



# ICPF Status Report 2024





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1. Economic situation and outlook
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4. Management, Strategy & Development



# Economic situation and outlook



# Economic status

- Non-investment institutional support 2024 – CZK 99.778 million CZK (increase in 2023/2024 approx. 2.0%).
- This includes an amount of CZK 1.161 million. The increase in energy prices → an actual increase of CZK 0.796 million.
- Salary costs 2023 – CZK 132.0 million CZK (decrease by approx. 6% compared to 2022).
- Average salary costs per person per year (according to 2023) – 916 thousand. CZK (an increase of about 9.5% compared to 2021).
- FTE average 2021 – 171.1; 2022 – 159.5, 2023 – 143.5, beginning 2024 – 141.9.
- Revenues from contract research and service activities CZK 7.1 million CZK → profit approx. 4 million CZK\*.

(mil. CZK)	2021	2022	2023	2024	2025	2026
<b>TA ČR</b>	38,687	32,974	41,842	31,383	31,321	23,110
<b>MŠMT</b>	13,415	11,171	9,390	7,626	7,508	7,320
<b>GA ČR</b>	23,838	16,456	10,257	14,810	13,091	6,341
<b>MPO</b>	0,950	0,900	-	-	-	-
<b>MV</b>	4,018	4,056	2,605	2,605	2,616	-
<b>MZe</b>	1,525	1,525	1,250	-	-	-
<b>MK</b>	2,296	2,152	2,004	1,432	1,432	1,436
<b>Sum</b>	<b>84,729</b>	<b>69,234</b>	<b>67,348</b>	<b>57,856</b>	<b>55,968</b>	<b>38,207</b>

- \*due to change of one contract it lower than mentioned

# Economic Status – Estimate 2024



(in mil. CZK)	2022	2023	2024
Institutional support	95.7	99.8	103.0
Projects/grants	72.2	69.8	62.0
<b>Sum</b>	<b>167.9</b>	<b>169.6</b>	<b>165.0</b>
Salary costs	139.8	132.0	135.0
Overheads	25.5	26.0	25.5
Research groups budget	1.4	10.4	10.2
<b>Sum</b>	<b>166.7</b>	<b>168.6</b>	<b>170.7</b>
<b>FTE</b>	<b>159.5</b>	<b>143.5</b>	<b>143.0</b>

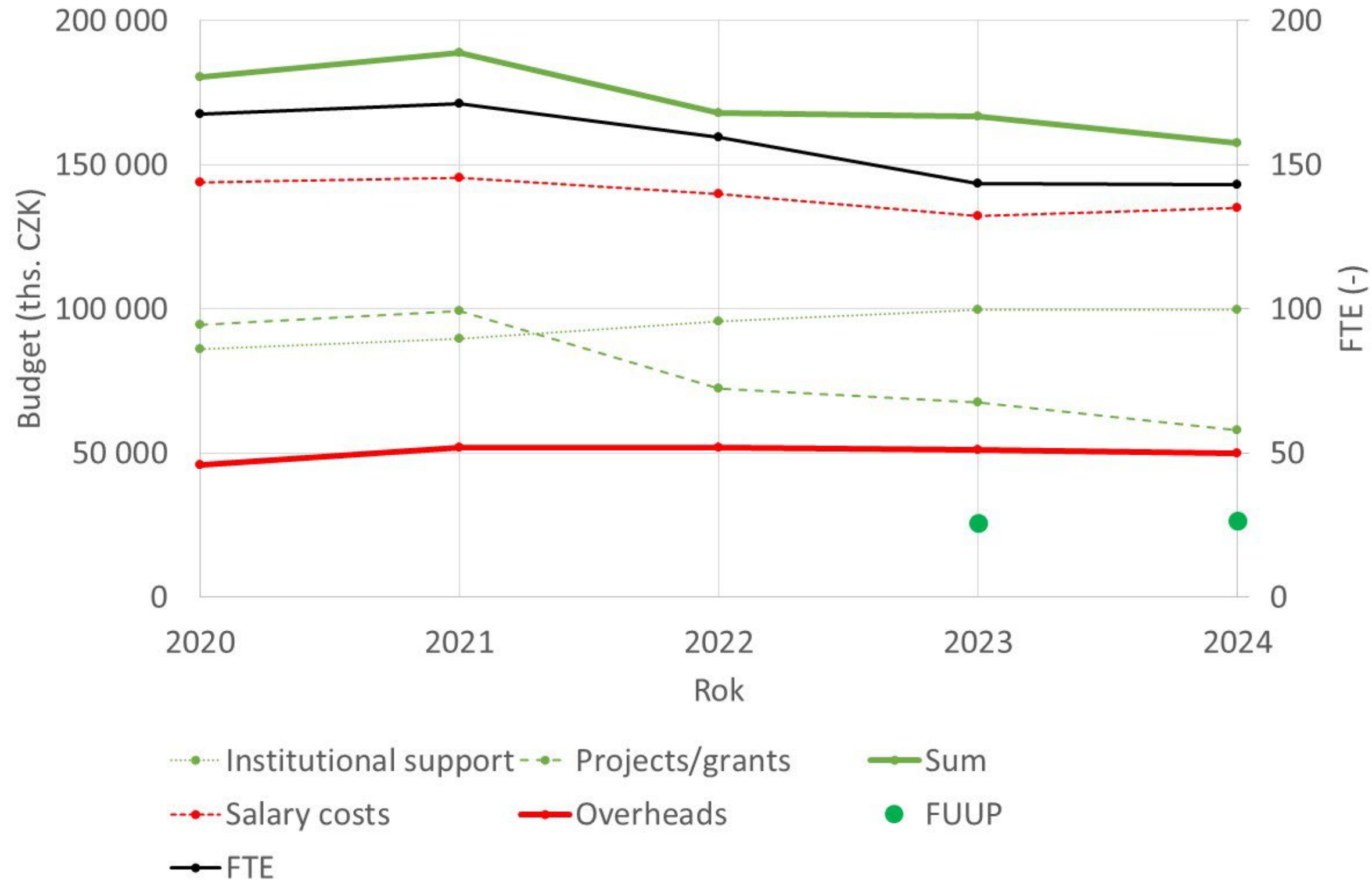


# Economic Status – Most Significant Overhead Costs for 2023

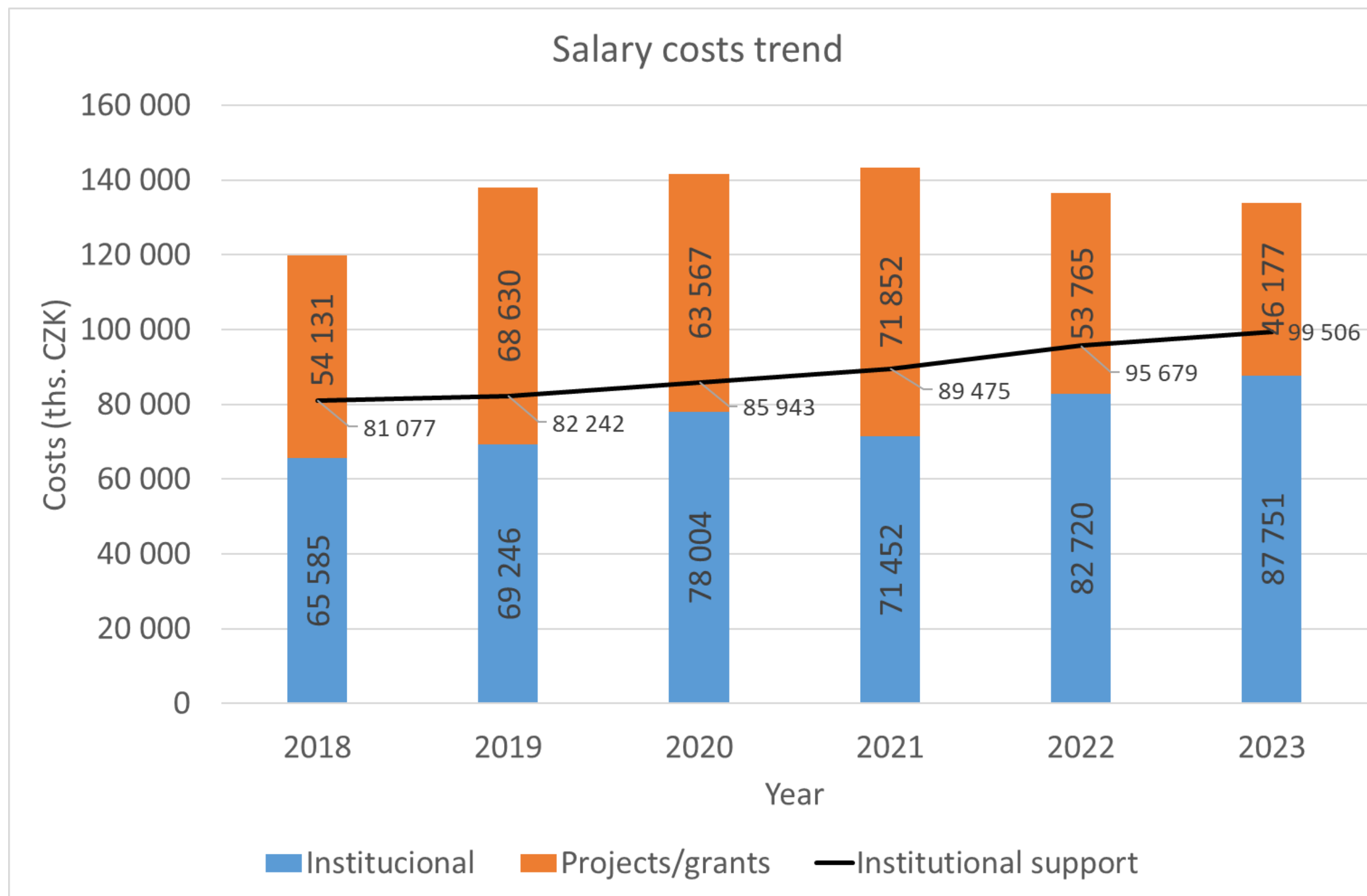
- Energy – approx. 9 million CZK.
- Costs of literature, WOS, ACS, etc. – approx. 1.7 million CZK.
- Security of the area – approx. 1.3 million CZK.
- Cleaning – approx. 0.7 million CZK.
- Mandatory inspections and service – approx. 1.2 million CZK.
- Allowance for lunches – approx. 1.5 million CZK.
- IT infrastructure (SW/HW) – approx. 0.7 million CZK.
- Participation in projects – approx. 2 million CZK.



