

Cooperation between the Czech Republic and Israel in the field of research and development and funding

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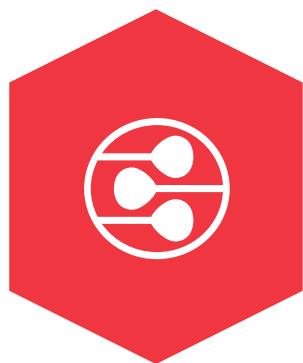
Chairman of the Technology Agency of the Czech Republic

About the TA CR

- Central state agency providing grant funding for R&D&I (est. 2009)
- Responsible to Research, Development and Innovation Council of the Czech Republic led by Prime Minister
- Budget: >120 mil USD (2018)
- 10 funding schemes in realisation (2018)
- All key topics and cross-sectional areas



TA CR TARGETS ALL
KEY SECTORS



INDUSTRY 4.0



SMART AND GREEN
TECHNOLOGIES



CULTURAL AND CREATIVE SECTORS



HUMAN AND SOCIETY

INDUSTRY

ICT

EARTH
SCIENCES

BIO-SCIENCES

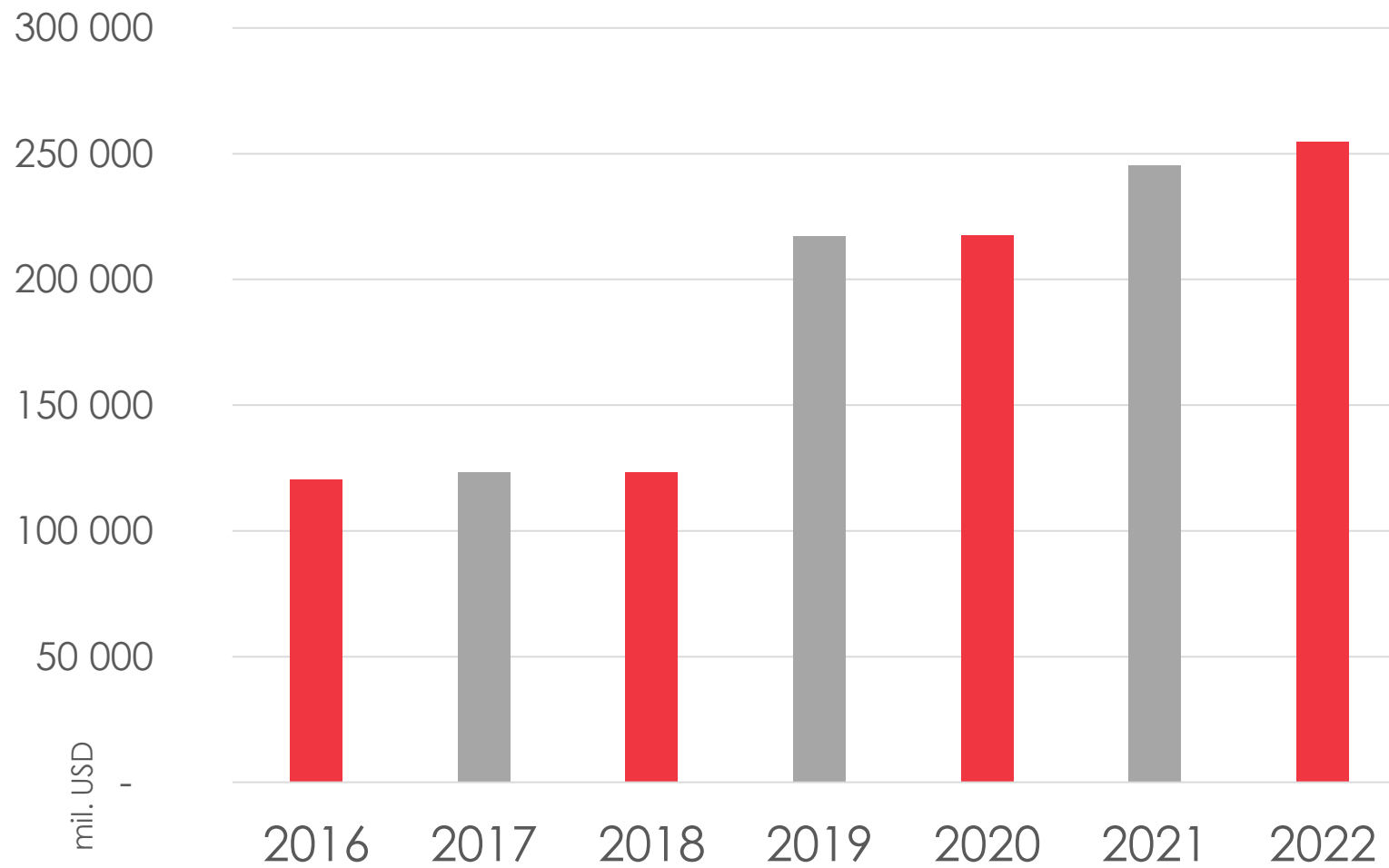
CHEMISTRY

MEDICAL SCIENCES

AGRICULTURE

MATH
AND PHYSICS

SOCIAL SCIENCES



	2016	2017	2018	2019	2020	2021	2022
Budget (ths. \$)	120 280	123 379	123 498	217 400	217 485	245 626	254 975

Czech-Israel R&D Funding

- European Framework Programmes
- ERA-NET Cofunds
- Bilateral cooperation



Delta 2

Czech-Israeli bilateral R&D cooperation

- Signing of Joint Declaration (9/2017)
- 1st Joint call for project proposals (2018)
- 2nd Joint call for project proposals (2019)

