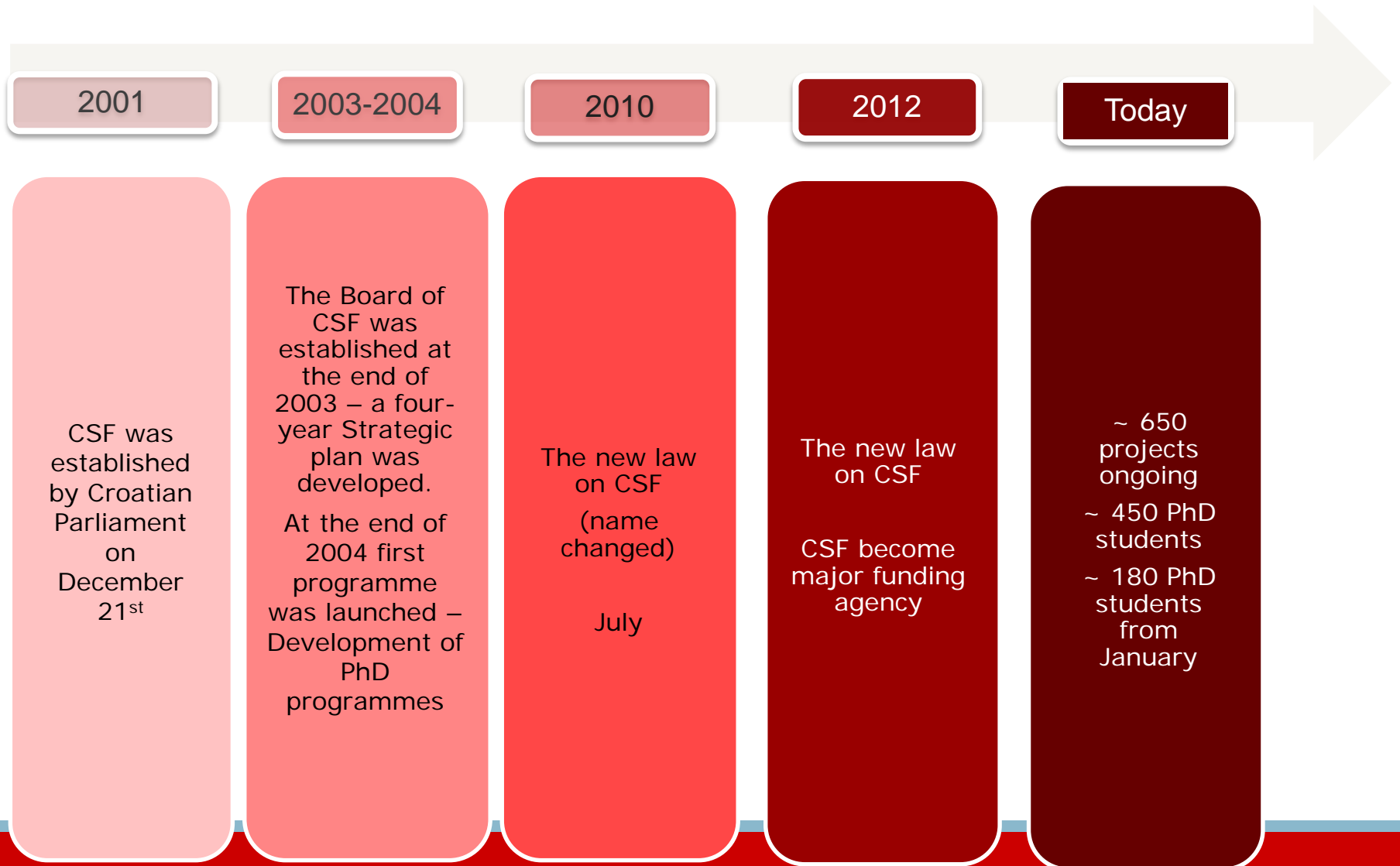


**Hrvatska zaklada za znanost (HRZZ)
Croatian Science Foundation (CSF)**

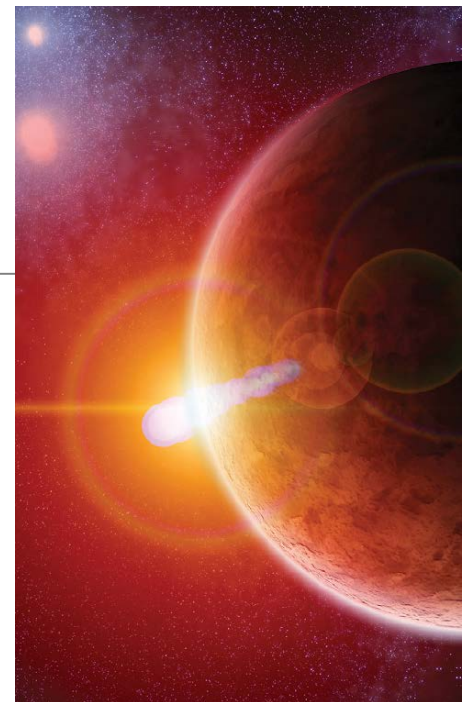
dr. sc. Lovorka Barać Lauc

About CSF



Main goal and mission

“ *The Foundation's main mission is to promote science, higher education and technological development in Croatia in order to ensure the development of economy and support employment.* ”

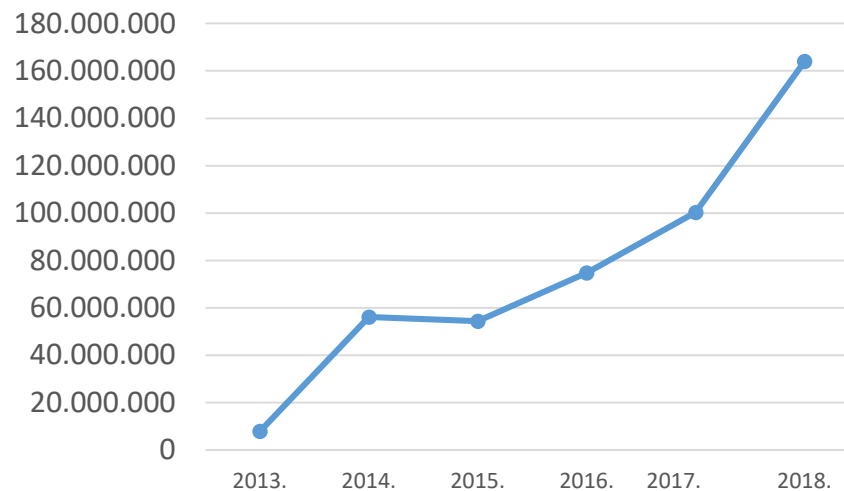


“ *To accomplish its basic purpose, the Foundation shall ensure financial support for basic, applied and developmental research on the topics of strategic importance for the Republic of Croatia and the research fellowships.* ”

Source: *Act On The Croatian Science Foundation*
(NN 117/2001, 46/2009, 92/2010, 78/2012)

Role of the CSF in financing research projects

In 2013, the CSF started implementing calls for national research projects and, from 2014, funding PhD students.



Funds disbursed for financing projects (2013-2018) in HRK

Programs

Research Projects

- Research Projects
 - Program of Financing Research and Development Activities in the Field of Climate Change

Brain Gain

- Installation Research Projects

Partnership

- Partnership in Research

Training of Doctoral Students

- Young Researchers' Career Development Project – Training of Doctoral Students

International programmes

- Croatian-Swiss Research Programme
 - Tenure Track Pilot Programme

Transition

- Development of Croatian Professional Terminology
 - Support to researchers for the application to the ERC programmes