# Economic Outlook and the Past - Trend



# Development of salary costs







# Development of labour costs

	2022	2023	change
Average super gross salary per person per month	69 709 Kč	76 319 Kč	109%
Average gross salary per person per month	51 386 Kč	56 311 Kč	110%
	Average salary		
CATEGORY	2022	2023	
Ing at research	39 204 Kč	44 273 Kč	113%
Ing at administrative	56 992 Kč	62 140 Kč	109%
High school at research	36 399 Kč	38 768 Kč	107%
Doctorand	39 185 Kč	41 596 Kč	106%
Postdoc	55 922 Kč	61 063 Kč	109%
Research assistant	40 970 Kč	50 212 Kč	123%
Researcher	58 308 Kč	63 404 Kč	109%
Senior researcher	88 775 Kč	92 701 Kč	104%
Administration	46 969 Kč	51 685 Kč	110%
Worker	37 362 Kč	43 474 Kč	116%



**Scientific activities**

# Evaluation within M17+ - biblio analysis

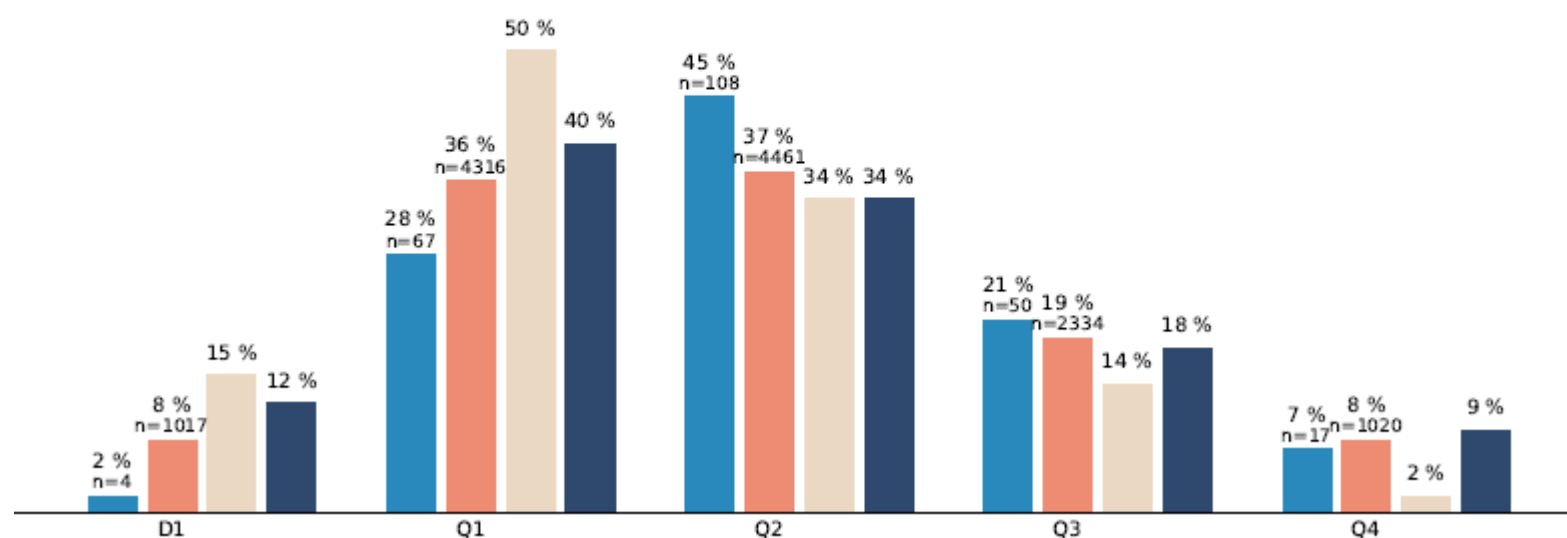
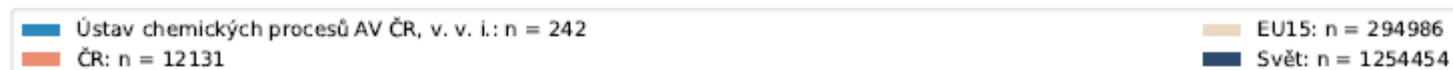
- Comparison 2016 - 2020 vs. 2017 - 2021

	Počet výsledků	Decil	Q1	Q2	Q3	Q4
1.1 Mathematics	12	0%	0%	75%	25%	0%
1.3 Physical sciences	74	3%	27%	54%	14%	5%
1.4 Chemical sciences	242	2%	28%	45%	21%	7%
1.5 Earth and related environmental sciences	69	7%	43%	20%	30%	6%
1.6 Biological sciences	19	0%	11%	58%	21%	11%
2.3 Mechanical engineering	20	15%	30%	50%	10%	10%
2.4 Chemical engineering	109	10%	50%	34%	16%	1%
2.5 Materials engineering	45	7%	29%	44%	24%	2%
2.7 Environmental engineering	46	15%	39%	43%	11%	7%
2.10 Nano-technology	15	0%	7%	67%	0%	27%
2.11 Other engineering and technologies	21	5%	19%	52%	24%	5%
3.1 Basic medical research	18	0%	11%	11%	50%	28%

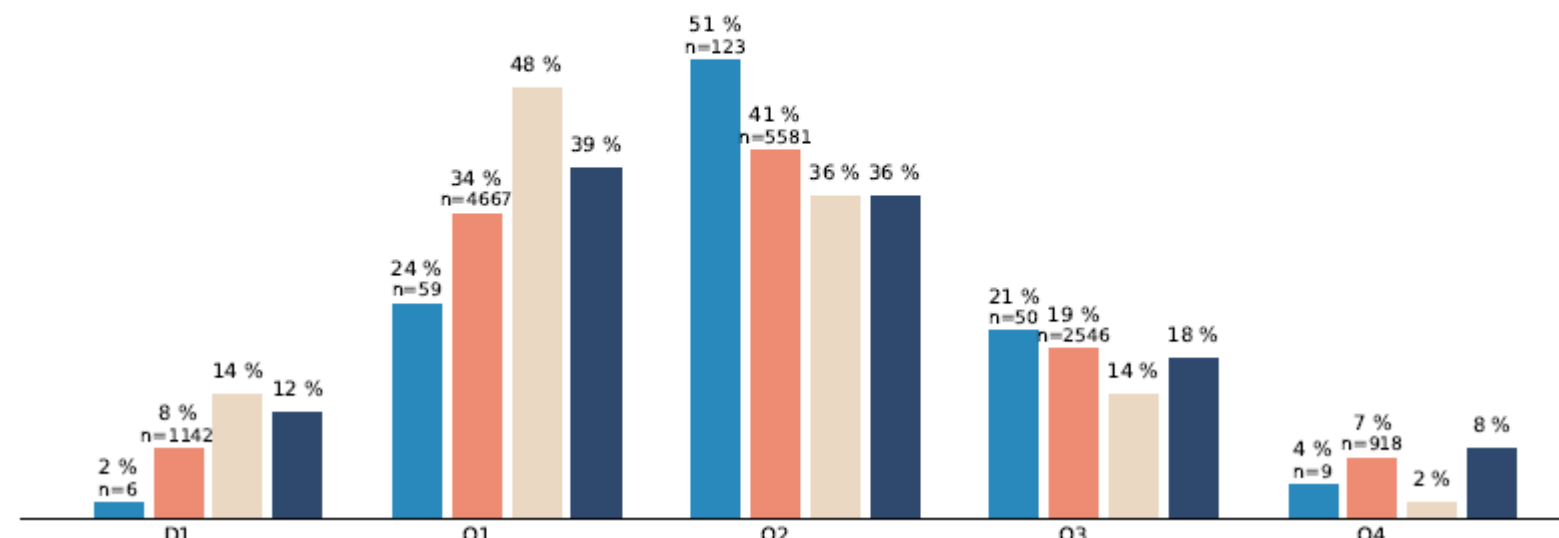
	Počet výsledků	Decil	Q1	Q2	Q3	Q4
1.1 Mathematics	10	0%	0%	70%	30%	0%
1.3 Physical sciences	76	5%	20%	61%	17%	3%
1.4 Chemical sciences	241	2%	24%	51%	21%	4%
1.5 Earth and related environmental sciences	72	7%	42%	17%	38%	4%
1.6 Biological sciences	19	0%	26%	42%	21%	11%
2.3 Mechanical engineering	19	26%	42%	37%	16%	5%
2.4 Chemical engineering	109	8%	48%	35%	17%	1%
2.5 Materials engineering	56	4%	23%	59%	16%	2%
2.7 Environmental engineering	47	13%	38%	36%	19%	6%
2.10 Nano-technology	17	0%	6%	53%	24%	18%
2.11 Other engineering and technologies	23	0%	9%	57%	35%	0%
3.1 Basic medical research	18	0%	11%	17%	50%	22%

