

Annual Report 2020

Faculty of Forestry and Wood Sciences
Czech University of Life Sciences Prague



Faculty of Forestry
and Wood Sciences

Introduction

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Introduction

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1 Introductory word from the Dean

If we wanted to characterize 2020 at FFWS in one word, it would be „unusual“. Faculty activities were significantly affected by the Covid-19 pandemic, which resulted in a non-traditional form of teaching and examination, as well as state final and entrance exams. Practically from day to day, we had to change the long-established way of teaching and lecture online, shoot videos and use other non-contact forms of teaching. The same applied for the field of science and research. For some time, scientific research activities, field and laboratory work were limited, as well as social life, which is a characteristic of our Faculty. However difficult the situation was, it did not leave any major negative traces on teaching or research activities, for which I would like to thank all the staff.

In 2020, the Faculty had six bachelor's degree programmes with four specializations and five master's degree programmes. The interest in studying at the Faculty was not affected by the unfavourable Covid situation either, and almost the same number of students were enrolled in the first years as in the previous year. To make the study which will prepare graduates for a new era of forestry more attractive, we accredited the master's degree programme Forest Engineering with updated subjects and with the possibility of specializing in the techni-

cal or biological field. At the bachelor's degree level, we accredited the study programme *Myšlivost a péče o životní prostředí zvěře*, focused on forest game management as one of the important factors in promoting diversified forests. To improve our teaching, we also placed even greater emphasis on publishing new study materials, the importance of which increased in this unusual period. A negative element in the field of education was a significant decrease in the foreign mobility of students and teachers. It was also not possible to organize summer schools, which were to follow up on two very successful previous events for our students abroad. The development of the Faculty in the international area was most significantly affected by this unusual year. Although the Faculty prepared and developed programmes to support the arrival and lectures of experts from abroad, as well as to support trips by Faculty staff and PhD students to lecture abroad, as well as research stays and internships, it was almost impossible to implement them last year.

The Faculty's activities in scientific research were focused on creating an environment for excellent science, motivating employees and PhD students, quality application outputs, popularization of science, and transfer of scientific results into teaching. The Faculty

supported these activities materially, administratively and financially. The result is, for example, an increased share of publications in journals from the so-called first decile and the first quartile, as well as the publication of a Newsletter for Practice. Most of the publications were published in the FORD category „Agriculture, Forestry and Fisheries“, which is crucial for the evaluation of the Faculty. We can also evaluate positively the larger number of publication outputs of PhD students and especially the number of publications for which our PhD student is the first author. In addition, we increased financial support for doctoral studies, not only in the form of the Korf Scholarship, but also with a substantial increase in additional scholarships.

An important basis for quality scientific outputs are projects, especially the international ones. The Faculty research teams joined international consortia and were thus part of 20 international project proposals. Simultaneously, five international projects were launched in 2020. A total of 9 international and 44 national projects financed from six different sources were implemented at the Faculty. Maintaining a high number of projects and diversified funding of research activities in the coming years will be one of the important tasks for the Faculty.

From the point of view of investment activities, the Faculty focused on finalizing the preparation of the completion and reconstruction of the so-called old FFWS building. The implementation of this time-consuming and logis-

tically demanding (but very important investment project) will begin in 2021. This investment is necessary given that in 2020 the Faculty budget enabled us to strengthen the personnel area with pedagogical and scientific research staff and postdocs.

For a long time, we at the Faculty have been aware of the importance of a friendly environment, which also includes, in addition to spatial and material provision, the social aspect and social responsibility. We continued to focus on this area last year to such an extent that we were allowed to do so from the point of view of epidemiological measures. It is definitely worth mentioning that we started publishing the Faculty newsletter, we organized a Faculty Family Day, and we supported companies working with people with mental disabilities and the sports club of the Jedlička Institute in Prague.

As I mentioned at the beginning, 2020 was unusual, but at FFWS we successfully managed it, as usual, without any major problems. I believe that we will be able to evaluate the next year even more positively.



prof. Ing. Róbert Marušák, PhD.

Dean



High-tech



h pavilion

**Basic information
about FFWS**

2

2 Basic information about FFWS

Full name and address of the Faculty

Full name

Faculty of Forestry and Wood Sciences
of the Czech University of Life Sciences Prague

Faculty address

Czech University of Life Sciences Prague
Faculty of Forestry and Wood Sciences
Kamýcká 129
Postal code 165 00 Prague – Suchbát

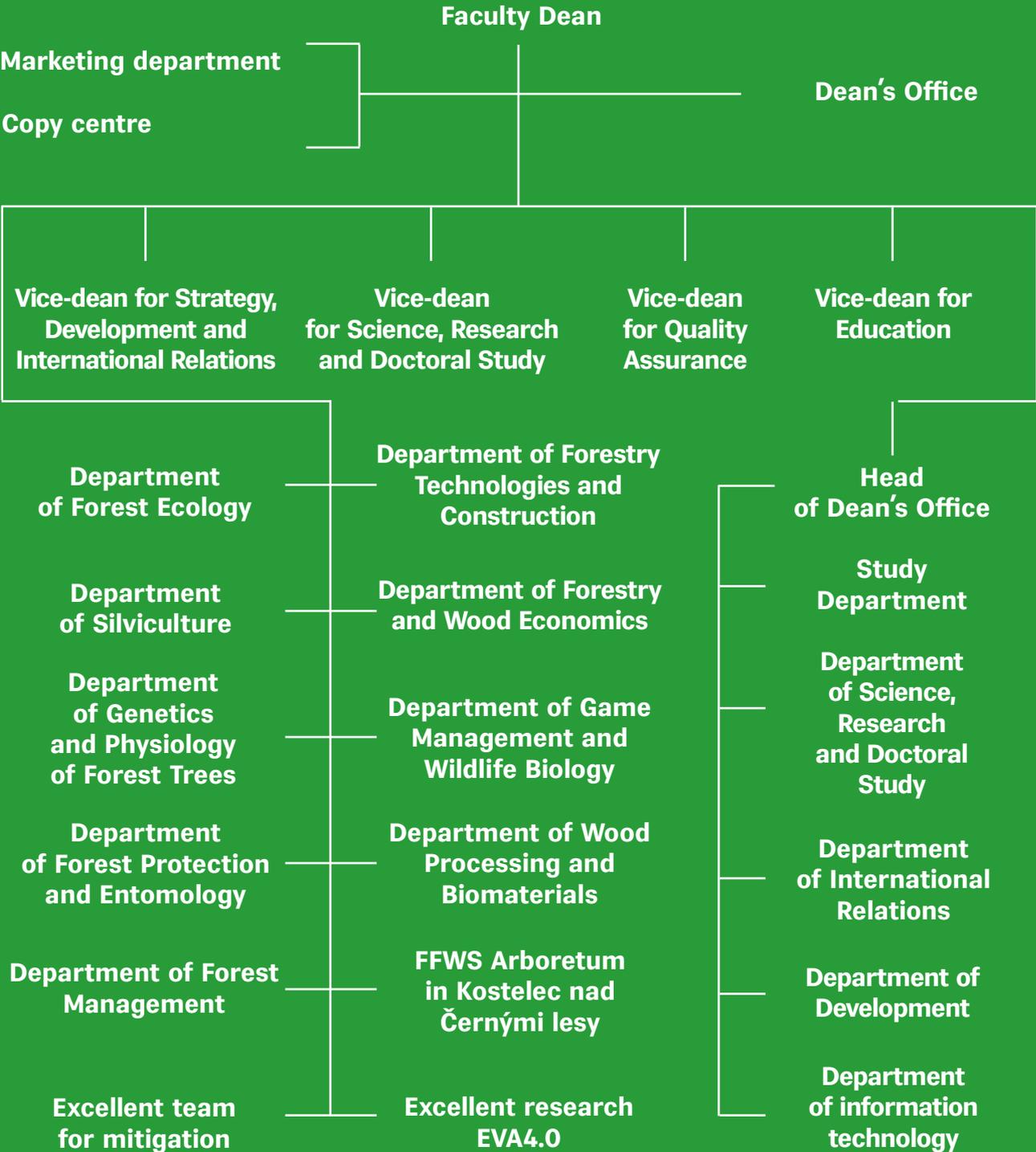
Czech translation of the name of the Faculty

Fakulta lesnická a dřevařská
České zemědělské univerzity v Praze

Commonly used abbreviations

FLD ČZU (in Czech)
FLD (in Czech)
FFWS CZU (in English)
FFWS (in English)

FFWS organizational chart and structure



Members of the Scientific Board, Academic Senate, and other FFWS bodies

FFWS Academic Senate

Academic staff

doc. Ing. Oto Nakládal, Ph.D.
prof. Ing. Jaroslav Červený, CSc.
Ing. Roman Modlinger, Ph.D.
doc. Ing. Vítězslava Pešková, Ph.D.
doc. Ing. Peter Surový, PhD.
doc. Ing. Martin Jankovský, PhD.
doc. Ing. Vlastimil Hart, Ph.D.
Ing. Radim Löwe, Ph.D.

Students

Ing. Václav Silovský
Ing. Anna Herrová
Bc. František Čepický
Samuel Gavaía

FFWS Scientific Board

Internal members – FFWS employees

prof. Ing. Róbert Marušák, PhD.,
chairman
prof. Ing. Jaroslav Červený, CSc.
doc. Ing. Milan Gaff, PhD.
doc. Ing. Miroslav Hájek, Ph.D.
doc. Ing. Vlastimil Hart, Ph.D.
prof. RNDr. Tomáš Hlásny, PhD.
prof. Ing. Jaroslav Holuša, Ph.D.
doc. Ing. Tomáš Kušta, Ph.D.
prof. Ing. Milan Lstibůrek, Msc., Ph.D.

doc. Ing. Vítězslava Pešková, Ph.D.
prof. Ing. Vilém Podrázský, CSc.
doc. Ing. Jiří Remeš, Ph.D.
doc. Ing. Peter Surový, PhD.
prof. Ing. Miroslav Svoboda, Ph.D.
prof. Ing. Luděk Šišák, CSc.
prof. Ing. Marek Turčáni, PhD.

