

Review of Competitive RDI Calls

Forum for Applicants and Evaluators
on calls promoting discovery research

József Pálinkás, President

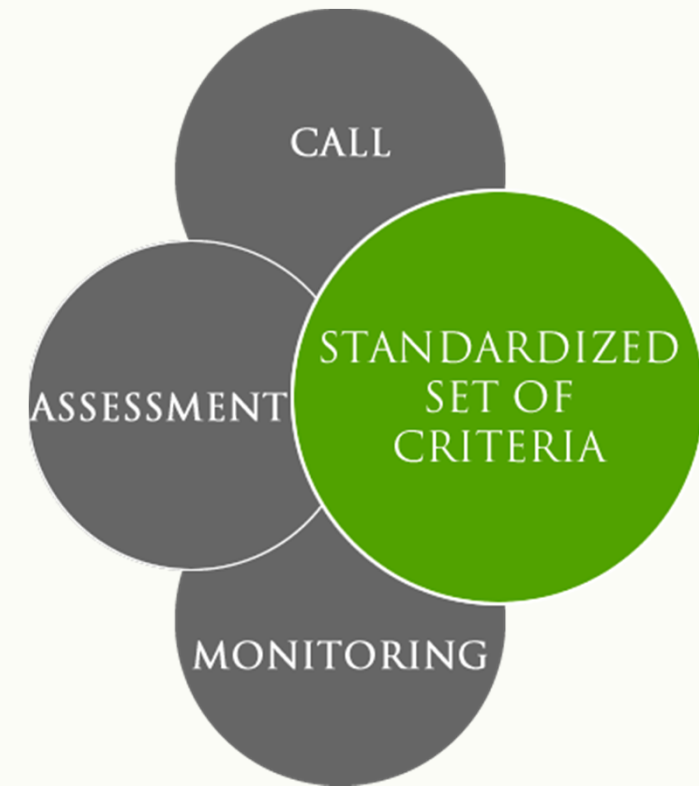
Budapest, 25 January 2018



Coordination of resources in a competitive funding system

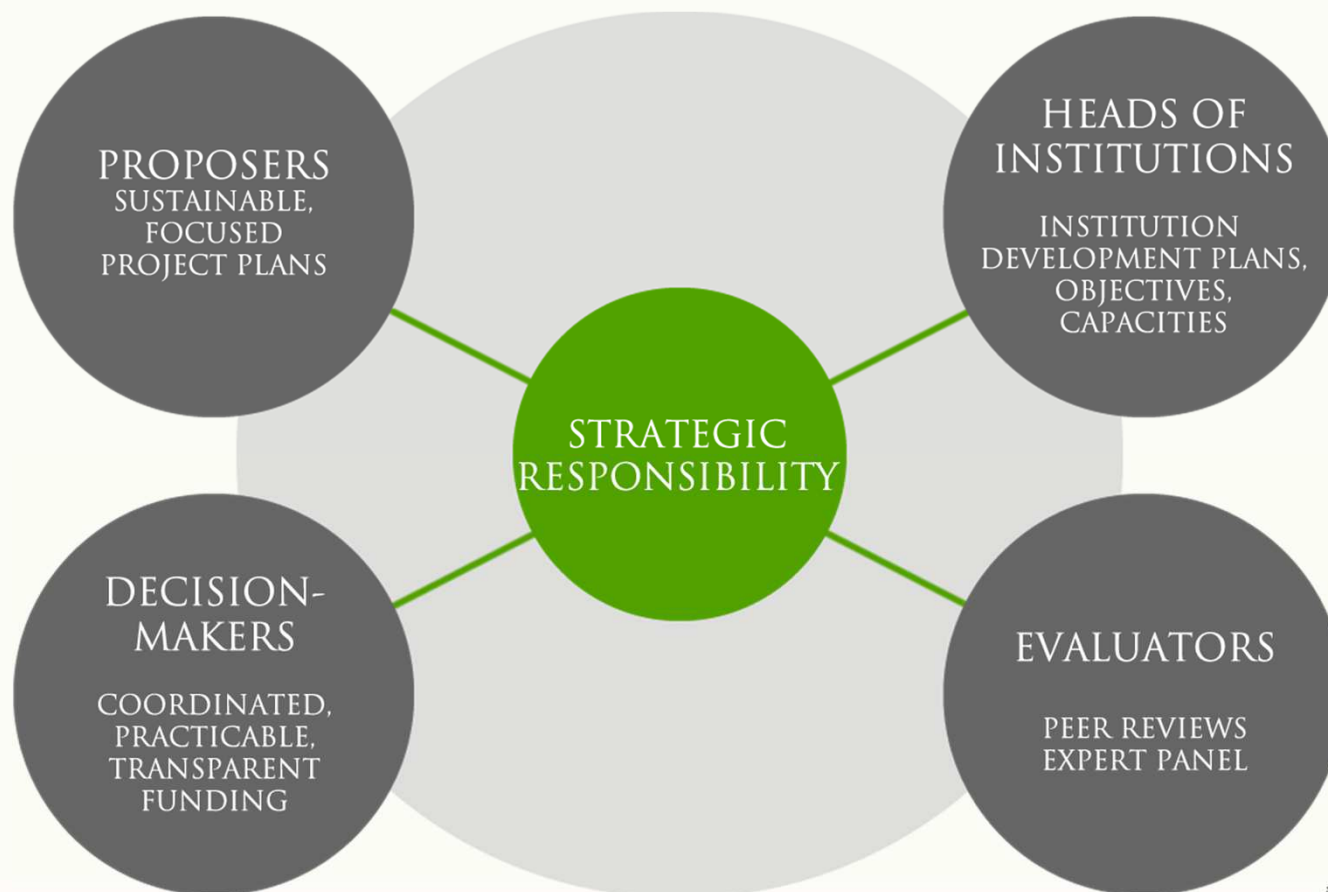
- coordinated management, flexible planning, complex portfolio of calls
- well-balanced support to discovery research, experimental development and innovation
- novel content, international competitiveness, sustainability
- challenge-oriented rather than source-oriented project funding
- practical applicability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

The power of excellence

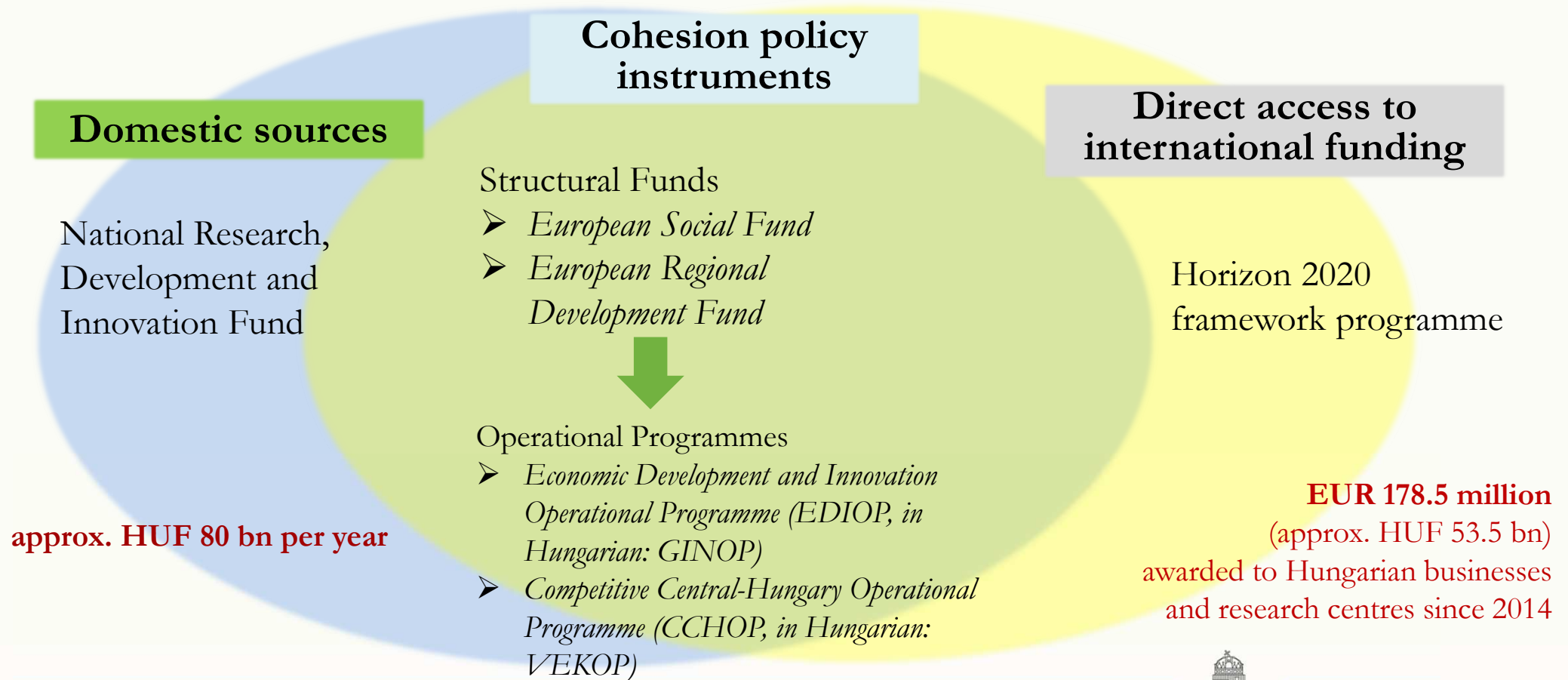


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Stakeholders of value-creating innovation