## 1.4. Chemical Sciences

1.4 Chemical sciences - Ústav chemických procesů AV ČR, v. v. i. (2016 - 2020, databáze WoS)



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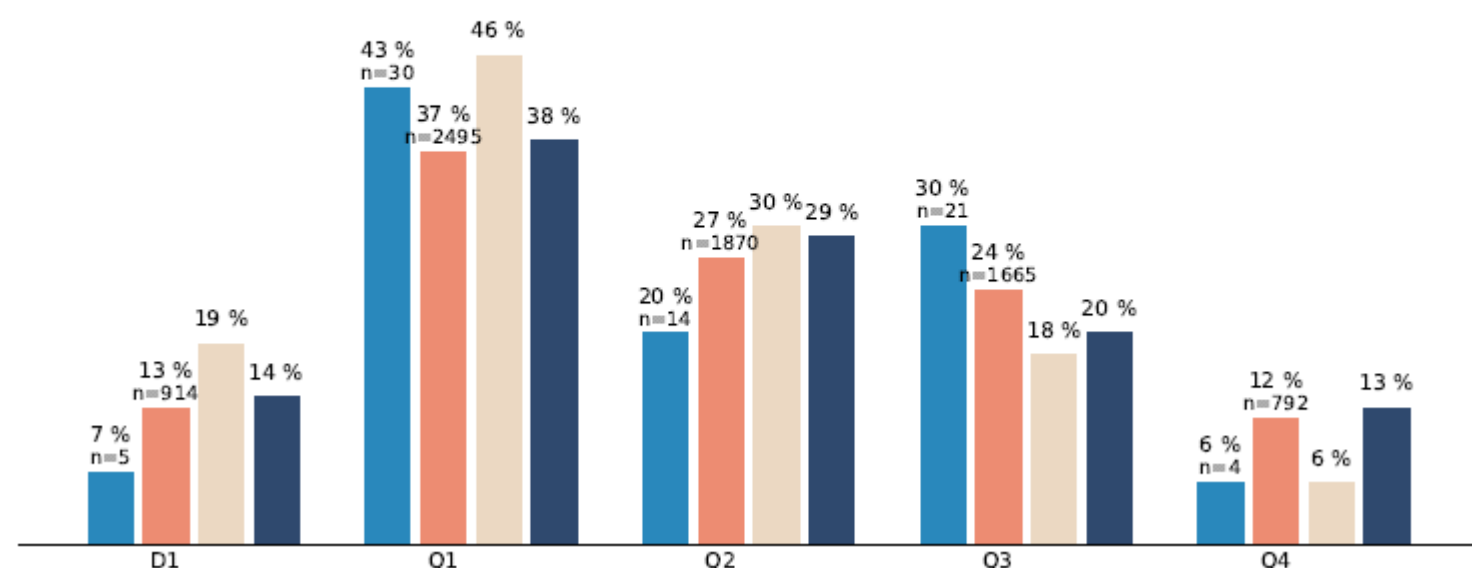


# Evaluation within M17+ - biblio analysis II

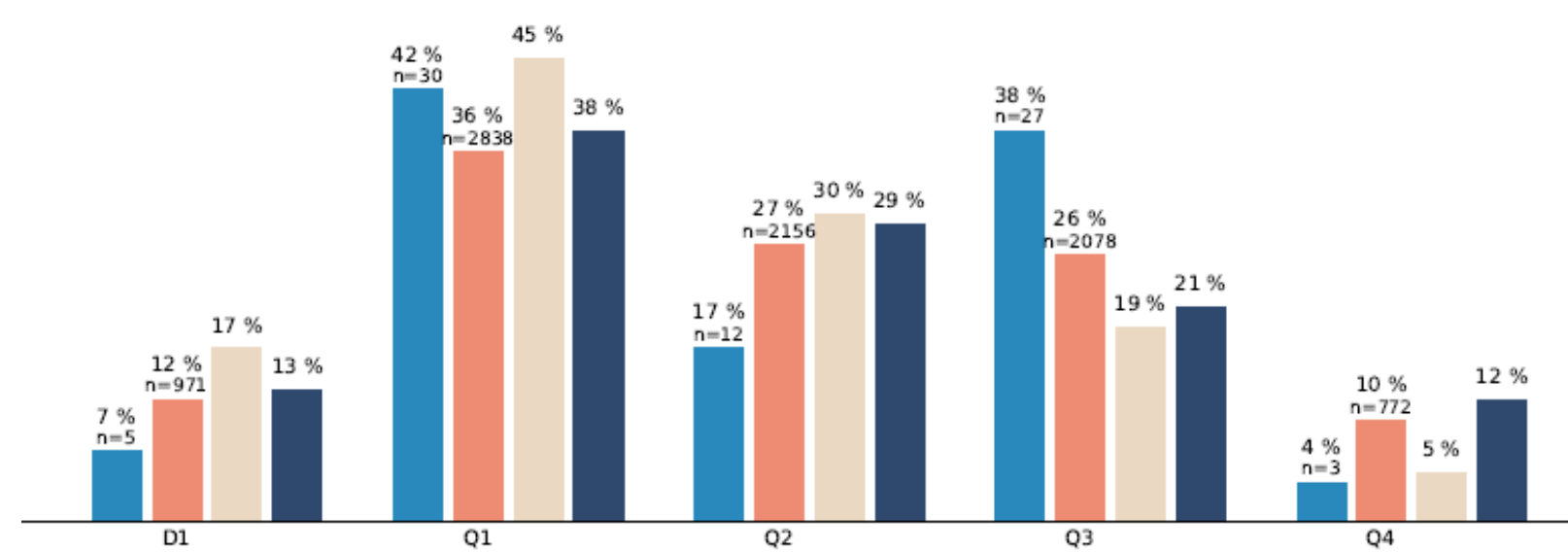
- Comparison 2016 - 2020 vs. 2017 - 2021

