

National Funding Opportunities

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- MU research funding
- National funding oppotunities
- European Structural and Investment Funds
- Internal Funding Opportunities and Research support at MU



Different funding streams



National providers

- GA ČR (Czech Science Foundation)
- TA ČR (Technology Agency of CR)
- Ministries
- EU/SMR* (SoMoPro)



Z. International sources

- FP7 / Horizon 2020
- EMB/EMBO
- EEA grants
- International Visegrad
 Fund
- US funding schemes
- Foundations
- etc.



3.
EU Structural and
Investment Funds

- OP RDE Operational Program Research, Development and Education
- OP EIC Operational Program Entrepreneurship, Innovation and Competitiveness



Institutional support

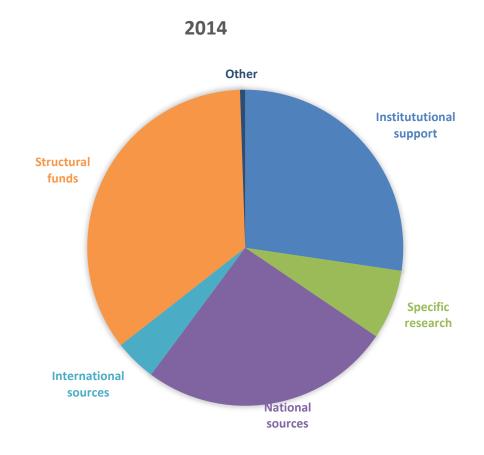
- 27% of all research expenses at MU
 - Based on research evaluation results
 - Current methodology
 - Pillar I publication results evaluation
 - Pillar II quality of selected research results
 - Pillar III patents and applied research results
- More at

http://www.vyzkum.cz/storage/att/471EC8E44A7C3AA09 C01B666F1ED6B30/M2013-0815-kor2.pdf



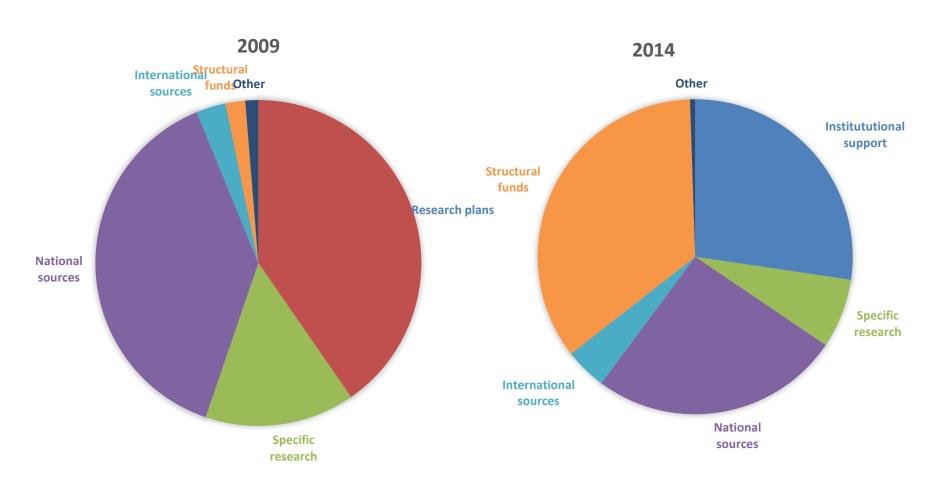
MU Research Funding

- Institutional support and target-oriented funding – 34%
- Projects through grant competition – 66%





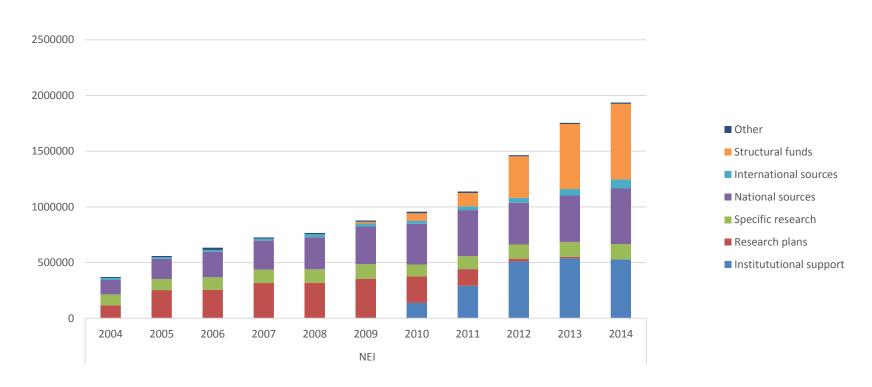
Changes in the structure of research funding at MU





