Review of Competitive RDI Calls

Forum for Applicants and Evaluators on calls promoting discovery research

József Pálinkás, President

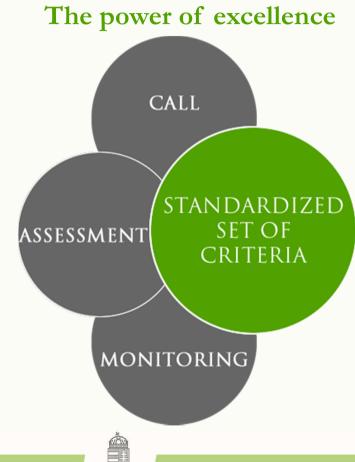
Budapest, 25 January 2018



Coordination of resources in a competitive funding system

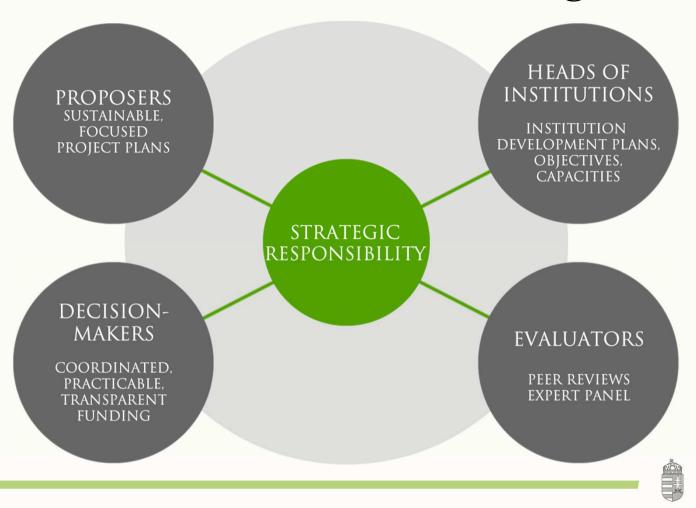
The power of every state of of ev

- coordinated management, flexible planning, complex portfolio of calls
- well-balanced support to discovery research, experimental development and innovation
- novel content, international competitiveness, sustainability
- challenge-oriented rather than source-oriented project funding
- practical applicability and marketability of RDI results





Stakeholders of value-creating innovation



The system of RDI sources

Domestic sources

National Research, Development and Innovation Fund

approx. HUF 80 bn per year

Cohesion policy instruments

Structural Funds

- > European Social Fund
- European Regional
 Development Fund



Operational Programmes

- Economic Development and Innovation Operational Programme (EDIOP, in Hungarian: GINOP)
- Competitive Central-Hungary Operational Programme (CCHOP, in Hungarian: VEKOP)

Direct access to international funding

Horizon 2020 framework programme

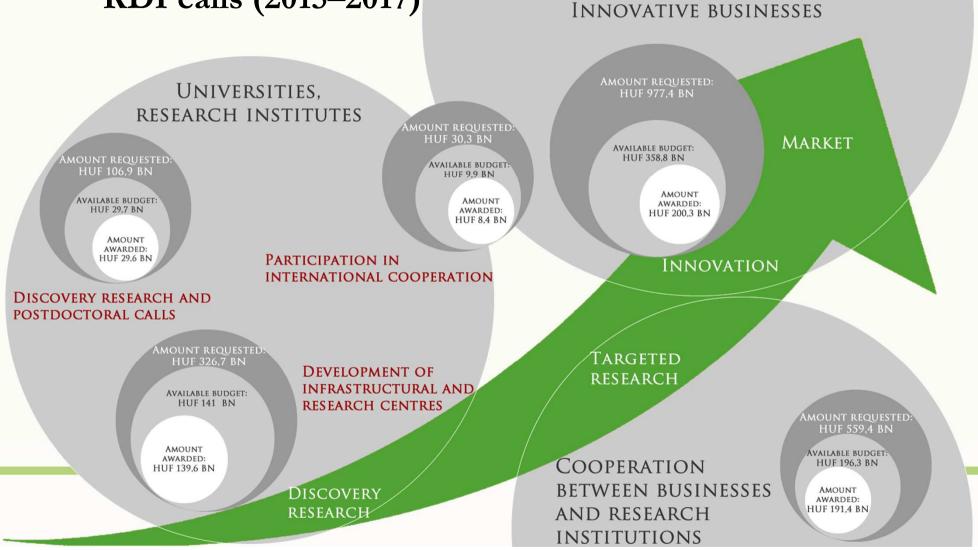
EUR 178.5 million

(approx. HUF 53.5 bn) awarded to Hungarian businesses and research centres since 2014

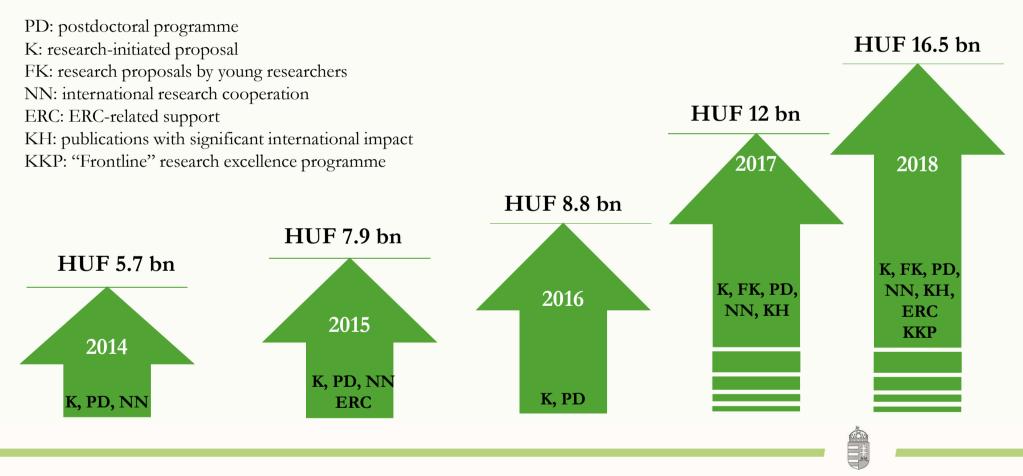


approx. HUF 750 bn between 2014 and 2020

Target groups, calls and funding decisions in the RDI calls (2015–2017)