## 1.5. Earth and Environmental Sciences

1.5 Earth and related environmental sciences - Ústav chemických procesů AV ČR, v. v. i. (2016 - 2020, databáze WoS)

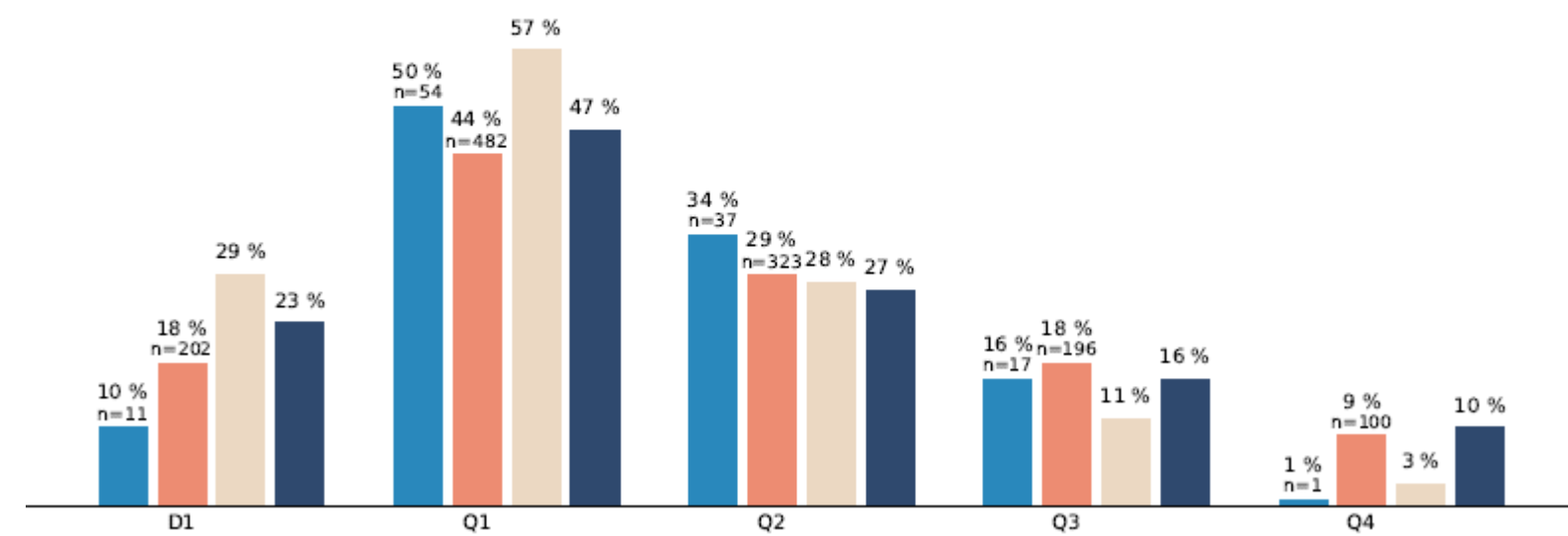


1.5 Earth and related environmental sciences - Ústav chemických procesů AV ČR, v. v. i. (2017 - 2021, databáze WoS)

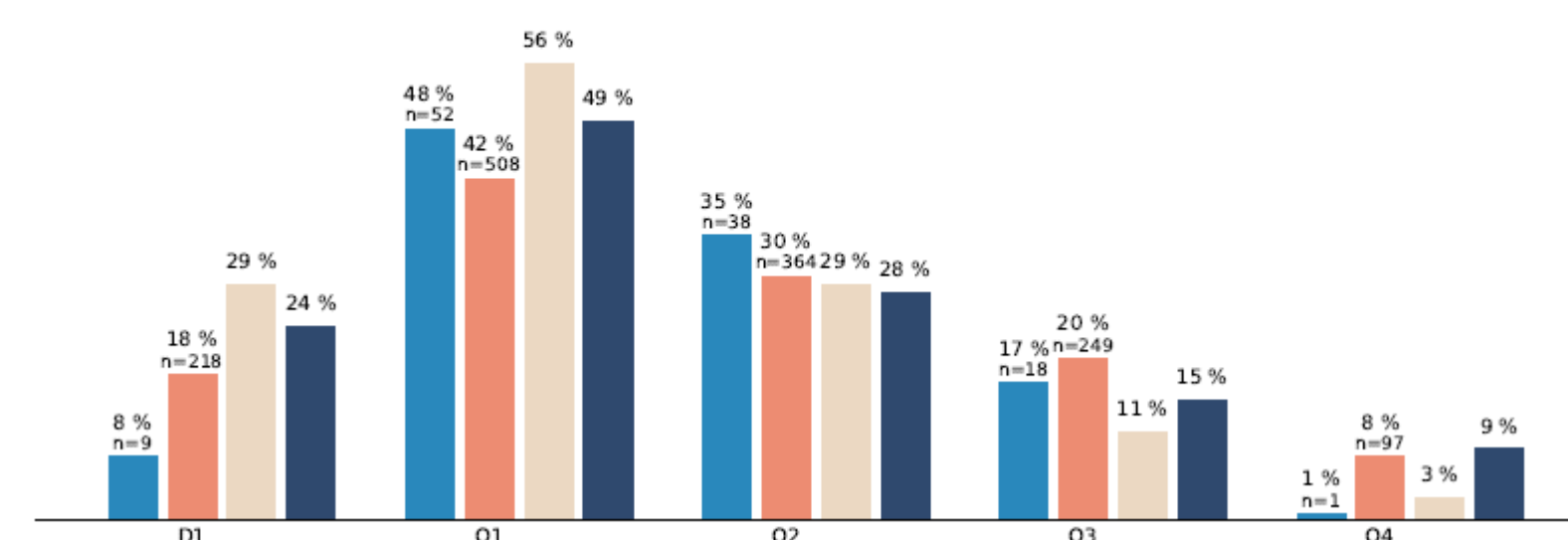


## 2.4. Chemical Engineering

2.4 Chemical engineering - Ústav chemických procesů AV ČR, v. v. i. (2016 - 2020, databáze WoS)



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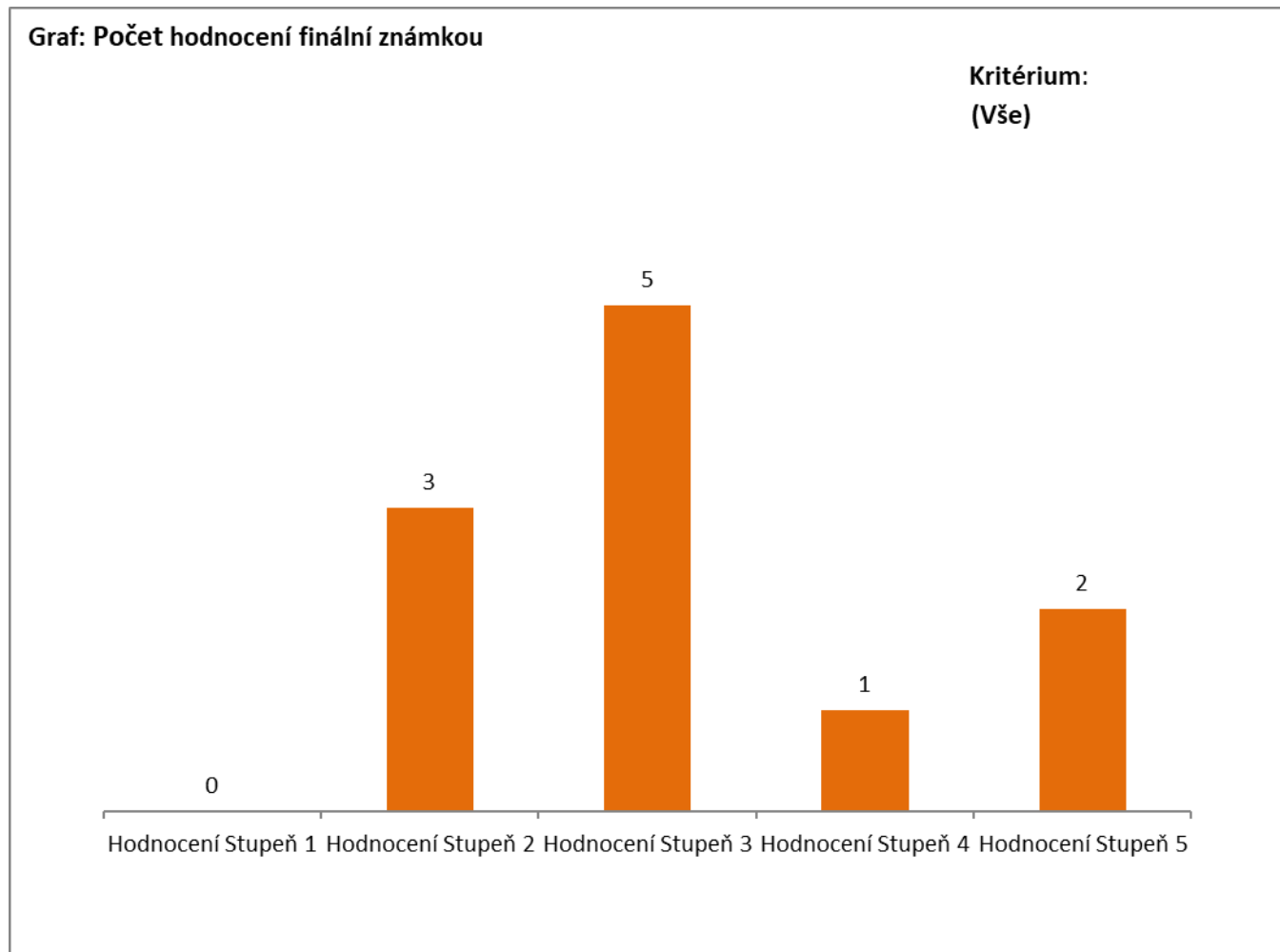