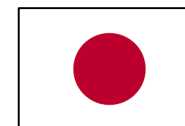


Nili Shalev (Managing Director, ISERD)
Petr Očko (Former Chairman, TA CR)

DELTA 2 programme (2020-2025)

Delta 2

- **Allocation:** 47.5 mil EUR
- **Calls:** 2019-2023 (annually)
- **Partnership countries:**
 - State of **Israel**
 - Republic of **Korea**
 - Republic of China (**Taiwan**)
 - People's Republic of **China** (2 provinces)
 - Socialist Republic of **Viet Nam**
 - **Canada** (2 provinces)
 - Federative Republic of **Brazil**
 - **Japan**





ERA-NET COFUNDs

The following ERA-NETs support **multilateral cooperation** (consortia of at least 3 partners from 3 different countries) in **environmental challenges**.

AQUATIC POLLUTANTS Call 2020

Risks posed to human health and the environment by pollutants and pathogens present in water resources.

- 1.Environmental behaviour of emerging pollutants, pathogens and antimicrobial resistant bacteria in aquatic ecosystems (*“Measuring”*)
- 2.Risk Assessment and Management of emerging pollutants, pathogens and antimicrobial resistant bacteria from aquatic ecosystems (inland and marine) to human health and environment (*“Evaluating”*)
- 3.Strategies to reduce emerging pollutants, pathogens and antimicrobial resistant bacteria in aquatic ecosystems (inland and marine) (*“Taking Actions”*)

www.waterjpi.eu

BIODIVCLIM Call 2019

- *Biodiversity and Climate Change*
- Consequences of climate change on biodiversity and nature's contributions to people
- Climate-biodiversity feedback processes
- Potential of nature-based solutions for mitigating and adapting to climate change
- Synergies and trade-offs between policies on biodiversity, climate and other relevant sectors, and the role of agents of change
- www.biodiversa.org

CHIST-ERA Call 2019

- *European Coordinated Research on Long-term Information and Communication Technologies (ICT) and ICT-based scientific challenges*
- Explainable Machine-Learning-based Artificial Intelligence
- Novel Computational Approaches for Environmental Sustainability
- www.chistera.eu

European framework programmes

15 joint projects (CZ + IL participation): FP7, H2020 (increasing trend)

Sustainable development

Project: Releasing the full potential of Instruct to expand and consolidate infrastructure services for integrated structural life science research

- **Project description:** Instruct-Ultra aims to advance the scope and efficiency of implementation of Instruct and consolidate the foundations for long-term sustainability in structural biology infrastructure and research
- **Status:** Ongoing project
- **Budget:** 3.950.000 EUR

Participants:

Aarhus Universitet, Agencia Estatal Consejo Superior de Investigaciones Científicas
Centre national de la recherche scientifique, Chemický ústav Slovenskej akadémie vied
Consorzio Interuniversitario Risonanze Magnetiche di Metallo Proteine
Ethniko Idryma Erevnon, Instituto de Tecnologia Química e Biológica Universidade NOVA de Lisboa
Johann Wolfgang Goethe-Universität Frankfurt am Main, Karolinska Institutet
Masarykova univerzita, Oulun yliopisto
The Chancellor, Masters and Scholars of the University of Oxford, Universidade NOVA de Lisboa
Universiteit Utrecht, VIB, Weizmann Institute of Science

Other fields of FP7/H2020 projects: life sciences, nanotechnologies, AI/machine learning, cybersecurity, social sciences, others



Competence centre: Environmental friendly nanotechnologies and biotechnologies in water and soil treatment



Project code: [TE01020218](#)

Beneficiaries:

Palacký University Olomouc

AECOM CZ, s.r.o

AQUATEST, a.s.

DEKONTA, a.s.

GEOTEST, a.s.

LAC, s.r.o.

MEGA, a.s.

Institute of Microbiology of the CAS, v. v. i.

Technical University of Liberec

R&D subject:

Water pollution and control

Application area:

Industry, agriculture

Objectives:

Implement ecologically friendly
nanotechnologies and biotechnologies

Water and soil treatment

Remove organic, inorganic and microbial
pollution

Total amount of public funding: 8.479.000 EUR

Duration: 03/2012 – 12/2019

Zéta: Mobile Autonomous Unit for Water Generation in Desert Areas

Beneficiaries:

Czech Technical University

R&D subject:

Energy consumption and utilization

Application area:

Society

Objectives:

Within the framework of the proposed project a mobile autonomous unit for extraction of water will be developed based on previous research in the field of water vapour sorption and utilization of renewable energy sources, especially solar radiation.

Total amount of public funding:

EUR 261 302

Duration: 03/2019 – 02/2021



Project code:
TJ02000215

[Ppt](#)

[Video](#)

EPSILON: Technological and economic optimization of tertiary technologies for removing PPCPs from wastewater



Project code: [TH02030227](#)

Beneficiaries:

ENVI-PUR, s.r.o.

T. G. Masaryk Water Research Institute, public research institution

R&D subject:

Wastewater treatment

Application area:

Pollution and water control

Objectives:

The objective of the project is the development and verification of pilot plant technology suitable for tertiary treatment of certain specific pollutants (PPCPs - Pharmaceuticals and personal care products), from the already treated wastewater, which allows its re-use.

Total amount of public funding:

EUR 2 799 312

Duration: 01/2017 – 12/2019

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