The system of RDI sources

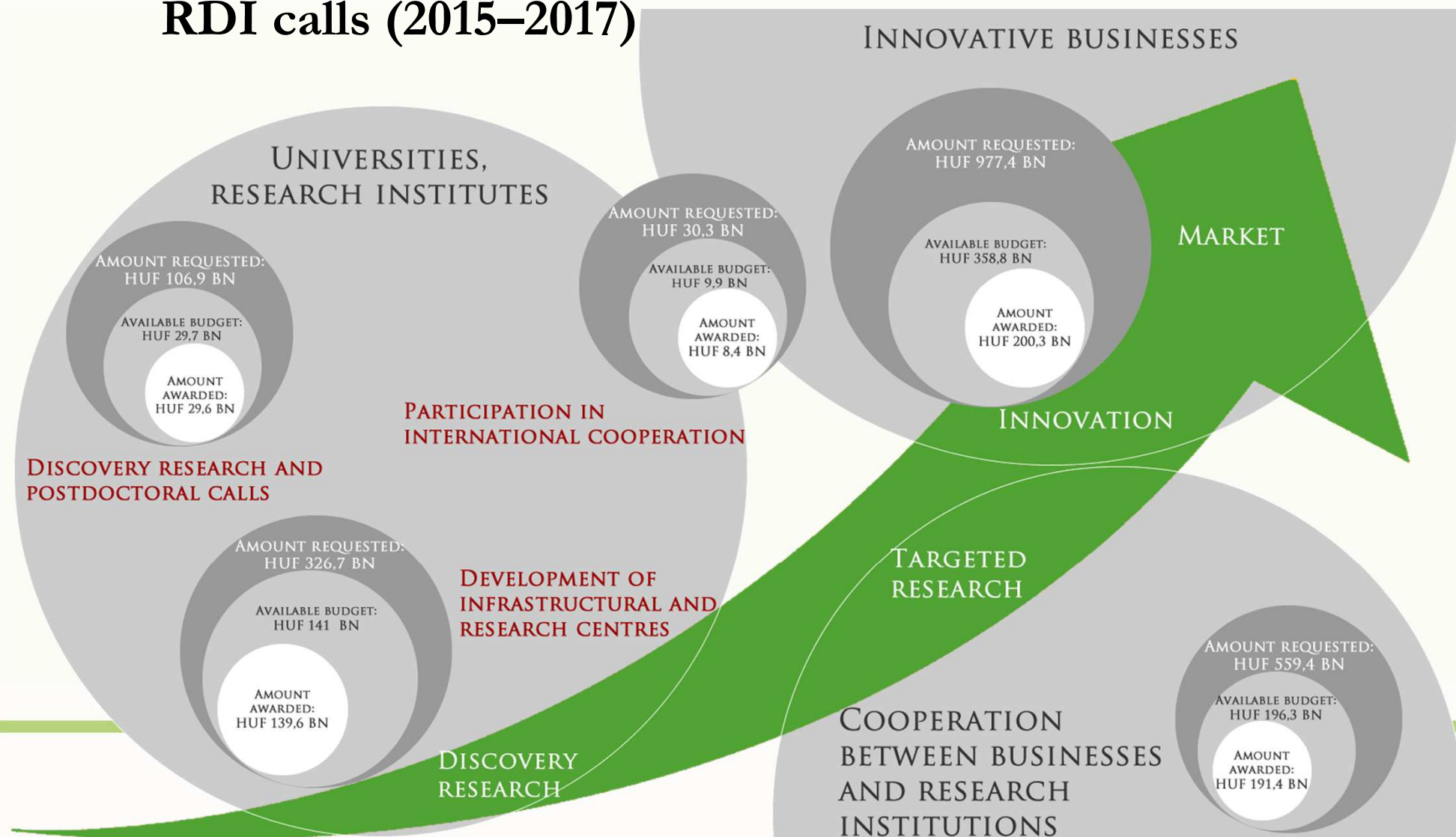


approx. HUF 750 bn between 2014 and 2020



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



Major calls supporting discovery research and aggregated annual budgets

PD: postdoctoral programme

K: research-initiated proposal

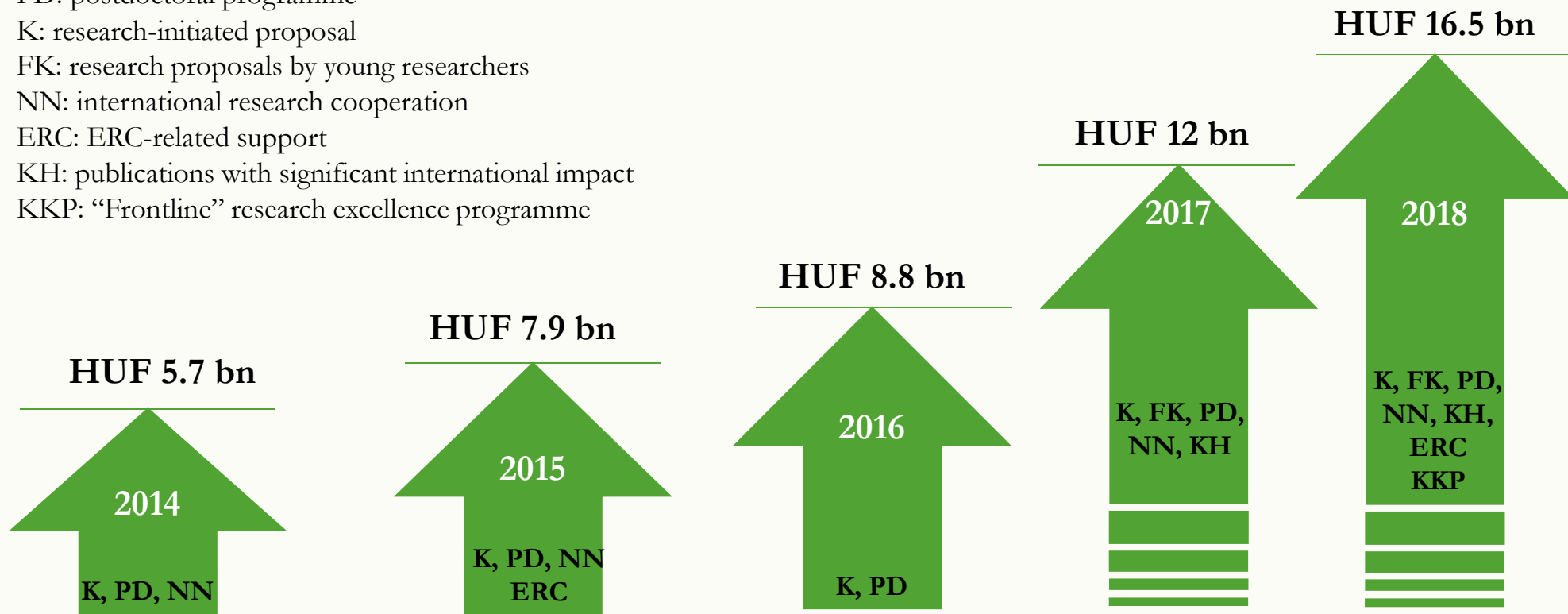
FK: research proposals by young researchers

NN: international research cooperation

ERC: ERC-related support

KH: publications with significant international impact

KKP: “Frontline” research excellence programme



MOMENTUM OF INNOVATION



APPLICANTS



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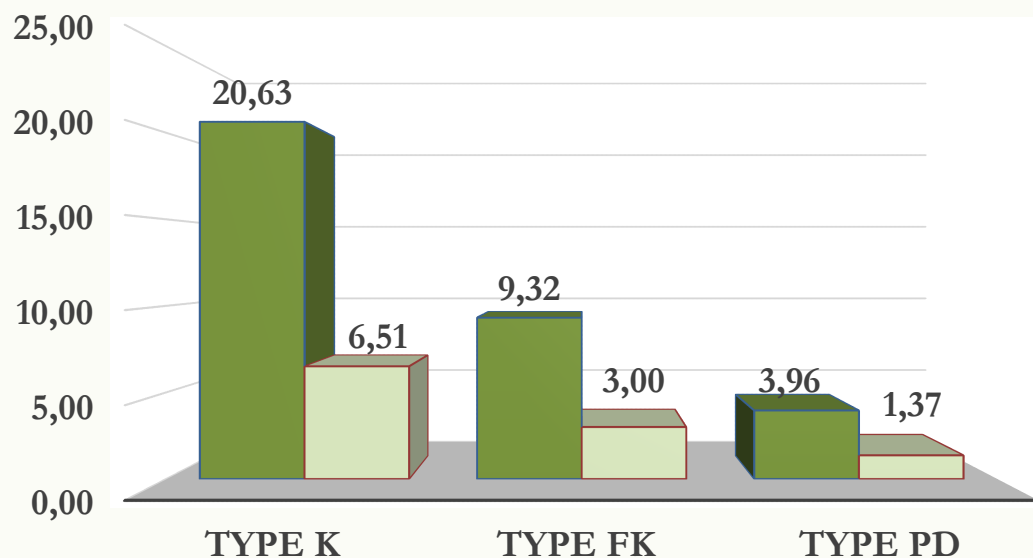
Key figures of the three main calls (K, FK, PD) supporting discovery research in 2017

PD: postdoctoral programme

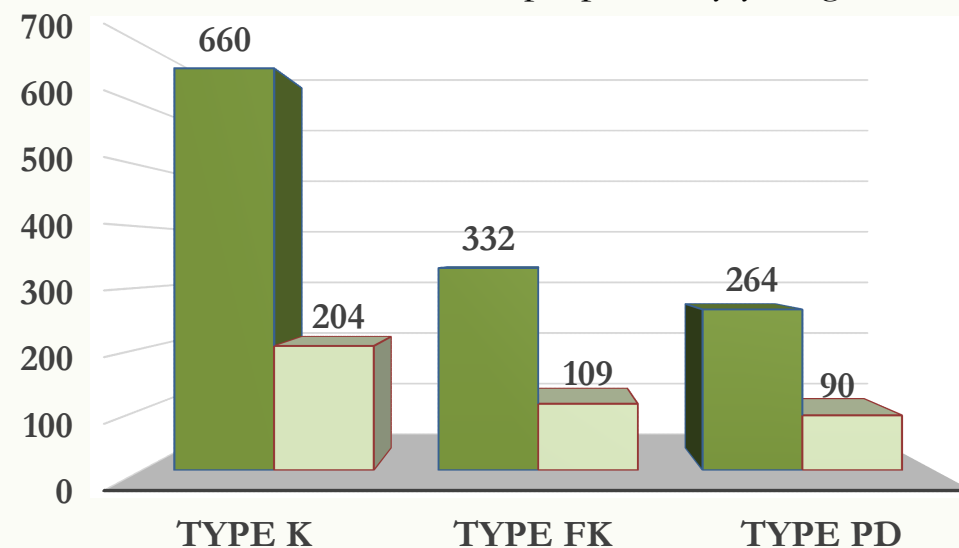
K: research-initiated proposal

FK: research proposals by young researchers

HUF bn



■ Submitted support request (HUF bn)
 ■ Amount awarded (HUF bn)



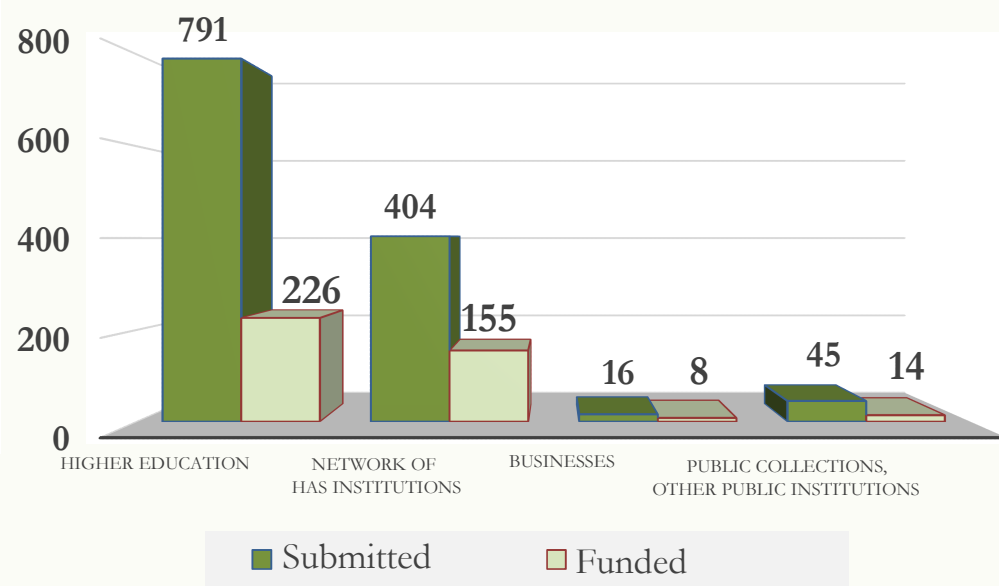
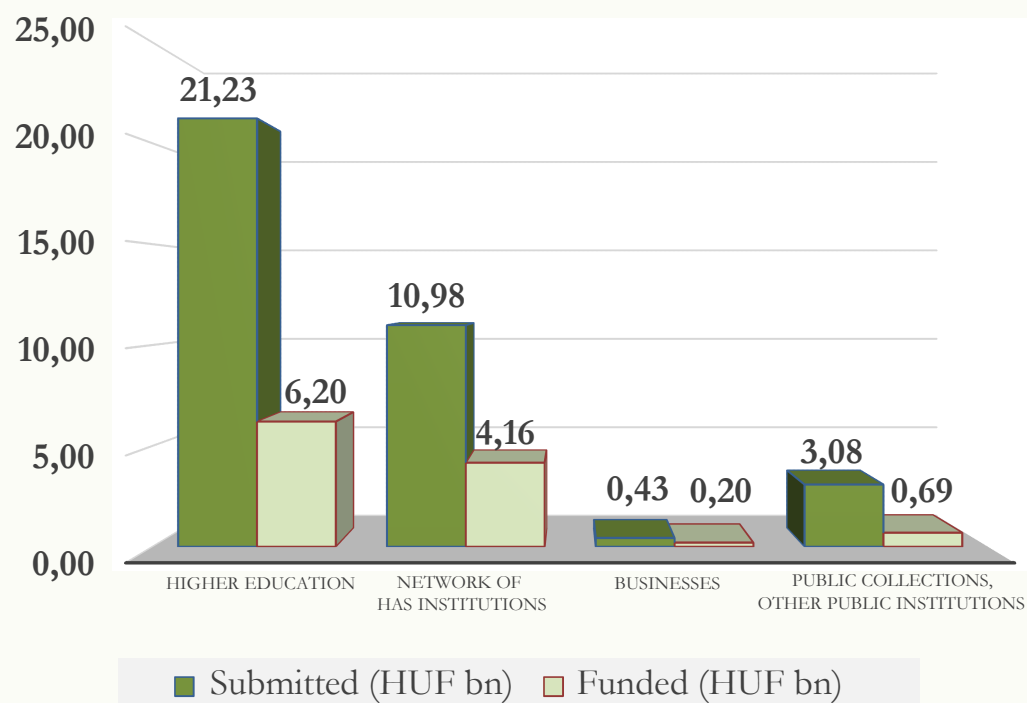
■ Number of submitted project proposals
 ■ Number of funded project proposals



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

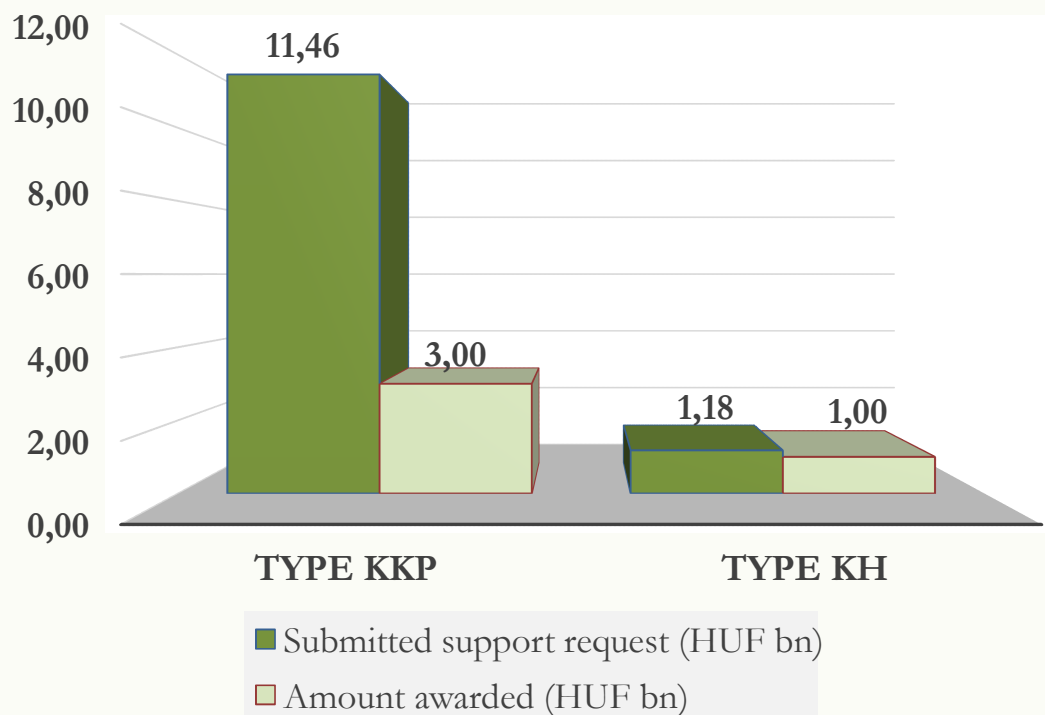
HUF bn



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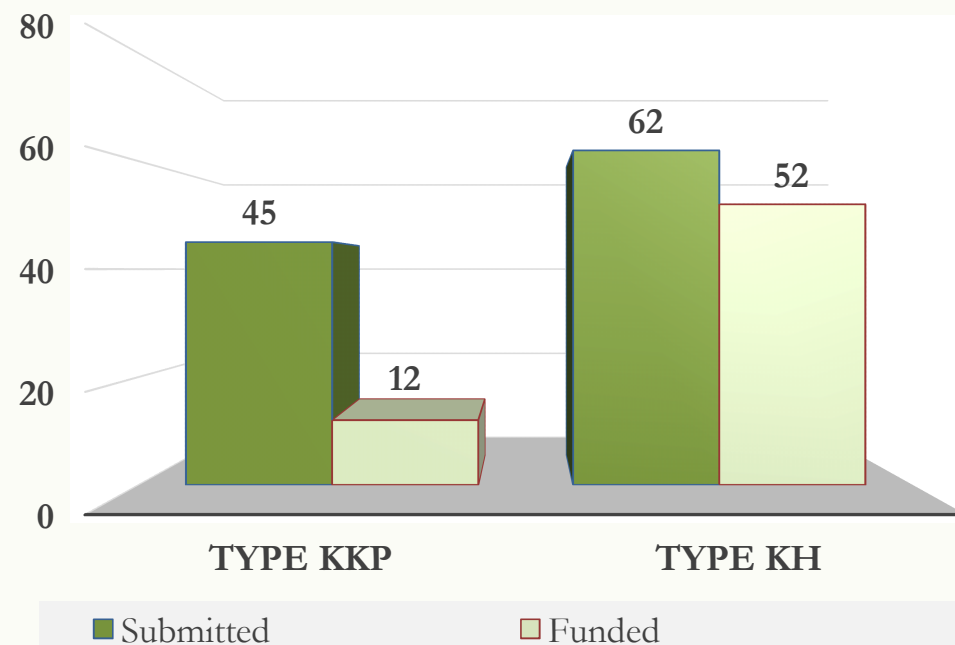
Beneficiaries of the three major calls (K, FK, PD) supporting discovery research in 2017 by type of institution

