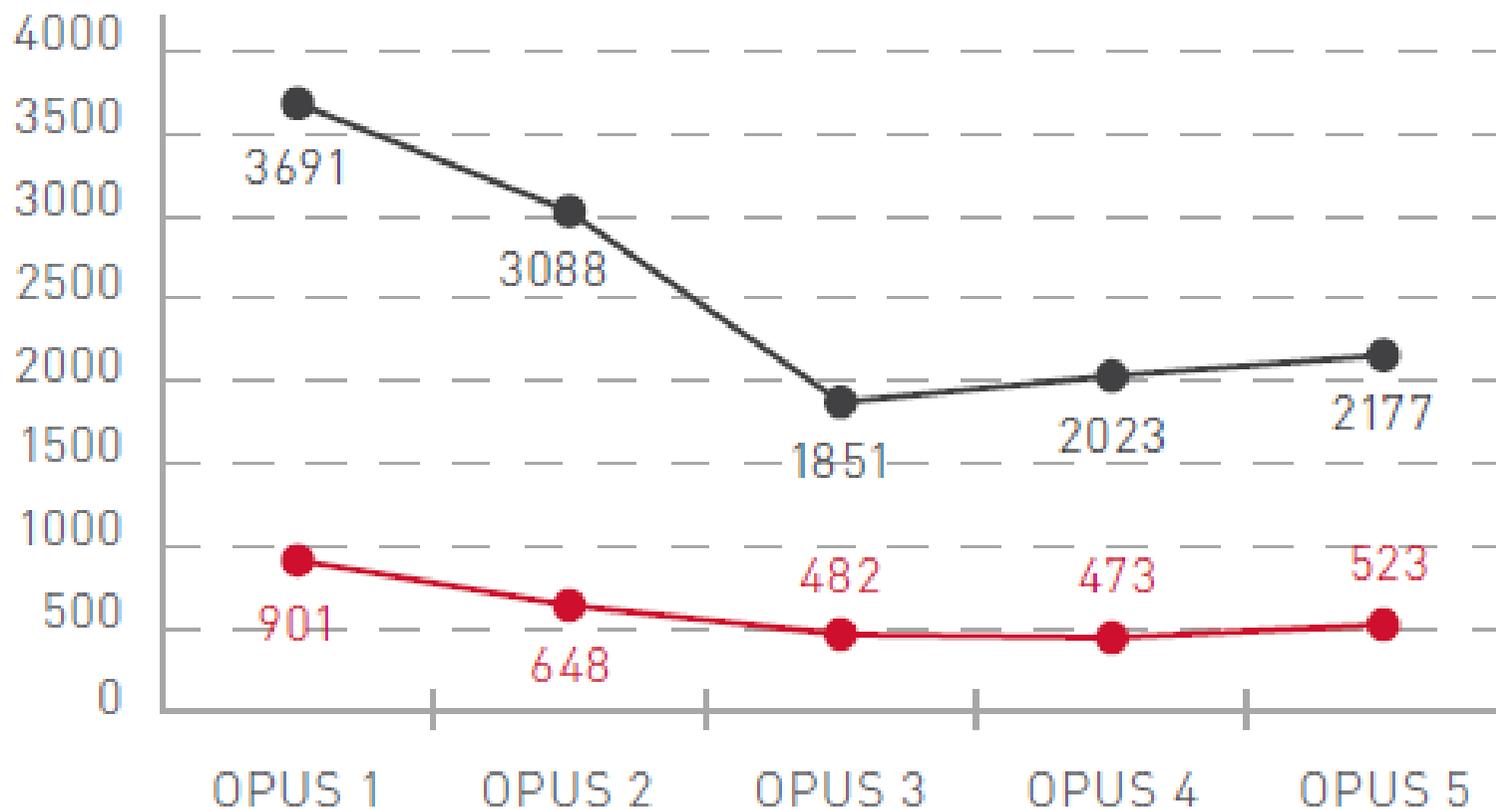
National Research Center





NCN: Opus

National Research Center





NCN: Harmonia

National Research Center



Eligibility: Designed for scientists wanting to carry out research in cooperation with foreign partners, within the framework of international programmes, bi- or multilateral, or utilising large-scale international research infrastructure.