Internal members – other CZU faculties and workplaces

prof. Ing. Martin Hanel, Ph.D.
prof. Ing. Václav Hejník, Ph.D.
doc. Ing. Milan Houška, Ph.D.
doc. Ing. Bohdan Lojka, Ph.D.
doc. Ing. Jiří Mašek, Ph.D.

External members:

prof. Ing. Marek Fabrika, PhD.
prof. Dr. Ing. Libor Jankovský, CSc.
prof. RNDr. František Kačík, Ph.D.
Ing. Petr Král
Ing. Tomáš Krejzar, Ph.D.
prof. RNDr. Ing. Michal V. Marek, DrSc., Dr. h. c.
Ing. Tomáš Pařík
Ing. Pavel Rus
Ing. Lenka Trandová
doc. Ing. Petr Zahradník, CSc.
Ing. Milan Zerzán

FFWS Management

Dean

prof. Ing. Róbert Marušák, PhD.

Vice-deans

Ing. Radek Rinn,
Vice-dean for Strategy, Development
and International Relations

Ing. Jan Kašpar, Ph.D.,
Vice-dean for Quality Assurance

doc. Ing. Tomáš Kušta, Ph.D.,
Vice-dean for Science, Research
and Doctoral Study

Ing. et. Ing. Markéta Kalábová, Ph.D.,
Vice-dean for Education

Head of Dean's Office

Ing. Martin Prajer, Ph.D.





**Educational
activities**

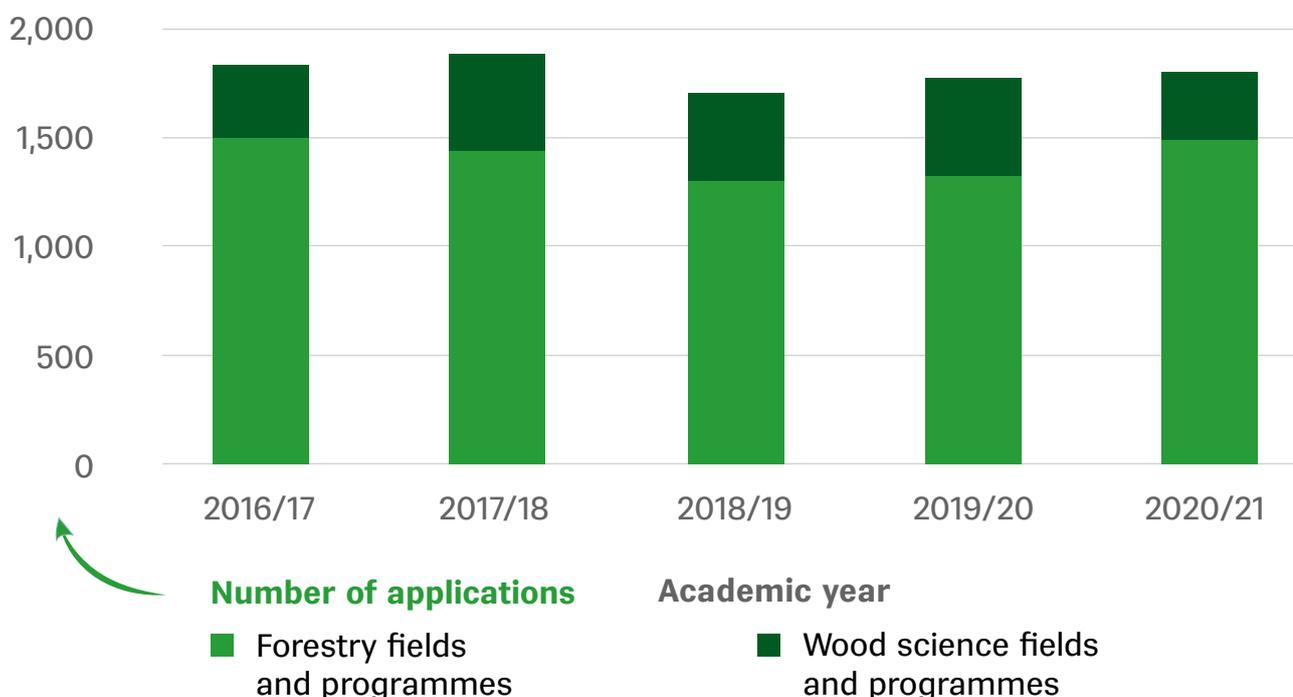
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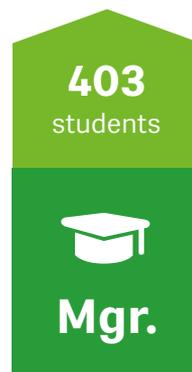
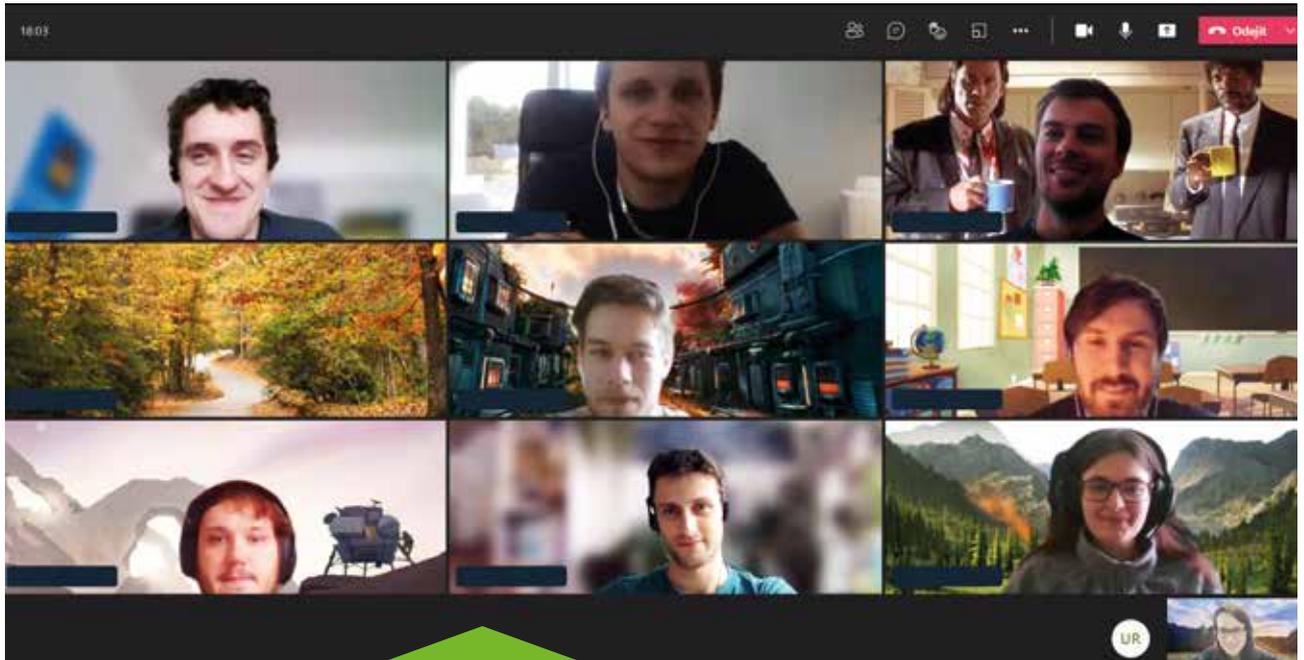
3 Educational activities

Educational activities in 2020 were significantly marked by the Covid-19 pandemic, which affected the entire Czech Republic. From 11th March 2020, the personal presence of students in classes was prohibited. Teaching was thus provided online through the MS Teams and LMS Moodle platforms. In total, more than 600 teams were created.

In 2020, the Faculty offered studies in newly accredited study programmes. A total of 1,785 applications were submitted in three stages, with an increase in interest in forestry study programmes. 905 students were enrolled in the study, which represents 51% enrolment.

Development of the number of applications to study at FFWS over the last five years





As of 31st October 2020, a total of 1,856 students were studying at FFWS, of which 1,453 were in bachelor's and 403 in master's degree study fields and programmes. Although the state final examinations were postponed until August due to the Covid-19 pandemic, a total of 265 students successfully completed their studies, of which 146 were in bachelor's and 119 in master's study fields. The employability of FFWS graduates in the labour market is almost 100%.

STUDY PROGRAMMES OFFERED IN 2020

The aim of the Faculty of Forestry and Wood Sciences is to educate people with independent critical thinking. The intention is for graduates to be able to use the scientific research findings of the Faculty, which they will apply in practice.



f = full-time

c = combined form of study

BACHELOR'S STUDY PROGRAMMES

FORESTRY • specialization **Forest Ecosystems
Protection and Silviculture** (Czech, f/c)

FORESTRY • specialization **Economics
and Management of Forestry** (Czech, f/c)

WOOD SCIENCES • specialization **Business in
Woodworking and Furniture
industry** (Czech, f)

WOOD SCIENCES • specialization **Wood Processing**
(Czech, f)

OPERATION AND GAME MANAGEMENT (Czech, f/c)

**CONSERVATION OF NATURAL OBJECTS
AND TAXIDERMY** (Czech, f)

SYSTEM ARBORISTICS (Czech, f)

FORESTRY • specialization **Forest Ecosystems
Protection and Silviculture**
(English, f)



MASTER'S STUDY PROGRAMMES

FOREST ENGINEERING (Czech, f/c)

WOOD ENGINEERING (Czech, f/c)

**TIMBER CONSTRUCTURES AND STRUCTURES
BASED ON WOOD** (Czech, f)

FORESTRY, WATER AND LANDSCAPE MANAGEMENT
(English, f)