HUF bn



KKP: “Frontline”

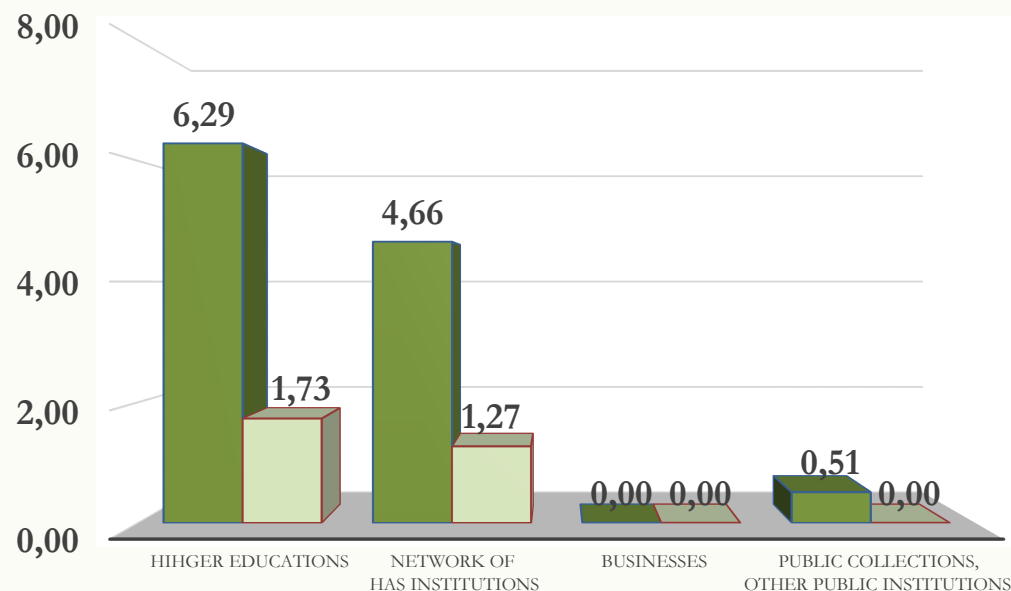
KH: publications with significant international impact



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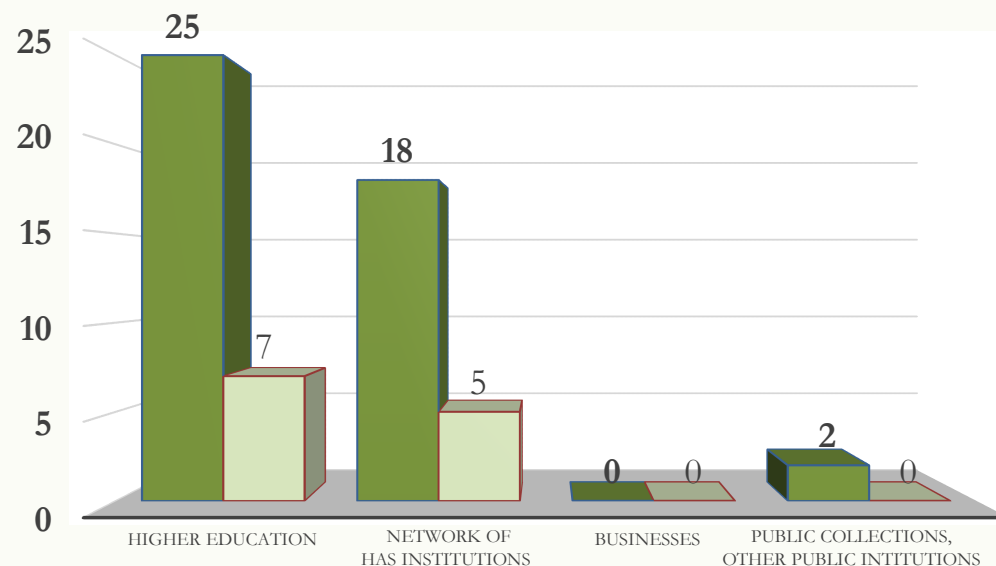
Beneficiaries of the new excellence call supporting discovery research (KKP) in 2017 by type of institution

HUF bn



Submitted (HUF bn) Funded (HUF bn)

“Frontline”



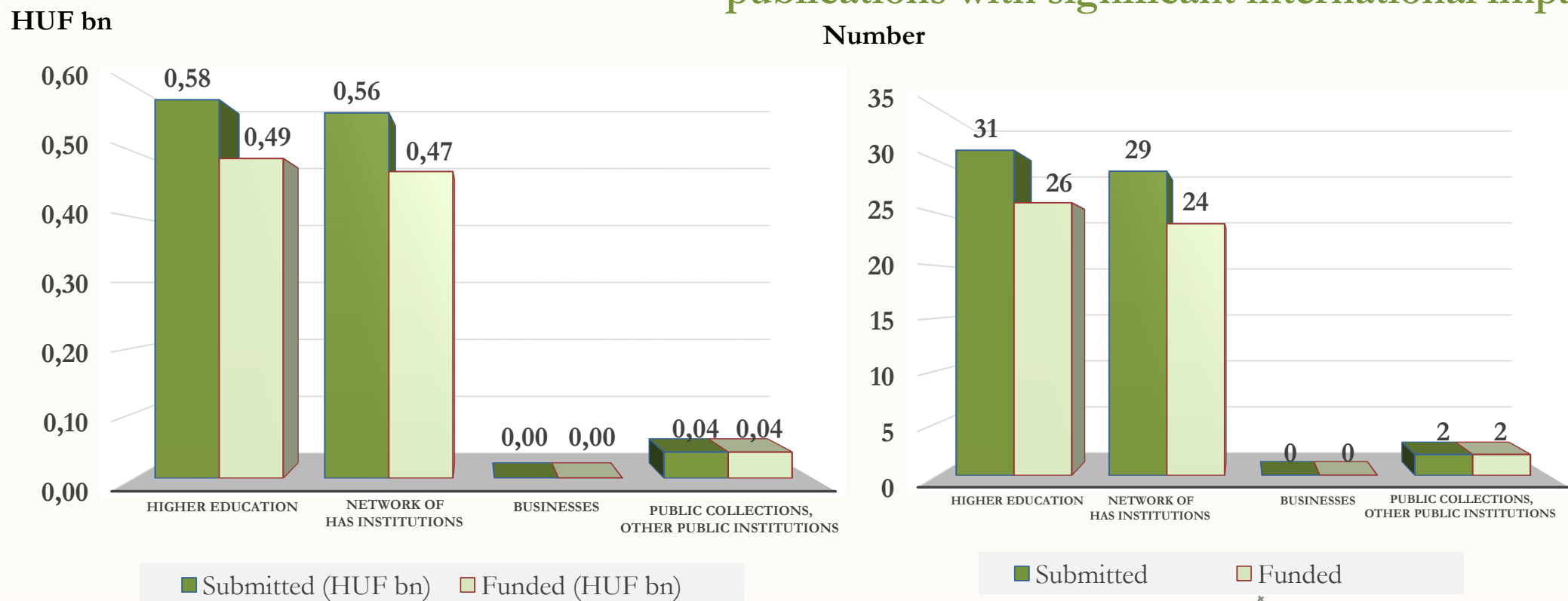
Submitted Funded



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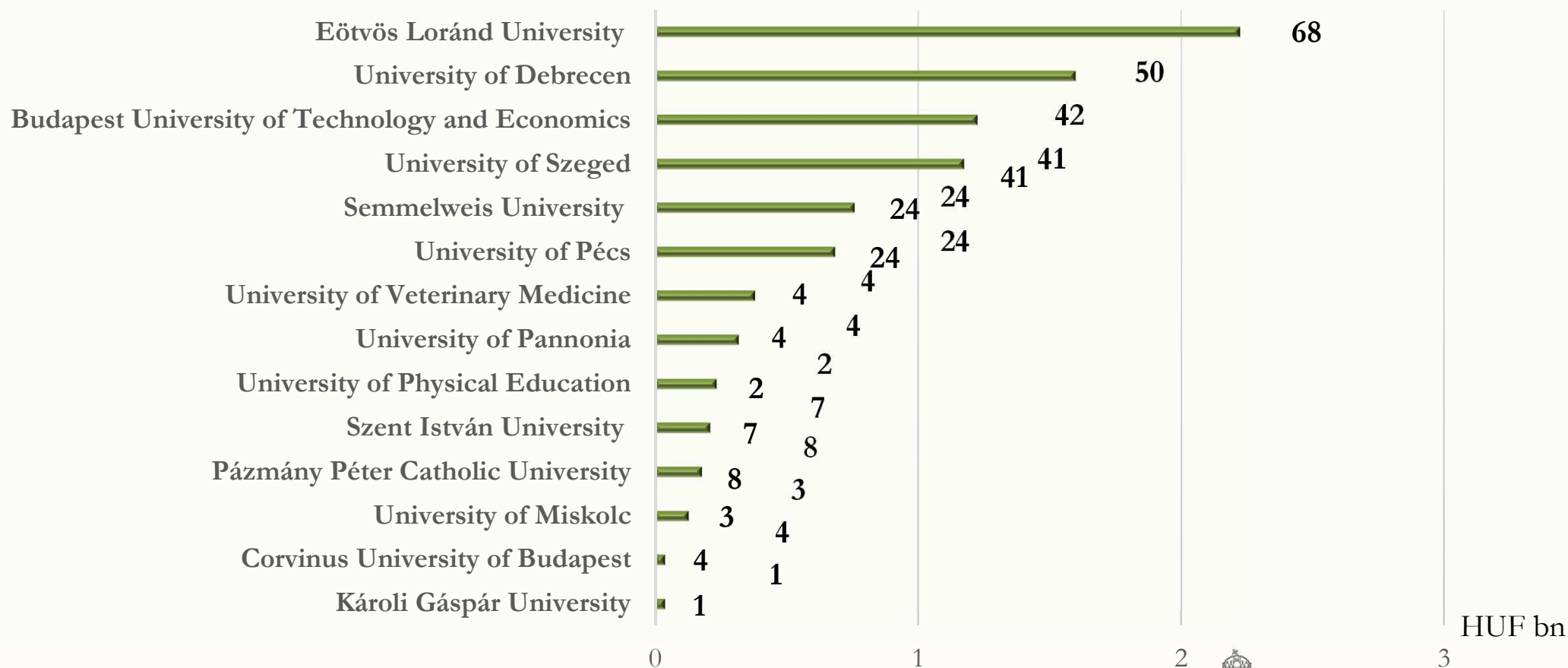
Beneficiaries of the new excellence call (KH) supporting discovery research in 2017 by type of institution

publications with significant international impact

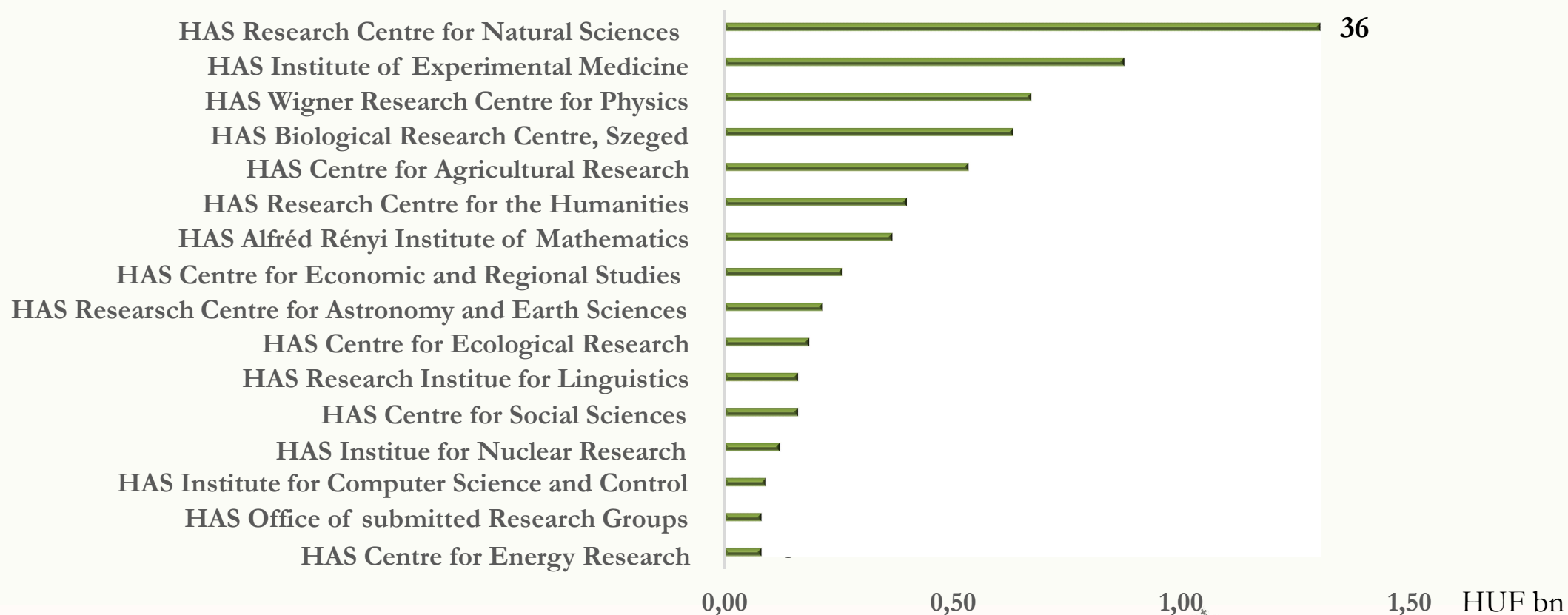


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Awarded projects and funding in discovery research calls in 2017 by higher education institution