Major calls supporting discovery research and aggregated annual budgets



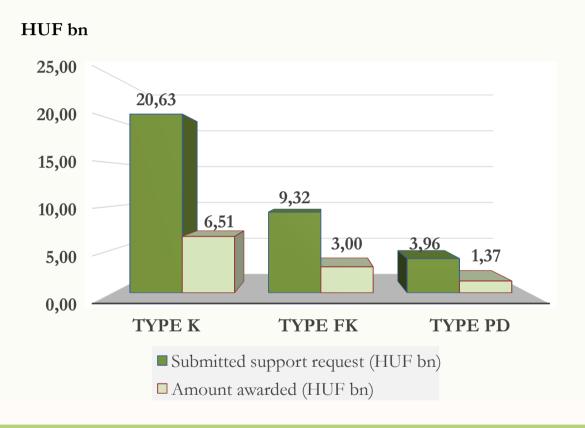


APPLICANTS

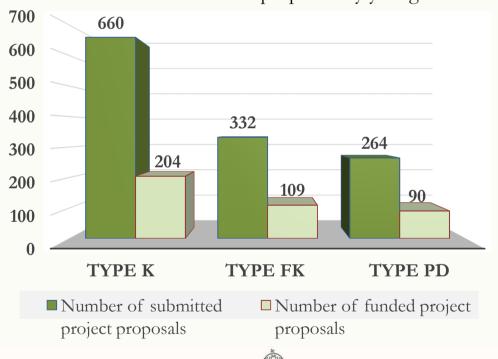


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Key figures of the three main calls (K, FK, PD) supporting discovery research in 2017

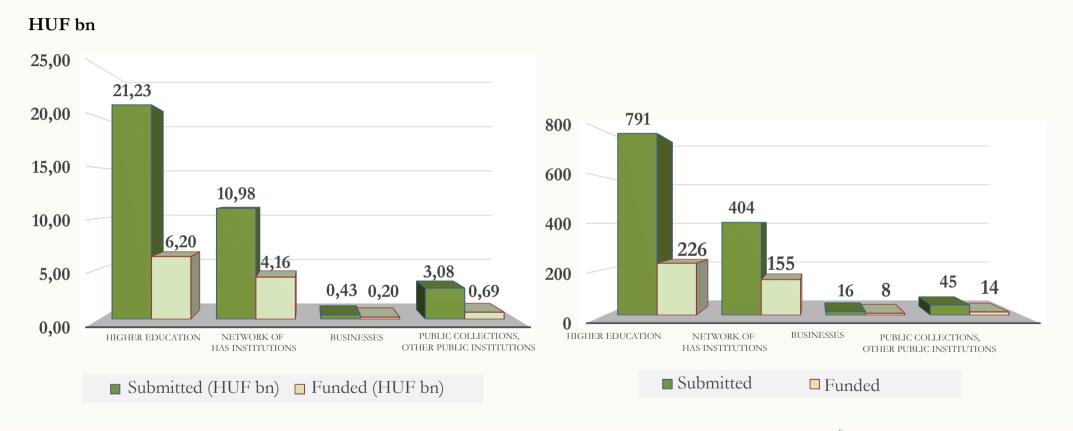


PD: postdoctoral programme K: research-initiated proposal FK: research proposals by young researchers





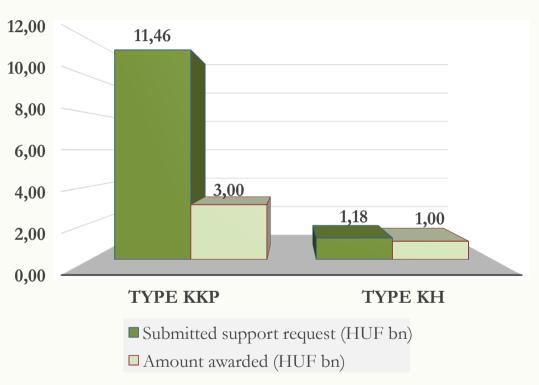
Beneficiaries of the three major calls (K, FK, PD) supporting discovery research in 2017 by type of institution

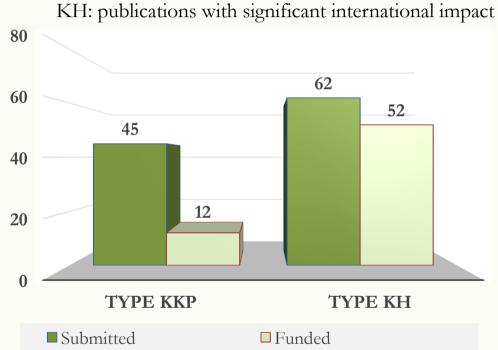




Beneficiaries of the three major calls (K, FK, PD) supporting

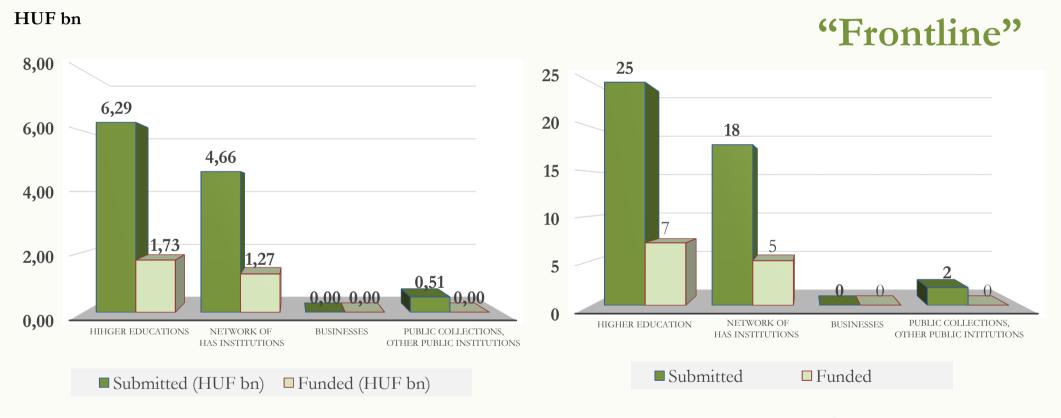








Beneficiaries of the new excellence call supporting discovery research (KKP) in 2017 by type of institution