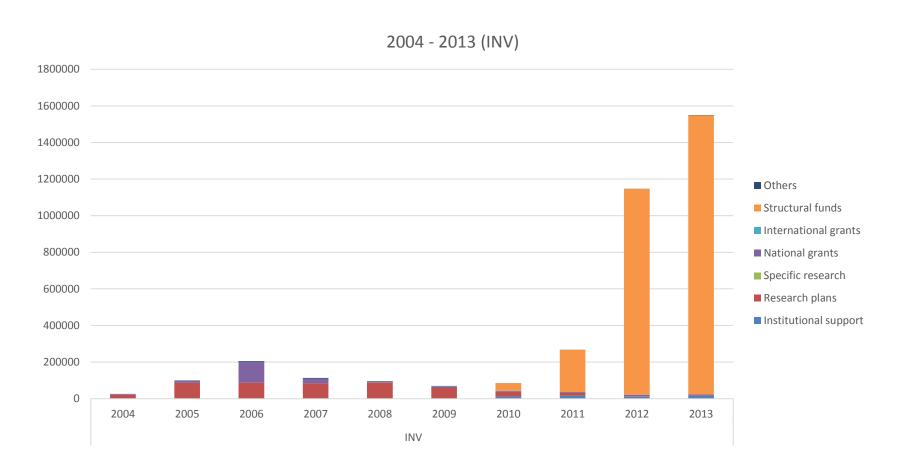
Reseach funding sources at MU – non-investments