DOCTORAL STUDY PROGRAMMES

**APPLIED GEOINFORMATICS
AND REMOTE SENSING IN FORESTRY**
(Czech/English, f/c)

**FIRE PROTECTION OF FOREST, TIMBER
AND WOOD-BASED MATERIALS**
(Czech/English, f/c)

FOREST BIOLOGY (Czech/English, f/c)

**ECONOMICS AND MANAGEMENT OF FORESTRY
AND WOOD INDUSTRY** (Czech/English, f/c)

FOREST MANAGEMENT (Czech/English, f/c)

FOREST PROTECTION AND GAME MANAGEMENT
(Czech/English, f/c)

SILVICULTURE (Czech/English, f/c)

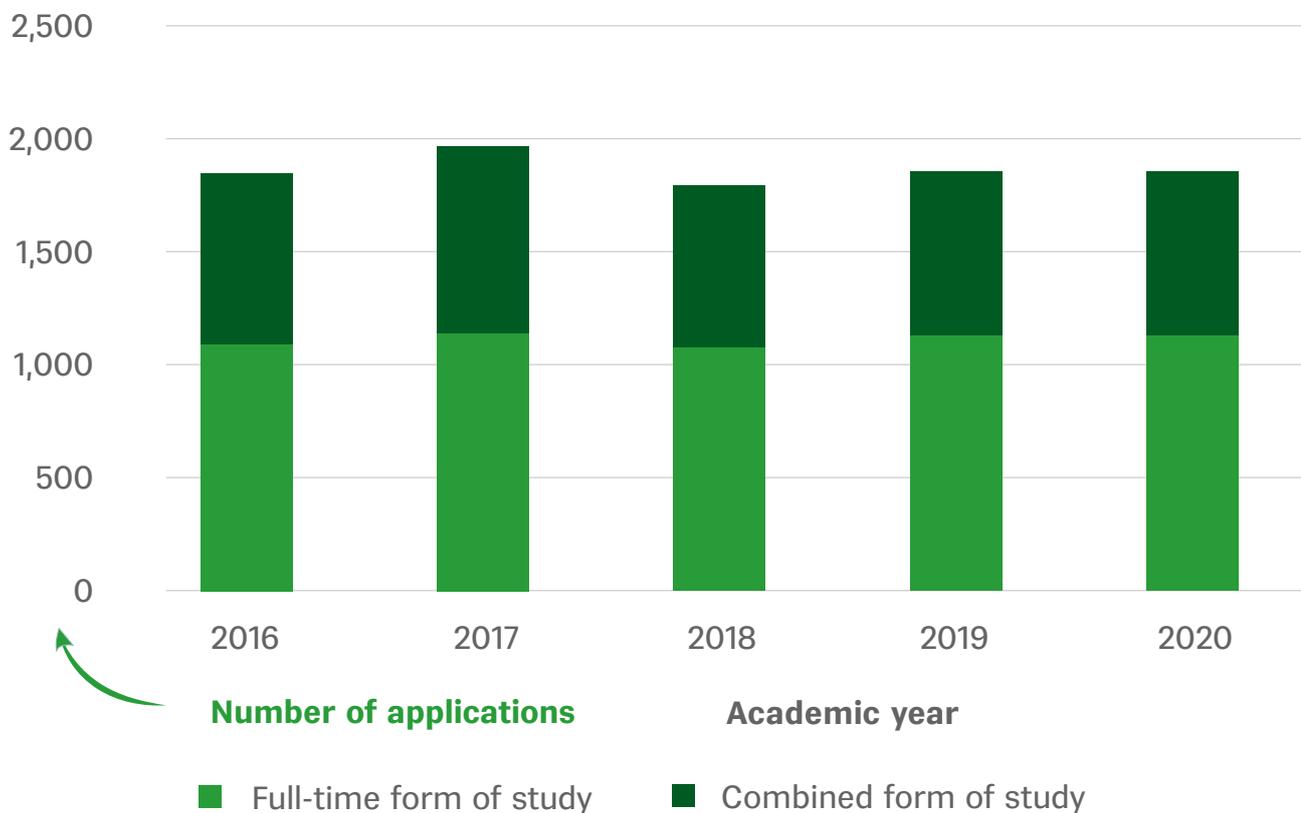
WOOD PROCESSING AND FOREST MACHINERY
(Czech/English, f/c)

GLOBAL CHANGE FORESTRY (English, f/c)

Form of study

At FFWS, study programmes can be studied in full-time and combined form. In 2020, FFWS offered 20 full-time study programmes and 13 study programmes in a combined form. The chart below

shows a clear interest in the combined form. The share of students in the combined form of study in total has been similar over the last 5 years, with around 40% of students.



Awards in 2020

5 graduates received the Rector's Award for outstanding results in their studies.

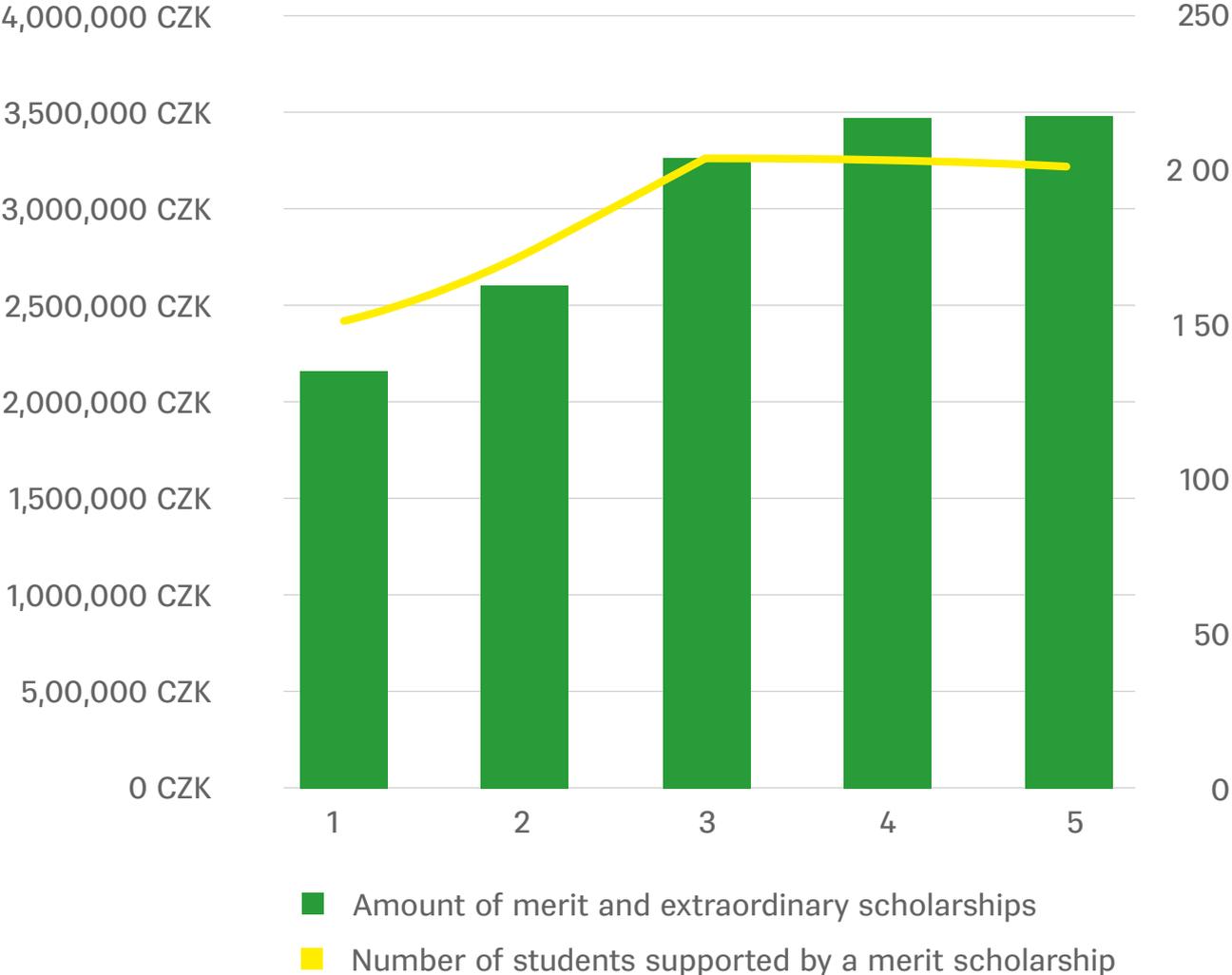
15 graduates received the Dean's Commendation for excellent results throughout their studies.

7 graduates received the Dean's Award for outstanding final thesis.

Scholarship programmes

In 2020, FFWS continued to support students through an extensive scholarship programme. These types of support include: scholarship for first years; merit scholarship; scholarship for young researchers

who, in addition to their study duties, participate in the work of departments; the Dean’s Award; accommodation, sports and social scholarship. The amount of funding has increased over the last five years.







**Quality of educational
and creative activities**

4

4 Quality of educational and creative activities

New accreditations

In 2020, two doctoral study programmes, one master's and one bachelor's were successfully accredited within the CZU's institutional accreditation.

Namely, it is the doctoral study programme **Economics and Management of Forestry and Wood Industry**, which replaces the current programme **Economics and Management of an Enterprise**, and then the doctoral study programme **Wood Processing and Forest Machinery**. Both study programmes were also accredited in English. For the new academic year, we also managed to prepare a master's degree programme **Forest Engineering** and a bachelor's degree programme **Game Management and Wildlife Conservation**, which will replace the current **Operation and Game Management programme**. Both programmes have undergone a number of changes, which we hope will contribute to increasing the employability of our graduates in today's world. These latest accreditations have completed work on renewing the portfolio of study programmes to meet new legislative conditions. The following years will be marked by an increase in the quality of all FFWS study programmes.



Publishing activity

Despite the unfavourable development due to the Covid-19 pandemic, the Faculty's publishing activities continued in 2020.

A new graphic format of our study materials was created in order to increase the attractiveness of our publications outside the Faculty. A total of five materials were published in this new format in 2020, and the Faculty thus successfully continued to provide its own study materials for study programmes subjects.