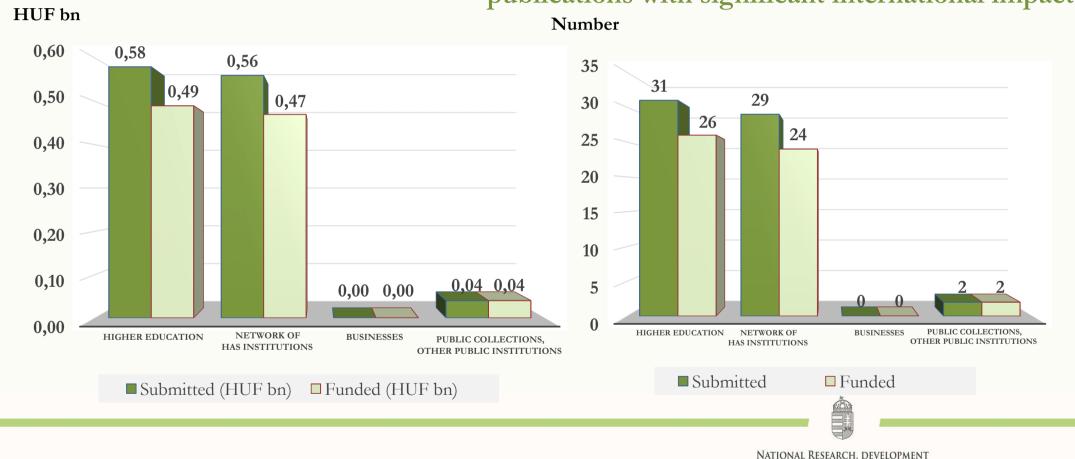




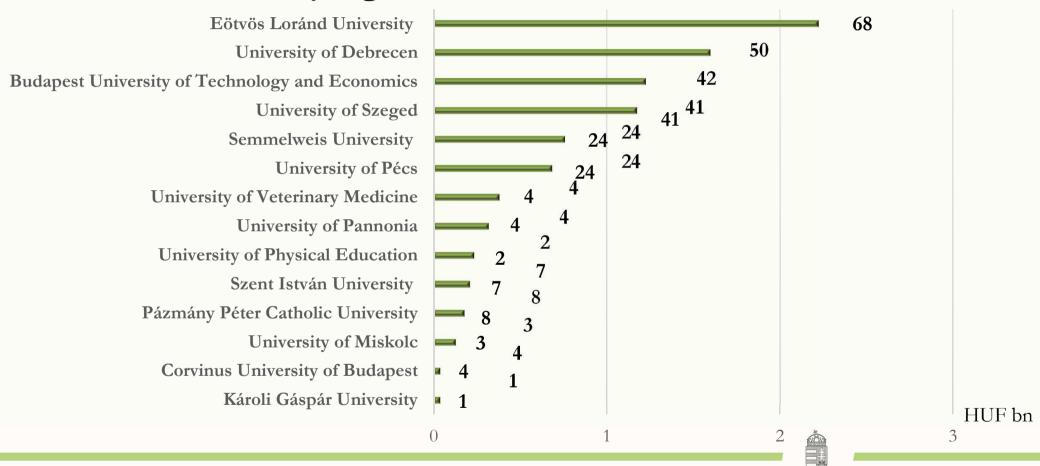
Beneficiaries of the new excellence call (KH) supporting discovery research in 2017 by type of institution

publications with significant international impact

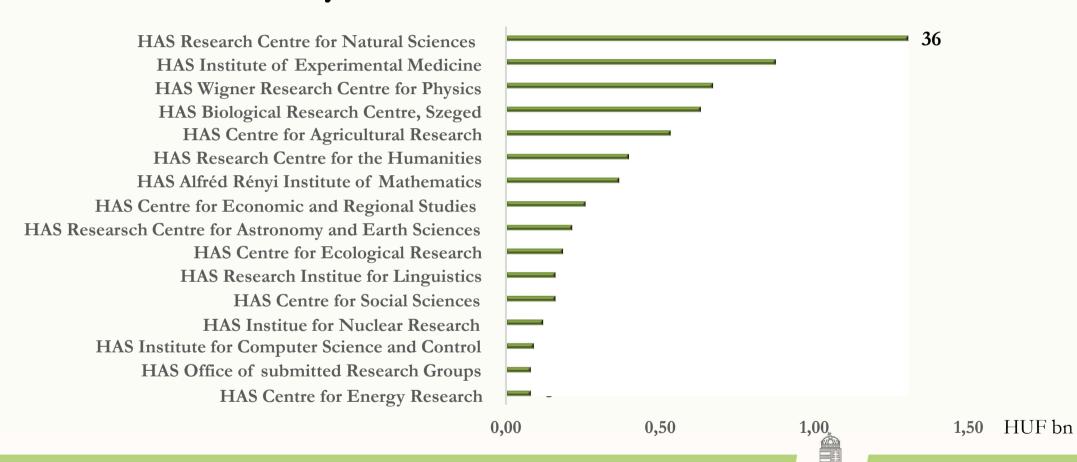
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Awarded projects and funding in discovery research calls in 2017 by higher education institution