UKF Programmes

- Scientific Cooperation

Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

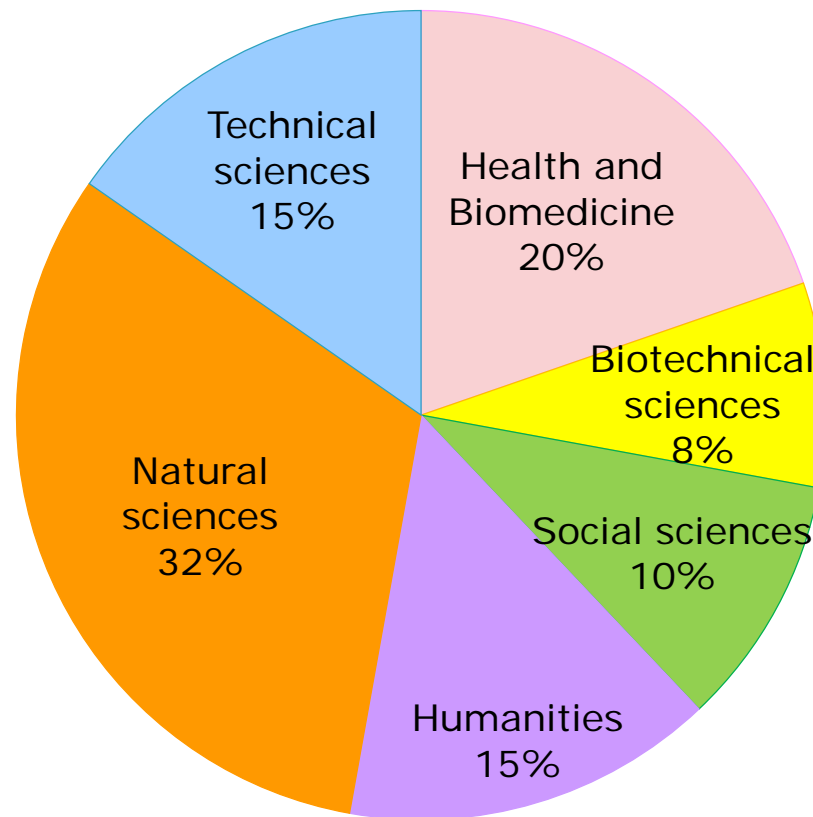
International programmes

Transition

UKF Programmes

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Do
 - Croatia
Programme
 - Development of Croatian
Professional Terminology
 - Scientific Cooperation
- Funding of basic and applied research in all scientific fields.
 - Themes are not predefined.
 - Goal: internationally competitive projects, support for scientific collaboration and formation of new research groups.
 - Duration: 4 years
 - Funding per project: up to 1.500.000,00 HRK (approx. 200.000,00 EUR).
- Programme
 - Programme
 - Support to researchers for the application to the ERC programmes

Financed projects per scientific area



Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

International programmes

Transition

UKF Programmes

- Research Projects
- Installation Research Projects
- Partnership
- Young Scientists
- Critical Path
- Development Projects
- Science
- Program of Financing Research and Development Activities in the Field of Climate Change

Program of Financing Research and Development Activities in the Field of Climate Change

- Support for R&D activities in the area of mitigation and adaptation to climate change.
- Analyses and proposals of innovation are expected in order to increase energy efficiency and use of renewable energy sources, reducing greenhouse gas emissions in the industry, agriculture and other sectors.
- Programme is financed by the Environmental Protection and Energy Efficiency Fund.
- 10 projects are financed.

Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

International programmes

Transition

UKF Programmes

- Research Projects
 - Program of Financing Research and Development Activities in the Field of Climate Change
- **Installation Research Projects**
- Partnership
 - Installation Research Projects**
 - young scientists, up to 7 years of postdoctoral education
 - to establish a new lab or research group
 - support from the institution
 - 2 mil HRK
 - 5 years
- Young Doctoral Programme
- Croatian Programme
- Development of Croatian Professional Terminology
 - Support to researchers for the application to the ERC programmes
- Scientific Cooperation

Programs

Research Projects

- Research Projects

- Program of Financing Research and Development Activities in the Field of Climate Change

Brain Gain

- Installation Research Projects

Partnership

- Partnership in Research

Training of Doctoral Students

- Young Doctor

- to increase the non-governmental investments in research (public or private sector)
- Co-financing for partner – minimum of 50% of the total value of the project

International programmes

- Croatia Program

Transition

- Development of Croatian Professional Terminology

- Support to researchers for the application to the ERC programmes

UKF Programmes

- Scientific Cooperation

Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

International programmes

Transition

UKF Programmes

○ Research Projects

Program of Financing Research and Development Activities in the Field of Climate Change

○

- **Young Researchers' Career Development Programme** - development of a stable doctoral students financing system.