CSR activities

■ As it does every year, FFWS supported DUHA, an association which helps people with mental disabilities, by purchasing a painting that was used for the Faculty New Year's wishes.

■ Faculty students and employees took part in the Vltava Run race for the fourth year in a row, during which a voluntary fundraiser was again held to support clients of the Jedlička Institute in Prague through their sports club.

■ Faculty management also strives to ensure a pleasant working environment for all employees, so the year 2020 was marked by raising employees' awareness through the newly published Newsletter in electronic form, and the organization of a FFWS Family Day. At all Faculty events,

the effort is to use returnable packaging as well as packaging from recycled materials as much as possible.

■ Faculty members also regularly support projects for children, such as forest pedagogy or the YPEF competition. We also participated in trade fairs for the general public and children (For Wood, DIGI-TECH-VĚDA in Poděbrady, Science and Technology Week online, Scientists' Night online).

■ Faculty researchers played an important role in further combating African swine fever by preparing strategies and plans for the eradication of this disease.

■ Within the scope of its professional focus, FFWS also became involved in the fight against Covid-19 by lending its Nanospider equipment to an external company for the production of protective masks.





SIENS

SOMATOM Scope

Science
and research

5

5 Science and research



Creating a quality background and environment for excellent scientific research



- Funds raised for science and research – more than 225 million CZK
- Purchase of more than 90 instruments and equipment designed to ensure science and research



Support and motivation of employees and PhD students

Employees

- rewards for publishing in excellent journals (NI and 1st decile on WoS according to AIS)
- support for important and promising scientific teams
- support for the acquisition of major and strategic projects, especially international ones
- support for activities for FFWS involvement in international consortia
- creating excellent outputs in the Social Relevance or Contribution to Knowledge category according to M17+
- search for quality junior researchers from abroad
- focus on popularizing science at FFWS
- support for trips to long-term internships abroad

PhD students

- significant increase in scholarships for extraordinary performances and results in the field of scientific research – a total of more than 24 million CZK paid
- education of PhD students using new subjects Academic writing and Science communication and other educational lectures and special courses
- support for trips to long-term internships and conferences abroad
- creation of a new electronic system of compulsory registration of PhD students' activities WorkIS



Improving the quality of PhD studies

- monitoring supervisors' number of supervised PhD students
- monitoring supervisors' publishing activities
- adjustments in membership in Departmental Boards (now an employee can be on two boards max.)
- **Support from Internal Grant Agency projects:**

8,314,518.16 CZK drawn

53 projects supported

71 PhD students

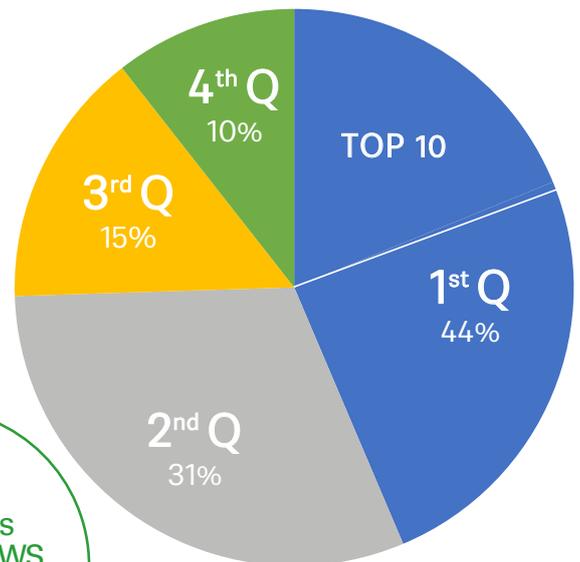
Publishing in excellent journals



Development of the number of articles on WoS

Results according to AIS - quartiles
More than 75% in 1st and 2nd Q on WoS

Information about outputs on WoS



Articles in Nature Index

- **Magnetic alignment enhances homing efficiency of hunting dogs**

Kateřina Benediktov, Jana Admkov, Jan Svoboda, Michael Scott Painter, Petra Novkov, Vlastimil Hart, Hynek Burda

(eLife)

- **Forest microclimate dynamics drive plant responses to warming**

Martin Kopeck

(Science)

- **Mate discrimination among subspecies through a conserved olfactory pathway**

Byrappa Ammagarahalli

(Science Advances)

- **Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia**

Miroslav Svoboda

(Proceedings of the National Academy of Sciences of the United States of America)



Number of articles in WoS according to the FORD classification



Improving the quality of PhD studies



**PhD studies
(as of 31st
December
2020)**

28 students enrolled in study for academic year 2020/21

106 full-time students

20 students in combined form

47 foreign students

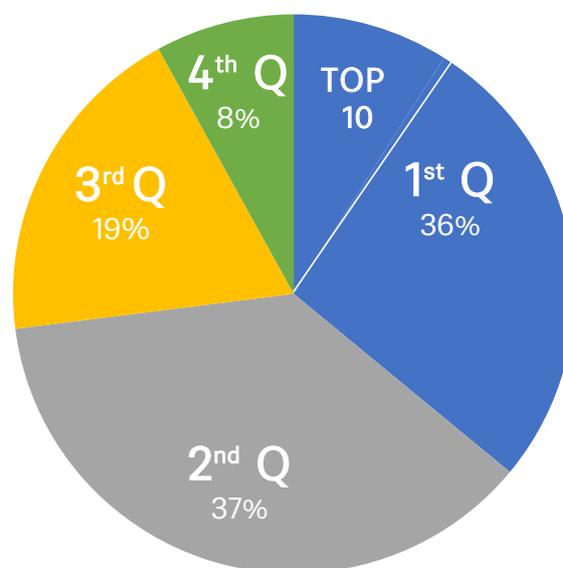
5 successfully defended dissertation theses

Publishing by PhD students

78 publications on WoS (total of 73 PhD students)

39 publications where the PhD student is in first place in the author's team

32 publications of PhD students which were created in cooperation with a foreign institution



Results according to AIS – quartiles

Support for quality application outputs

A total of 74 application outputs

5 professional monographs

3 chapters in a book

8 professional articles in a yearbook

1 utility model

5 prototypes, functional samples

3 certified methodologies, procedures, maps

2 software

12 summary research reports

3 audio-visual works

32 other results

Popularization of science



- A Newsletter for Practice was established – the first issue was published as a supplement to the Lesnická práce journal
- Faculty outputs were presented to the public – the section „Popularization of science“
- The presentation of projects and outputs for practice on the Faculty website was updated and modernized





Internationalization

6

6 Internationalization

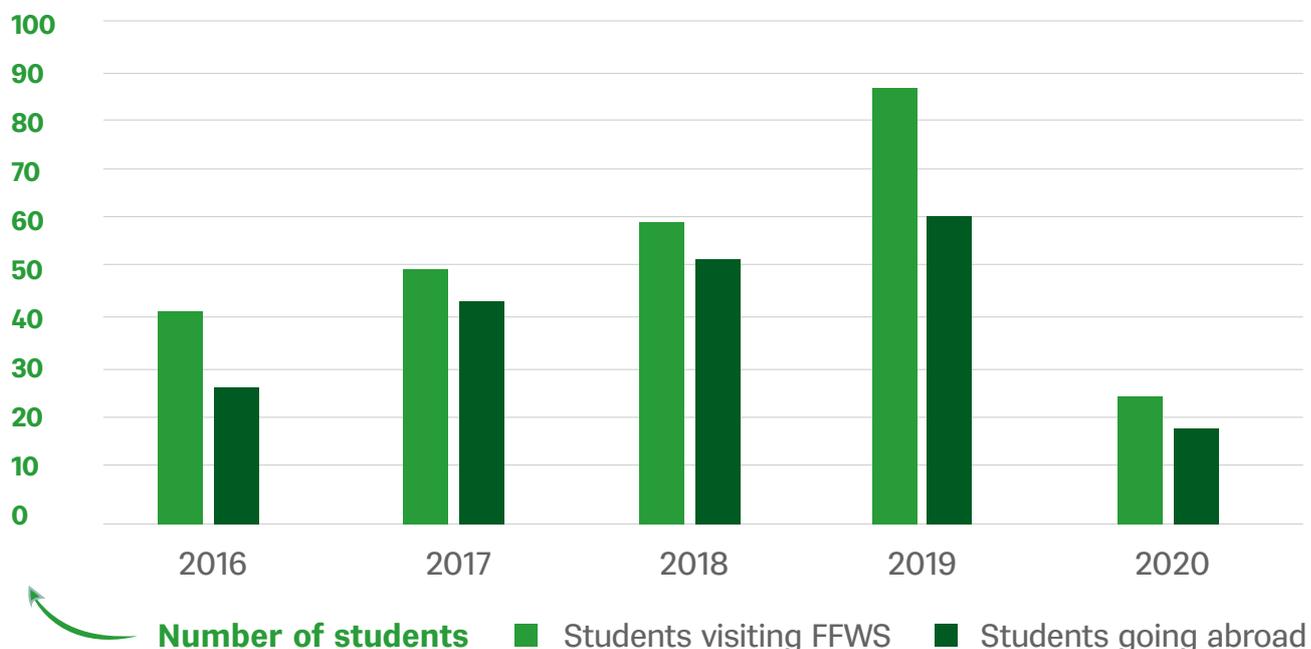
International activities of the Faculty in 2020 were significantly affected by the Covid-19 pandemic. The Faculty continued to deepen international cooperation leading to the improvement of pedagogical and scientific research activities, as the area of internationalization is currently a significant priority across the FFWS activities.



Students and teachers had a choice of 72 universities from 24 countries, but interest was low this year

There has been a significant decline in student mobility. FFWS offers the opportunity to study abroad within the Erasmus+ programme, and supports practical internships, studies within an intergovernmental scholarship or the CEEPUS programme. Among the trips for FFWS students, 10 study stays, 2 practical internships, and 6 PhD student internships were carried out. Many students had to end their stay prematurely or implemented so-called virtual mobility and participated in classes online. As for students visiting the Faculty, there were 26 study stays and 7 internships.