# M17+ Assessment - Module 1

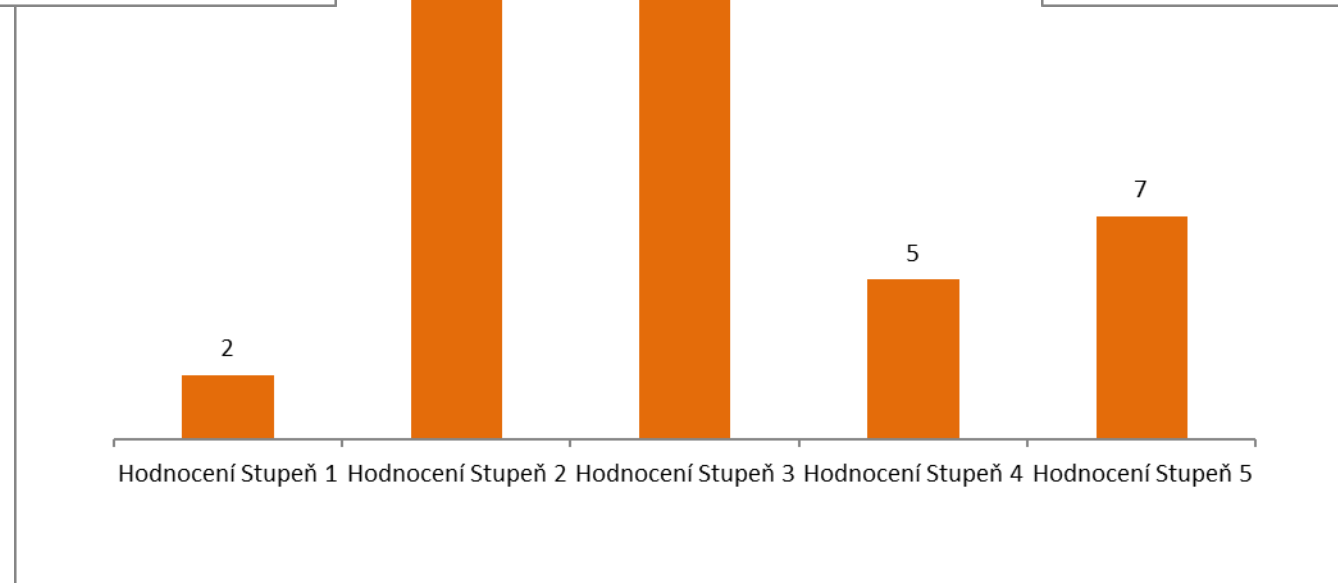
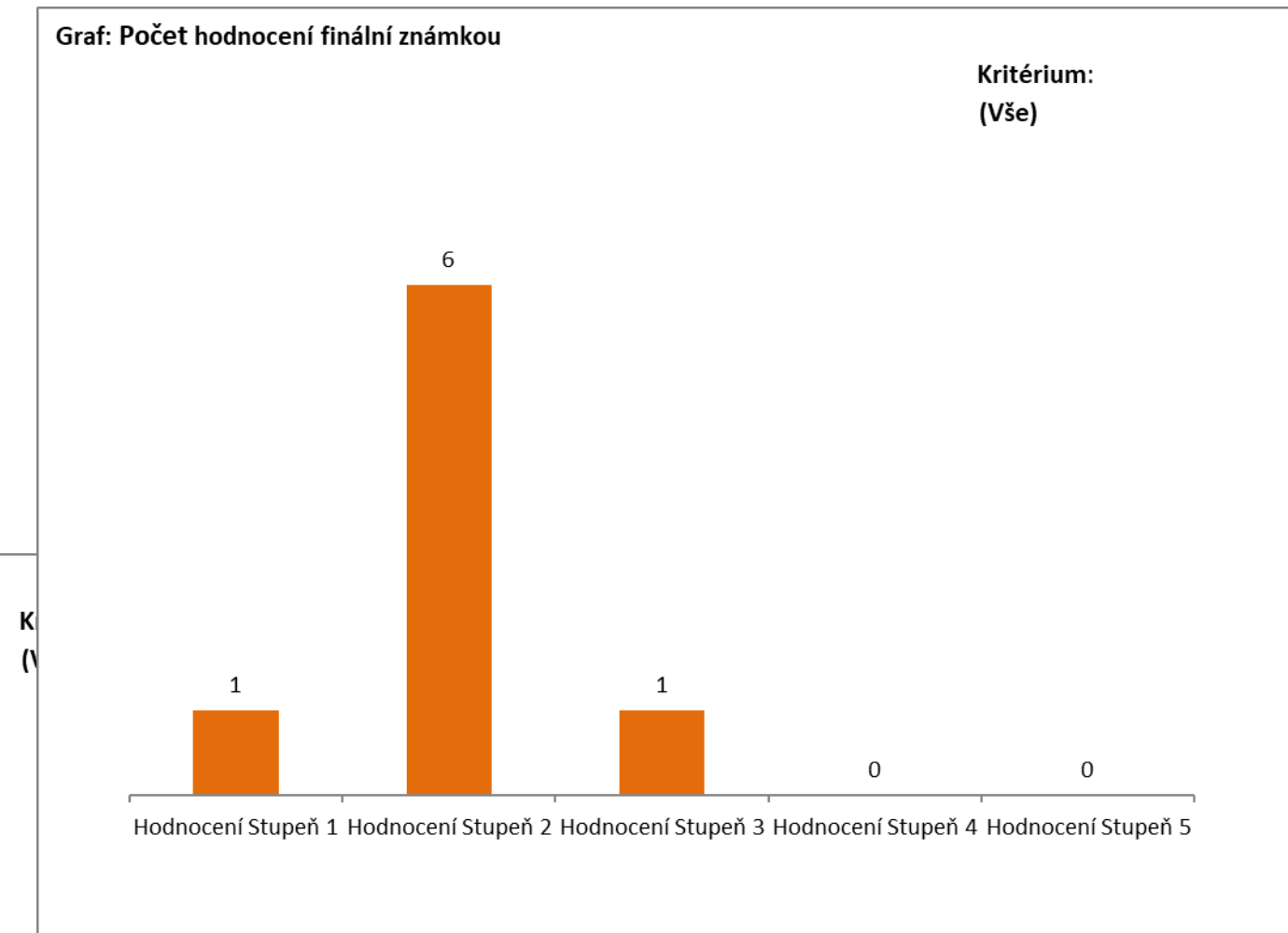
- Comparison 2021

vs.

2022



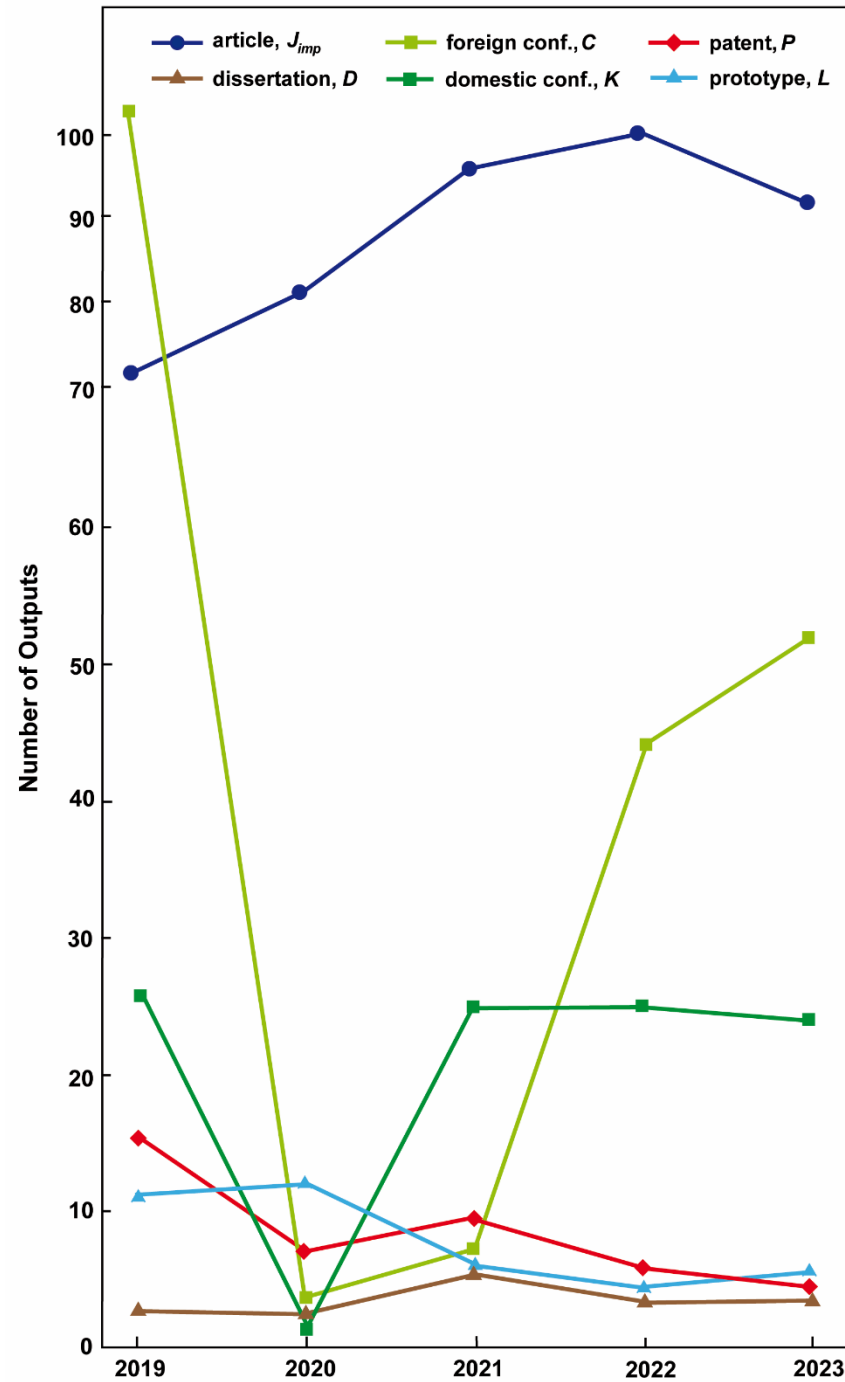
finální známkou



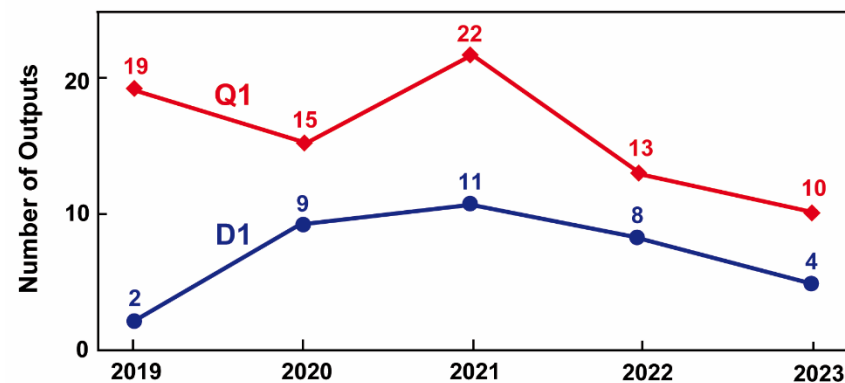
# Scientific performance



Development of Publication Activity 2019 - 2023



Support for Excellent Research 2019 - 2023




Year / quartile	D1	Q1	Q2	Q3	Q4	Sum
2023	27	20	30	12	2	91
2022	15	33	33	14	4	99
2021	19	35	33	7	2	96
2020	15	29	31	5	1	81
2019	11	23	26	6	6	72