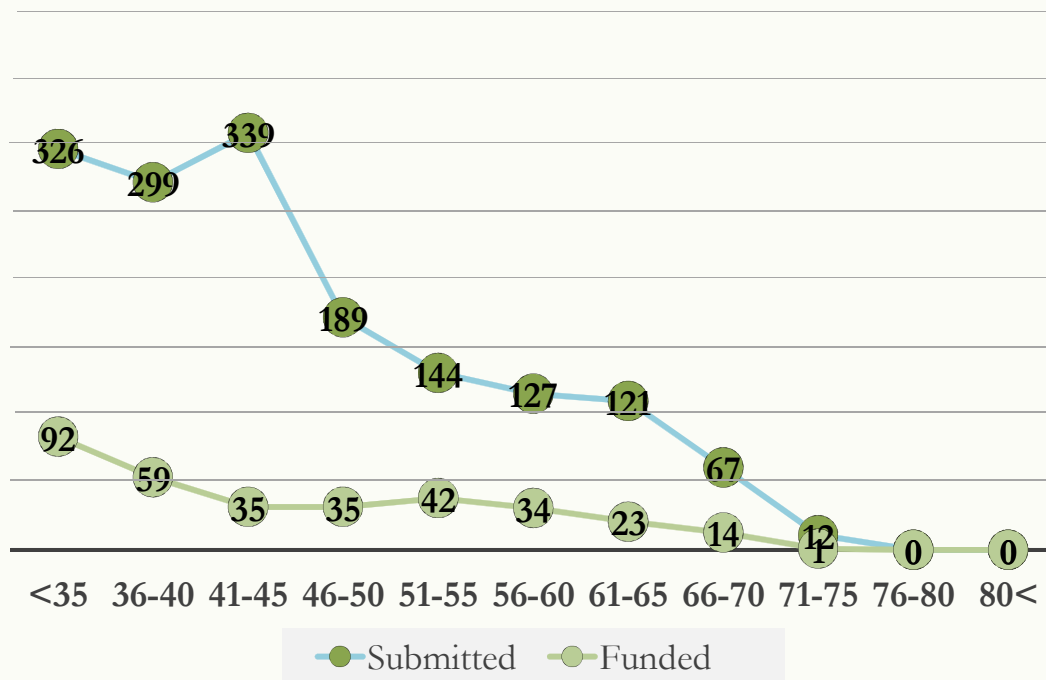


Awarded projects and funding in discovery research calls in 2017 by HAS research institutions

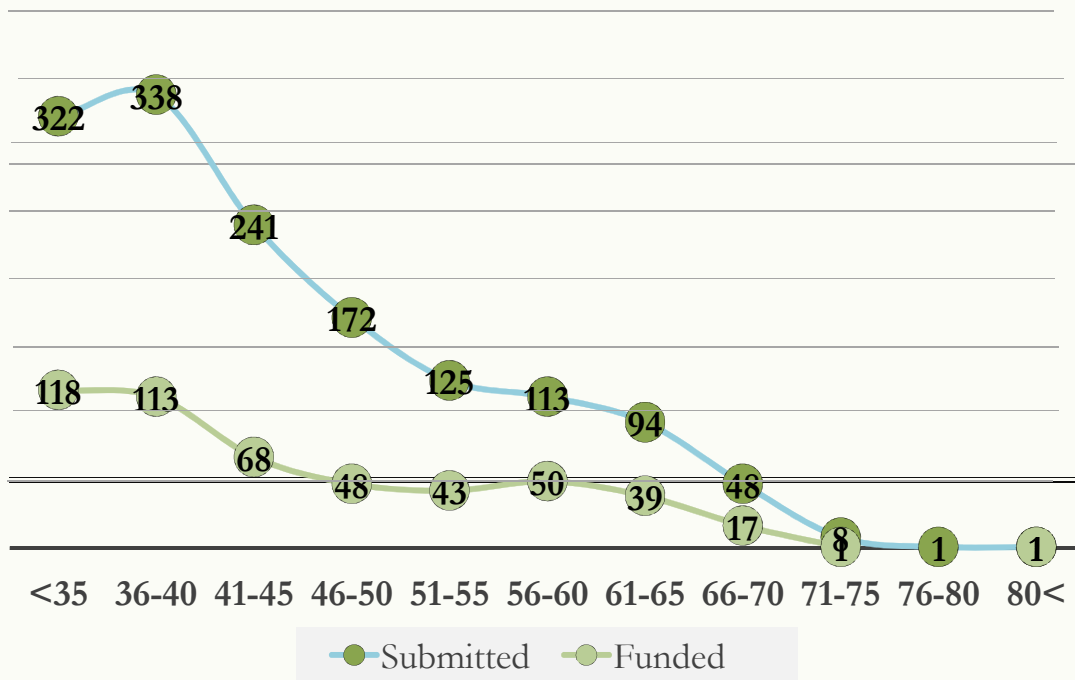


Age of principal investigators in discovery research calls

2016



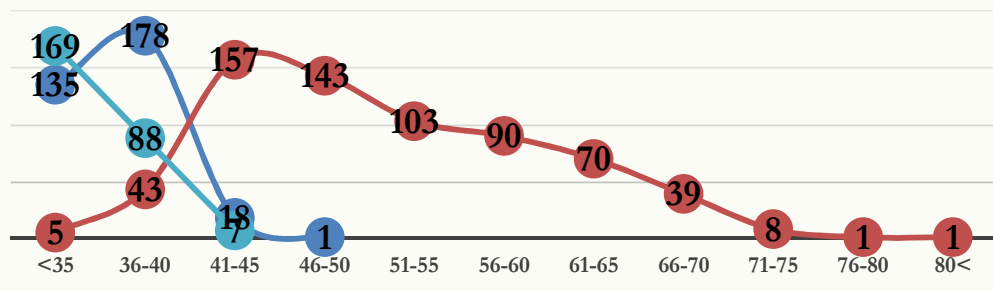
2017



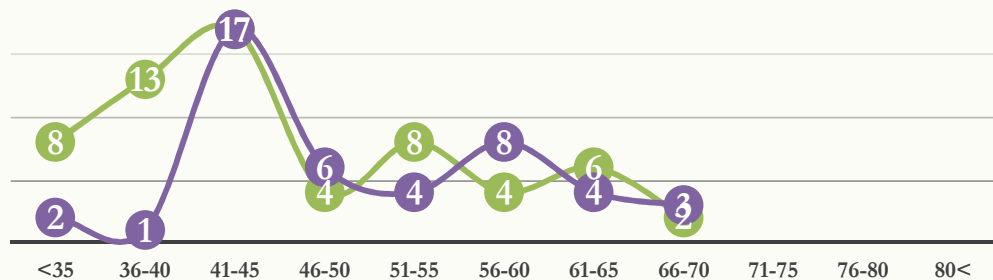
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Age of principal investigators in discovery research calls by call type (2017)

Submitted

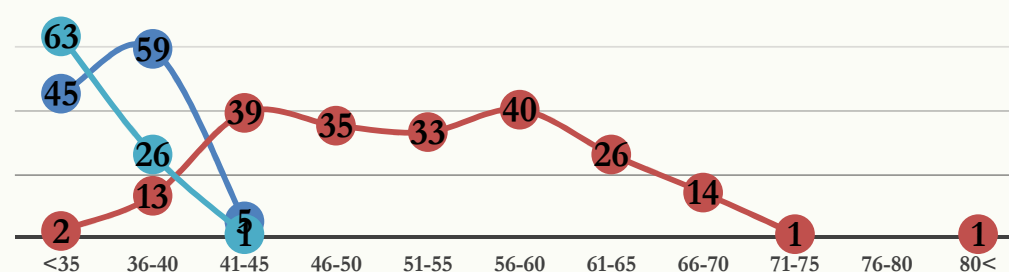


— FK — K — PD

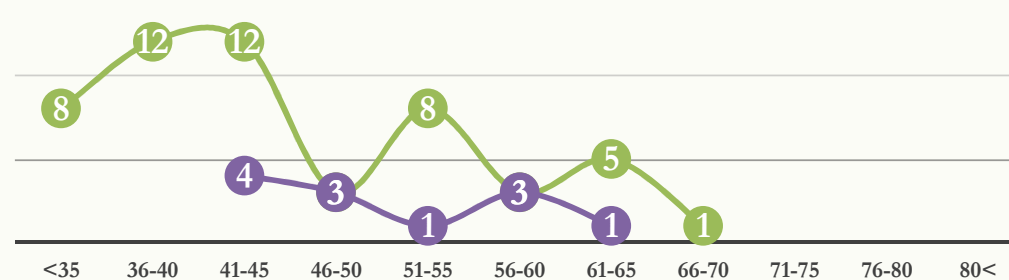


— KH — KKP

Funded



— FK — K — PD



— KH — KKP



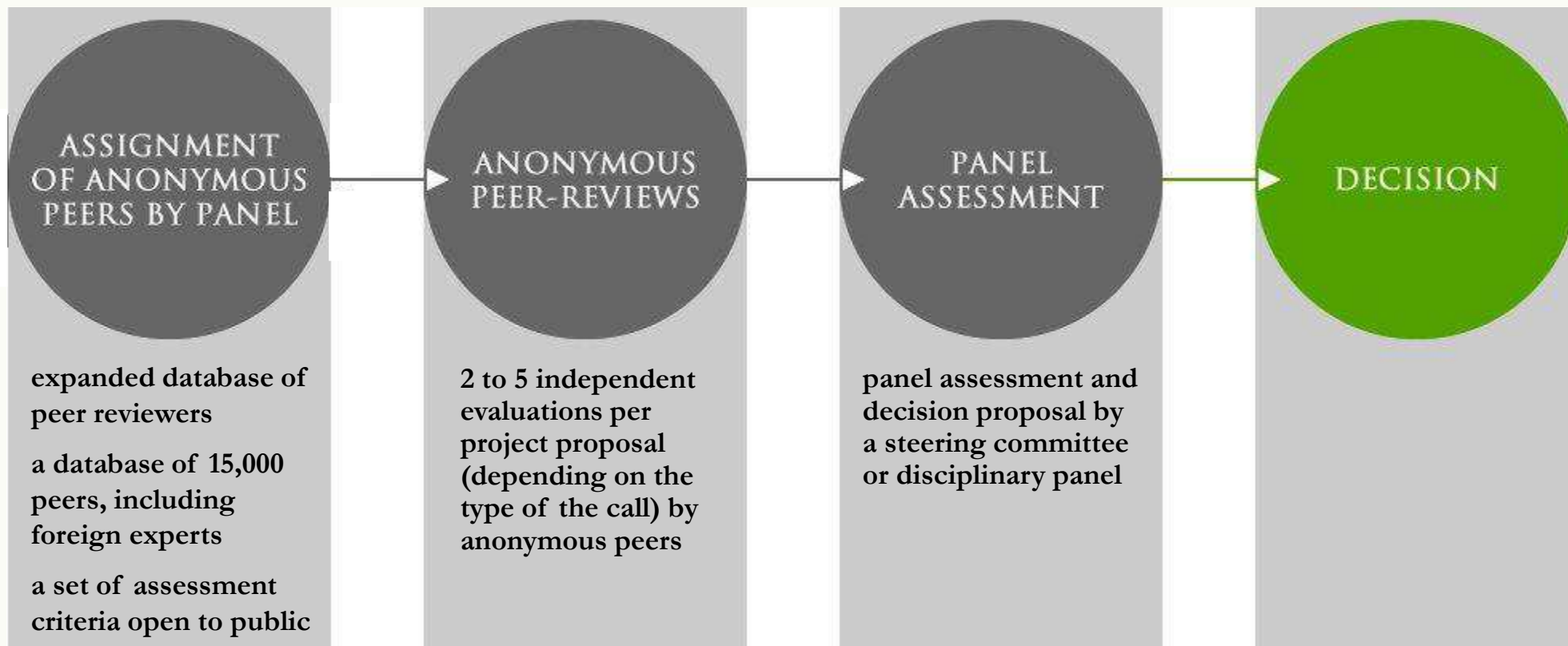
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ASSESSMENT