Aim: Only proposals involving basic research may be submitted.

Duration: 12-36 months.

Evaluation criteria: scientific excellence and the innovative nature of the research project, the research portfolio of the PI and his/her international partner, added value through international cooperation.

Funding: The scheme does not have a cap on funding. Applicants cannot seek funding for research equipment. Tasks undertaken by foreign project partners must be financed from other sources. Overheads: 30%.

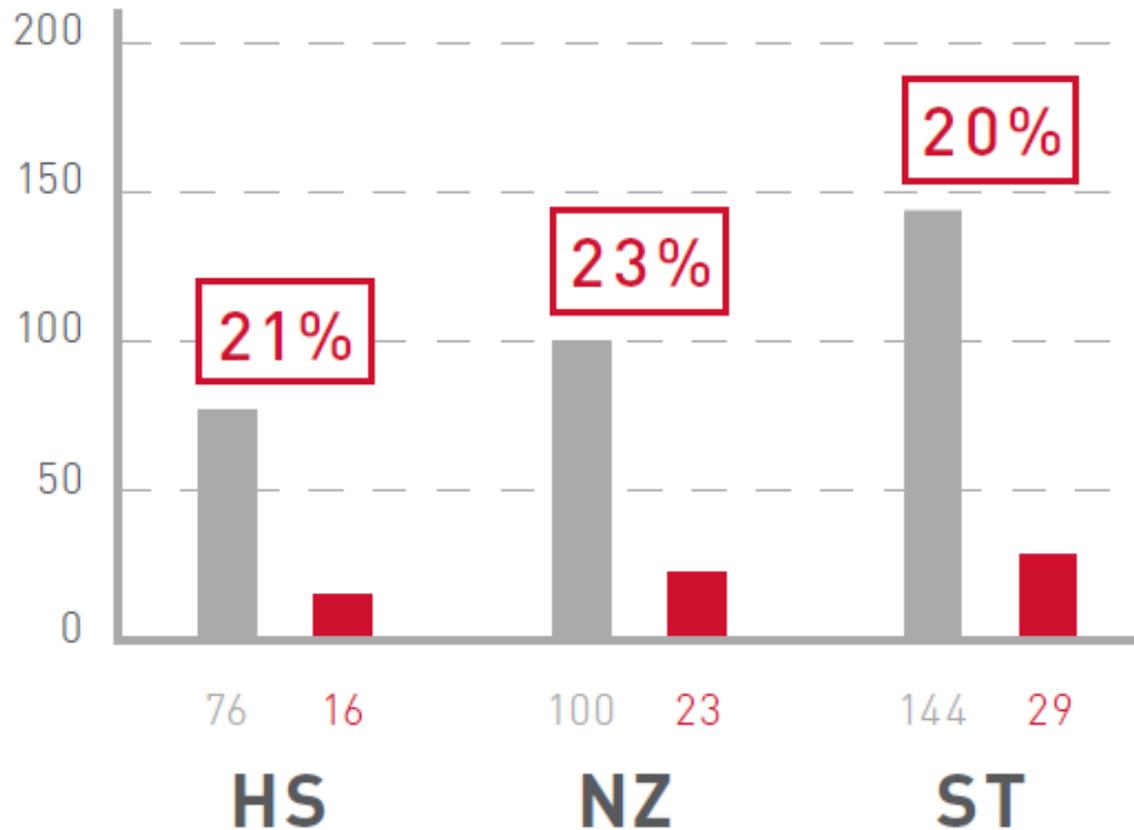
Application: twice a year.