Development of the number of visits and foreign trips of students within international mobility

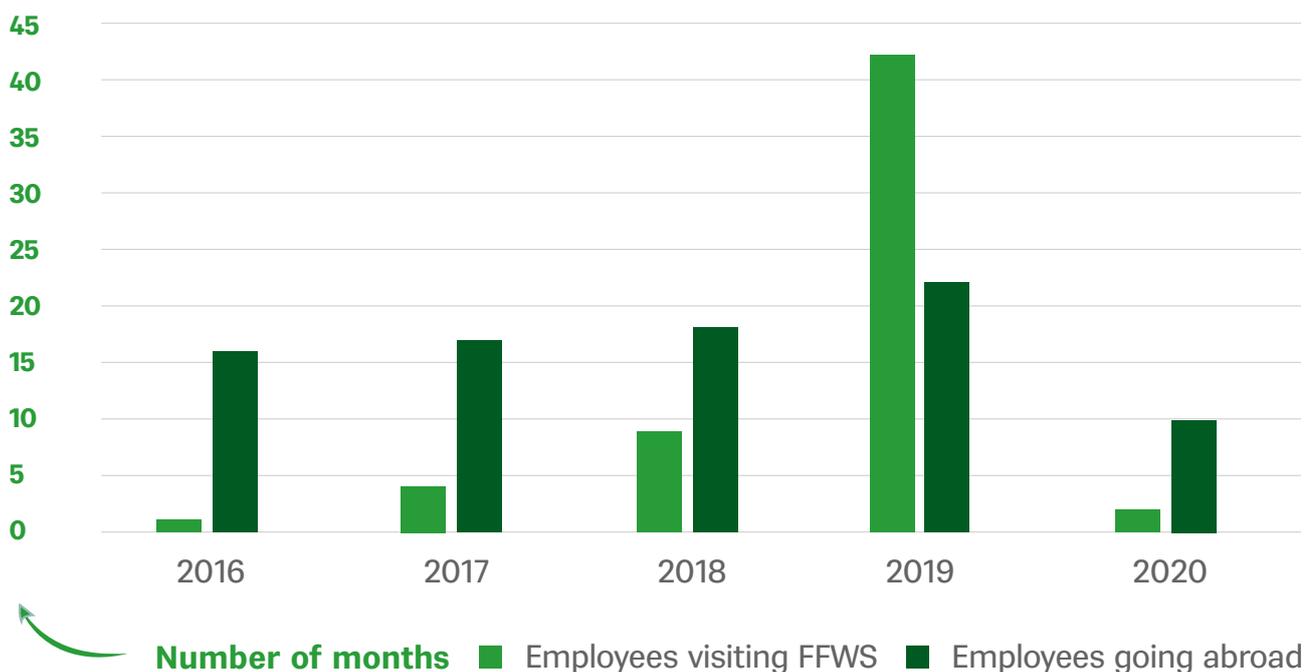


Summer schools

Another important part of FFWS's international activities is the organization of summer schools; however, in 2020 it was not possible to organize them.

Employee mobility

Despite the difficult global situation, 12 members of academic staff were able to travel within the Erasmus+ programme (of which, 2 in the „teaching“ category and 10 in the „training“ category). In total, employees went to partner institutions for 195 days. In addition to universities in Poland, Hungary, and Slovakia, cooperation has been strengthened with the University of Lulea and the University of Stuttgart.



Development of the number of visits and foreign trips of employees within mobility

Foreign experts

In contrast, the significant increase of visits by foreign experts to FFWS in recent years has been substantially dampened. During 2020, we recorded only 10 visits of experts to FFWS.

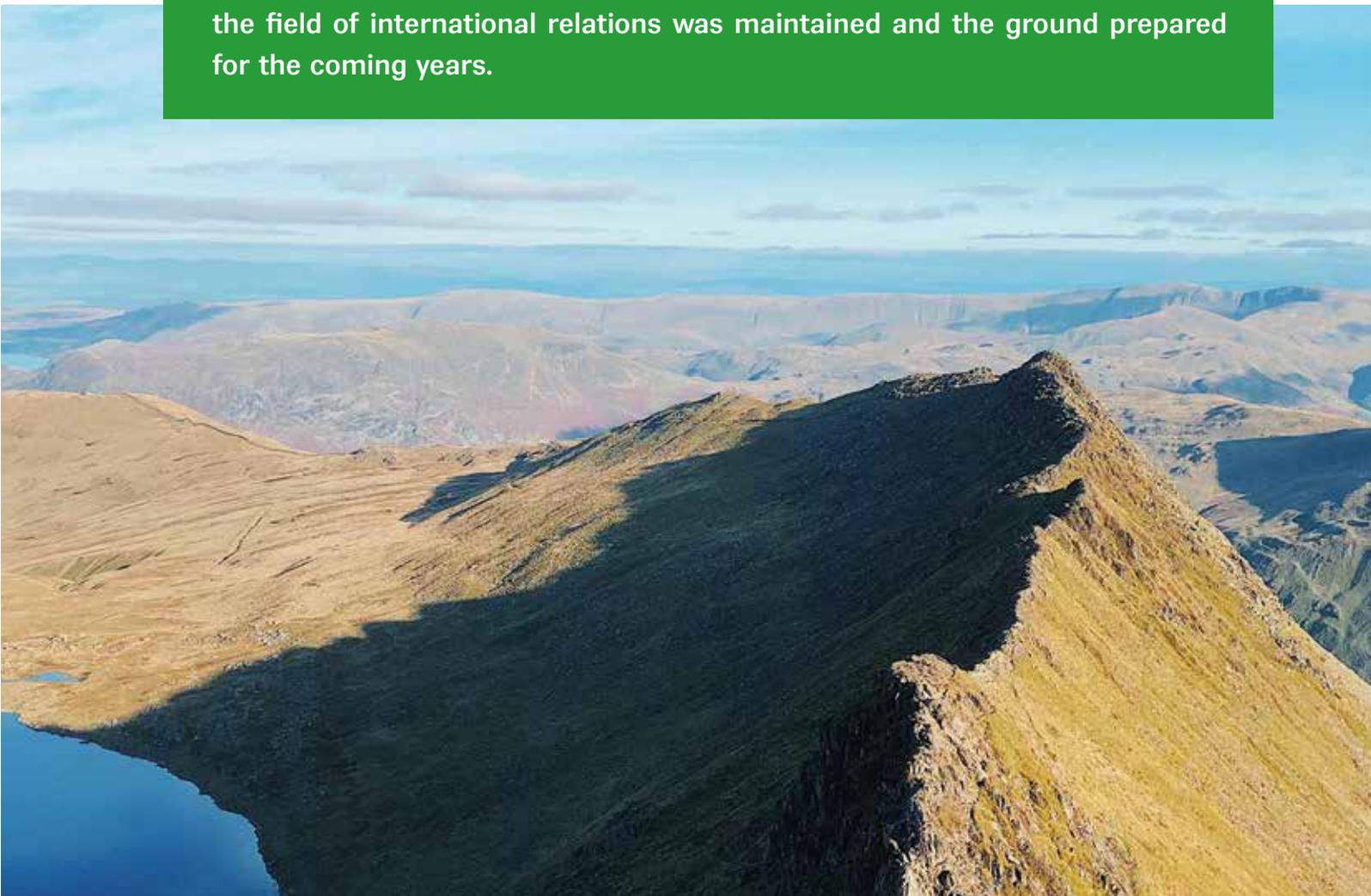
Foreign business trips

In recent years, FFWS employees have increasingly travelled abroad (especially as part of implemented projects). In 2020, a total of 95 trips took place and the total number of days abroad was 755.

Conferences, workshops, and seminars

Although the pandemic disrupted the planned participation in foreign conferences and the organization of international conferences at the Faculty, staff actively sought to organize and participate in various conferences, workshops, and seminars. Many events were transferred to the online environment, which allowed at least some compensation for the planned activities. An example is the virtual online symposium within the conference Entomology Society of America Annual Meeting 2020.

Despite the fact that many activities in the field of internationalization had to be curtailed, or the form was changed to the online environment, the effort in the field of international relations was maintained and the ground prepared for the coming years.





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**Faculty
development**

7

7 Faculty development

2020 was a record year for FFWS in terms of the number of submitted international project applications, especially in the H2020 programme and the Life programme. Simultaneously, it was also the year in which our first project financed from H2020 was approved. Furthermore, the preparation and implementation of projects financed from European operational programmes or national resources continued; these still represent the dominant project resources of the FFWS.