Research Group	D1 + Q1		Sum 2019-2023	FTE Scientists 2023	Excel support. research 2019-2023	
	2023	2019-2023			D1	Q1
1	6	45 (16,7%)	67 (14,3%)	3,0	6	13
2	10	43 (16,0%)	65 (13,8%)	11,1	5	18
3	2	20 (7,4%)	80 (17,0%)	7,9	1	1
4	7	27 (10,1%)	46 (9,8%)	8,2	7	5
6	1	32 (11,9%)	49 (10,4%)	6,3	1	8
7	8	39 (14,5%)	56 (11,9%)	4,3	3	12
8	2	13 (4,8%)	29 (6,2%)	5,0	1	2
9	6	24 (8,9%)	32 (6,8%)	7,5	4	12
10	2	15 (5,6%)	29 (6,2%)	5,7	4	6
11	0	8 (3,0%)	9 (1,9%)	1,8	2	1
12	2	3 (1,1%)	8 (1,7%)	1,6	0	1
<b>ÚCHP</b>	<b>46</b>	<b>269 (100%)</b>	<b>470 (100%)</b>	<b>62,4</b>	<b>34</b>	<b>79</b>



# Evaluation of the CAS for the years 2020

-2024

- The evaluation will take place during 2025.
- Ad-hoc commissions for individual institutes will be appointed.
- The evaluation will take place at the level of teams and the entire workplace.
- Evaluation in two phases – best publication + site visit.
- Bibliometric analysis has been cancelled, the number of publication outputs has been reduced to 1n.
- Evaluation of applied research in the second phase – site visits.
- An effort to simplify the evaluation system and reduce the scope of prepared materials.
- 
- The evaluation has a significant and long-term impact on the financing of the Institute (level of units of millions of CZK per year).

# Submitted projects 2023



	Submitted	Awarded	Succes rate (%)
<b>GAČR</b>	27	4	14.8
Standard	23	4	17.4
International	2	0	0
Junior Star	2	0	0
<b>TAČR</b>	10	4	40
NCK	5	2	40
Théta	3	2	66.6
Doprava	1	0	0
TREND	1	0	0
MK - NAKI III	2	1	50
MŠMT – Inter Excelece II	2	0	0



# Selected project applications

- OP JAC Excellent research.
  - Molecular engineering and optimization of the design of catalytically active materials (budget approx. 54 million CZK). – not accepted into the competition.
  - Centre of Excellence in Regenerative Medicine (budget approx. 18 million CZK). –Supported.
  - Processes for 3E (Energy, Environment, Economy) (budget approx. CZK 160 million). – not supported.

25. - 26.	CZ.02.01.01/00/22_008/0004583	Excelentní výzkum v oblasti digitálních technologií a wellbeingu	Ostravská univerzita	499 972 073,64	12 011 750 087,76	467 067 832,12	11 678 631 151,75	232	5. Společenské vědy
25. - 26.	CZ.02.01.01/00/22_008/0004591	Feroické multifunkcionality	Ústav termomechaniky AV ČR, v. v. i.	499 966 291,00	12 511 716 378,76	494 932 844,62	12 173 563 996,37	232	2. Inženýrství a technologie

ŽÁDOSTI ZAŘAZENÉ DO ZÁSOBNÍKU									
POŘADÍ	REGISTRAČNÍ ČÍSLO	NÁZEV PROJEKTU	ŽADATEL	CZV POŽADOVANÉ NA PROJEKT	CZV POŽADOVANÉ KUMULATIVNĚ	CZV SCHVÁLENÉ	CZV SCHVÁLENÉ KUMULATIVNĚ	POČET BODŮ CELKEM	VĚDNÍ OBLAST FORD
27.	CZ.02.01.01/00/22_008/0004613	Výpočetní přístupy nové generace v oblasti materiálových věd a chemie	Vysoká škola báňská - Technická univerzita Ostrava	497 072 705,95	13 008 789 084,71	465 529 476,17	12 639 093 472,54	231	1. Přírodní vědy
28.	CZ.02.01.01/00/22_008/0004585	Pokročilé buněčné technologie pro medicínu - MEDCELL	Masarykova univerzita	500 000 000,00	13 508 789 084,71	447 834 117,09	13 086 927 589,63	230	3. Lékařské a zdravotnické vědy
29. - 30.	CZ.02.01.01/00/22_008/0004598	Procesy pro 3E (Energy, Environment, Economy) se zaměřením na reálný život	Ústav chemických procesů AV ČR, v. v. i.	499 925 029,00	14 008 714 113,71	499 925 029,00	13 586 852 618,63	228	2. Inženýrství a technologie

- Just Transition Fund.
  - CirkArena (<https://cirkarena.cz/>) (budget approx. 80 million CZK) – for over a year under evaluation.
  - Infrastructure project in Třinec.

# Selected Project Applications II

- OP JAC Long-term intersectoral cooperation
  - Life Cycle of New Energy Sources – Cooperation between BUT, UCT, ORGREZ.

28. června 2023 - 14. února 2024

**Žádost o podporu již není možné podat**

Celková alokace	Počet předložených žádostí	Předložené žádosti	Počet podpořených žádostí	Podpořené žádosti	Zbývající alokace
<b>1 750 mil. Kč</b>	<b>83</b>	<b>7 924 mil. Kč</b>	<b>0</b>	<b>0</b>	<b>1 750 mil. Kč</b>

Aktualizováno 28. 2. 2024

- OP JAC Large Research Infrastructures
  - Link to ESFRI Actris
  - Mostly investment project, budget 53.4 mil. CZK



# Selected Project Applications III

- Programme for the Support of Applied Research and Innovation TACR SIGMA - Support of Proof of Concept (PoC) activities.
- Costs 2024 - 2028 15M, 3M/year, support 80%.
- Support for PoC projects (solution 6 - 36 months, max. costs 3M/project).
- Main objectives of the project.
  - Improvement of the system of commercialization and identification of intellectual property.
  - Support for PoC projects to verify application potential.
  - Transfer of commercializable outputs into practice (in close cooperation with CeTTAV).



Program **SIGMA**



# International Advisory Board

- From 01/2024, a new international advisory board is established for a period of 5 years.
  - Prof. João G. Crespo, Universidade NOVA de Lisboa, Portugalsko.
  - Prof. Jack Legrand, University of Nantes, Francie.
  - Adam Kowalski, Director of Modelling & Analytics for Processing, Unilever R&D, UK.
  - Prof. Jeanne Crassous, Institut des Sciences Chimiques de Rennes, Francie.
  - Prof. Bruno Linclau, Ghent University, Belgie.
  - Prof. Dr. Alfred Wiedensohler, Leibniz Institute for Tropospheric Research, Leipzig, Německo.
  - Prof. Thomas Fruergaard Astrup, DTU/Ramboll, Dánsko.
- First meeting scheduled for 22-23.4.2024
- Presentation of the reserach groups, tour of the institute.



# Attestation

# Attestation 2023



- In the 2nd half of 2023, regular 5-year attestations (approx. 50 scientists) took place,
  - Evaluation Committee: M. Lísal, V. Ždímal, P. Izák, J. Hrubý, I. Schreiber,
  - attestation certificate (the importance of the evaluation of the SCS, i.e. strengthening the influence of the SCS and self-evaluation),
  - the quality was evaluated, not the quantity of publications, and the position of research assistant was used,
  - Discrepancies between the opinions of the Evaluation Committee and the evaluated employees (ca 5) are resolved by written objections/comments of the employees attached to the conclusions of the Evaluation Committee.
- Postdoctoral Researcher (Level 3a),
  - max 5 years,
  - emphasis on the progress of "becoming a researcher".
- Researcher (Level 4),
  - evaluated as "works independently" and "regularly publishes" in IF journals,
  - emphasis on "usually the investigator of grant or program projects",
  - or use of the position of research assistant.
- Senior Scientist (Level 5),
  - "tenure", but evaluated whether the scientific results meet the requirements for Grade 5;
  - Emphasis on "is a leading scientific personality who significantly contributes to the development of the field on an international scale".



# Management, Strategy & Development

# Update of internal wage regulation

- Efforts to improve the wage situation within the ICHP.
- Reduction of the number of tariff levels according to performance/qualification to 3-5.
- Update of tariff wages according to the results of attestations.