NCN: Harmonia

National Research Center



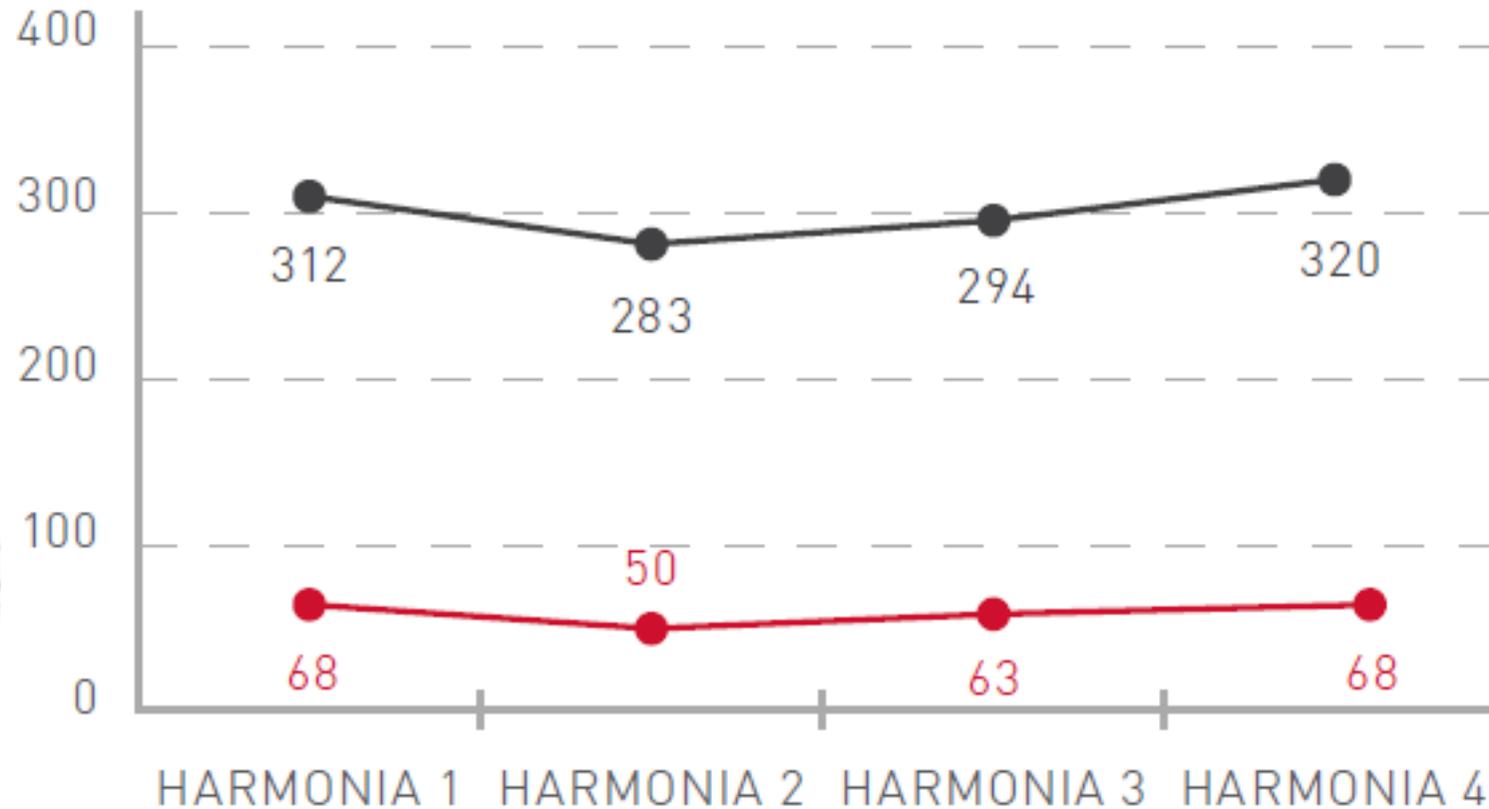
France, Germany, UK, USA, Italy...