Reseach funding sources at MU – investments

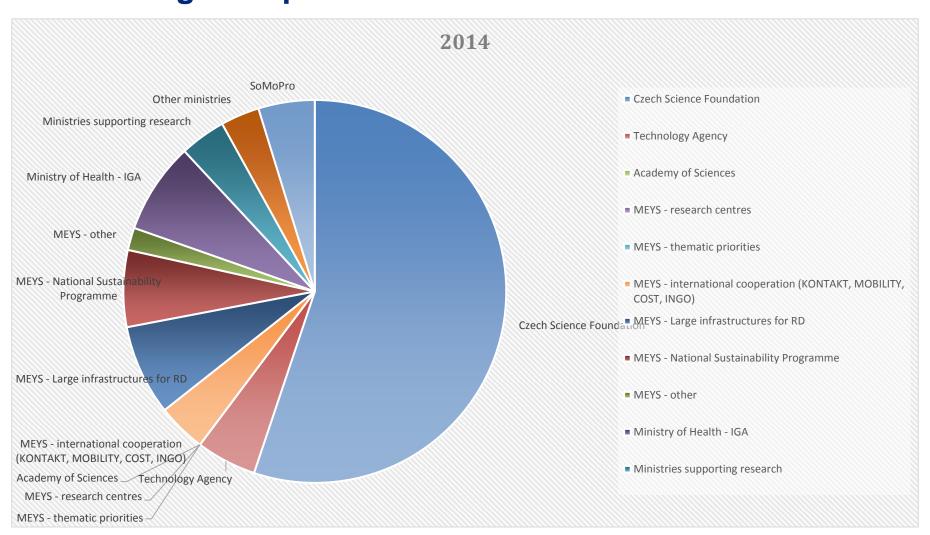




National Funding Opportunities



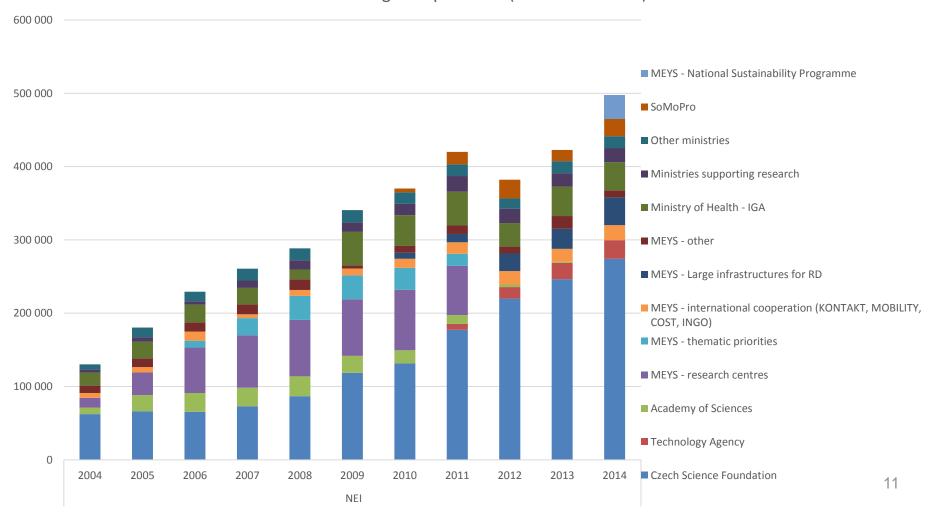
National grants providers – non-investments





National grants providers at MU – non-investments

National grants providers (non-investments)





Strategies

2012

- National Priorities of oriented research, experimental development and innovations
 - Competitive knowledge-based economy
 - Sustainability of energetics and material resources
 - Environment for quality life
 - Social and cultural challenges
 - Healthy population
 - Safe society

2013

- National R&D&I policy 2009 2015 with the perspective for 2020
- National research and innovation strategy for smart specialization

Strategická mapa pro oblast VaVal - dokumenty se zásadní a významnou vazbou na VaVal OPERAČNÍ PROGRAM VAŠI BUDOUCNOST LIDSKÉ ZDROJE a programy účelové podpory VaVal (verze k 30. 10. 2015) www.esfcr.cz eziresortni koncepce opravní politika ČR pro trategie mezinárodn Státní energetická Národní kosmický bezpečnostního onkurenceschopnost obdobi 2014-2020 s koncepce ČR plán 2014-2019 České republiky výzkumu a vývoje ČR do ČR (2012-2020) ýhledem do roku 2050 (2010-2030)ro období 2012 až 202 Dohoda o partnerstv pro programové oncepce podpory Akční plán podpon období 2014-2020 Exportní strategie ČF malých a středních malých a středních Program Program pro období let 2012 odnikatelů na obdob podnikatelů na rok teligentnich dogravnich Ministerstvo pro místní rozvoj bezpečnostniho bezpečnostního až 2020 let 2014-2020 2015 systémů (ITS) v ČR do výzkumu ČR 2010 výzkumu ČR 2015 roku 2020 (s výhledem 2015 Ministerstvo dopravy Digitální Česko v. 2.0 program TIP program TRIO Program Bezpečnostní výzkum (2013-2020) (2009-2017) (2016-2021) bezpečnostního vropské strukturáln pro potřeby státu 2010 výzkumu pro potřeby 2015 a investiční fondy státu 2016 - 2021 (OP PIK, OP VVV Ministerstvo průmyslu a obchodu Meziresortní koncepce apod.) Ministerstvo vnitra odní a kulturní identity na léta národní a kulturní identity do 2016 až 2022 Evropské komunitární rogramy (Horizon 2020 Program aplikovaného apod.) Program aplikovaného výzkumu aplikovaného výzkumu a výzkumu a vývoje národní a a vývoje národní a kulturní kulturní identity identity na léta 2016 až 2022 (2011-2017) ystému výzkumu, experimen program Obranný Národní program program Rozvoj aplikovaný výzkum, Strategie digitalizace Státní kulturní politika ozbrojených sil ČR reforem České experimentální vývoj a kulturního obsahu na na léta 2015-2020 (s republiky 2015 (2015 - 2022) inovace (2011 - 2017) léta 2013-2020 hledem do roku 2025 Ministerstvo obrany Ministerstvo kultury ývoje a inovací (2012 - 2020) ktualizace Národní politiky Konceoce zemědělského ýzkumu, vývoje a inovací Česk aplikovaného výzkumu a publiky na léta 2009 až 2015 s eziresortni koncepce Akční plán podpory výhledem do roku 2020 podpory velkých infrastruktu nezinárodní spolupráce ve ospodářského růstu a Implementace Národních ýzkumu a vývoji ČR do roku zaměstnaností ČR pro výzkum a vývoj do roku (2014)program Komplexni udržitelné systémy v zemědělství 2012-2018 Národní Národní Informace Projekty program program základ ERC CZ KONTAKT II INGO II velkých udržitelnosti Ministerstvo zemědělství výzkumu trastruktu Úřad vlády NÁVRAT EUROSTARS EUPRO II EUREKA CZ Koncepce zdravotnického Koncepce zdravotnického program BETA program ALFA program DELTA program OMEGA výzkumu do roku 2022 (2012-2016) (2014-2019) GESHER zvoje nadání a péče COST CZ MOST nadané na období let program Centra Program na podporu Resortní program výzkumu program GAMA program EPSILON Technologická agentura a vývoje Ministerstva kompetence Ministerstvo školství, mládeže a tělovýchovy České republiky (2014-2019) (2015-2025) aplikovaného výzkumu a zdravotnictvi III. (2012-2019)/(voje na léta 2015 - 202) (2010-2015) Ministerstvo zdravotnictvi Strategie rozvoje kraje Souvisei of skupina egionální inovační strategie Označeni "silné" vazby mezi: Označení "slabě" vázby mezi: Výzkumný program krajské programy VaVal i) strategii vyžadující vznik další strategie nebo programu nebo i) strategii vychazejici nebo navazujici na jinou strategii nebo