Evaluation system of RDI projects



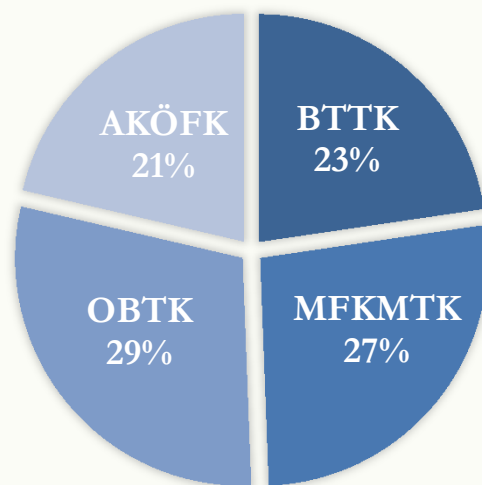
COMPREHENSIVE, MULTI-STAGE EVALUATION PROCESS
TRANSPARENT ASSESSMENT PROCEDURES AND CLEAR SET OF
CRITERIA



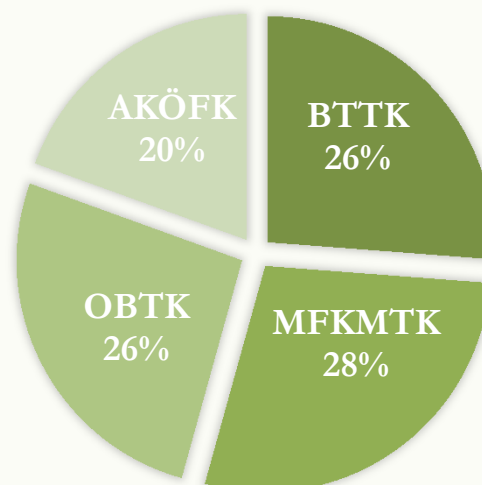
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Project proposals in the three discovery research calls (K, FK, PD) split by the scientific councils (2017)

Number of submitted project proposals:



Number of funded project proposals:



BTK

Council of Humanities and Social Sciences

MFKMTK

Council of Mathematics, Physics, Chemistry, and Engineering

OBTK

Council of Medical and Biological Sciences

AKÖFK

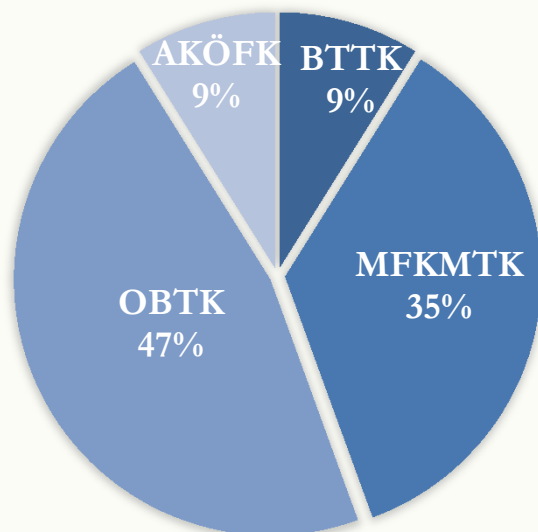
Council of Agricultural, Environmental, Ecological and Earth Sciences



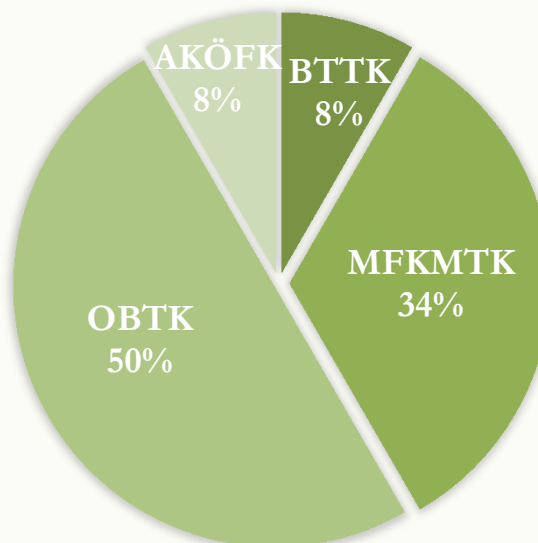
Project proposals of the KKP excellence call split by the four scientific councils (2017)

“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

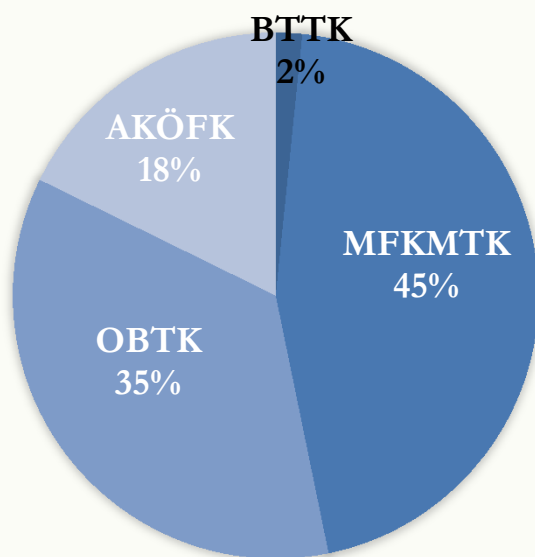


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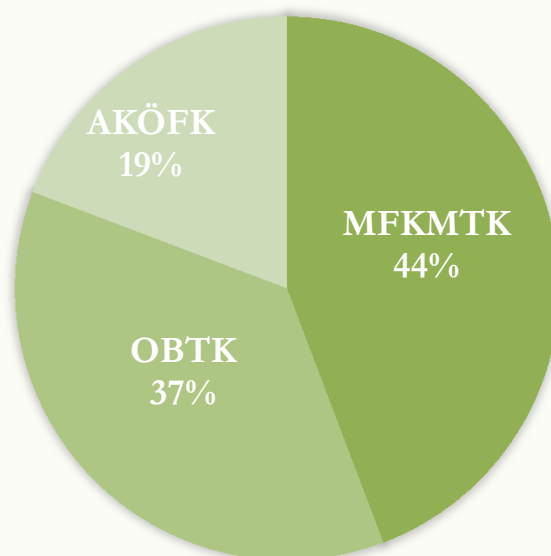
Project proposals of the KH excellence call split by the four scientific councils (2017)

publications with significant international impact

Number of submitted project proposals:



Number of funded project proposals:



BTKK

Council of Humanities and Social Sciences

MFKMTK

Council of Mathematics, Physics, Chemistry, and Engineering

OBTK

Council of Medical and Biological Sciences

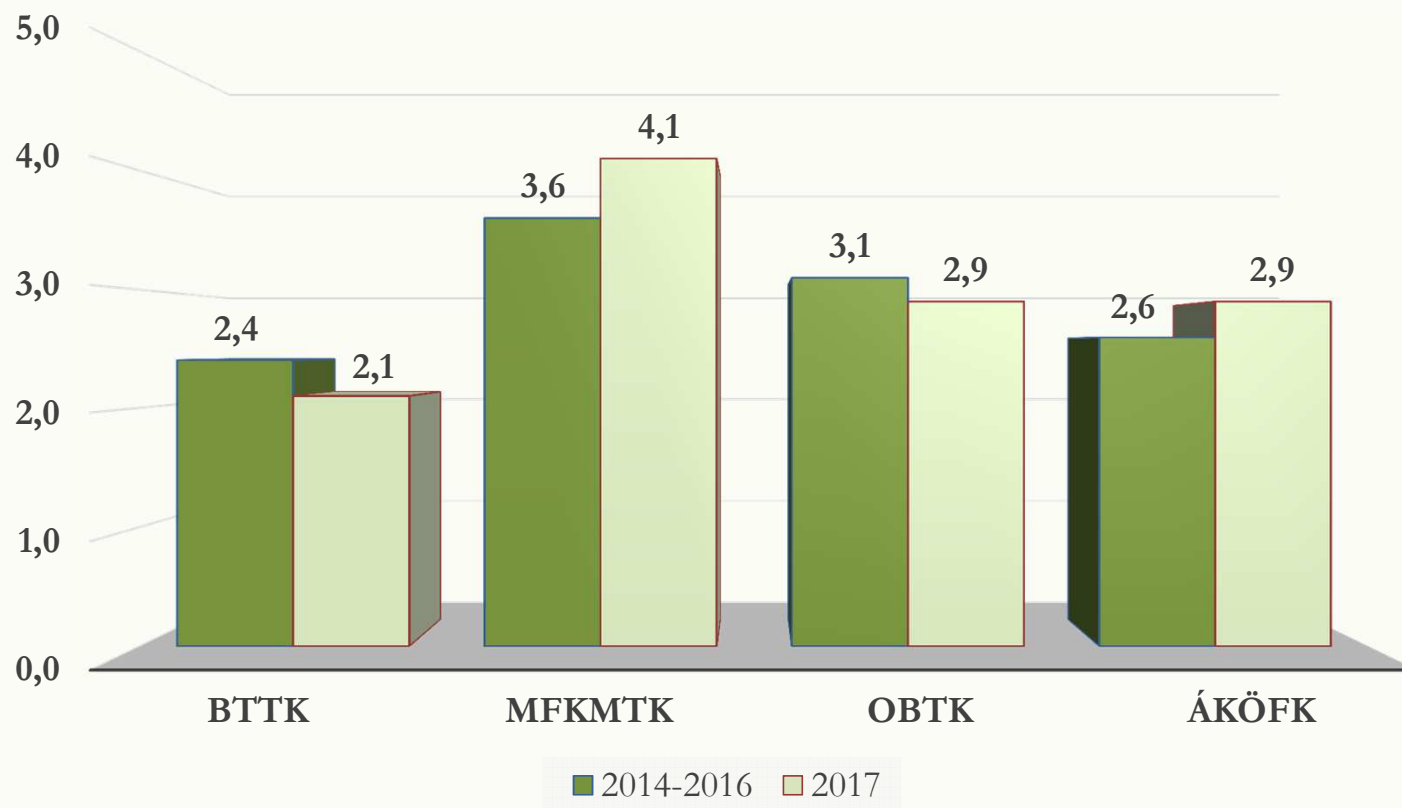
AKÖFK

Council of Agricultural, Environmental, Ecological and Earth Sciences



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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