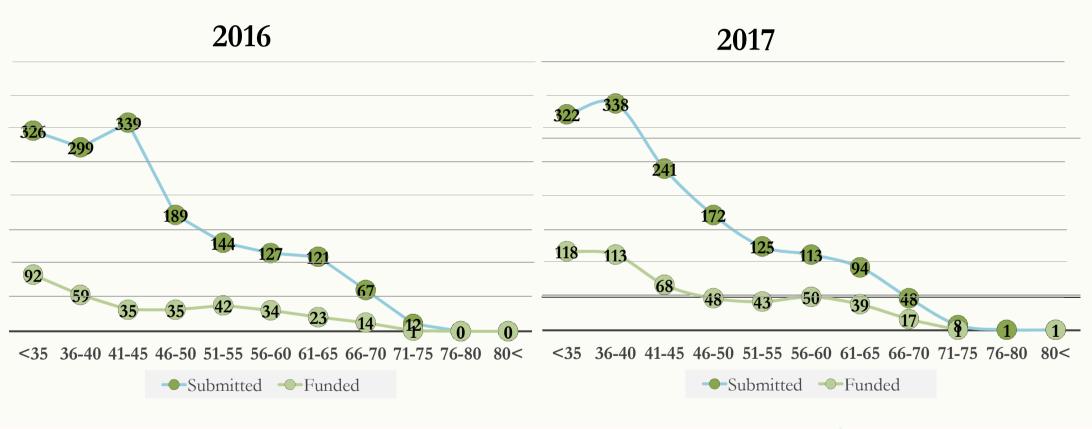


Awarded projects and funding in discovery research calls in 2017 by HAS research institutions



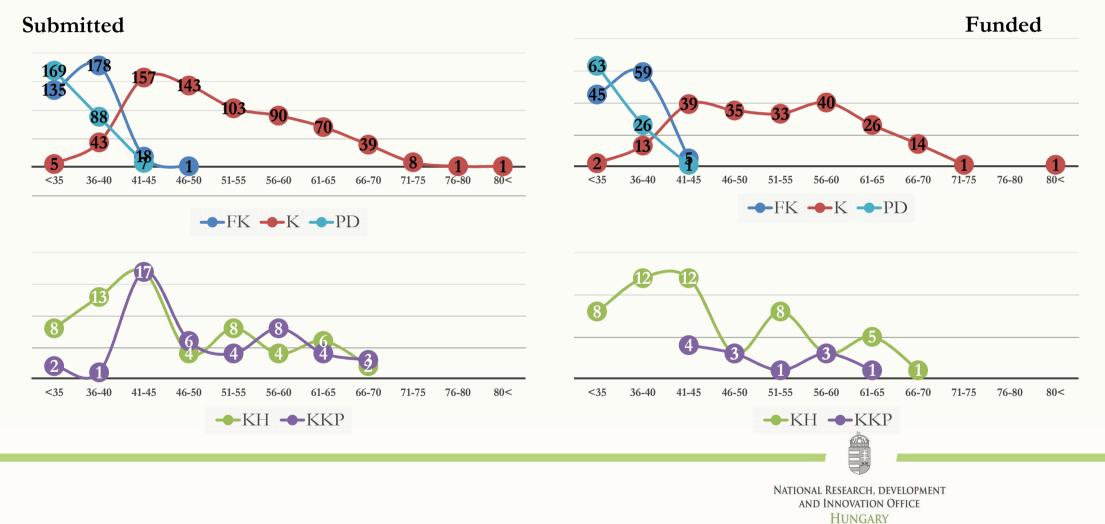
National Research, development and Innovation Office Hungary

Age of principal investigators in discovery research calls





Age of principal investigators in discovery research calls by call type (2017)

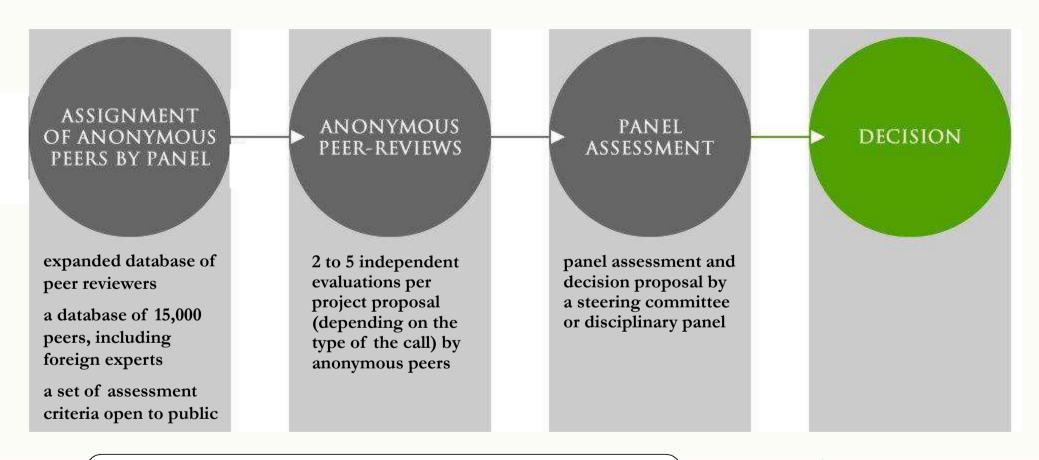




ASSESSMENT



Evaluation system of RDI projects

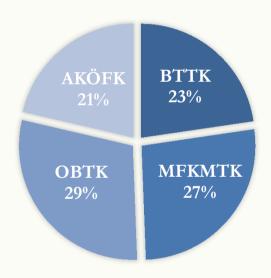


COMPREHENSIVE, MULTI-STAGE EVALUATION PROCESS TRANSPARENT ASSESSMENT PROCEDURES AND CLEAR SET OF CRITERIA



Project proposals in the three discovery research calls (K, FK, PD) split by the scientific councils (2017)

Number of submitted project proposals:



Number of funded project proposals:



BTTK

Council of Humanities and Social Sciences

MFKMTK

Council of Mathematics, Physics, Chemistry, and Engineering

OBTK

Council of Medical and Biological Sciences

AKÖFK

Council of Agricultural, Environmental, Ecological and Earth Sciences



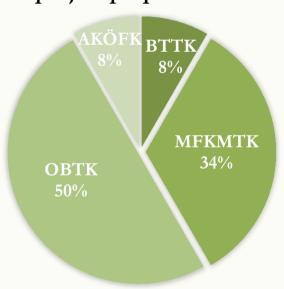
Project proposals of the KKP excellence call split by the four scientific councils (2017)

"Frontline"

Number of submitted project proposals:



Number of funded project proposals:



BTTK

Council of Humanities and Social Sciences

MFKMTK

Council of Mathematics, Physics, Chemistry, and Engineering

OBTK

Council of Medical and Biological Sciences

AKÖFK

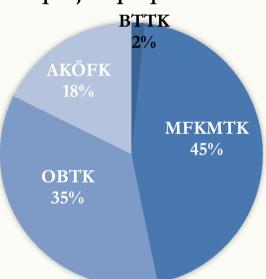
Council of Agricultural, Environmental, Ecological and Earth Sciences



Project proposals of the KH excellence call split by the four scientific councils (2017)

publications with significant international impact

Number of submitted project proposals:



Number of funded project proposals:



BTTK

Council of Humanities and Social Sciences

MFKMTK

Council of Mathematics, Physics, Chemistry, and Engineering

OBTK

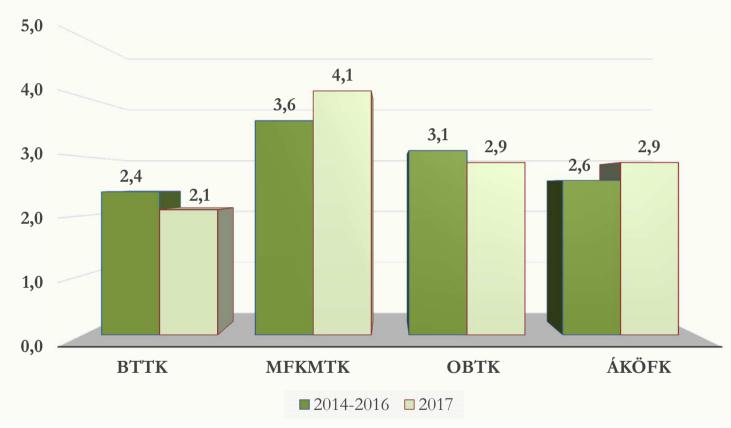
Council of Medical and Biological Sciences

AKÖFK

Council of Agricultural, Environmental, Ecological and Earth Sciences



Submitted research-initiated proposals (K, FK) per panel member in the panels of the four councils (2017)



BTTK

Council of Humanities and Social Sciences

MFKMTK

Council of Mathematics, Physics, Chemistry, and Engineering

OBTK

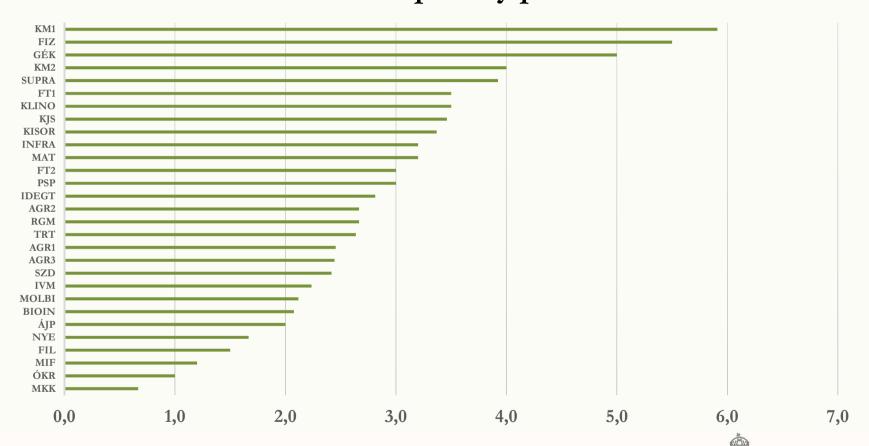
Council of Medical and Biological Sciences

AKÖFK

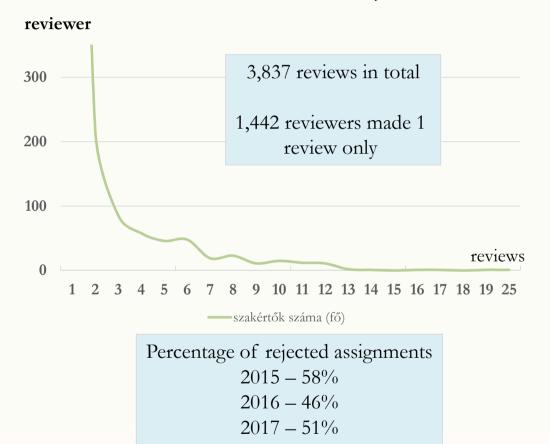
Council of Agricultural, Environmental, Ecological and Earth Sciences



Researcher-initiated proposals (K, FK) per panel member submitted to the disciplinary panels in 2017



Anonymous peer reviewers and their scores in the K_17, FK_17 and PD_17 calls





Internationally good, with some shortcomings. (8)
Internationally very good, with some shortcomings. (8.5)
Internationally very good, results may have a substantial impact. (9)
Internationally excellent with respect to most criteria (9.5)
Outstanding proposal with respect to all criteria (10)