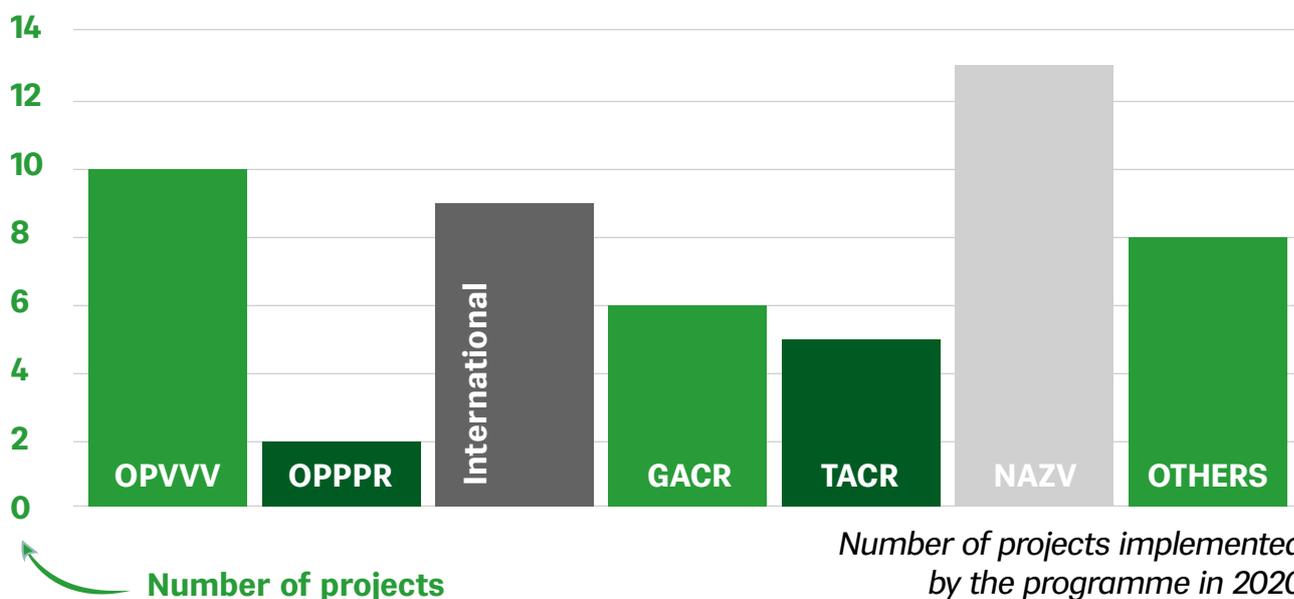


Implemented projects

FFWS implemented a total of 53 projects in 2020 with an annual budget of almost 165 million CZK,

of which the largest financial share was accounted for by projects from the European Structural and Investment Funds (ESIF) to an amount exceeding 110 million CZK, while NAZV projects had available annual budgets amounting to approximately 22 million CZK. From

the project budgets, the construction of infrastructure and purchase of investments amounted to approximately 17 million CZK; the remaining funds were used mainly for the salaries of researchers, or for the purchase of consumables and services. In terms of the number of implemented projects, the largest representation was projects financed from the National Agency for Agricultural Research (NAZV), totalling 13, followed by 10 projects from the Operational Programme Research, Development and Education (OP VVV) and 9 international projects.



Budgets of implemented projects:

Programme	GACR	TACR	NAZV	INTERNATIONAL
Annual budget in CZK	7,414,000.00	4,256,399.42	22,219,800.00	1,855,246.00
Programme	OPPPR	OPVVV	OTHERS	TOTAL
Annual budget in CZK	3,690,580.17	88,880,608.22	2,590,666.67	163,569,792.22

Technology transfer

During the autumn, the Faculty also focused on another area, namely technology transfer and the commercialization of project outputs. In August, the implementation of the Faculty project Proof of Concept ended, the three outputs of which received support from Faculty management for their further development and commercialization. These are the **T-Nuro web application** designed to support the optimization of the production structure of ornamental and forest nurseries, the **Sojka („Jay“) mobile application** enabling monitoring of wild animals in cities and municipalities, and the **TreeZ mobile and web application** used to identify and monitor the occurrence of pests and biotic damage.

Projects from international competitions

The year 2020 was very successful in the area of submitting international projects. **A total of 20 international projects were submitted, of which 15 were project applications**

for the Horizon 2020 programme and 3 project applications for the Life programme. As of the closing date, we know that at least 3 project applications were supported. These are the **RESONATE project** from H2020, **LIFE PROGNOSSES** from the Life programme, and **4Map4Health** from the CHIST-ERA programme. All these projects will be launched during 2021. Several international projects also started during 2020. Specifically, there were 2 projects financed from the **Interreg CENTRAL EUROPE programme**, namely **TEACHER-CE** dealing with water management, and the **Fem4Forest** project to support women in forestry. In addition, there were 2 projects financed from the Erasmus+ programme, namely the **HUNTOUR** project focused on hunting tourism, and the **FRAME** project to support education in Southeast Asia. In September, the seven-year **CLIMAFORCEE-LIFE** project, co-financed by the European Life programme, was launched to focus on adapting forest management in Central and Eastern Europe to climate change.





**Financial and personnel
management**

8

8 Financial and personnel management

Financial management

In total, FFWS received a total of 170,424,664 CZK from contributions and subsidies to the budget for 2020, within the subsidy per student, institutional support for long-term conceptual development (DKR) of the institution, and for specific research.

The Faculty as a whole adhered to the planned budget

The Faculty managed a surplus in its main activity – in the contribution to operating activities to the amount of **28,966,506.39 CZK**. As of 31st December 2020, the given amount was transferred to the Operating funds fund.

	Scholarship fund	Remuneration fund	Investment property development fund	Operating funds fund	Fund for operating funds after tax	Foreign gifts
As of 1 st January 2020	3,998,070	285,204	1,747,027	68,937,677	810,482	2,650,432
Fund creation	3,331,000	500,000	1,930,930	28,880,834	6,508,563	0
Drawing on the fund	7,144,239	664,478	1,013,759	27,728,331	418,449	0
As of 31 st December 2020	184,831	120,726	2,664,198	70,090,180	6,900,596	2,650,432

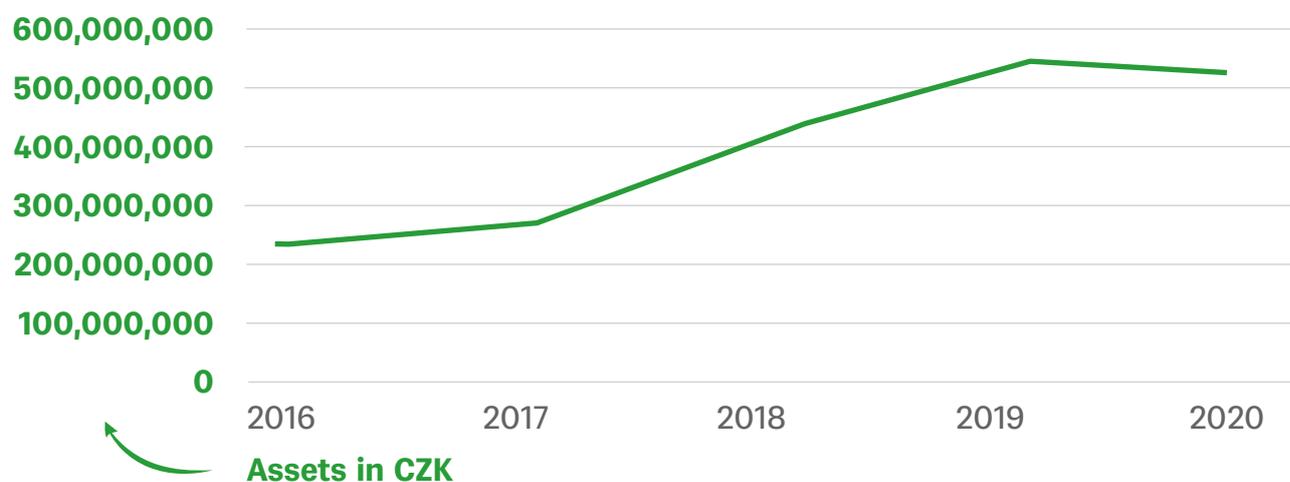
Amount in CZK 

Total financial reserve of the Faculty

created from the main activity as of 31st December 2020 was **82,305,407 CZK** (Investment property development fund, Operating funds fund, Fund for operating funds after tax, balances on foreign donations).

In 2020, the funds of Investment Institutional Support to the amount of **9,785,991 CZK** were also used for the acquisition of tangible fixed assets and technical improvement of tangible assets.

Development of FFWS assets 2016–2020



Development of funds allocated to the IGA in 2016–2020



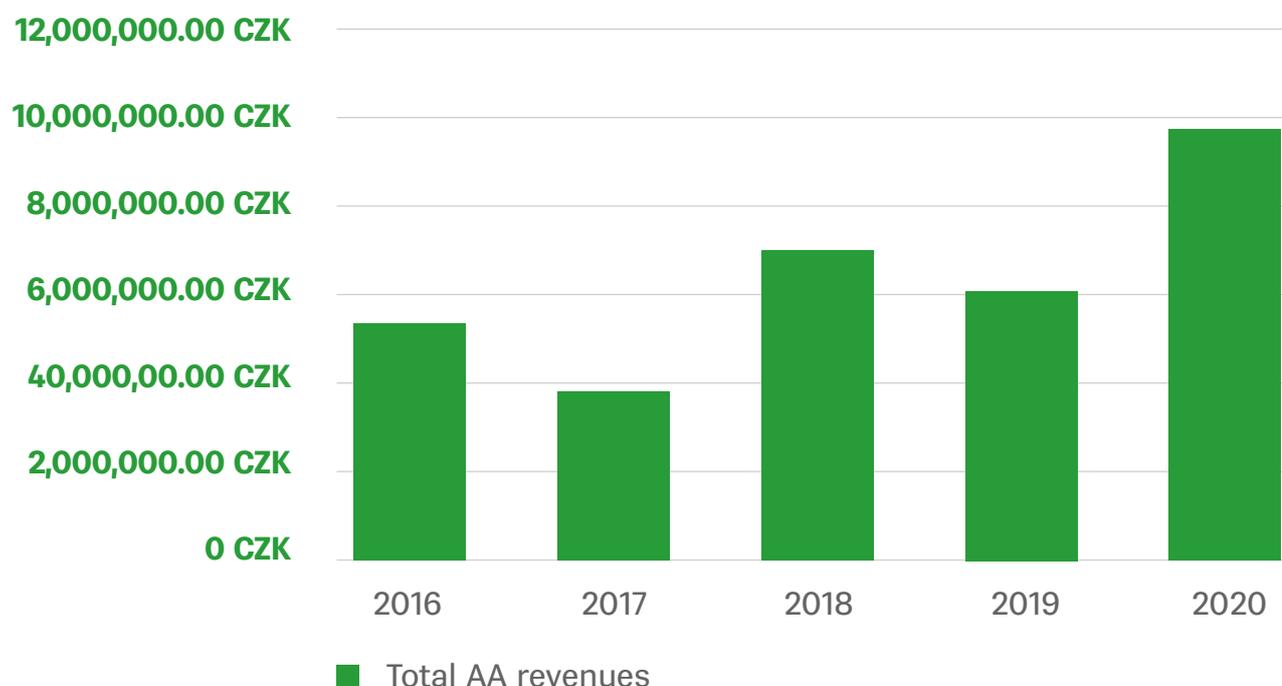
Development of subsidy for specific research and IGA 2016–2020 in CZK