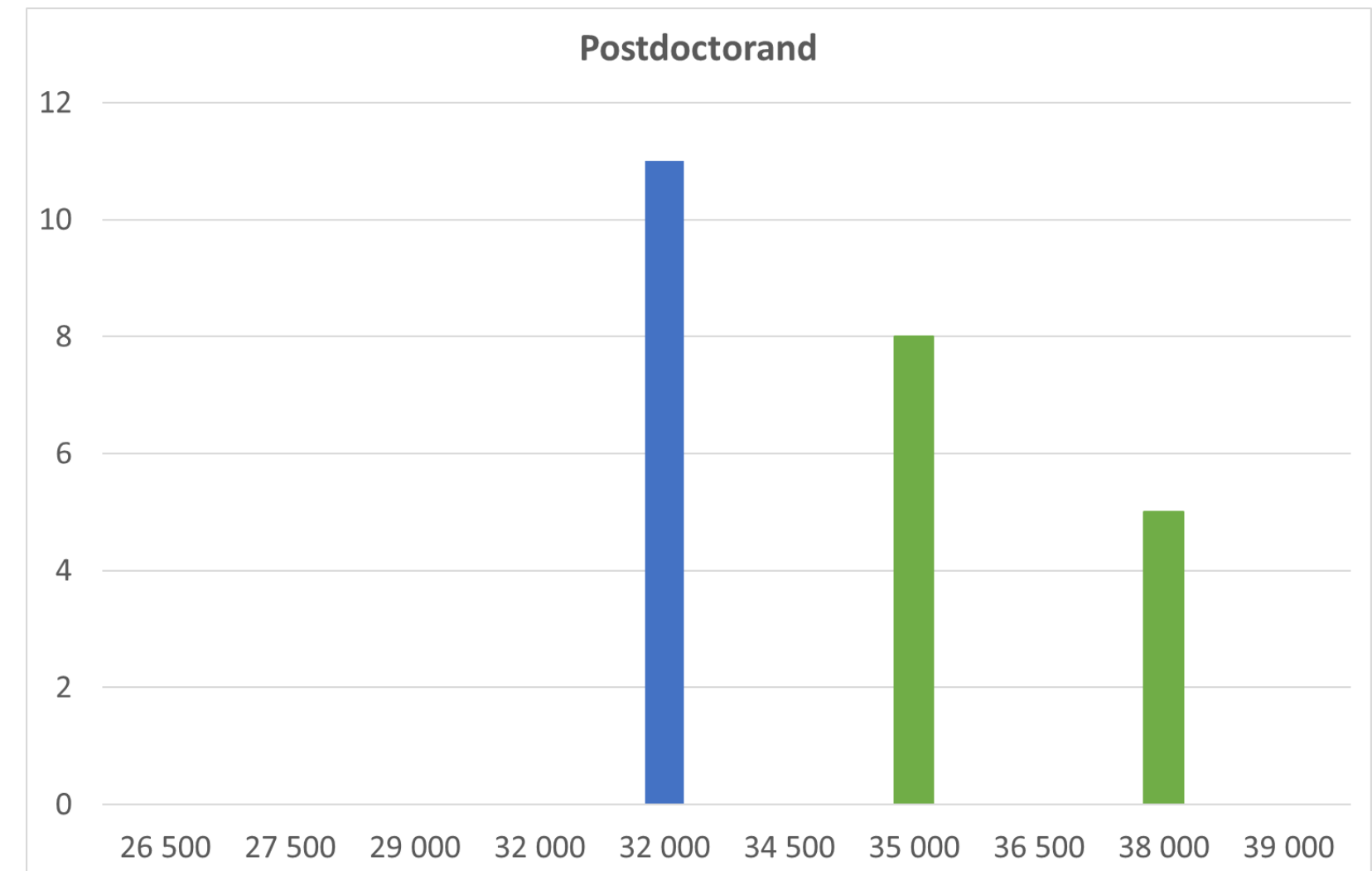
Tarifní stupeň	Kvalifikační stupeň					
	1	2	3a	3b	4	5
	Tarifní třída					
	V1	V2	V3	V4	V5	V6
1	29 000	26 000	32 000	32 000	33 500	36 500
2	31 000		35 000	35 000	36 500	41 500
3	33 000		38 000	38 000	39 000	49 000
4					41 500	53 000
5					44 000	58 000





# Update of Internal Wage Regulation II

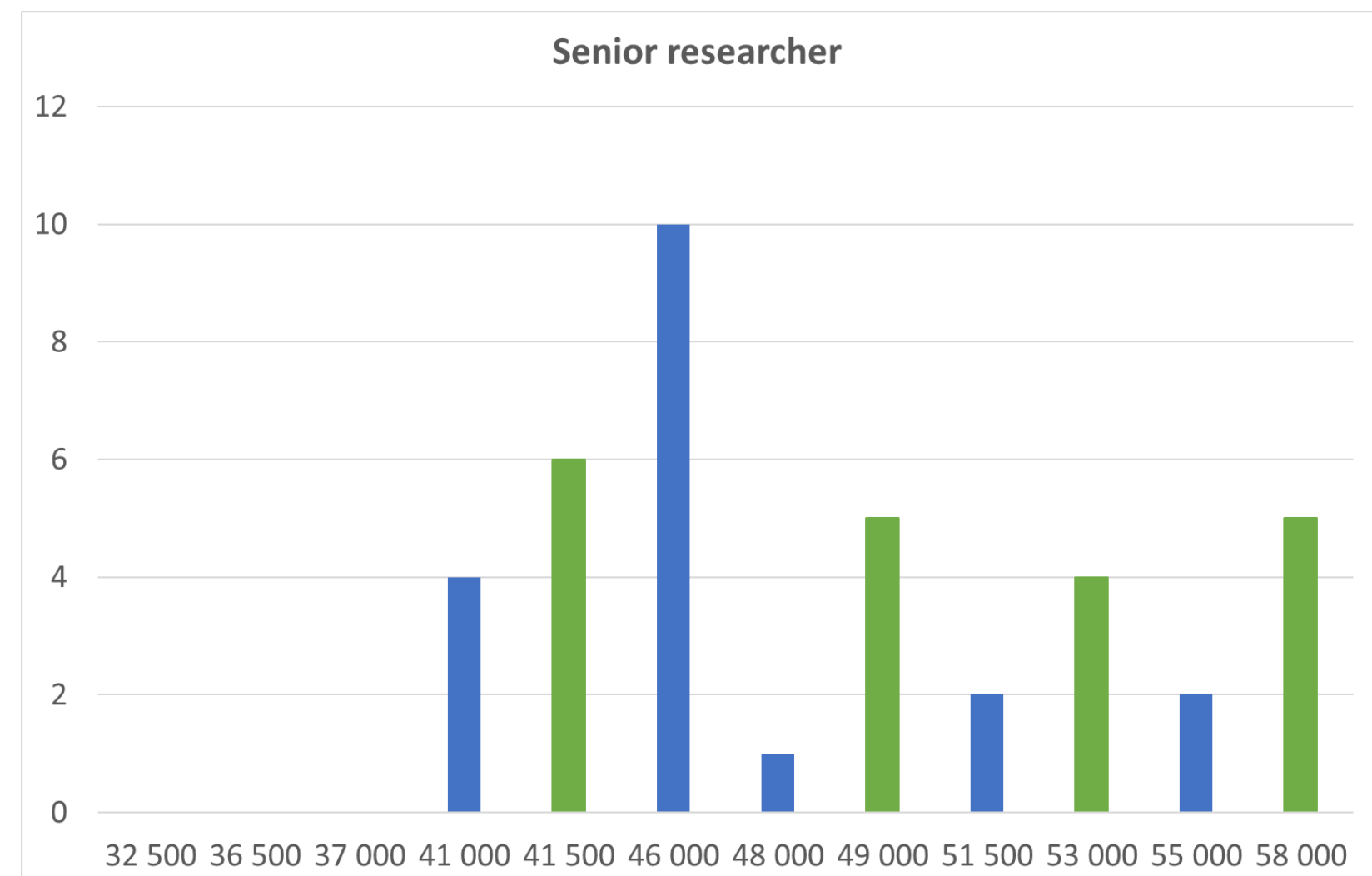
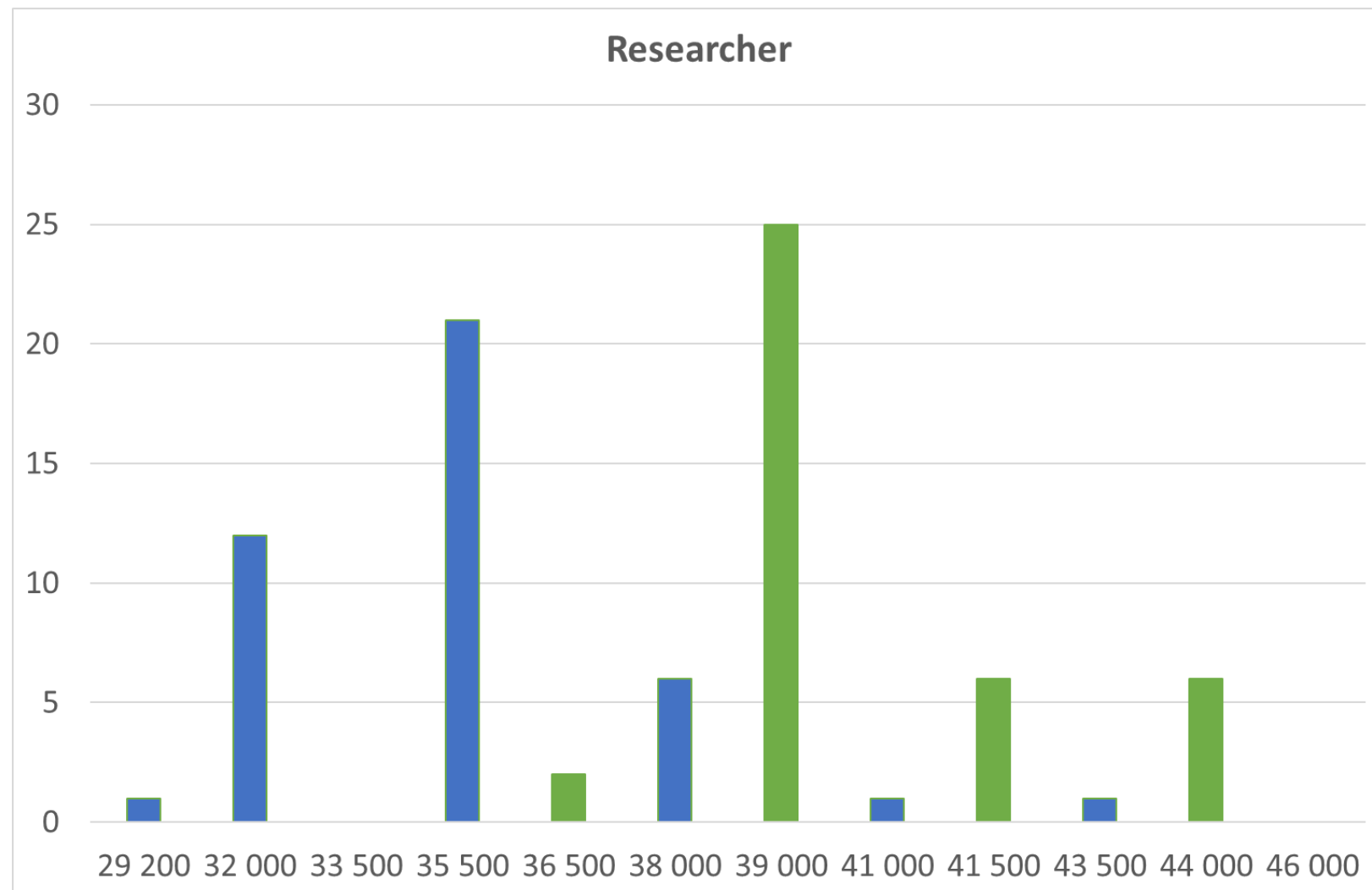
- Efforts to improve the wage situation within ICPF – **new tariffs** vs **old tariffs**