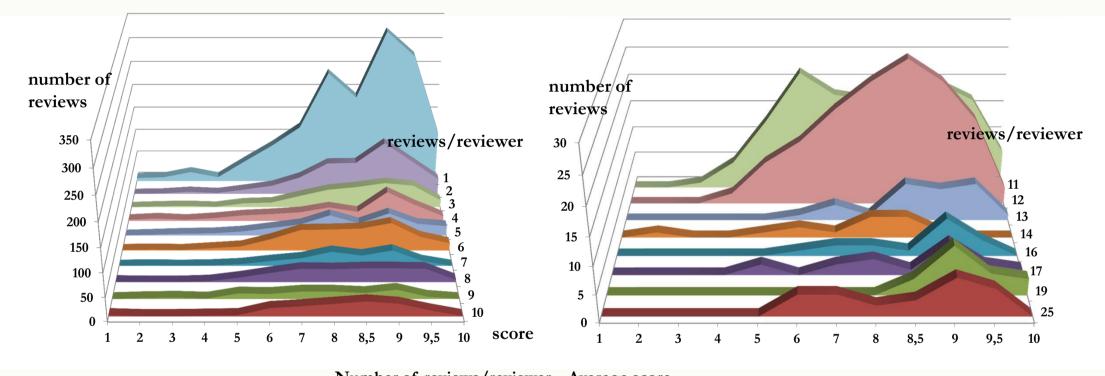


Scores of project proposals in three different expert panels (2017)





Number and scores of assessed project proposals (2017)



Number of reviews/reviewer		Average score
	1	8.3
	2-5	8.0
	6-10	7.7
	11-15	7.2

16-25 8.2

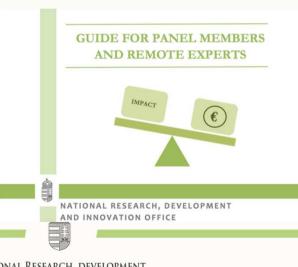


Guide to high quality assessment

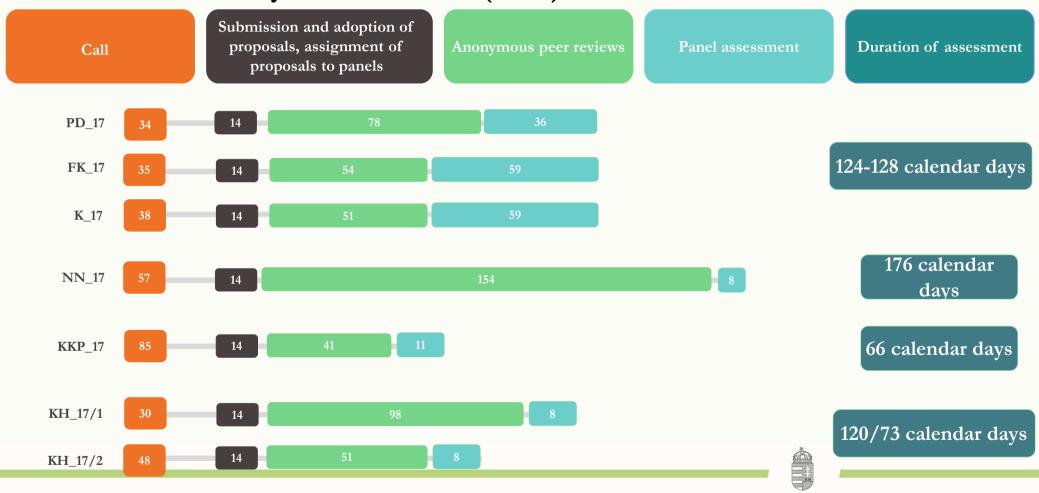
The assessment is more authoritative if

- the textual assessment is sufficiently elaborated
- the score accurately reflects the textual assessment
- it is based on facts and is free from assumption-based conclusions
- it does not include any assessment criteria not listed in the call





Duration of the assessment of project proposals submitted to discovery research calls (2017)



Assessment cost of project proposals submitted to discovery research calls (2017)

	NUMBER	AMOUNT
ASSESSMENT COSTS	3,837	HUF 57.6 Mn
REMUNERATION WAIVED	1,369	HUF 20.5 Mn
REMUNERATION OF PANEL MEMBERS	519	HUF 68.2 Mn

Average cost of assessment required to prepare one funding decision HUF 71.9 thousand



What has been achieved of the NRDI Office's commitments to the development of the funding system (Review of Competitive Calls held 1 February 2017)

- ✓ more funding opportunities for members of the researcher community aged 40 or below (FK_17)
- ✓ more important role of evaluation panels in the evaluation process
- ✓ rearranged panel structure in consideration of the aspects of scientific fields
- renewed system of assessment criteria for more realistic scoring
- more predictable and more efficient call process management
 - higher number of project proposals per reviewer



The new expert panels

(29 panels until 2017, 27 panels from 2018)

Goal: each reviewer should evaluate 6 to 10 project proposals in a call round

Expert panels of the Council of Humanities and Social Sciences

Law and Government Sciences, Political Science (ÁJP)

Economics (GAZD)

Literature (IROD)

Culture (KULT)

Linguistics (NYELV)

Psychology – Education (PSZINEV)

Archaeology (RÉG)

Society (TÁRS)

History (TÖRT)

Expert panels of the Council of Physical Sciences

Informatics and Electrical Engineering (IVM)

Physics (FIZ)

Engineering, Metallurgy, Architecture and Transport

Sciences (GÉK)

Chemistry 1 (KM1)

Chemistry 2 (KM2)

Mathematics and Computing Science (MAT)

Expert panels of the Council of Medical and Biological Sciences

Physiology, Pathophysiology, Pharmacology and Endocrinology (ÉLETTAN)

Genetics, Genomics, Bioinformatics and Systems Biology (GÉNINFO)

Neurosciences (IDEGT)

Immunity, Cancer and Microbiology (IMMUN)

Clinical Medicine (KLINO)

Molecular and Structural Biology and Biochemistry (MOLBI)

Cellular and Developmental Biology (SEJTBIOL)

Expert panels of the Council of Complex Environmental Sciences

Plant and animal breeding (NÖVÁLL)

Complex agricultural sciences (KOMPAGR)

Earth sciences 1 (GEOINT)

Earth sciences 2 (GEOEXT)