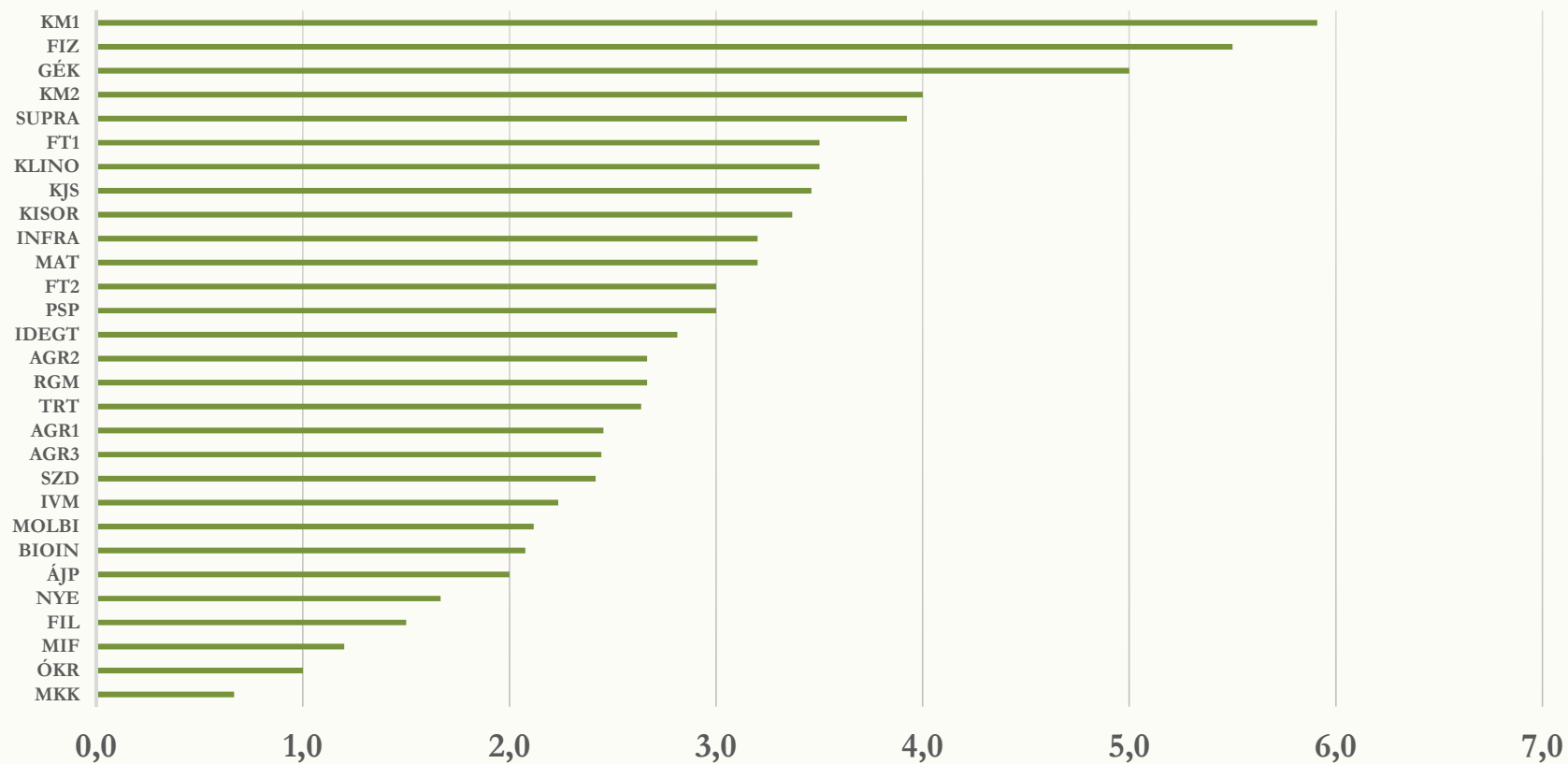
AKÖFK

Council of Agricultural, Environmental, Ecological and Earth Sciences

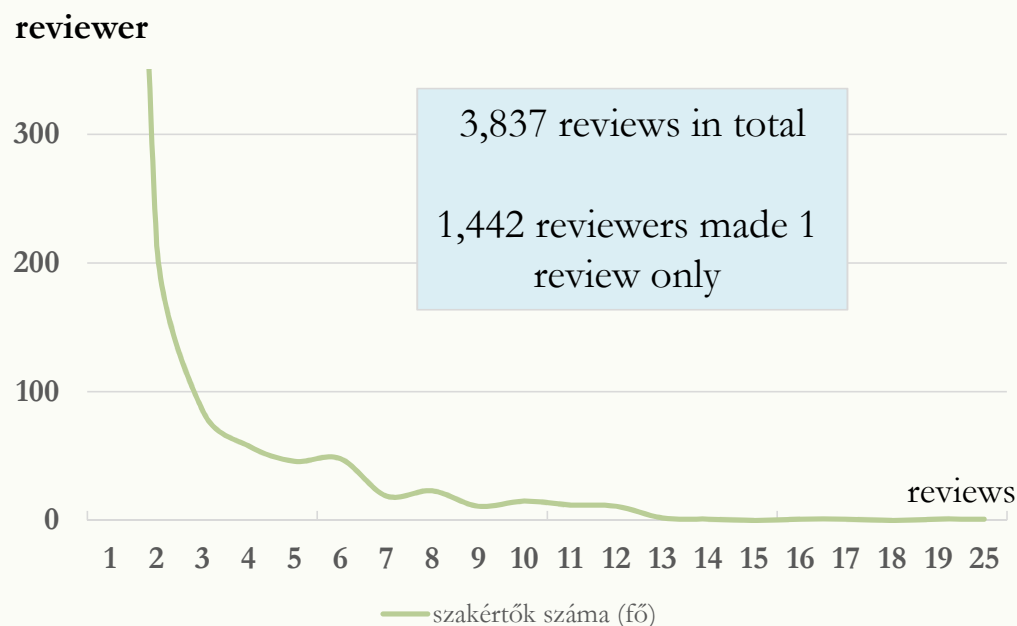


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Researcher-initiated proposals (K, FK) per panel member submitted to the disciplinary panels in 2017



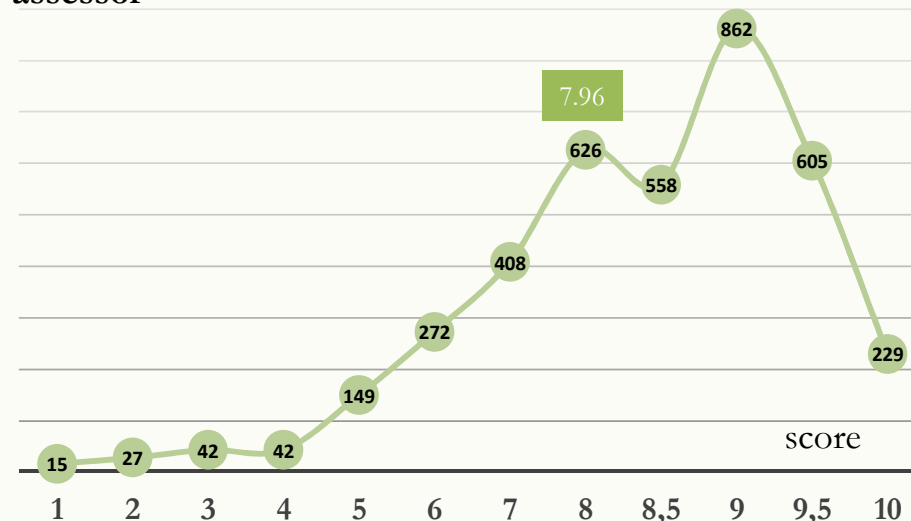
Anonymous peer reviewers and their scores in the K_17, FK_17 and PD_17 calls



Percentage of rejected assignments

2015 – 58%
2016 – 46%
2017 – 51%

assessor

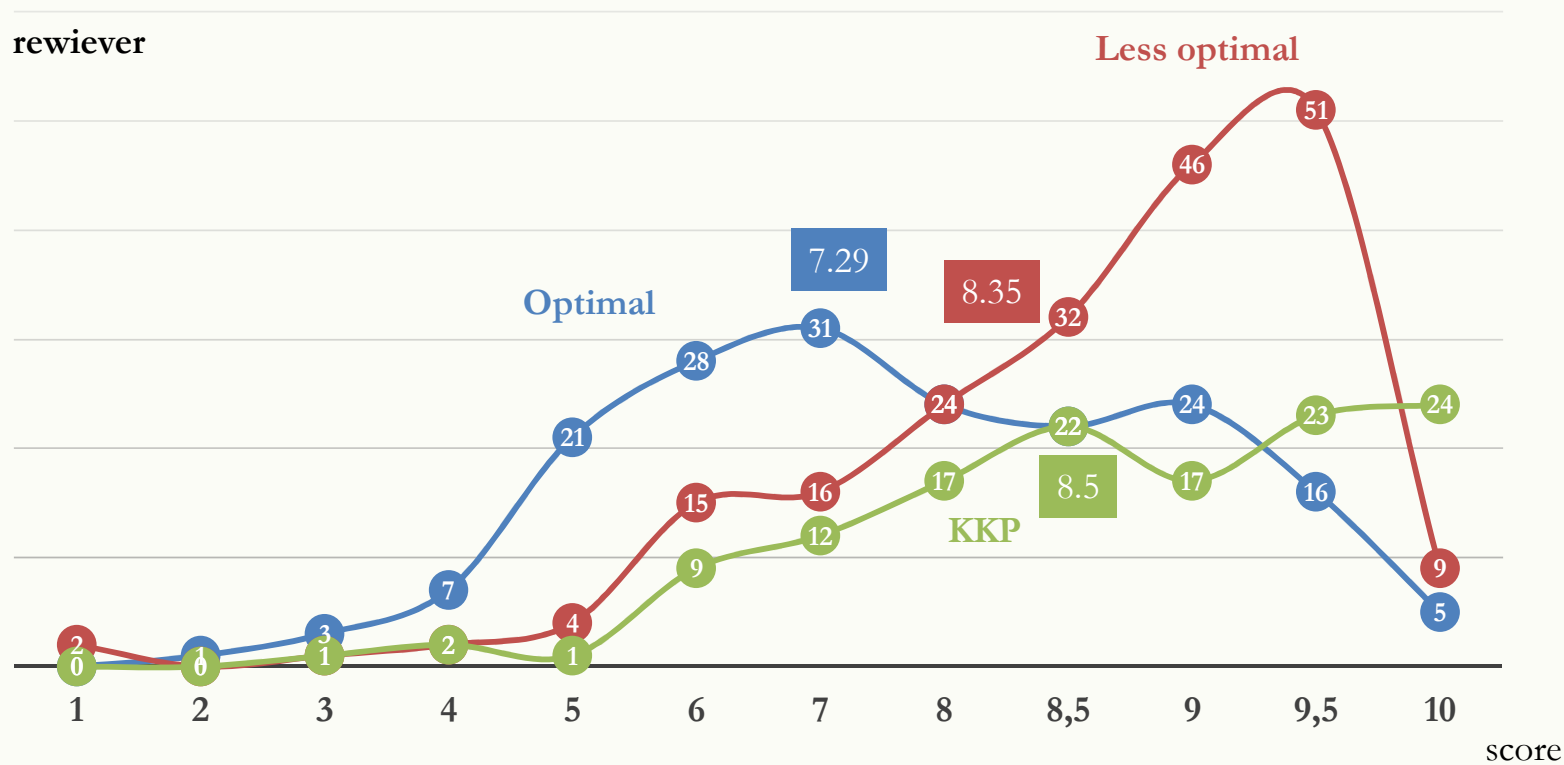


Internationally good, with some shortcomings. (8)
Internationally very good, with some shortcomings. (8.5)
Internationally very good, results may have a substantial impact. (9)
Internationally excellent with respect to most criteria (9.5)
Outstanding proposal with respect to all criteria (10)

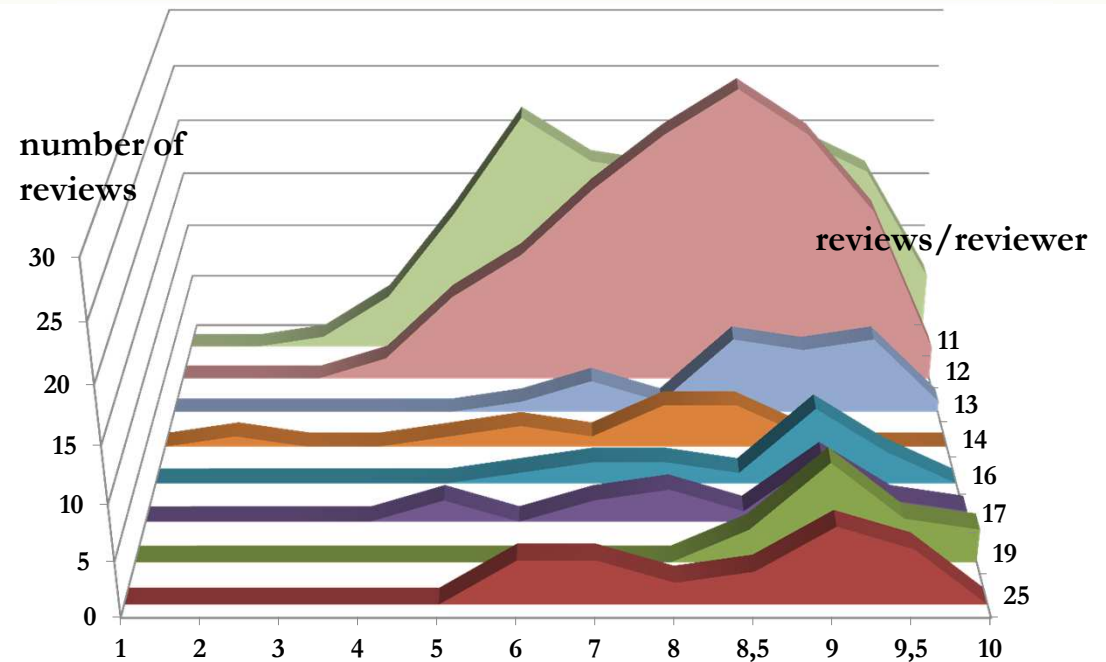
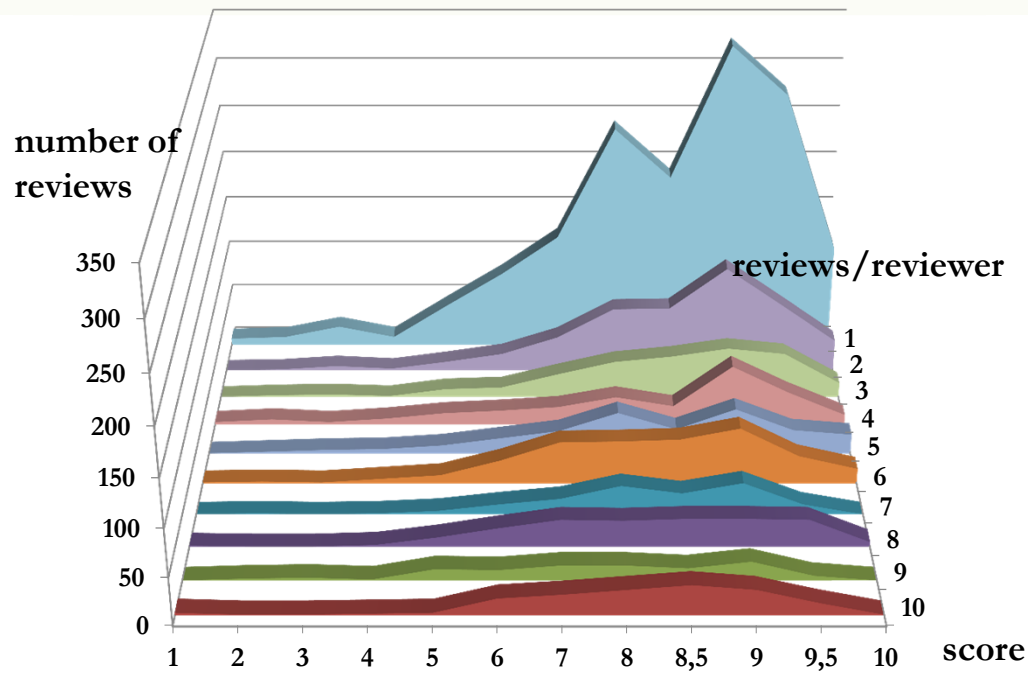


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Scores of project proposals in three different expert panels (2017)