NCN: Harmonia

National Research Center



France, Germany, UK, USA, Italy...





NCN: Symfonia

National Research Center



Eligibility: Intended for exceptional established researchers wanting to carry out interdisciplinary or cross-domain research in collaboration with teams representing different areas of research.

- **Principal Investigator:** a researcher holding a doctoral degree, who, in the past 10 years has been a PI of at least two research projects selected within national or international competitions.

- **Team members:** 2-4 research teams or individual researchers. Full time research positions for at least 2 post-docs and 4 PhD candidates are also required to be provided.





NCN: Symfonia

National Research Center



Aim: Only proposals involving basic research may be submitted.

Duration: 36-60 months.

Evaluation criteria: Interdisciplinary nature of the research project; its scientific excellence and innovative nature; the research portfolio of the PI, co-investigators and research team members, implementation of previous research projects.

Funding: 2-7 million PLN. Applicants may seek funding for research equipment up to 500,000 PLN for projects in Life Sciences, Physical Sciences and Engineering, and up to 150,000 PLN in the field of Arts, Humanities and Social Sciences.

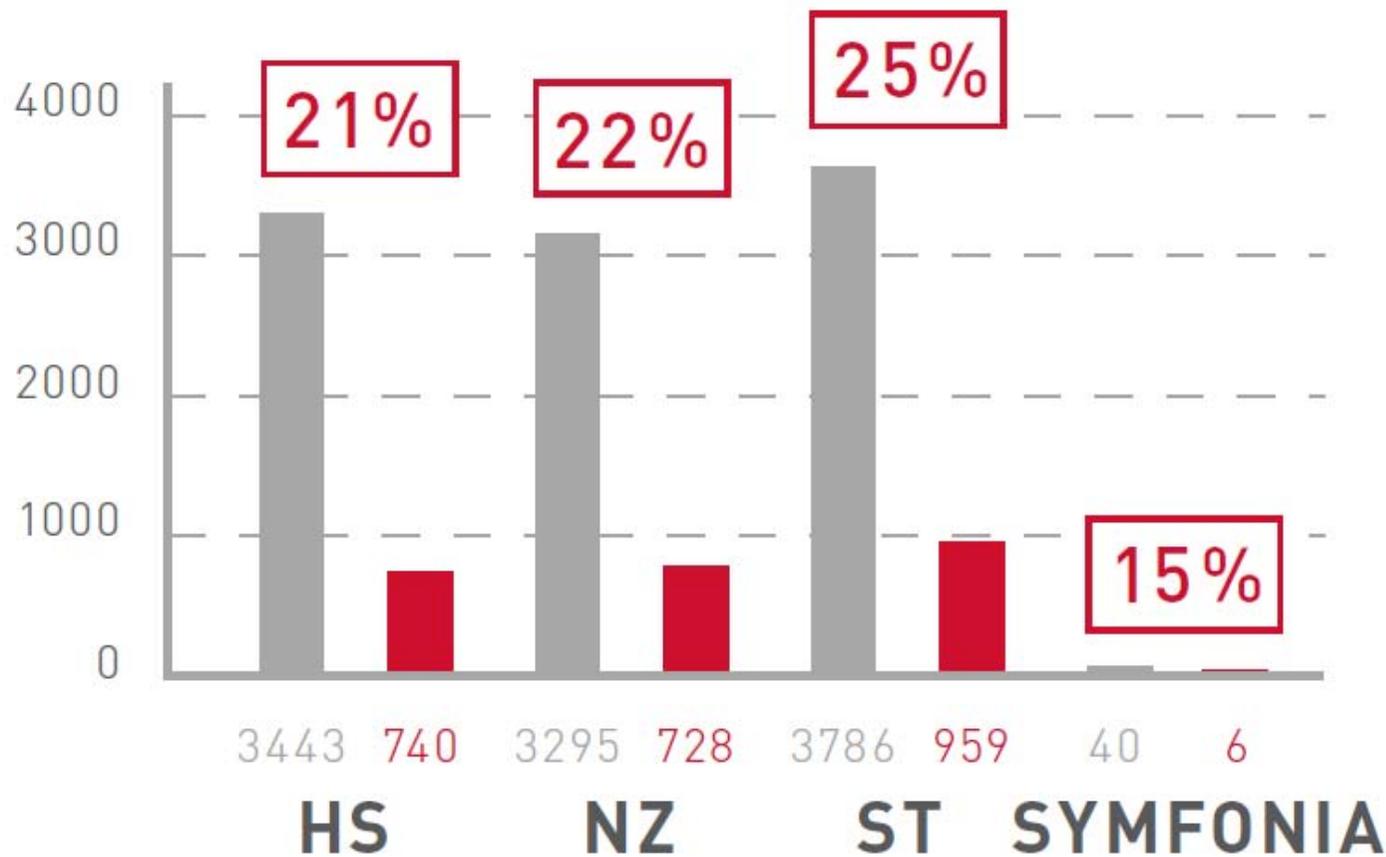
Application: once a year.





