



The Czech Academy  
of Sciences

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## Key Player in the Czech R&D

**Hana Sychrová**

**Member of the Academy Council, President of the Council for International Affairs**

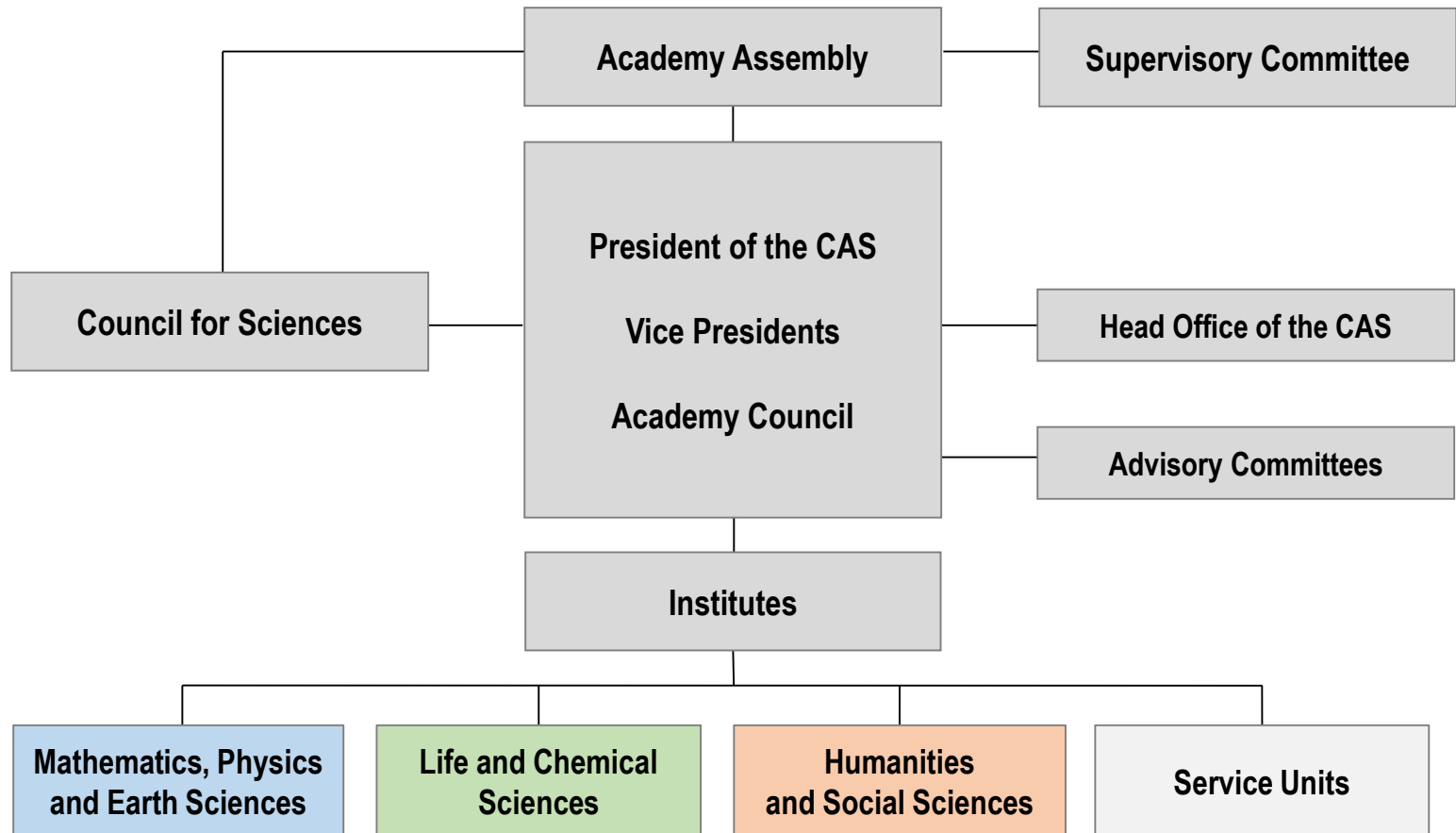
## About us

- CAS founded in 1890
- The largest Czech research organization
- **basic** and **applied research** in a broad range of disciplines