Different approaches

- Programmes in **basic** research = open scope, researchers choose the topic of research
 - Czech Science Foundation (GAČR)
- Programmes in applied research = more targeted approach, topic of research must correspond to the programme
 - Technology agency, other programmes of applied research

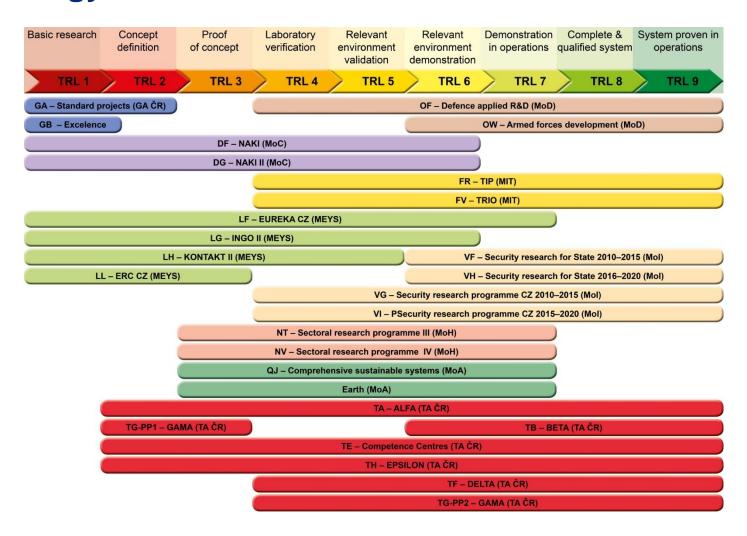


Technology readiness level

- **TRL 0: Idea**. Unproven concept, no testing has been performed.
- **TRL 1: Basic research.** Principles postulated and observed but no experimental proof available.
- **TRL 2: Technology formulation**. Concept and application have been formulated.
- **TRL 3: Applied research**. First laboratory tests completed; proof of concept.
- **TRL 4: Small scale prototype** built in a laboratory environment ("ugly" prototype).
- TRL 5: Large scale prototype tested in intended environment.
- **TRL 6: Prototype system** tested in intended environment close to expected performance.
- **TRL 7: Demonstration system** operating in operational environment at precommercial scale.
- TRL 8: First of a kind commercial system. Manufacturing issues solved.
- TRL 9: Full commercial application, technology available for consumers.



Technology readiness level





Czech Science Foundation (GAČR)