NCN: Symfonia

**NARODOWE
CENTRUM
NAUKI**





Deadlines

NCBiR: Lider (March 15th)

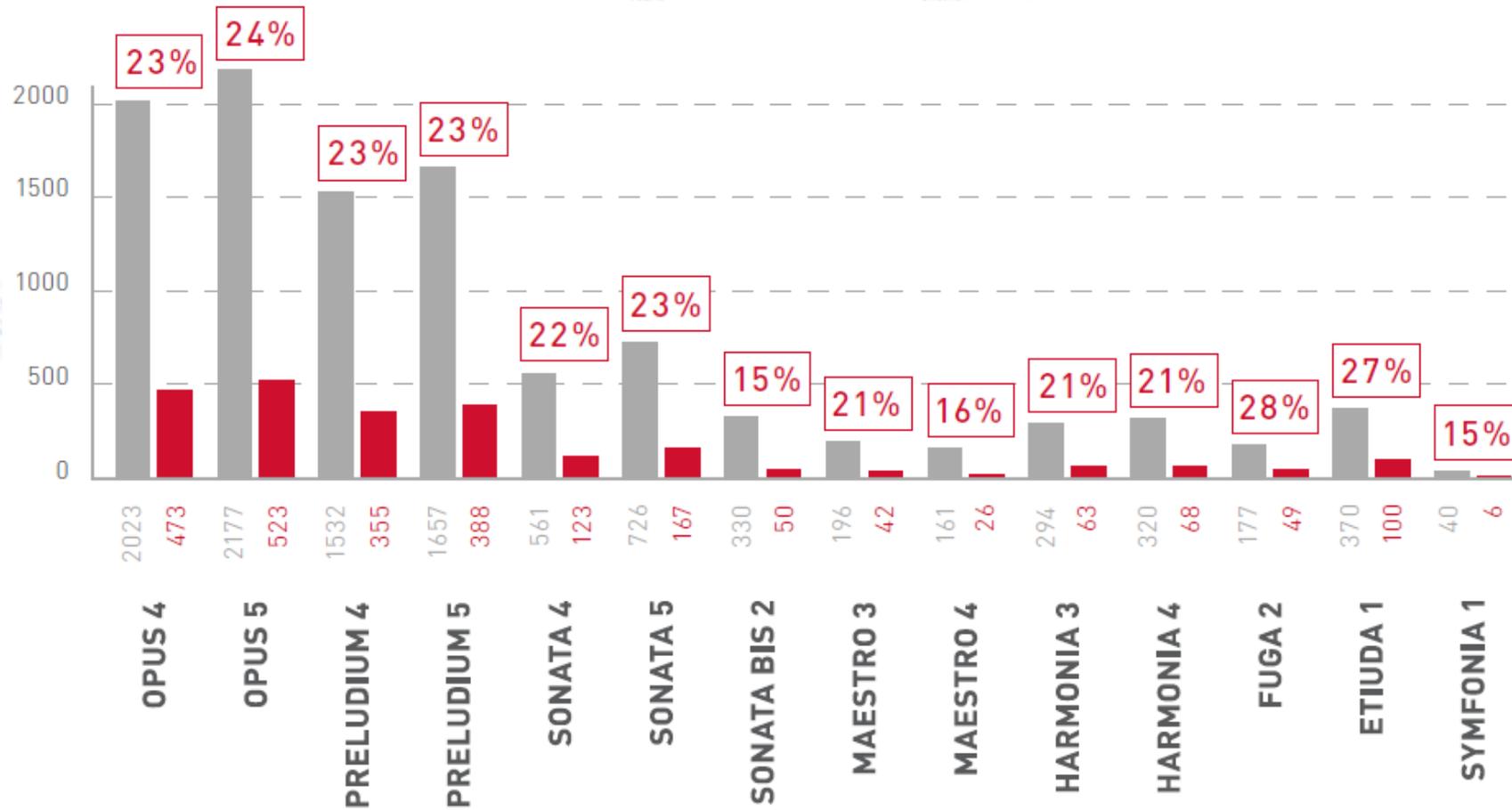
NCN: Symfonia, Etiuda, Fuga (March 16th)