○

- Increasing the number of young researchers.

○

- Funding of doctoral students' gross salary, with the primary aim of the completing a doctorate thesis.

○

- Up to 4 years.

- Around 450 PhD students are financed so far and 180 in couple months.

○

Development of Croatian Professional Terminology

○

Support to researchers for the application to the ERC programmes

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Scientific Cooperation

Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

International programmes

Transition

UKF Programmes

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o Development of Croatian Professional Terminology

o Scientific cooperation

Program of Financing Research and Development Activities in change

Croatian-Swiss Research Programme

- Swiss and Croatian researchers jointly prepare project proposals.
- 400.000 CHF (for each project, a maximum of 50% of the grant may go to the Swiss partner).
- Project duration: up to 3 years.

o Support to researchers for the application to the ERC programmes

Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

International programmes

Transition

UKF Programmes

Program of Financing Research

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○ Scientific cooperation

Tenure Track Pilot Programme

- Support excellent young researchers at the early stage of career - help them gain competences for the employment in the positions of professors or senior scientists at universities and scientific institutes.
- Personnel costs, equipment and maintenance costs, mobility allowance, research costs and overheads are financed.
- Model for career development of excellent scientists.
- 4 to 5 projects are to be financed.

Programs

Research Projects

Brain Gain

Partnership

Training of Doctoral Students

International programmes

Transition

UKF Programmes

- Research Projects
 - Program of Financing Research and Development Activities in the Field of Climate Change

- **Support to researchers for the application to the ERC programmes** - Short-term visits to the PIs of approved ERC projects are financed.
 - Croatian visiting researcher: active researcher with internationally recognised results.
 - The financing includes EUR 2.000,00 per month for the accommodation and living expenses and costs of round ticket.
 - Financing is approved for 3 to 4 mounts.
 - 4 visits are financed.
- Development of Professional Terminology
 - Short-term visits for the application to the ERC programmes