Technology Agency

- Established in 2009
- Centralization of the applied research programmes managed by several ministries
- Collaborative projects
- Co-financing
- Link to thematic priorities (National Priorities of Oriented Research)



through-out programme

Technology Agency

BEIA	GAMA	DELIA	EPSILON	Programmes
Focus Public tenders following state administration requirements	Focus Commercial use and application of the research results in practice	Focus International cooperation in the applied research, focusing on a specific country/contries	Focus Market launch for new technologies, materials, production and services in energetic engineering, environment and transport	ALFA Swift use and launch of new products, production processes and services Replaced by EPSILON
Results Industrial and utility design, prototype, functional specimen, software, patent, methodology, map, research report, pilot	Results Industrial and utility model patent; prototype, functional specimen; software, pilot operation, verified technology	Results Technology, variety, breed, industrial and utility design, prototype, functional specimen, patents, software, methodology, medical/ preservation	Results Industrial and utility model, patent, prototype, functi- onal specimen; software pilot operation, technology, methodologies, procedures, specialized maps with	OMEGA Applied results of the social sciences and humanities To be replaced with new programme
Aimed at Enterprise or research institution Tenders announced	Aimed at Technology Transfer Centres Calls opened once a year	Aimed at Enterprise in cooperation with research institution Calls opened once a year	expert content Aimed at Enterprise in cooperation with research institution Calls opened once a year	COMPETENCE CENTRES Support for establishment and operation of research centers for disciplines with significant application and innovative potential

Finishing



Sectoral ministries of the Czech Republic

Ministry of industry and Trade

TRIO

Key Enabling
Technologies research
(KETs) - photonics,
micro- and
nanoelectronics,
nanotechnology,
industrial biotechnology, advanced
materials and
manufacturing
technologies

Calls once a year: 2016, 2017...

Collaborative projects – cooperation of companies and research institutions

Resutls: prototype, software, pilot production,, verified technology, industrial orutility design, patent

Ministry of culture

NAKI II

Applied Research national and cultural Identity

For humanities archeology, language, arts, technologies and procedures for the protection of cultural heritage

Calls once a year: 2016, 2017...

Individual and Kolavorative projects – research institutions only

Results: specialized public databases, maps, methodologies, conferences, exhibitions, publications

Ministtry of Agriculture

KUS

Applied research in agriculture, angling, food, water and forest management

Last call in 2015 – programme will be replaced

Collaborative and individual projects for RO* and companies

Results: Publickations, patents, utility designs, verified technology, varieties, breeds, medical procedures, certified methodology

Ministry of the Interior CR

Security research

Applied research national security and citizens' safety, critical infrastructures, crisis and security policy

Calls once a year: 2016, 2017...

Collaborative and individual projects for RO* and companies

Results: Patent, software, utility and industrial design, technology, prototype, functional specimen, certified methodology

Ministry of Health CR

Medical research

Applied research Origin and
development of
diseases; New
diagnostic and
therapeutic methods
and Epidemiology and
prevention of lifethreatening diseases

Last call in 2015, new not announced yet

Collaborative projects – cooperation of companies and research institutions

Results: prototype, functional specimen, software, patent, map, methodology, verified technology, medical procedure

20



Sectoral ministries of the Czech Republic - MEYS

- KONTAKT support of international cooperation
- COST CZ support of multi-lateral cooperation through European platform of COST Actions
- INGO support of membership in non-governmental research organizations (e.g. CERN)
 Inter-Excellence
- EUREKA support of SMEs
- GESHER-MOST Czech-Israeli cooperation in applied research
- MOBILITIES support of researchers' mobility
- Czech- Norwegian research programme
- Large Infrastructures for R&D support of infrastructures on the Roadmap (54)

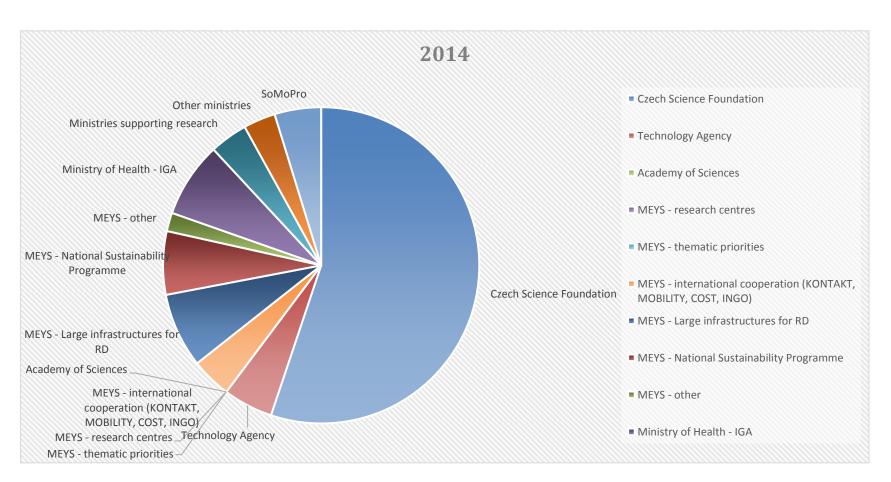


SoMoPro as a regional instrument

- Regional fellowship programme inspired by Marie Skłodowska-Curie Fellowships
- Incoming grants to attract researchers from abroad to undertake research and training in the South Moravian region
- Research experience + mobility conditions
- Next call in September 2016