MNiSW: Mobility-Plus (April 15th)





NCN: summary





Deadlines

The Lemmermann Foundation's Scholarship Award (March 15th)

The Lemmermann Foundation offers scholarships in the **classical studies** and **humanities to master's and doctoral students**. Topic of research must be related to Rome and the **Roman culture** of any period, from the Pre-Roman period to the present day time.

<http://www.nexus.it/lemmermann/>

Foundation for Polish Science: Skills-praxis (March 15th)

- 1) research project management;
- 2) research team management;
- 3) interdisciplinary collaboration;
- 4) technology transfer; and
- 5) entrepreneurship.

<http://www.fnp.org.pl/oferta/skills-praxis/>





Deadlines

Fellowships for postdocs and PhD students (May 15th)

history, archeology

<http://pau.krakow.pl/index.php/2008031766/Stypendia-Fundacji-Lanckoronskich.html>

The Scientific and Technological Research Council of *Turkey* (TÜBİTAK) grants fellowships for **PhD students and post-doctoral researchers** to pursue their research in Turkey in the fields of Natural Sciences, Engineering and Technological Sciences, Medical Sciences, Agricultural Sciences, Social Sciences and Humanities.

April 20th

<http://www.tubitak.gov.tr/en/scholarship/postdoctoral/international-programmes/2216/content-scope-of-the-support>





Deadlines

Doctoral Student Programme (April 28th)

This is a chance to work on your thesis while spending 6 to 36 months at the forefront of science if your specialism is:
Applied Physics, Engineering or Computing.

<http://jobs.web.cern.ch/join-us/doctoral-student-programme>

New call for visiting grants: March 15th

11 InGRID data centres offer access to data and expertise within the field of inclusive growth, poverty, living conditions, working conditions, vulnerable groups, social policy, ...
(access to infrastructure)

Human science

<https://inclusivegrowth.be/visiting-grants/call19>





Deadlines

ECRIM

April, 30th

Fellowships for postdocs in mathematics or computing

<https://fellowship.ercim.eu/information>

Fulbright Junior Advanced Research Award

PhD students (3rd-4th year), May 1st

<http://www.fulbright.edu.pl/pl/fulbright-junior-advanced-research-award/>





NCN: Symfonia

Postdoc fellowship, France (May 1st)

all fields but medicine

<http://institutfrancais.pl/sciences-universites/pl/prezentacja2/bgf-pobyt-badawczy/>

Postdoc fellowship, Italy (May 5th)

<http://www.train2move.unito.it/login.html>





Thank you 😊