## Our activities

- **Scientific** (with 13% of all employees in Czech R&D the CAS accounts for ~ 37% of all certified results)
- **Educational** (> 2 000 PhD students, 55 joint research laboratories with universities)
- **Cooperation with Industry** (> 400 joint projects and contracts in 2016; commercialization of research results: about 30% of the CAS budget)

# CAS Structure



# Academy Council

- The Council is an elected executive body of the CAS.
- President and 3 Vice Presidents of the Academy, President of the Council for Sciences and 13 members



President Prof. Eva Zažímalová

Vice Presidents:



Prof. Jan Rídký,

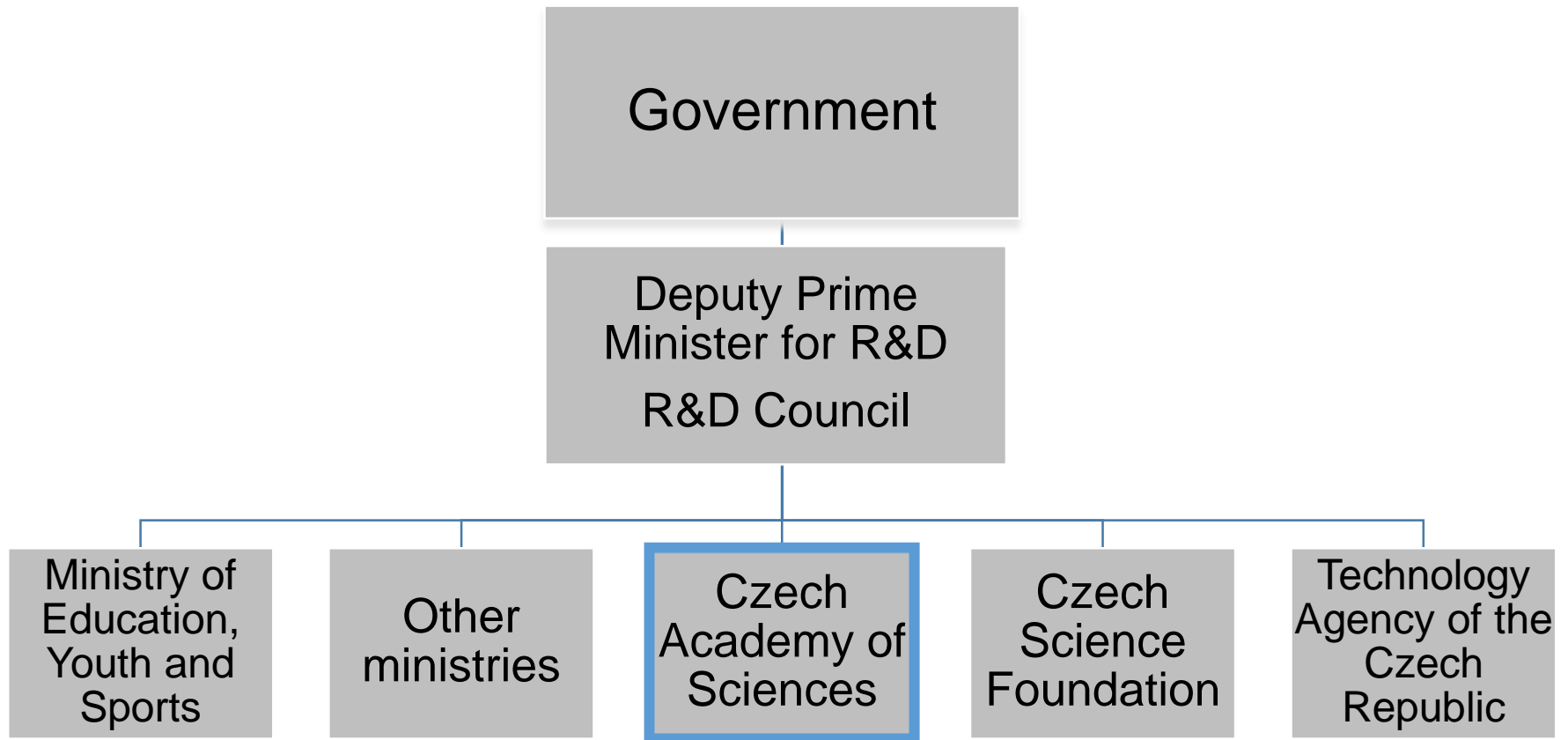


Dr. Zdeněk Havlas



Dr. Pavel Baran

# CAS in Czech R&D system

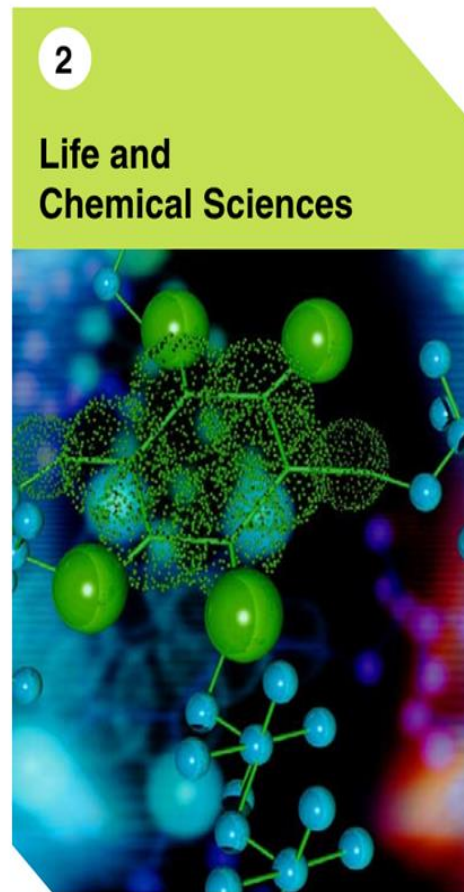
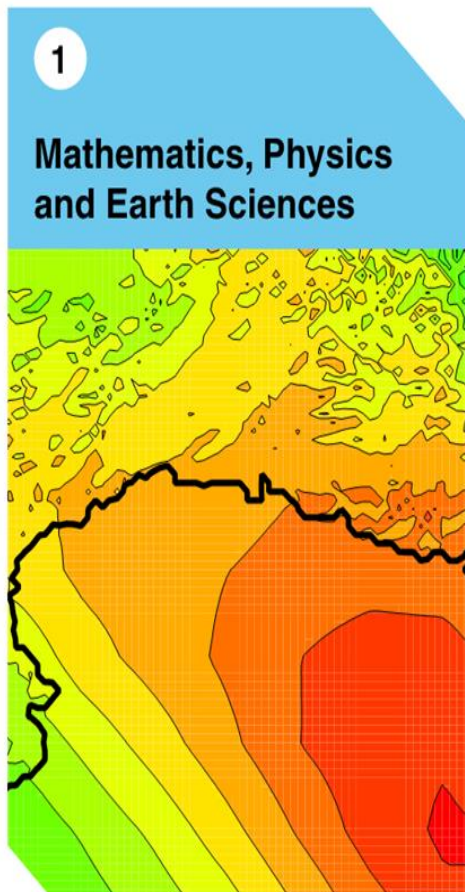


# Financing in 2016

- **Total budget:** CZK 14 billion, i. e. 0.3% of GDP
- State budget chapter: CZK 4.7 billion
- Own resources: CZK 5 billion, out of which CZK 3.3 billion from licenses (90 % 1 institute)
- Grant & project resources: CZK 4.3 billion