# Update of Internal Wage Regulation III

- Efforts to improve the wage situation within ICPF – **new tariffs** vs **old tariffs**





# Revision of Doctoral Study Conditions

- Detailed evaluation after the first year of study.
- Adjustment of salary conditions for doctoral studies – 0.5/0.75/1.0 according to the fulfilment of doctoral study objectives and performance,
- Support for a period of 5 years.
  - Updates to the IGA rules.
- Transparent scoring and feedback to applicants.
- A system of education for doctoral students.
- Presenting skills courses in English in 2023.
- Suggestions, requirements???

# Children's group project

## NATIONAL RECOVERY PLAN

A public children's group for 12 children, primarily employees of institutions located on the premises

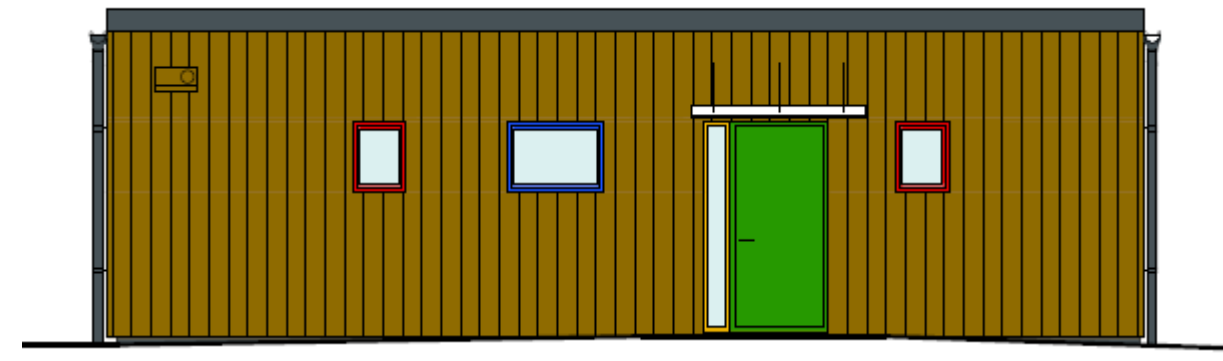
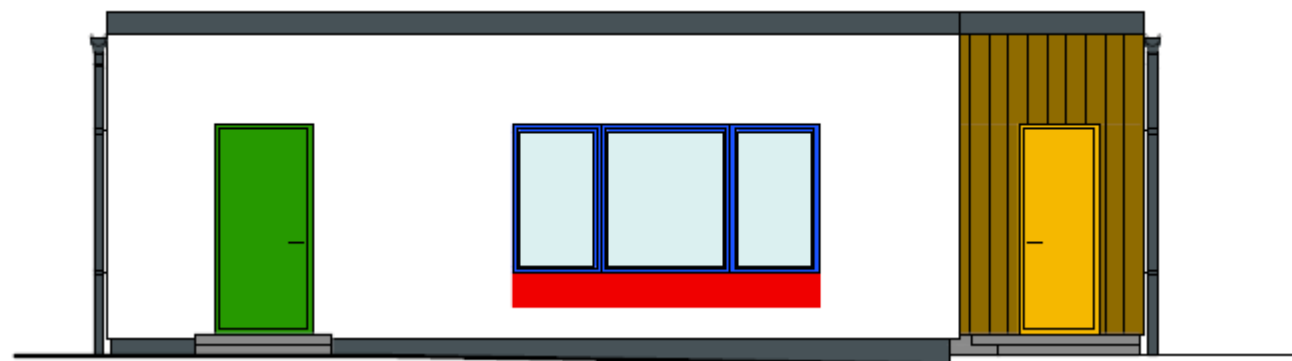
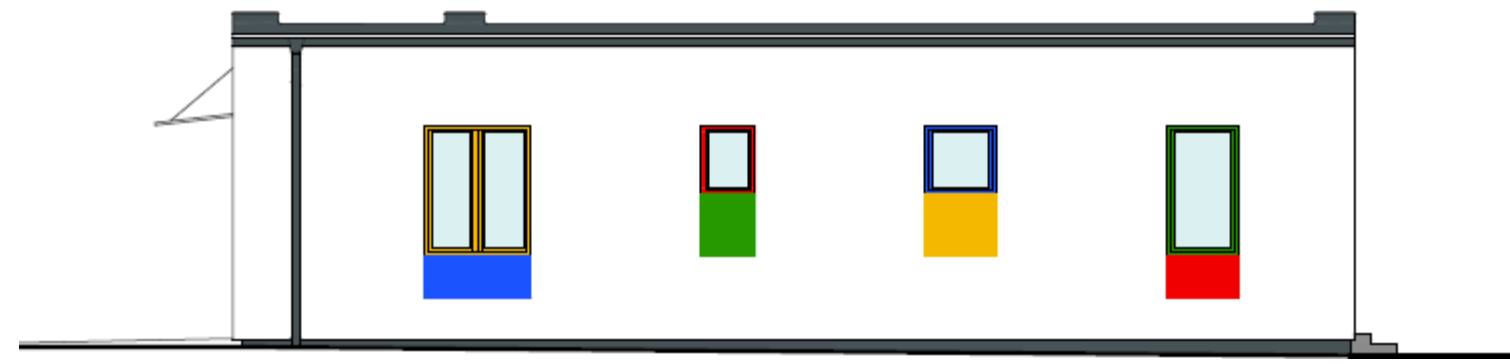
- ✓ Application for joint permit - 06/11/2023
- ✓ Purchase of land from SSČ → Agreement on the conclusion of a future purchase contract - 27/11/2023
- ✓ Announcement of the commencement of joint planning and building permit proceedings – 30/11/2023
- ✓ Joint permit granted - 08/03/2024
- ✓ Budget in the final stage of creation
- ✓ Grant application in process
- ✓ Deadline for receipt of grant applications 28/06/2024
- ✓ Expected start of construction 03/2025



# Children's group project

## NATIONAL RECOVERY PLAN

- modular from prefabricated containers, the west side (parallel to Rozvojová Street) and the north side lined with wood





## *Planned steps for 2023 - summary*

- Update and clarification of internal regulations (1-2Q) - **completed**
- Update of the Institute's website (2-3Q) – **not met, new deadline until 2Q/2024**
- Establishment of a branch outside Prague for access to selected OPs (Q2) - **completed**
- Introduction of ICPF Emeritus (2Q) – **partially fulfilled**
- Audit of premises within the institute and their distribution (up to Q3) - **completed**
- Elaboration of the research strategy of the Institute (up to Q3) - **completed**
- Create a new intranet (by 4Q) – **not met, new deadline by 2Q/2024**
- Computerization of economic administration (up to 4Q) – **completed**
  - Absences, conferences etc.
- Reducing energy intensity – subsidy from the State Environmental Fund, we are waiting for the decision of the Academy of Sciences of the Czech Republic
- Area children's group – application for building permit submitted, preparation of subsidy application



# Planned actions for 2024

- Prepare the publication policy of the institute – by 3Q/2024.
- Website update (2-3Q/2023) – not met, new deadline until Q2/2024.
- New intranet (by Q4/2023) – not met, new deadline by Q2/2024.
- Reducing energy intensity – PV and reconstruction C16 – granted subsidy from the State Environmental Fund, co-financing of the Academy of Sciences of the Czech Republic group B – YES, in case of sufficient funds – implementation 2024/2025?
- Area children's group – application for building permit submitted, application for subsidy submitted by Q2/2024.
- To improve the promotion and popularization of the Institute – continuously.
- Set internal principles for the handling of intellectual property and procedures for knowledge transfer – by 4Q/2024.
- Development of instrumentation – continuous.
- Personnel stabilization and development of the public administration – continuously.