Calls in 2018

**Tenure Track
Pilot
Programme**

**Research
projects**

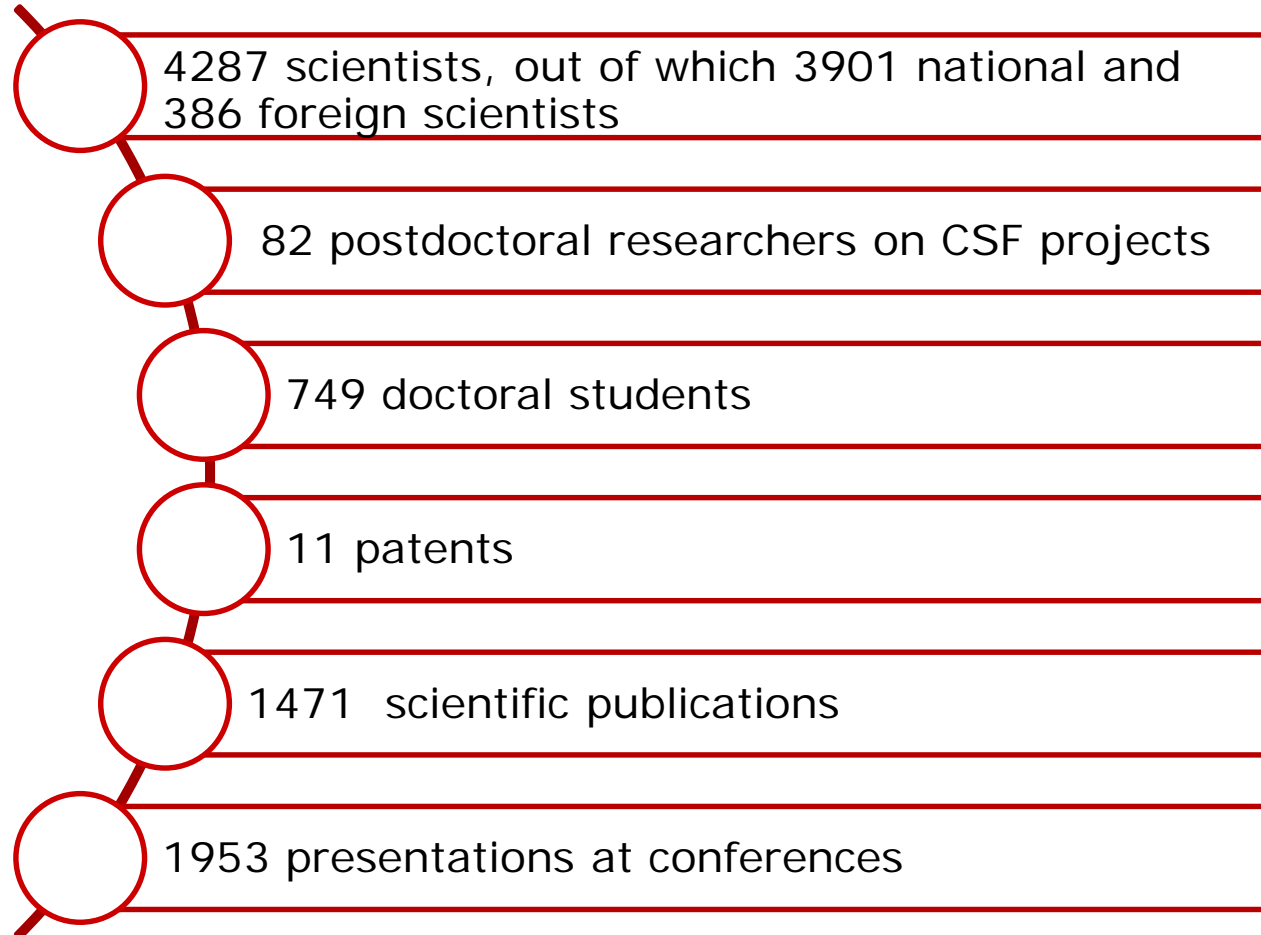
ESF

- Young researchers career development
- Scientific collaboration

**Partnership in
research**

**Support to
researchers for the
application to the
ERC programmes**

Project results in 2017 (611 funded projects)



Projects on the scope of energy and power grids

Neven Duić „Energy independent Croatia based on high penetration of Renewable Energy Sources and demand response technologies”

Igor Kuzle
„Flexible energy nodes in low carbon smart grid”

Mario Vašak „ Control-based Hierarchical Consolidation of Large Consumers for Integration in Smart Grids”

Bojan Malarić
„Smart Grid metrology infrastructure”

Igor Kuzle „ Integracija vjetroelektrana u elektroenergetski sustav sa smanjenom tromosti,“

Bojan Baletić
„Innovative Green Building Research in the Campus Living Lab”

Hrvoje Pandžić
„Advanced integration of renewable sources”

Ivo Uglešić „Development of advanced high voltage systems by application of new information and communication technologies”

Hrvoje Kozmar
„Wind and sea loads on energy structures”

Tomislav Capuder
„Sustainable concept for integration of distributed energy storage systems”

Ivan Rajšl
„Implementation of Peer-to-Peer Advanced Concept for Electricity Trading”

Frano Barbir „Water and Heat Management and Durability of PEM Fuel Cells”

Hrvoje Pandžić
„Electric Vehicle Battery Swapping Station”

Dinko Vukadinović
„Wind-Solar System for Optimized Residential Electric Generation”

Jadranko Matuško
„Computationally Efficient Predictive Control of Power Converters in Microgrids ”

Thank you for your attention!