Specific research	2016	2017	2018	2019	2020
Subsidy	5,552,174	5,810,511	6,832,525	10,091,150	9,456,568
IGA	5,077,788	5,148,113	6,014,250	8,943,950	8,625,926

Development of revenues from contract research and ancillary activities 2016–2020 in CZK

	2016	2017	2018	2019	2020
Total AA revenues	5,396,671.65	3,818,276.94	7,032,050.50	6,120,884.16	9,776,760.47
Profit after taxation	571,499.58	643,562.94	652,412.72	575,979.22	1,433,424.46

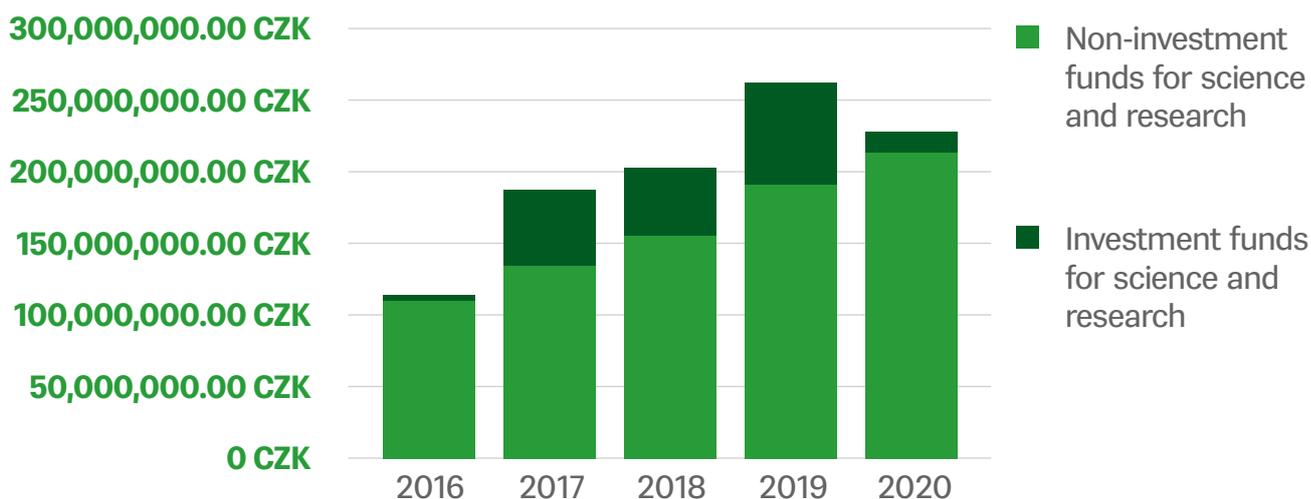
Total AA revenues 2016–2020



Total funds spent on educational activities 2016–2020



Total funds spent on scientific and research activities 2016–2020



Other sources of funding for FFWS activities

were funds obtained within projects of GACR, TACR, NAZV, OP VVV, within the contract research and own activities.

In 2020, FFWS managed non-investment funds in the total amount of **362,215,937.46 CZK** and made investments of **22,809,913.83 CZK**.

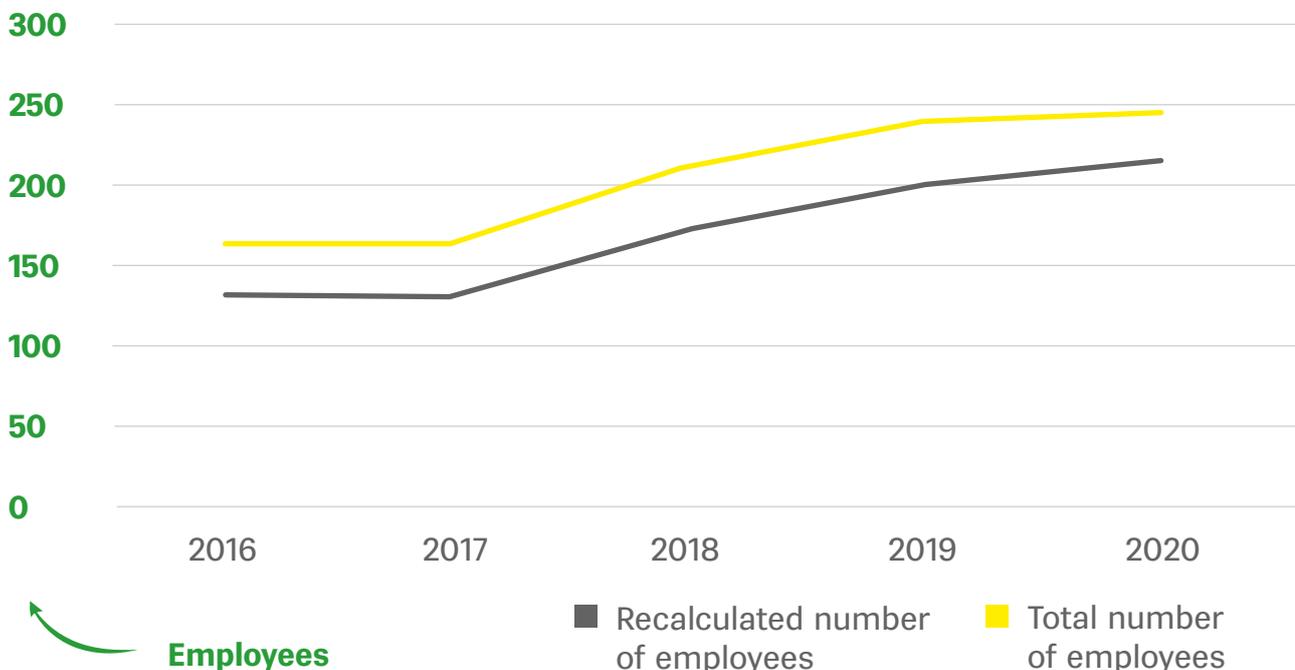
FFWS employee structure

Changes in academic positions,

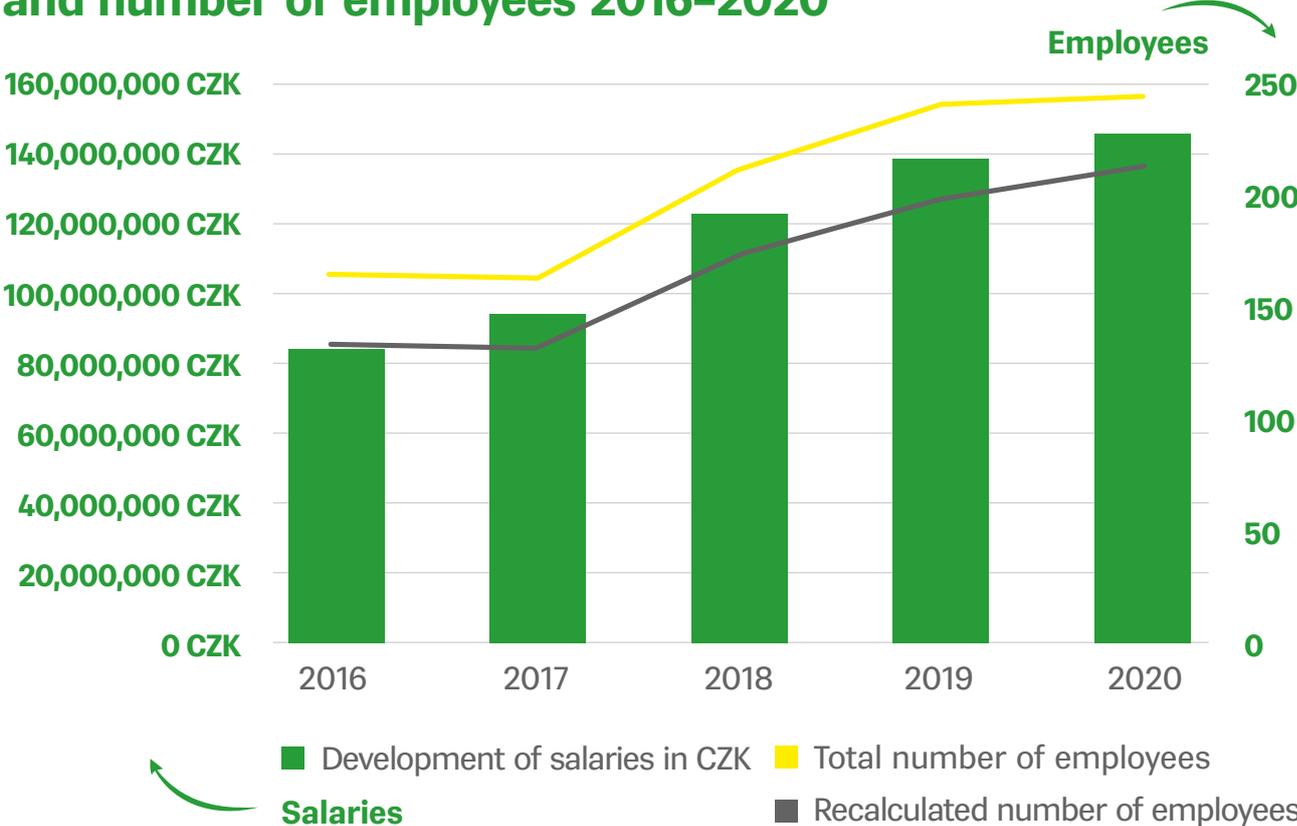
especially decreases in the number of recalculated hours of professors and associate professors, were caused by their participation in operational programmes, while the increase in researchers is caused by the hiring of new and existing employees for positions in operational programmes.