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



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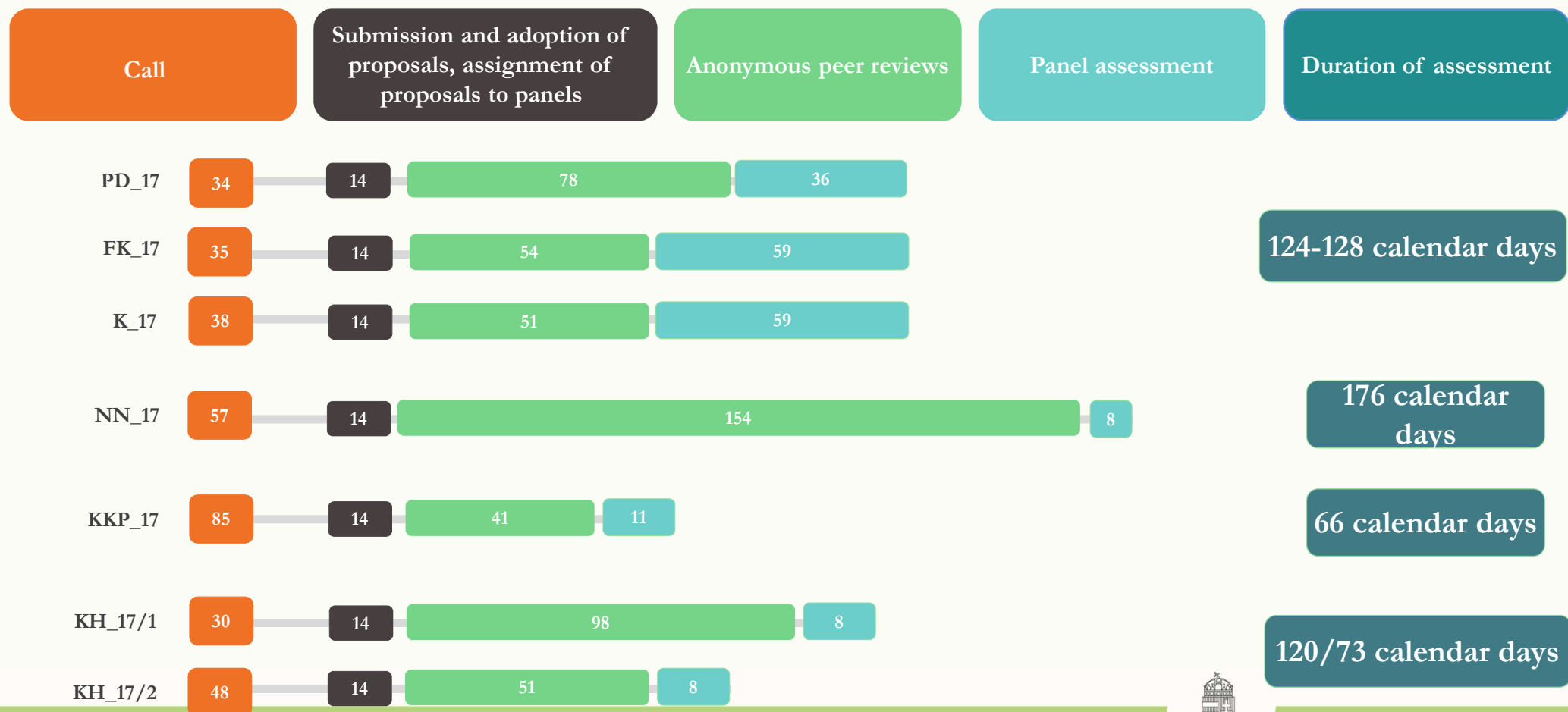
Guide to high quality assessment

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 NRDl 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 (TARS)
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)

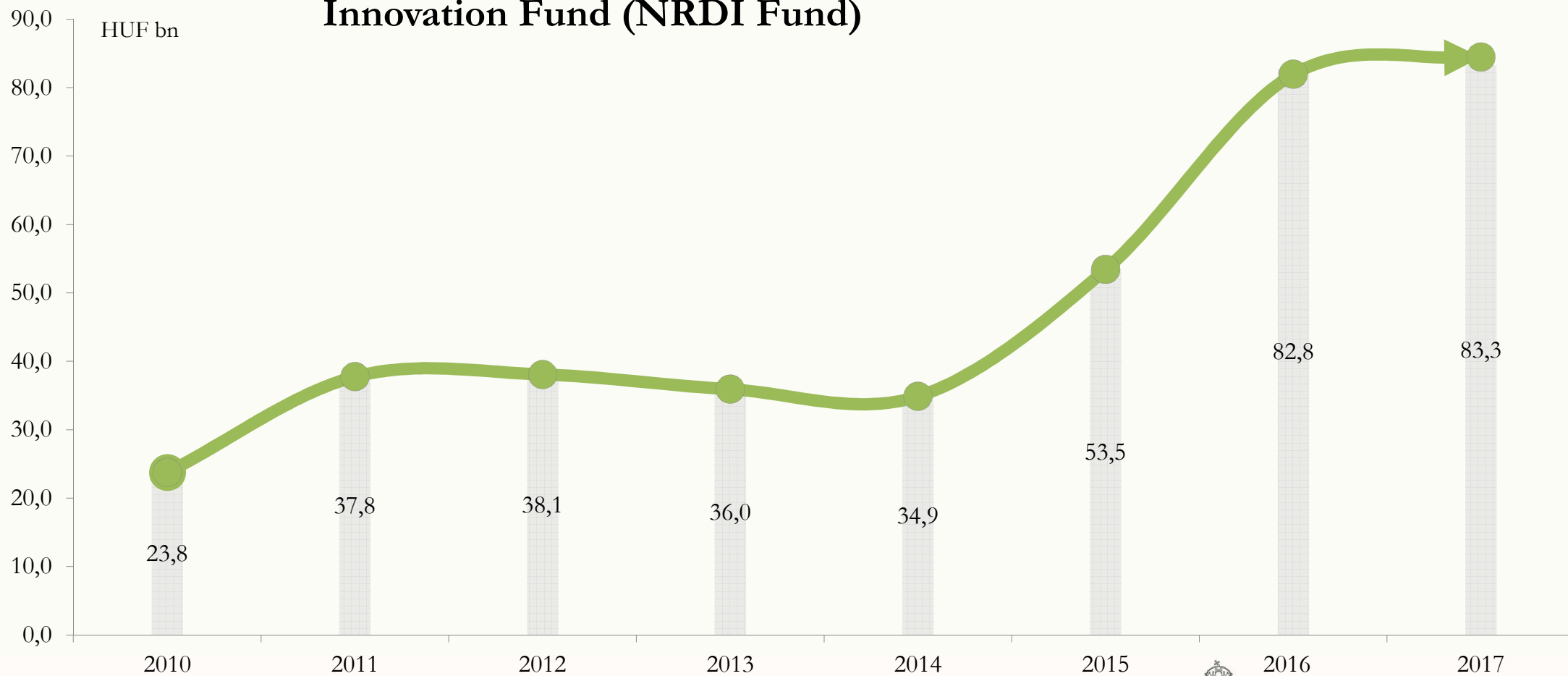




NRDI FUND (2017) ACHIEVEMENTS

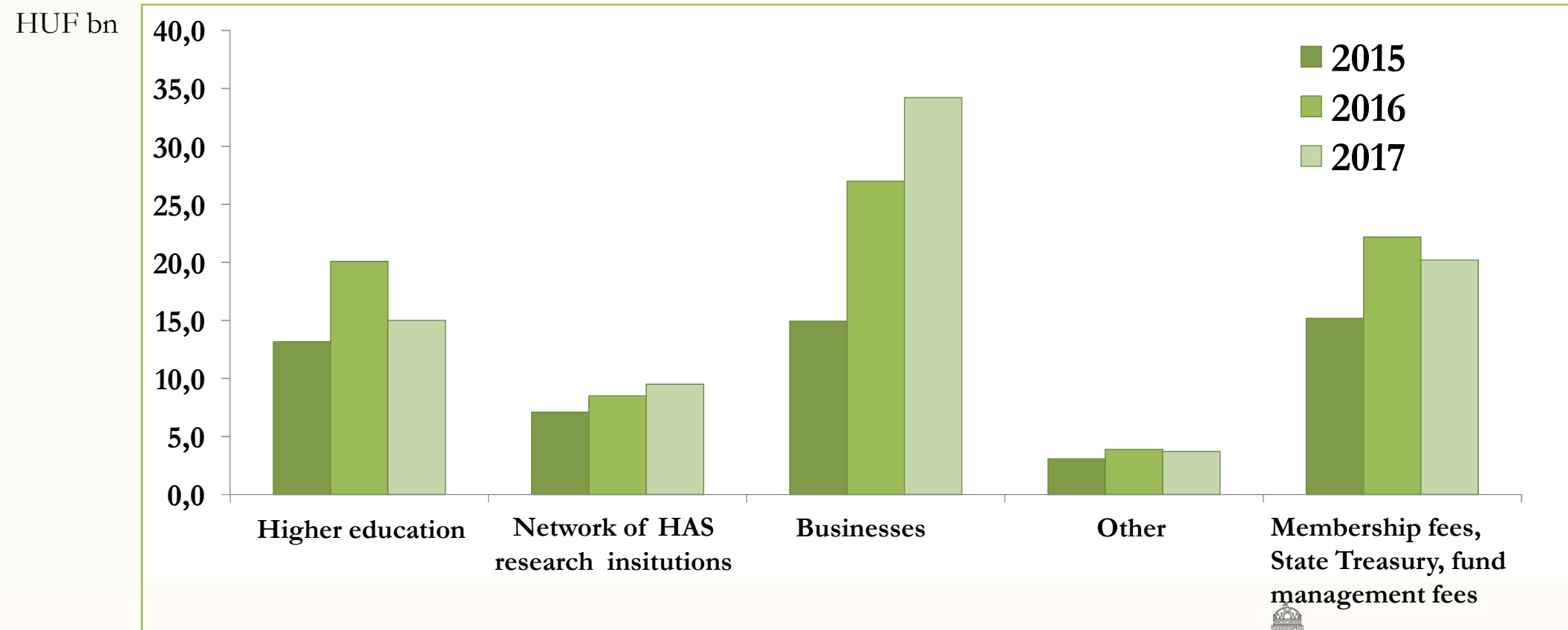


Funding disbursed from the National Research, Development and Innovation Fund (NRDI Fund)

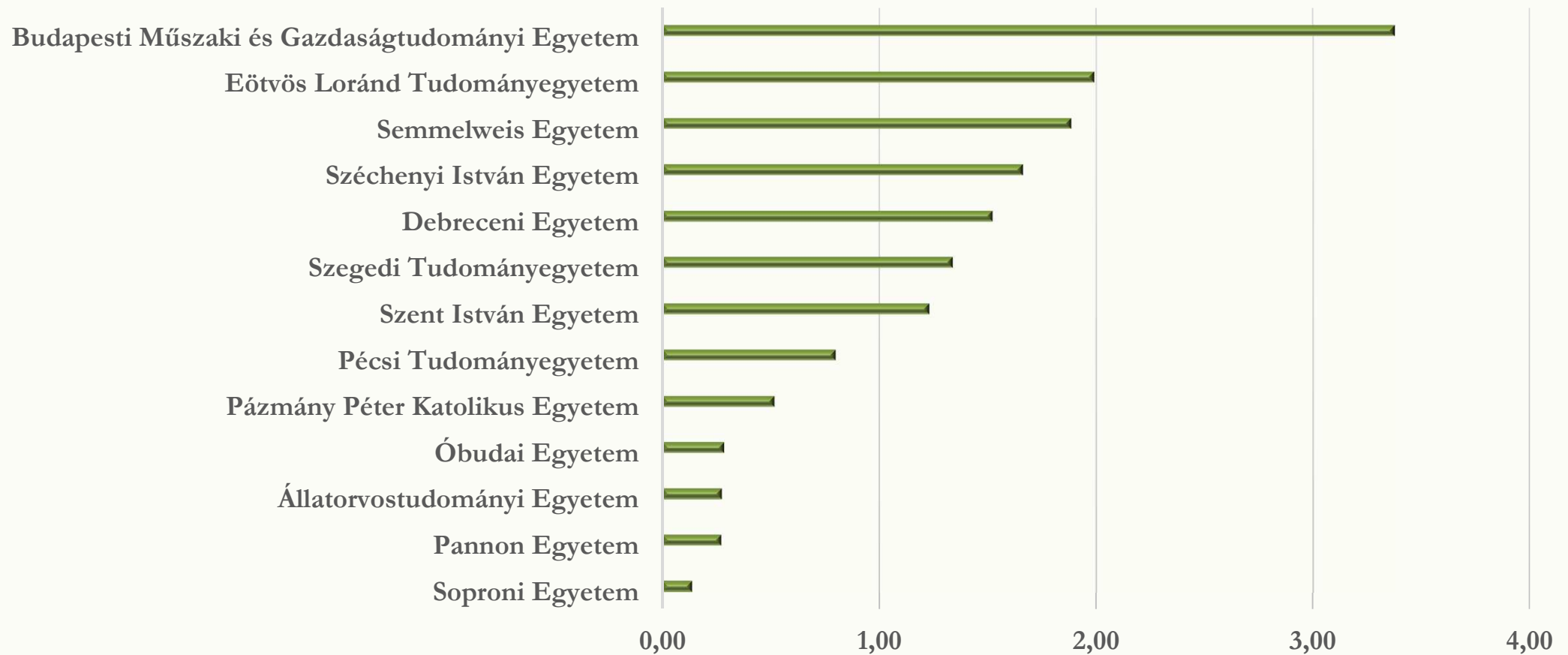


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Beneficiary target groups of the NRDIFund in 2017