Summary





European Structural and Investment Funds



European Structural and Invesment Funds (2014-2020)

- 8 Operational programmes in the Czech Republic
 - Operational Programme Research, Development and Education (OP RDE) – 2,8 mld. EUR
 - Priority Axis 1: Support of high-quality research
 - Link to Smart Specialization Strategy
 - Priority Axis 2: Human Resources for R&D







Vertical priorities of S3 strategy

				Application sectors					
				Advanced production and manufacturing technologies	Precision and scientific instruments	SW a HW development, cognitronics, cybersecurity	Pharma, medical care and diagnostics	Technologies for aerospace	
a)			Material science						
Generic knowledge			ICT						
	ns	PTS	Electronics and photonics						
	domains	KETs / GPTs)	Advanced manufacturing technologies						
		(KE	Biotechnology and biomedicine						
			Design a creative industries						
	ses		Sustainable energy and material sources						
	lleng		Environment for high quality living						
	cha		Social and cultural challenges						
	ieta		Healthy population						
	Soc		Secure society						



Internal Funding Opportunities and Research support at MU



MU Strategic plan 2016-2020 - Research

- Identify research priorities and strategic interdisciplinary topics at Masaryk University
- Reinforce the position and visibility of university research on an international scale and increase participation in international research projects and consortia
- 3. Increase the social and economic impact of university research results



Research support at MU

1. Financial incentives

- Grant Agency of Masaryk University:
 - Interdisciplinary research grants
 - Support of international research grants preparation

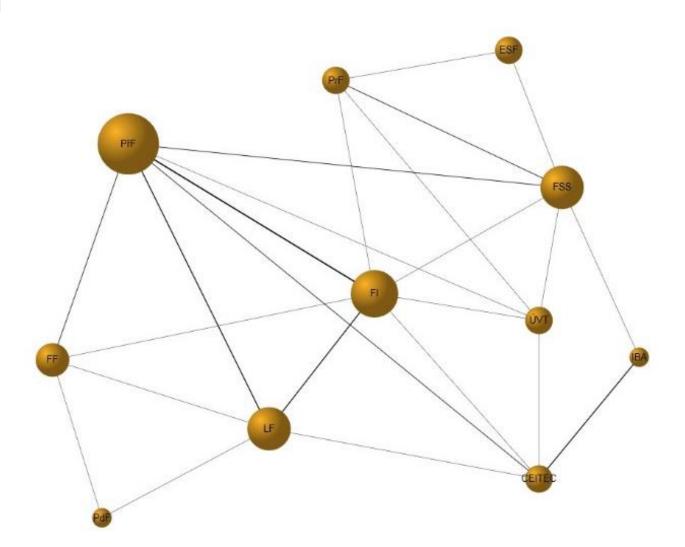
2. Non-financial research support

- Information spreading
- Individualized support



MU internal financial support of research - 1

- Grant Agency of Masaryk University
 - Interdisciplinary research projects
 - Selection based on excellence of applicants and proposal
 - At least 10 researchers from at least 2 faculties involved
 - 4 projects per year selected
 - Maximum financial support of 5 mil. CZK / 3 years





MU internal financial support of research - 2

- Grant Agency of Masaryk University
 - Support of international research grants preparation
 - Only for international grant agencies
 - Up to 400,000 CZK for prepation of the proposal
 - Preparatory meetings
 - Travel costs related to project preparation
 - Consultancy costs



MU research support

- Information spreading
 - Research Office newsletter
 - Research Office website
 - Information seminars, workshops, trainings
- Individualized support provided
 - Individual consultancy with Research Office staff
 - Help with proposal development



MU research support - events

- 23 March: Grant opportunities training
- 30 March: Marie Skłodowska-Curie Actions: Your gateway to an exciting research career
- 12 14 October: Grants Week
- PREFEKT



Thank you for your attention