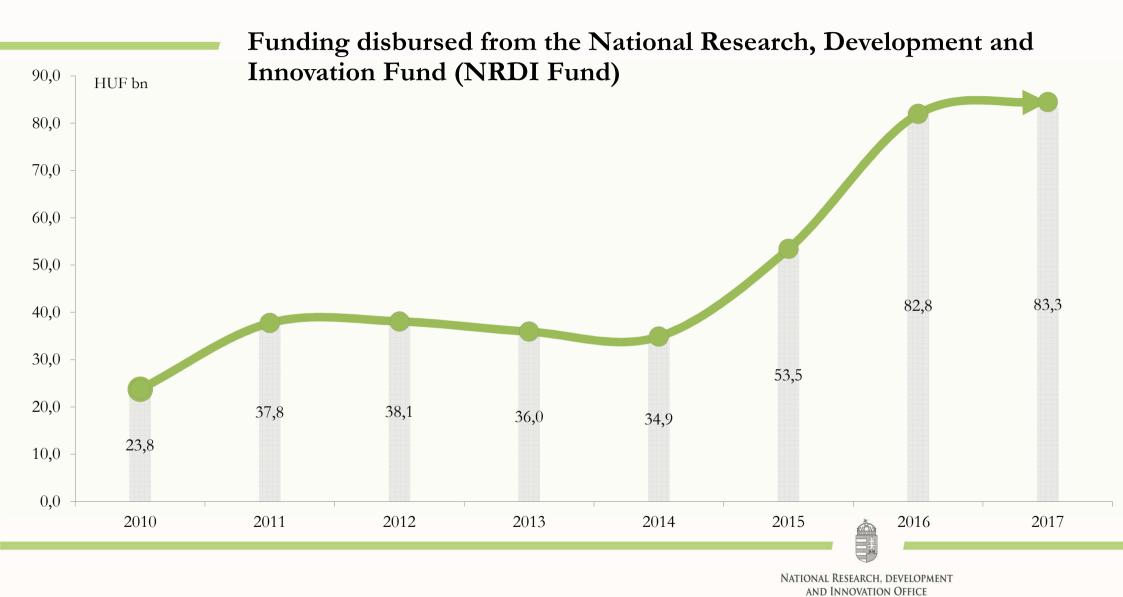
Ecology and evolution (ÖKOEVO)





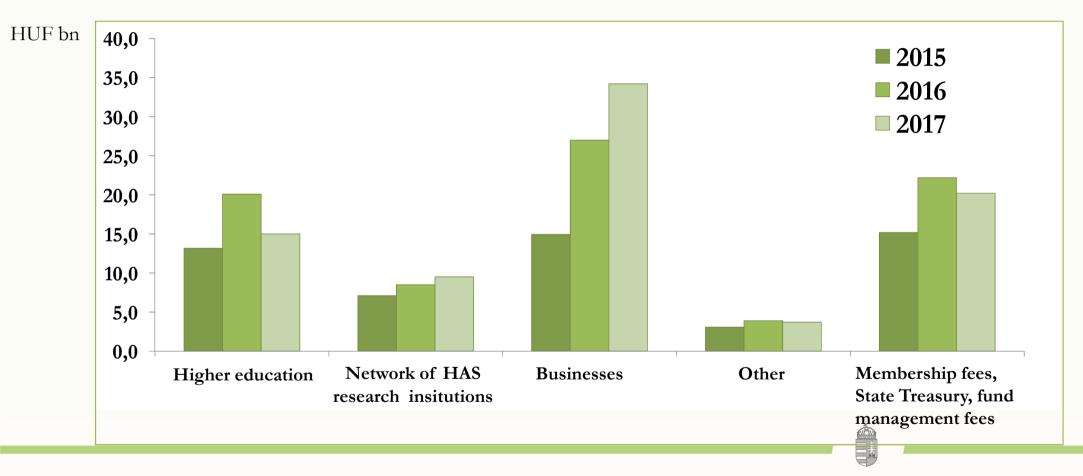
NRDI FUND (2017) ACHIEVEMENTS



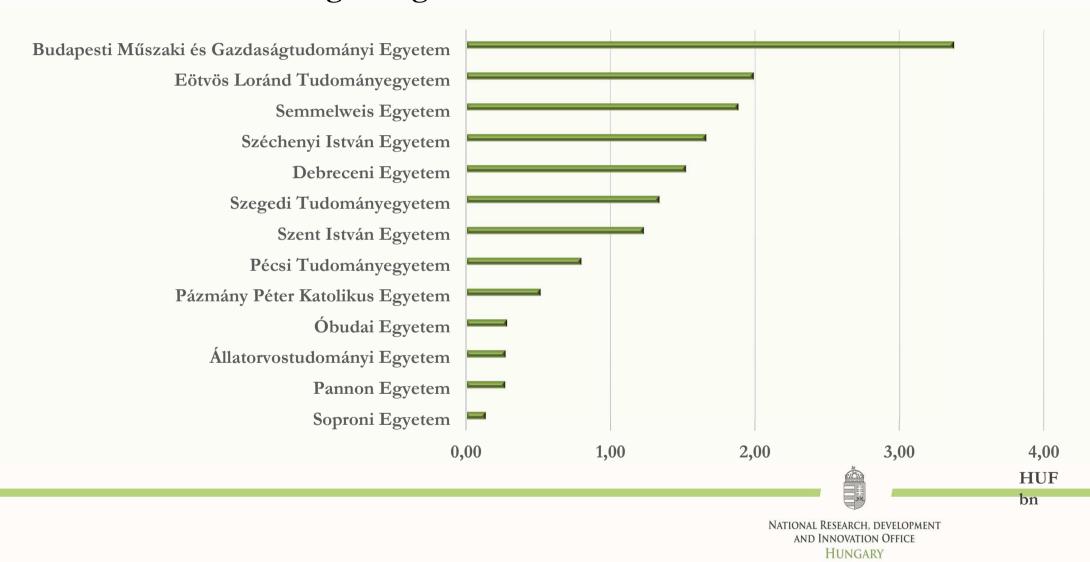


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Beneficiary target groups of the NRDI Fund in 2017