In 2020, the Faculty qualification structure, expressed by the ratio of professors to associate professors and professional assistants, was 16%: 30%: 54%. The goal set in previous years, namely to achieve a 45% share of professors and associate professors in the total number of academic staff, is constantly being met. The recalculated share of working hours of academic staff with foreign citizenship is 23.97% of the total number of working hours of all academic staff.

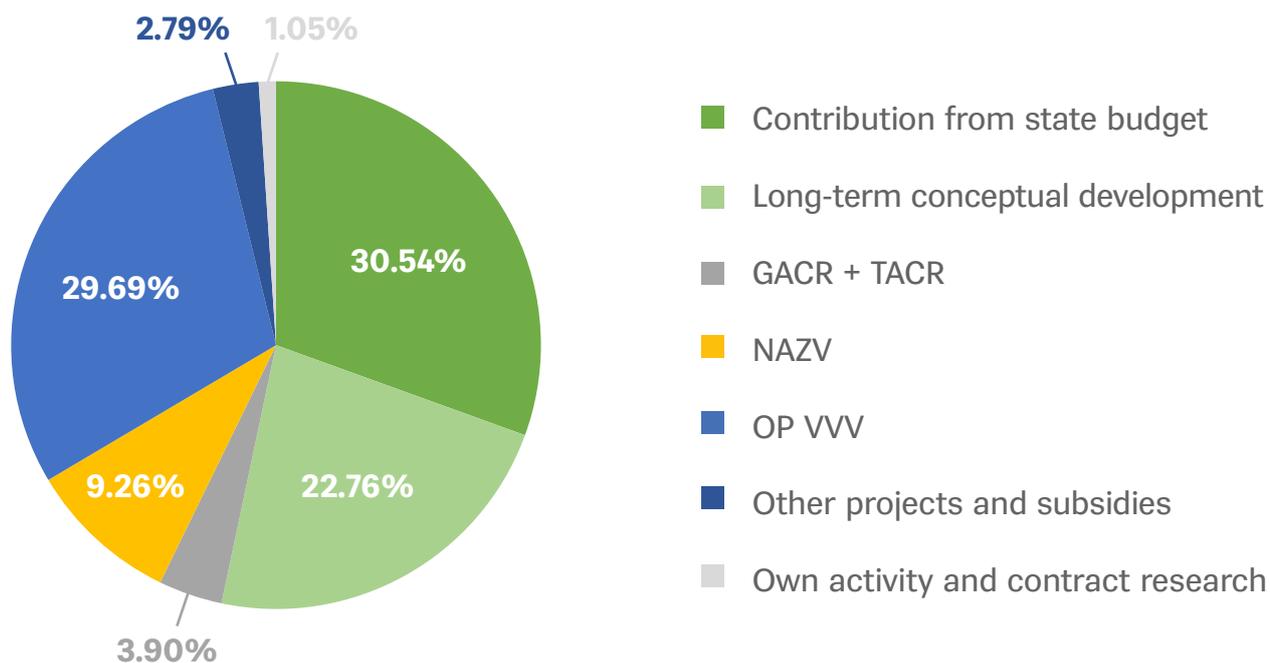
Development of the number of FFWS employees 2016–2020



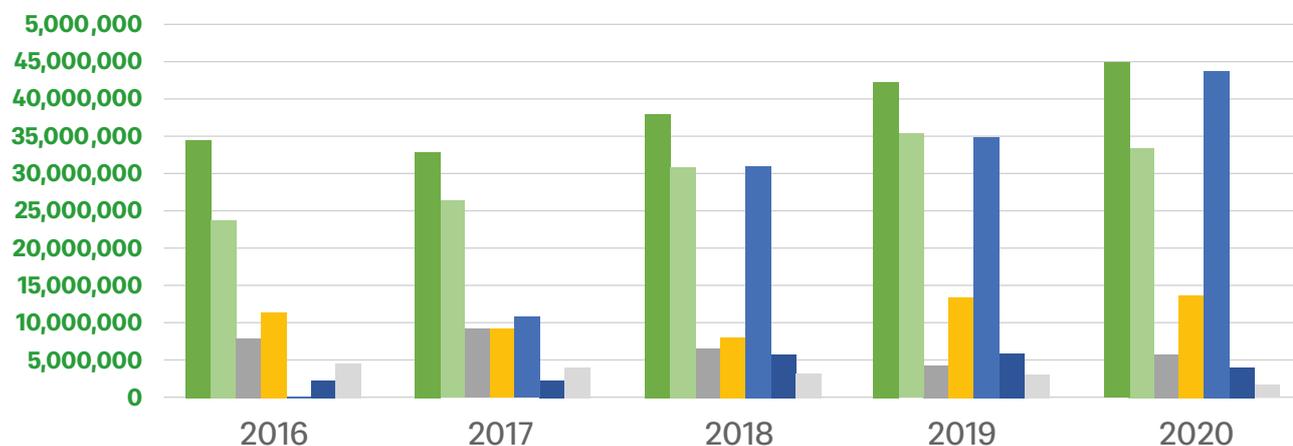
Development of financial resources for salaries and number of employees 2016–2020



Salary financing structure in 2020



Development of the structure of sources for financing salaries 2016–2020



Salaries in CZK

Share of salary financing sources







**Marketing
activities**

9

9 Marketing activities

Marketing department as part of faculty strategy

One of the priorities of the Faculty is its promotion to the general and professional public. Every year we organize and co-organize a large number of events where we promote our studies, science, research, and other activities that the Faculty deals with. In 2020, some events had to be moved to the online environment, but even so, a large number of them took place.

Working with secondary school students and young people in general is one of the priorities. Through the [international competition Young People in European Forests \(YPEF\)](#), the Faculty has the opportunity to meet biology enthusiasts from primary and secondary schools. As it does every year,

the Faculty organized local rounds, a regional round, and a national round of this competition. There was also the traditional Summer Workshop for secondary school students, Open Days, and we participated in the Gaudeamus fair as well as other events.



Activities for employees are also very important for the Faculty, which is why the **FFWS Family Day** took place at the beginning of Sep-

tember, where staff could take their families and all enjoy good food and drink, a band, face painting, children's theatre, and much more.



New information publications

The Faculty started publishing an **internal Newsletter** and a **Newsletter for Practice** on a regular basis. With the internal Newsletter, the Faculty raises the awareness of employees and PhD students about what is happening at the Faculty, gives news, and presents plans for the near future. It also includes a section Who you don't know at our Faculty and an interview with an interesting person from the Faculty. The Did You Know section is also popular. The newsletter is published quarterly. The Newsletter for Practice was first published in the autumn of 2020. It is available to the Faculty staff and PhD students, but mainly it was attached to the November issue of *Lesnická práce* journal to reach as many people in professional practice as possible. Both newsletters are very popular.

NEWSLETTER

FACULTY OF FORESTRY AND WOOD SCIENCES
CZECH UNIVERSITY OF LIFE SCIENCES IN PRAGUE





Responsibility

Together for a good cause, this is the motto that the Faculty follows in its activities within social responsibility. We already support the DUHA Association, working with people with mental disabilities, from which we buy a painting every year which is then used on our New Year's cards. In December, a check for 25,000 CZK was also handed over to a representative of the Sports Club of the Jedlička Institute in Prague. Financial support consisted of contributions from runners from the Faculty teams in the Vltava Run race, Faculty management, and other Faculty staff. The Faculty has been providing this financial support for several years. Thanks to our close relationship with nature and animals, at the end of the year we also decided to support Prague Zoo. By voting on our Facebook page, fans chose the European elk for annual adoption.

Audio-visual materials

Due to the situation, 2020 was focused onto the online world. The Faculty added the first video to its YouTube profile 9 years ago, and since then you can find 85 videos on it. It was in 2020 that we managed to add a record number of 23 videos. In recent years, our priority is the high quality of videos and their English versions. We create videos on many topics, especially outputs promoting the possibilities of study, technical equipment, modern facilities, scientific outputs, and videos from past events. All videos can be found on the FFWS in Prague YouTube profile.

Faculty in the media

Communicating information to the general and professional public through the media is also one of the priorities of our Faculty staff. There were many topics attractive to journalists, from the media-resonant bark beetle calamity, drought, and African swine fever to our international projects, the construction of a nature trail in the FFWS Arboretum, magnetism, and much more. In total, the Faculty was mentioned in the media 54 times. These were television reports, radio programmes, articles in newspapers and on the Internet.





CALENDAR OF EVENTS 2020



Gaudeamus Prague

European trade fair for post-secondary and lifelong learning

Open Days

Faculty presentation

FFWS "Driven hunt"

Social hunting event

Lecture "Population analysis in studying forest plant species populations"

Lecture for students and staff



Trade Fair FOR WOOD

Trade fair of wooden buildings

Job Fair

Trade for students

University Fair – Most

Event for students

Lectures at secondary schools

Event for secondary school students

Visits to secondary forestry schools

Lectures on study

Lecture "Subterranean termite foraging and tunneling behavior"

Lecture for students and staff

Lecture "Spectroscopic prediction of physiology and genomic connectivity among eucalyptus populations"

Lecture for students and staff

Lecture "Coexistence of mushrooms and trees"

Lecture for students and staff



Summer workshop

Event for secondary school students

Seminar "Mathematical modelling in forestry and agriculture"

Seminar for students and staff



DIGI-TECH-SCIENCE in Poděbrady

Event for the public

YPEF Regional Round

Competition for primary and secondary school students

Scientists' Night - online

Event for the public

Meeting of graduates

Meeting of graduates after 60 years - The Arboretum

Wood Science Day at FFWS

Faculty presentation

Wood and innovation - Czech solutions for Finland

Virtual conference

Family Day at FFWS

Informal staff meeting

Workshop - Joint activities for a more effective adaptation of water management to climate change in Central Europe - online

Workshop for the public

"Connected Lighting for Smart Furniture" webinar

Webinar for students and staff



YPEF National Round - online

Competition for primary and secondary school students

Science and Technology Week - online

Event for the public

Open Day - online

Faculty presentation



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