# Structure

CAS institutes cover **3 research areas**



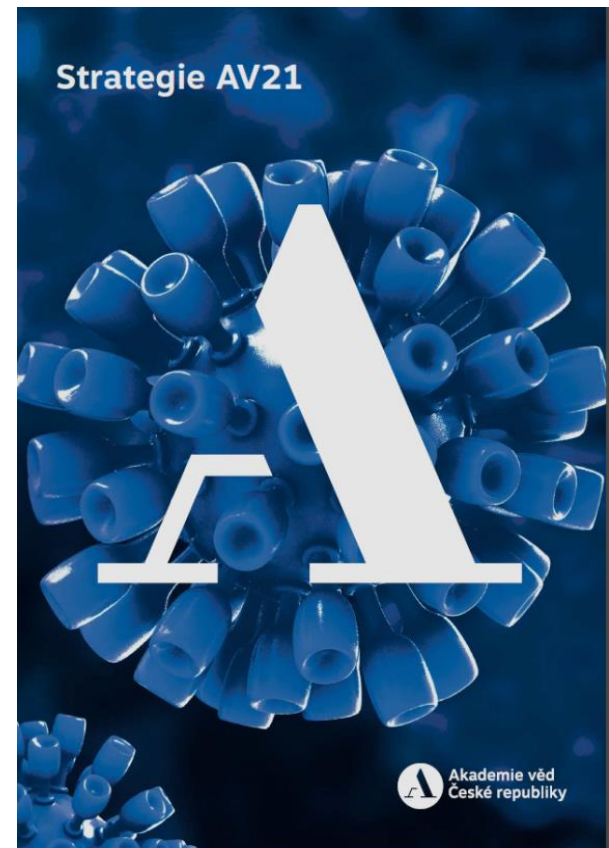
# CAS Institutes

Research Area	Section	Institutes	Employees 2016
<b>Mathematics, Physics and Earth Sciences</b>	Mathematics, Physics and Computer Sciences	6	1 632
	Applied Physics	7	872
	Earth Sciences	5	429
<b>Life and Chemical Sciences</b>	Chemical Sciences	6	1 246
	Biological and Medical Sciences	8	2 008
	Bio-Ecological Sciences	4	1 024
<b>Humanities and Social Sciences</b>	Social and Economic Sciences	5	318
	Historical Sciences	6	393
	Humanities and Philology	6	467
Centre of Administration and Operations		1	296
<b>Total</b>		<b>54</b>	<b>8 685</b>



# Strategy AV21

- *Top research in the public interest*
- Aimed at high-quality research with interdisciplinary and inter-institutional synergies to solve the societal problems and challenges
- 18 coordinated **Research Programmes**



# Strategy AV21 - Research Programmes

- Hopes and Risks of the Digital Era (3 CAS institutes / 11 cooperating institutions)
- Systems for Nuclear Power Industry (5 / 4)
- Efficient Energy Conversion and Storage (17 / 5)
- Natural Hazards (13 / 9)
- New Materials Based on Metals, Ceramics and Composites (8 / 10)
- Diagnostic Methods and Techniques (10 / 13)
- Wellbeing in Health and Disease (24 / 7)
- Foods for the Future (9 / 15)
- Diversity of Life and Health of Ecosystems (8 / 32)
- Molecules and Materials for Life (10 / 20)
- Europe and the State: Between Barbarism and Civilisation (15 / 6)
- Memory in the Digital Age (14 / 16)
- Effective Public Policies and Contemporary Society (6 / 16)
- Forms and Functions of Communication (15 / 16)
- Global Conflicts and Local Interactions (6 / 16)
- The universe for mankind (4 / 26)
- Preclinical testing of potential drugs (4 / 1)
- Light in the service of society (6 / 7)

# New research centres



- The ELI Beamlines Laser Center
- The HiLASE
- The BIOCEV Science and Research Center

# The CAS membership in international organisations:

- European Science Advisory Council (EASAC)
- All European Academies (ALLEA)
- International Council for Science (ICSU)
- InterAcademy Partnership (IAP)
- International Human Rights Network of Academies and Scholarly Societies (IHRNASS)
- Union Académique Internationale (UAI)
- International Social Science Council (ISSC)

# Thank you for your attention

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