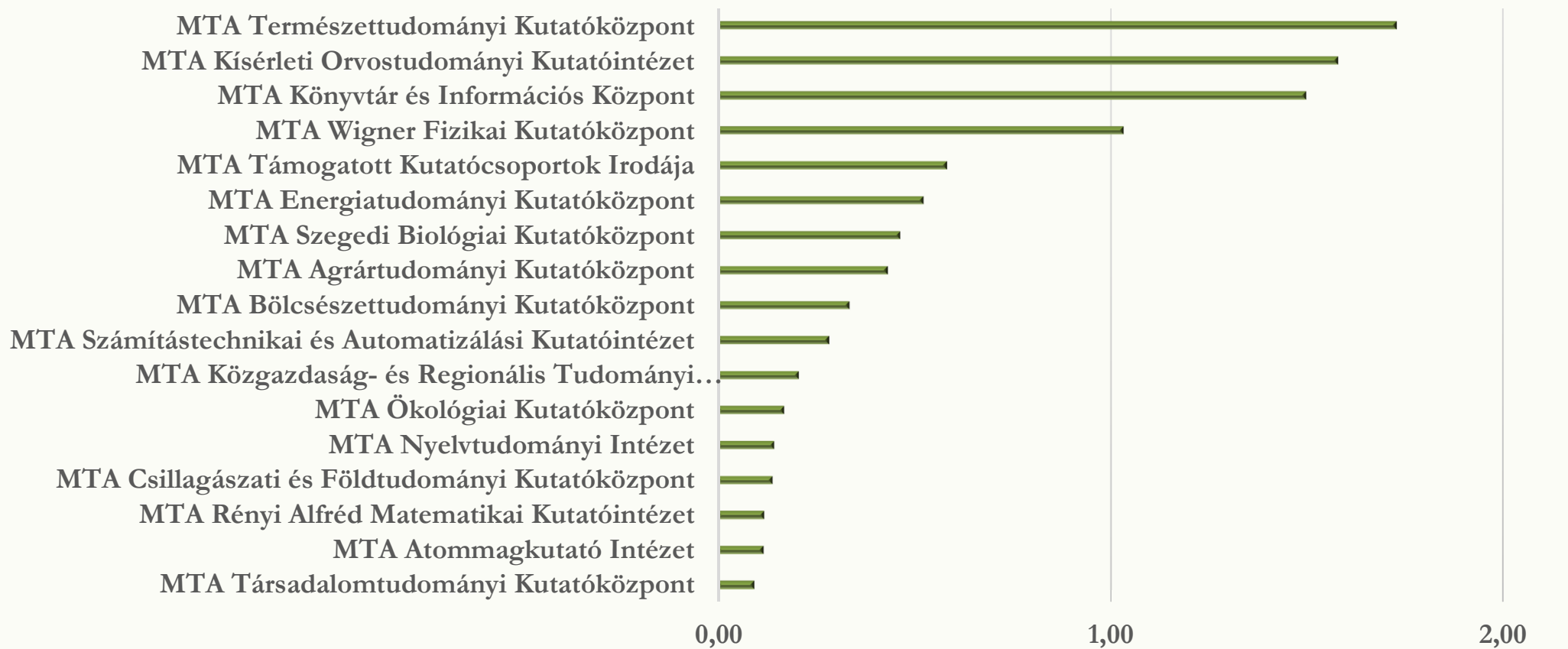
Funding to higher education from the NRDI Fund in 2017



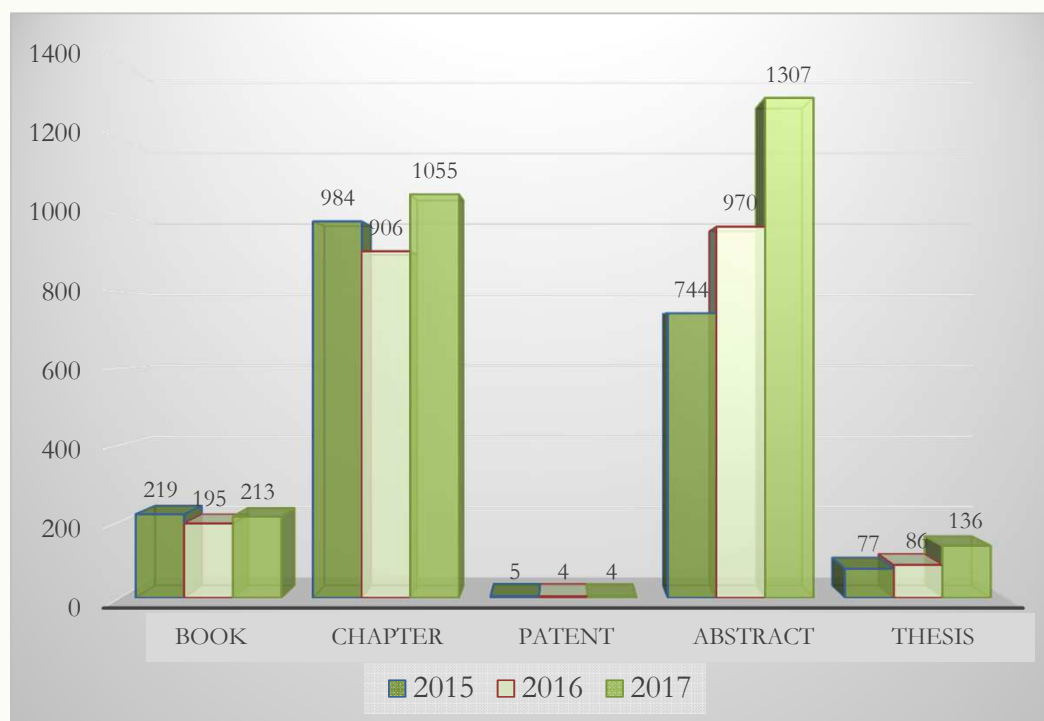
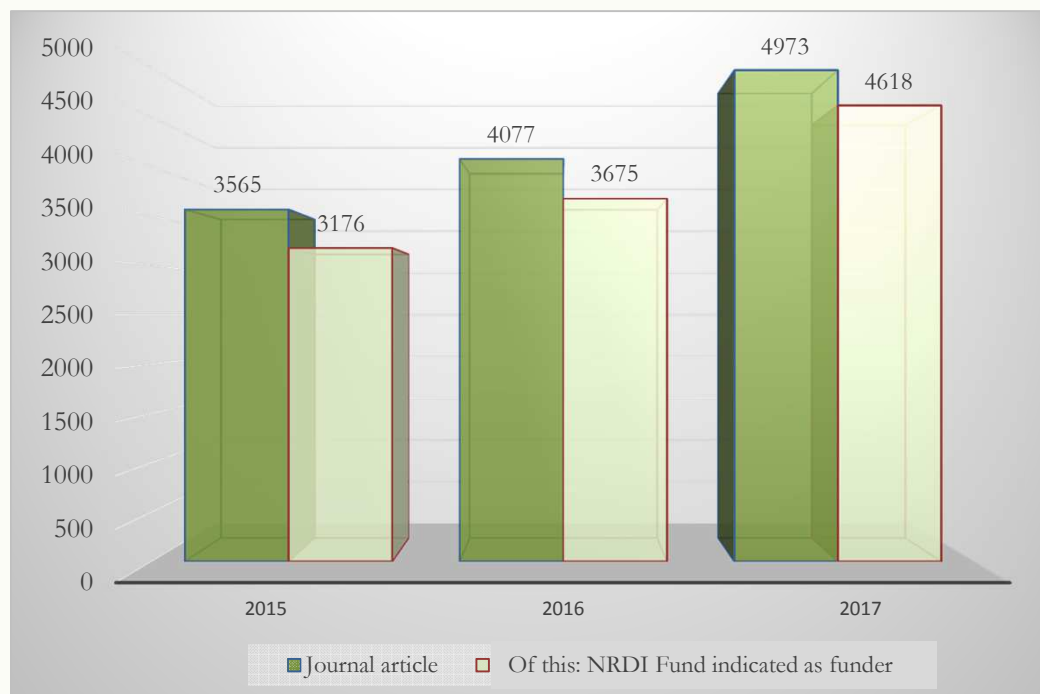
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HUF
bn

Funding to research centres from the NRDI Fund in 2017



Scientific performance of projects closed between 2015 and 2017



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



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MOMENTUM OF INNOVATION



CALL FOR PROPOSALS (2018)



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



www.nkfi.gov.hu



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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



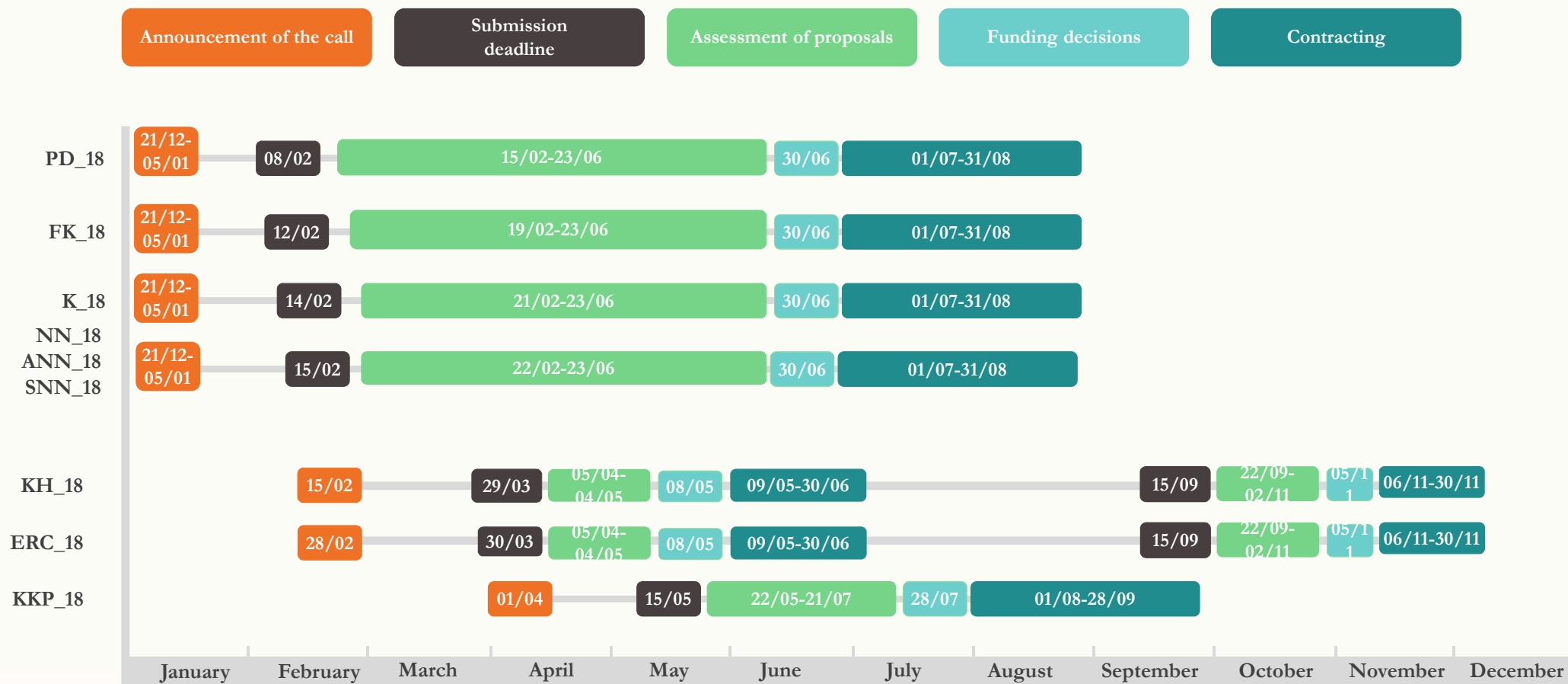
2018 discovery research calls – main changes

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

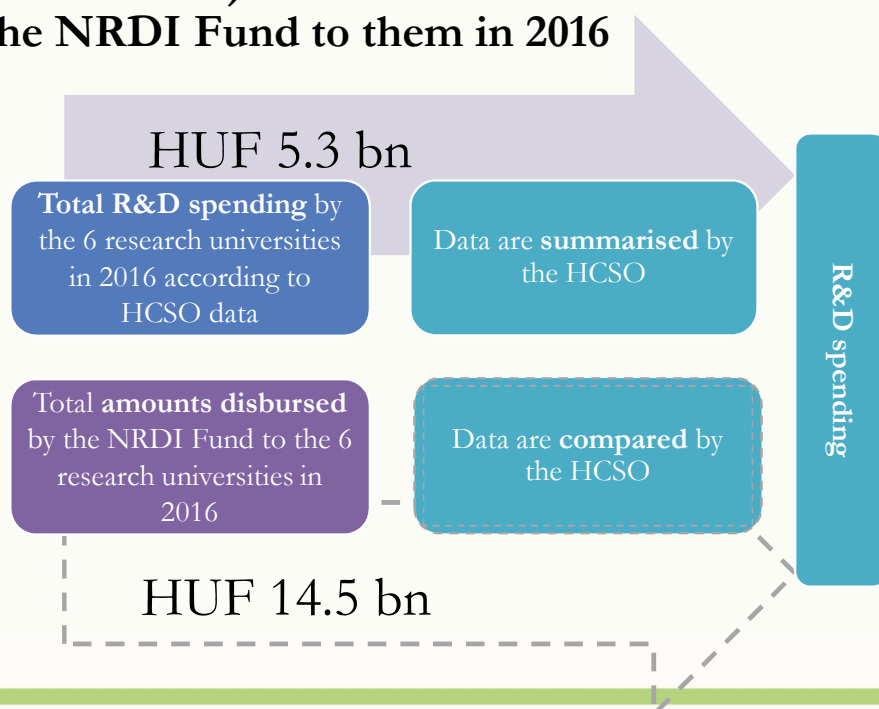


Assessment process of the 2018 discovery research calls



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)



“leader”

conference

“science only”

WoS, Scopus

IF

Peer-review

“manager”

Google Scholar

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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