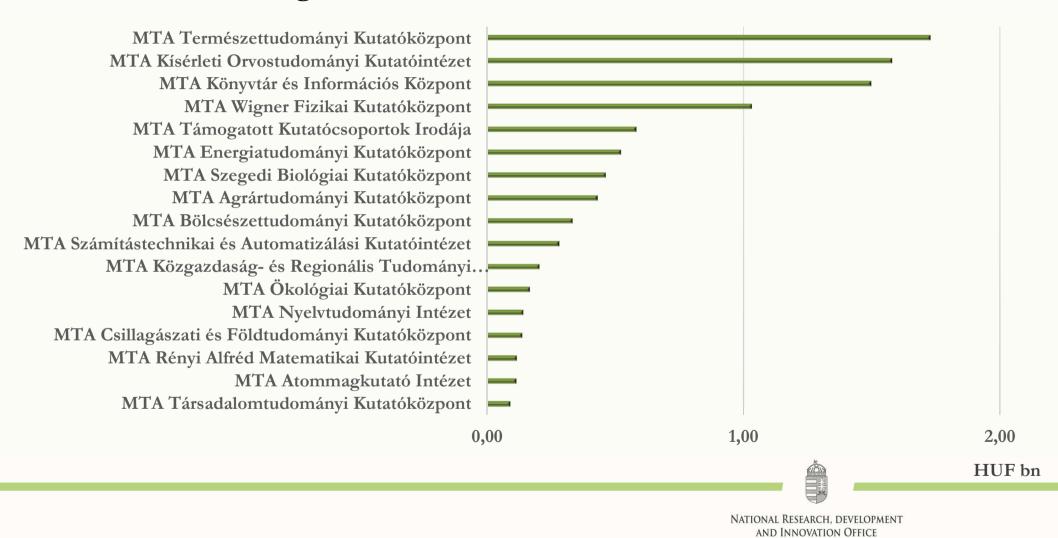


Funding to higher education from the NRDI Fund in 2017

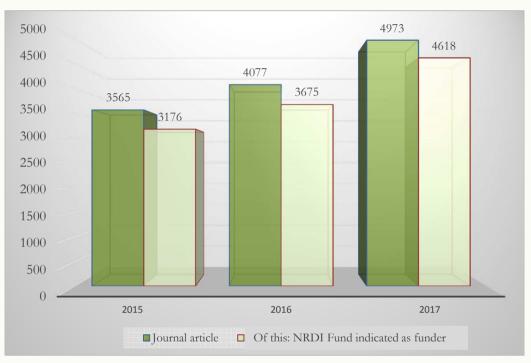


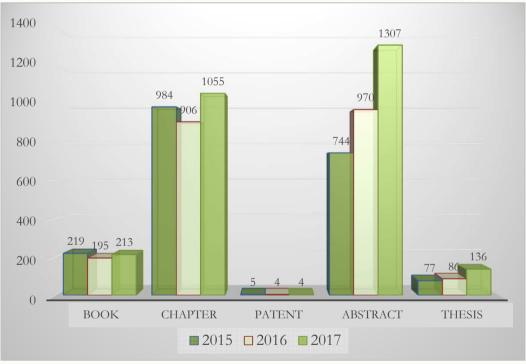
Funding to research centres from the NRDI Fund in 2017

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Scientific performance of projects closed between 2015 and 2017





Quick report based on summary data from final reports recorded in the EPR.





CALL FOR PROPOSALS (2018)



2018 discovery research calls are now open with a total budget of HUF 12 billion



www.nkfih.gov.hu



2018 discovery research calls – main changes

- No age limit in the postdoctoral call, time from date of PhD is the only consideration
- Postdoc salary: gross HUF 350,000 /month + contributions payable by employer
- Host institutions are required to confirm in a statement that the infrastructural conditions required for the project are available
- Summary table on the **2018 rules of project proposals submitted by the same principal investigator at the same time** or in addition to a running project funded under a previous call
- Updated and clearer rules on the use of funds



2018 discovery research calls – main changes

General criteria for the assessment of final reports (as a pilot for OBTK)

- 1) Quality comes first (rather than quantity) in the assessment of scientific performance
- 2) Assessment is based on publications containing original observations in which the **principal** investigator has significant authorship
- 3) Co-authored publications containing original observations can only be considered if the applicant contributed to them and it was indicated so in the publication
- 4) Publications can only be considered for the assessment of final reports if **the NRDI Office project** code was duly indicated
- 5) The final report of **NN type projects** can only be accepted, **if at least 1 publication containing** original observations has been published together with the co-applicant
- 6) In the case of Open Access periodicals with no impact factor, the expectable reputation of the periodical needs to be examined

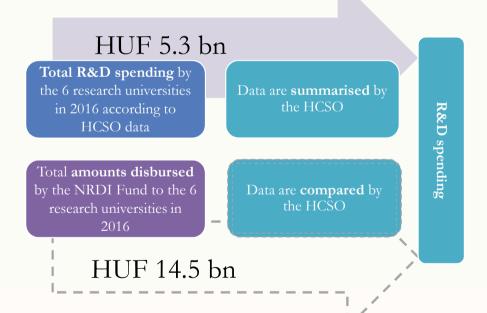


Assessment process of the 2018 discovery research calls



NRDI Fund disbursements as reflected in R&D spending figures on the basis of institutions' data sheets submitted to the Hungarian Central Statistical Office (HCSO)

Research universities' R&D spending (HCSO data) and amounts disbursed from the NRDI Fund to them in 2016



NRDI Office initiatives

- 1. Cooperation agreement with the HCSO
- 2. Raising awareness of the importance of filling in OSAP data sheets correctly
- 3. Development of methodology proposals
- 4. Involvement of a wider scope of data on research funding



Ever changing researcher community and research environment

"totem" (treats research infrastructure as own)

IF conference

Peer-review "science only"

WoS, Scopus

"manager"

Google Schoolar

F1000...

spin-off, start-up

"open science"



SCImago, Altmetrics

on-line networking

"open access"

New initiatives to stimulate researcher performance adapted to the environment



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